CRESTONE PEAK RESOURCES

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

OWB
PROPOSAL 1

Anticollision Report

01 March, 2022

Anticollision Report

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

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

Survey Tool Program **Date** 3/1/2022

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	19,896.19	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	1,219.61	1,184.22	180.65	155.77	7.263	CC, ES
ABND VERT COSSLETT B UNIT 1 - OWB - Design #1	1,400.00	1,351.21	193.07	164.19	6.686	SF
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	200.00	187.00	275.97	273.18	98.984	CC
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	700.00	684.47	279.65	266.30	20.938	ES
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	1,400.00	1,352.21	371.99	343.56	13.087	SF
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	200.00	202.00	109.76	108.77	110.541	CC, ES
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	19,896.19	18,439.78	3,707.65	3,380.40	11.330	SF
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	200.00	202.00	99.96	98.97	100.670	CC, ES
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	19,896.19	18,411.98	3,381.14	3,054.78	10.360	SF
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	200.00	202.00	89.88	88.89	90.518	CC, ES
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	19,896.19	18,445.89	3,029.24	2,703.88	9.310	SF
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	200.00	202.00	79.80	78.81	80.367	CC, ES
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	19,896.19	18,786.19	2,691.03	2,363.28	8.211	SF
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	200.00	202.00	70.00	69.01	70.497	CC, ES
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	19,896.19	18,701.43	2,359.52	2,034.40	7.257	SF
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	200.00	201.00	59.92	58.93	60.565	CC, ES
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	19,896.19	18,933.68	2,042.67	1,715.67	6.247	SF
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	200.00	201.00	49.84	48.85	50.375	CC, ES
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	19,896.19	19,014.70	1,689.57	1,364.11	5.191	SF
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	200.00	201.00	40.04	39.05	40.470	CC, ES
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	19,896.19	19,378.00	1,363.01	1,033.37	4.135	SF
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	200.00	200.00	29.96	28.97	30.392	CC, ES
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	19,896.19	19,426.15	1,025.96	697.09	3.120	SF
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	200.00	200.00	19.88	18.89	20.167	CC, ES
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	19,896.19	19,515.69	700.06	373.87	2.146	SF
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	200.00	200.00	9.80	8.81	9.941	CC, ES
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	19,896.19	19,888.01	431.15	114.65	1.362	Level 3, SF
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	100.00	100.00	10.09	9.82	37.517	CC, ES
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	9,104.89	9,069.30	193.02	33.88	1.213	Level 2, SF
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOS	200.00	202.00	120.12	119.13	120.974	CC, ES
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOS	19,896.19	18,137.29	4,019.10	3,693.36	12.339	SF
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	7,587.42	16,236.00	2,731.48	2,552.25	15.241	CC
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	7,700.00	16,236.00	2,733.80	2,550.57	14.921	ES
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,400.00	16,236.00	2,849.78	2,647.54	14.091	SF
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	7,265.90	16,659.00	3,277.47	3,099.06	18.370	CC
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	7,400.00	16,659.00	3,280.21	3,097.64	17.966	ES
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,300.00	16,659.00	3,436.74	3,232.77	16.849	SF

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

Anticollision Report

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Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 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	7,477.09	16,530.00	3,192.68	3,014.65	17.933	CC
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	7,600.00	16,530.00	3,195.05	3,013.16	17.566	ES
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,400.00	16,530.00	3,323.40	3,121.90	16.493	SF
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	0.00	0.00	1,402.66			
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	100.00	85.39	1,402.77	1,402.50	5,220.876	ES
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	19,300.00	19,300.00	7,077.82	6,725.29	20.077	SF
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	223.96	220.64	1,393.35	1,392.27	1,293.600	CC, ES
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	19,896.19	17,340.00	6,821.34	6,488.37	20.486	SF
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	210.78	204.75	1,385.90	1,384.99	1,528.694	CC, ES
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	19,896.19	17,471.00	6,726.44	6,392.90	20.167	SF
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	0.00	0.00	1,377.96			
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	200.00	188.81	1,378.08	1,377.27	1,708.037	ES
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	19,896.19	17,364.41	6,364.50	6,035.46	19.343	SF
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	301.02	318.00	1,338.75	1,337.90	1,572.769	CC, ES
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	19,896.19	17,281.70	6,087.44	5,760.33	18.610	SF
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	100.00	90.46	1,361.24	1,360.96	4,856.177	CC
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	200.00	189.87	1,361.30	1,360.50	1,703.565	ES
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	19,896.19	17,796.00	5,945.60	5,611.08	17.774	SF
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	100.00	89.71	1,353.25	1,352.96	4,770.852	CC
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	200.00	189.38	1,353.28	1,352.47	1,675.017	ES
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	19,896.19	17,487.00	5,849.32	5,515.90	17.544	SF
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	212.26	205.44	1,344.60	1,343.63	1,379.420	CC, ES
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	19,896.19	17,127.92	5,476.10	5,162.58	17.467	SF
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	100.00	89.46	1,336.91	1,336.62	4,718.461	CC
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	200.00	188.86	1,336.97	1,336.16	1,656.193	ES
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	19,896.19	17,583.00	5,153.63	4,820.61	15.475	SF
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	207.08	198.87	1,328.85	1,328.00	1,565.831	CC, ES
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	19,896.19	17,568.80	4,948.62	4,618.41	14.986	SF
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	0.00	0.00	1,320.90			
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	100.00	83.19	1,321.10	1,320.82	4,827.913	ES
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	19,700.00	17,390.00	4,795.60	4,478.88	15.141	SF
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	100.00	90.42	1,312.59	1,312.30	4,607.050	CC
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	200.00	189.77	1,312.66	1,311.85	1,623.103	ES
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	19,896.19	17,805.67	4,614.76	4,280.98	13.825	SF
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	369.11	366.84	267.87	265.75	126.761	CC
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	400.00	395.35	268.08	265.74	114.874	ES
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	1,100.00	1,015.72	416.76	409.12	54.576	SF
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	0.00	0.00	292.39			
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	100.00	90.82	292.46	292.18	1,034.912	ES
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	5,600.00	5,600.00	3,909.00	3,848.96	65.099	SF
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	0.00	0.00	279.76			
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	200.00	190.21	280.23	279.33	310.021	ES
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	2,100.00	1,999.81	671.71	651.09	32.563	SF
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,129.90	1,168.77	220.78	212.66	27.199	CC, ES
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,400.00	1,417.84	250.42	240.00	24.024	SF
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	159.60	152.02	286.66	286.06	480.792	CC
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	200.00	189.45	286.88	285.99	319.488	ES
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	2,300.00	2,003.38	1,013.29	991.29	46.055	SF
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	813.13	839.78	253.83	248.08	44.103	CC, ES
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	1,200.00	1,188.14	315.59	306.41	34.356	SF
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	1,300.55	1,313.59	188.51	177.63	17.317	CC, ES
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	1,700.00	1,701.63	215.82	200.97	14.530	SF
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	9,433.15	15,315.72	940.55	771.28	5.557	CC

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 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 FRONT RANGE FARMS 15C-14HZ - OWB - F	9,550.00	15,353.00	946.29	767.44	5.291	ES
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	9,800.00	15,353.00	997.49	799.90	5.048	SF
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	9,557.48	15,243.00	600.68	429.85	3.516	CC
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	9,650.00	15,243.00	607.83	423.59	3.299	ES
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	9,750.00	15,243.00	630.84	434.98	3.221	SF
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,861.61	15,109.52	1,216.75	1,051.23	7.351	CC
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,900.00	15,101.25	1,217.33	1,049.19	7.240	ES
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	9,200.00	15,043.48	1,261.15	1,076.63	6.835	SF
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	9,815.86	15,352.00	449.46	333.89	3.889	CC
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	9,850.00	15,352.00	451.57	330.18	3.720	ES
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	9,950.00	15,352.00	480.88	344.88	3.536	SF
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	6,799.63	5,441.76	117.80	16.06	1.158	Level 2, CC, ES, SF
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	5,944.85	4,868.09	460.91	369.85	5.061	CC, ES
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	6,000.00	4,899.52	463.15	371.64	5.061	SF
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	6,239.97	5,066.25	380.57	286.35	4.039	CC, ES, SF
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	1,005.09	1,320.49	4,027.45	4,018.65	457.448	CC
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	1,100.00	1,402.14	4,028.20	4,018.49	414.744	ES
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	16,100.00	7,709.13	4,584.28	4,464.09	38.143	SF
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	292.30	292.30	4,036.31	4,034.63	2,399.108	CC, ES
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	16,800.00	7,838.28	4,487.64	4,348.66	32.290	SF

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Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Summary

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SEC 23-T1N-R68W						
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	2,987.32	2,616.70	2,736.41	2,701.20	77.711	CC
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	3,100.00	2,696.33	2,737.63	2,700.47	73.681	ES
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	14,700.00	7,581.11	3,659.69	3,558.71	36.243	SF
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	3,771.61	3,102.50	657.38	607.30	13.127	CC
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	3,800.00	3,119.51	657.75	607.17	13.005	ES
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	3,900.00	3,178.37	665.09	613.03	12.775	SF
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	4,234.67	4,319.82	1,487.93	1,429.69	25.548	CC
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	4,300.00	4,365.48	1,488.67	1,429.56	25.186	ES
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	5,000.00	4,860.56	1,578.70	1,512.13	23.716	SF
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	5,827.77	4,798.41	57.90	-34.61	0.626	Level 1, CC, ES, SF
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	4,491.70	3,554.45	786.67	728.44	13.512	CC
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	4,600.00	3,642.43	789.41	728.19	12.896	ES
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	5,000.00	3,958.68	844.51	773.84	11.951	SF
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	7,954.69	6,282.86	419.95	293.73	3.327	CC, ES
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	8,000.00	6,317.14	421.08	293.93	3.312	SF
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	11,500.00	7,657.72	344.14	231.72	3.061	SF
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	11,600.00	7,659.09	305.63	213.14	3.305	ES
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	11,675.14	7,660.09	296.25	215.28	3.659	CC
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	8,823.81	6,921.63	133.85	-5.12	0.963	Level 1, CC, ES, SF
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	9,600.00	7,525.95	930.31	837.56	10.030	SF
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	9,941.49	7,681.58	816.97	745.61	11.447	CC, ES
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	10,500.00	7,640.36	915.37	794.91	7.599	SF
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	10,900.00	7,642.94	777.92	694.99	9.381	ES
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	10,990.94	7,643.52	772.58	696.46	10.149	CC
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	12,294.89	7,825.10	734.50	641.26	7.877	CC
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	12,300.00	7,825.24	734.51	641.23	7.874	ES
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	12,700.00	7,837.28	838.72	719.54	7.038	SF
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	11,725.29	7,747.42	1,236.93	1,154.39	14.985	CC
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	11,800.00	7,747.69	1,239.19	1,154.02	14.550	ES
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	12,400.00	7,749.84	1,408.98	1,296.18	12.491	SF
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	3,502.37	3,704.42	2,058.60	2,010.75	43.021	CC, ES
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	4,600.00	4,361.40	2,242.15	2,179.49	35.786	SF
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	1,937.99	1,400.24	2,792.07	2,775.74	170.982	CC
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	2,000.00	1,433.00	2,792.47	2,775.30	162.653	ES
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	15,200.00	7,748.37	3,712.24	3,598.93	32.761	SF
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	13,716.72	7,654.82	1,770.78	1,674.12	18.319	CC, ES
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	14,000.00	7,646.79	1,793.28	1,695.24	18.292	SF
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	14,927.58	7,891.83	726.27	613.03	6.414	CC
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	15,000.00	7,891.67	729.88	610.53	6.116	ES
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	15,300.00	7,890.91	816.19	669.74	5.573	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	10,720.60	7,530.00	142.41	-36.96	0.794	Level 1, CC
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	10,800.00	7,530.00	163.06	-53.72	0.752	Level 1, ES, SF
EXIST VERT HELEN 23-23 - OWB - Design #1	4,471.85	3,644.82	2,376.33	2,265.36	21.415	CC
EXIST VERT HELEN 23-23 - OWB - Design #1	4,600.00	3,738.32	2,377.94	2,263.43	20.766	ES
EXIST VERT HELEN 23-23 - OWB - Design #1	13,400.00	7,561.00	2,623.92	2,429.91	13.525	SF
EXIST VERT HELEN 33-23 - OWB - Design #1	12,931.56	7,582.00	1,292.37	1,102.72	6.814	CC, ES
EXIST VERT HELEN 33-23 - OWB - Design #1	13,100.00	7,582.00	1,303.30	1,111.76	6.804	SF
EXIST VERT HELEN 34-23 - OWB - Design #1	14,400.00	7,573.00	1,017.96	805.10	4.782	SF
EXIST VERT HELEN 34-23 - OWB - Design #1	14,551.64	7,573.00	1,006.60	797.46	4.813	CC, ES
EXIST VERT HELEN 43-23 - OWB - Design #1	13,071.51	7,565.00	323.85	133.07	1.698	CC
EXIST VERT HELEN 43-23 - OWB - Design #1	13,100.00	7,565.00	325.10	132.42	1.687	ES
EXIST VERT HELEN 43-23 - OWB - Design #1	13,200.00	7,565.00	348.41	141.54	1.684	SF
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	13,999.31	7,571.00	169.86	-31.86	0.842	Level 1, CC, ES, 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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 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	15,737.66	5,050.00	3,512.97	3,381.12	26.645	CC, ES
ABND VERT ALAUX 1 - OWB - Design #1	17,000.00	5,050.00	3,732.89	3,589.30	25.996	SF
ABND VERT ALAUX 2 - OWB - Design #1	15,742.23	5,450.00	4,313.78	4,153.42	26.900	CC, ES
ABND VERT ALAUX 2 - OWB - Design #1	16,600.00	5,450.00	4,398.24	4,232.59	26.551	SF
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	16,004.58	7,611.00	3,506.27	3,380.10	27.789	CC, ES
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	16,900.00	16,900.00	3,618.65	3,458.29	22.567	SF
ABND VERT CRANDELL E UNIT 1 - OWB - Design #1	18,683.82	7,636.00	3,409.07	3,134.20	12.402	CC, ES, SF
ABND VERT GOLTL 1 - OWB - Design #1	18,355.03	5,042.00	2,550.18	2,431.62	21.509	CC
ABND VERT GOLTL 1 - OWB - Design #1	18,400.00	5,042.00	2,550.58	2,431.29	21.381	ES
ABND VERT GOLTL 1 - OWB - Design #1	19,896.19	5,042.00	2,979.70	2,808.76	17.431	SF
ABND VERT GOLTL 2 - OWB - Design #1	19,673.75	5,020.00	2,570.27	2,441.54	19.966	CC
ABND VERT GOLTL 2 - OWB - Design #1	19,700.00	5,020.00	2,570.40	2,441.26	19.903	ES
ABND VERT GOLTL 2 - OWB - Design #1	19,896.19	5,020.00	2,579.87	2,446.25	19.307	SF
ABND VERT JL SEARS 1 - OWB - Design #1	17,070.45	5,125.00	4,484.86	4,314.97	26.399	CC
ABND VERT JL SEARS 1 - OWB - Design #1	17,100.00	5,125.00	4,484.96	4,314.95	26.380	ES
ABND VERT JL SEARS 1 - OWB - Design #1	17,600.00	5,125.00	4,516.02	4,343.72	26.211	SF
ABND VERT JL SEARS 2 - OWB - Design #1	17,037.45	5,148.00	3,439.61	3,288.27	22.728	CC, ES
ABND VERT JL SEARS 2 - OWB - Design #1	17,300.00	5,148.00	3,449.62	3,297.60	22.692	SF
ABND VERT MANN 1 - OWB - Design #1	18,338.21	5,050.00	2,792.64	2,659.66	21.001	CC, ES
ABND VERT MANN 1 - OWB - Design #1	19,500.00	5,050.00	3,024.66	2,876.36	20.395	SF
ABND VERT MANN 2 - OWB - Design #1	19,678.46	5,048.00	2,789.39	2,642.92	19.044	CC, ES
ABND VERT MANN 2 - OWB - Design #1	19,896.19	5,048.00	2,797.87	2,650.71	19.012	SF
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	14,900.00	7,663.53	1,960.72	1,846.16	17.116	SF
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	15,139.93	7,659.41	1,945.99	1,832.93	17.212	CC, ES
EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY	18,944.50	7,804.01	4,301.91	4,126.73	24.557	CC, ES
EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY	19,200.00	7,800.64	4,309.49	4,133.54	24.493	SF
EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY	19,896.19	8,021.53	4,401.97	4,195.73	21.344	CC, ES, SF
EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY	19,844.81	7,876.51	3,892.53	3,695.86	19.792	CC, ES
EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY	19,896.19	7,876.78	3,892.87	3,696.09	19.783	SF
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	18,100.00	7,791.96	2,452.97	2,287.34	14.809	SF
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	18,300.00	7,789.60	2,444.45	2,279.83	14.848	ES
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	18,304.35	7,789.55	2,444.45	2,279.85	14.851	CC
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	19,300.00	7,962.31	2,347.60	2,152.81	12.052	SF
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	19,585.94	7,965.91	2,330.12	2,138.25	12.144	CC, ES
EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY	19,896.19	8,003.59	3,142.63	2,932.55	14.959	CC, ES, SF
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	18,700.00	7,956.53	1,872.19	1,690.21	10.288	SF
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	18,967.61	7,955.53	1,852.97	1,675.32	10.430	CC, ES
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	17,594.99	7,822.43	4,320.54	4,165.40	27.849	CC
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	17,600.00	7,822.35	4,320.54	4,165.38	27.845	ES
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	18,000.00	7,816.33	4,339.47	4,182.88	27.712	SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	17,400.00	7,885.55	3,115.39	2,959.42	19.975	SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	17,567.32	7,881.84	3,110.89	2,955.37	20.003	CC, ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	17,400.00	7,671.79	1,903.10	1,746.08	12.120	SF
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	17,600.00	7,667.85	1,890.89	1,736.40	12.240	ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	17,615.83	7,667.53	1,890.82	1,736.56	12.257	CC
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	16,783.44	7,645.74	3,793.57	3,655.00	27.376	CC
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	16,800.00	7,645.72	3,793.61	3,655.00	27.369	ES
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	17,000.00	7,645.51	3,799.75	3,660.72	27.330	SF
EXIST VERT ROBERTS 2 - OWB - Design #1	17,109.17	7,609.00	158.04	-90.57	0.636	Level 1, CC, ES, SF
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	16,200.00	7,572.00	629.18	386.48	2.592	SF
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	16,300.00	7,572.00	618.31	381.79	2.614	ES
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	16,317.80	7,572.00	618.05	382.66	2.626	CC
SI VERT ALAUX 26-3 - OWB - Design #1	15,500.00	7,603.00	2,442.58	2,217.60	10.857	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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 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						
SI VERT ALAUX 26-3 - OWB - Design #1	15,588.36	7,603.00	2,440.98	2,216.25	10.862	CC, ES
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	19,300.00	7,606.00	169.68	-130.40	0.565	Level 1, ES
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	19,359.07	7,606.00	159.06	-126.56	0.557	Level 1, CC, SF
SI VERT SEARS 22-26 - OWB - Design #1	16,800.00	7,603.00	2,267.85	2,021.35	9.200	SF
SI VERT SEARS 22-26 - OWB - Design #1	16,931.25	7,603.00	2,264.05	2,018.41	9.217	CC, ES
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	17,050.88	5,425.00	2,160.77	2,050.32	19.562	CC
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	17,100.00	5,425.00	2,161.33	2,049.96	19.408	ES
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	18,500.00	5,425.00	2,601.71	2,430.23	15.173	SF
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	15,733.24	5,450.00	2,431.89	2,315.60	20.913	CC, ES
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	17,200.00	5,450.00	2,839.97	2,690.99	19.062	SF
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	17,055.60	5,450.00	2,430.52	2,300.88	18.748	CC, ES
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	18,200.00	5,450.00	2,686.46	2,538.45	18.150	SF
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	15,728.53	5,400.00	2,162.40	2,062.36	21.614	CC
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	15,800.00	5,400.00	2,163.59	2,062.15	21.331	ES
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	17,300.00	5,400.00	2,673.11	2,504.82	15.884	SF

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

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore 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	24.14	232.42	104.16	255.07				
100.00	100.00	86.00	86.00	0.13	0.68	24.14	232.42	104.16	254.69	253.87	0.82	311.594	
200.00	200.00	186.00	186.00	0.49	2.30	24.14	232.42	104.16	254.69	251.90	2.79	91.352	
300.00	299.98	285.98	285.98	0.85	4.04	-45.47	232.42	104.16	253.46	248.57	4.89	51.851	
400.00	399.84	385.84	385.84	1.21	5.78	-46.38	232.42	104.16	249.82	242.83	6.99	35.731	
500.00	499.45	485.45	485.45	1.58	7.52	-47.95	232.42	104.16	243.88	234.78	9.10	26.799	
600.00	598.70	584.70	584.70	1.97	9.25	-50.26	232.42	104.16	235.87	224.65	11.22	21.030	
700.00	697.47	683.47	683.47	2.38	10.98	-53.44	232.42	104.16	226.13	212.78	13.34	16.948	
800.00	795.62	781.62	781.62	2.83	12.69	-57.66	232.42	104.16	215.19	199.70	15.49	13.895	
900.00	893.06	879.06	879.06	3.31	14.39	-63.10	232.42	104.16	203.84	186.18	17.66	11.542	
1,000.00	989.64	975.64	975.64	3.83	16.08	-69.96	232.42	104.16	193.22	173.34	19.87	9.722	
1,100.00	1,085.27	1,071.27	1,071.27	4.40	17.75	-78.30	232.42	104.16	184.88	162.74	22.13	8.353	
1,200.00	1,179.82	1,165.82	1,165.82	5.02	19.40	-87.98	232.42	104.16	180.77	156.35	24.42	7.403	
1,219.61	1,198.22	1,184.22	1,184.22	5.16	19.72	-90.00	232.42	104.16	180.65	155.77	24.87	7.263	CC, ES
1,300.00	1,273.17	1,259.17	1,259.17	5.70	21.03	-98.48	232.42	104.16	182.97	156.28	26.69	6.856	
1,400.00	1,365.21	1,351.21	1,351.21	6.43	22.63	-109.01	232.42	104.16	193.07	164.19	28.88	6.686	SF
1,500.00	1,455.84	1,441.84	1,441.84	7.23	24.21	-118.78	232.42	104.16	211.71	180.75	30.95	6.839	
1,600.00	1,544.94	1,530.94	1,530.94	8.09	25.77	-127.29	232.42	104.16	238.55	205.63	32.92	7.246	
1,700.00	1,632.39	1,618.39	1,618.39	9.01	27.30	-134.40	232.42	104.16	272.69	237.89	34.80	7.835	
1,800.00	1,718.11	1,704.11	1,704.11	10.00	28.79	-140.21	232.42	104.16	313.13	276.50	36.63	8.547	
1,900.00	1,801.97	1,787.97	1,787.97	11.07	30.25	-144.92	232.42	104.16	359.00	320.57	38.43	9.342	
2,000.00	1,883.88	1,869.88	1,869.88	12.20	31.68	-148.72	232.42	104.16	409.58	369.39	40.19	10.191	
2,100.00	1,963.74	1,949.74	1,949.74	13.41	33.08	-151.81	232.42	104.16	464.35	422.42	41.92	11.076	
2,200.00	2,041.45	2,027.45	2,027.45	14.69	34.43	-154.33	232.42	104.16	522.89	479.27	43.63	11.986	
2,300.00	2,116.92	2,102.92	2,102.92	16.05	35.75	-156.40	232.42	104.16	584.89	539.60	45.30	12.913	
2,357.48	2,159.25	2,145.25	2,145.25	16.86	36.49	-157.41	232.42	104.16	622.00	575.76	46.24	13.452	
2,400.00	2,190.27	2,176.27	2,176.27	17.47	37.03	-158.37	232.42	104.16	649.88	602.95	46.93	13.847	
2,500.00	2,263.22	2,249.22	2,249.22	18.92	38.31	-160.33	232.42	104.16	715.83	667.27	48.56	14.741	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
2,600.00	2,336.18	2,322.18	2,322.18	20.37	39.58	-161.98	232.42	104.16	782.19	732.00	50.20	15.583	
2,700.00	2,409.14	2,404.86	2,395.14	21.84	41.02	-163.38	232.42	104.16	848.88	796.87	52.01	16.322	
2,800.00	2,482.09	2,468.09	2,468.09	23.31	42.13	-164.58	232.42	104.16	915.82	862.33	53.49	17.122	
2,900.00	2,555.05	2,541.05	2,541.05	24.78	43.40	-165.63	232.42	104.16	982.96	927.82	55.14	17.826	
3,000.00	2,628.01	2,614.01	2,614.01	26.27	44.67	-166.54	232.42	104.16	1,050.26	993.46	56.80	18.490	
3,100.00	2,700.96	2,686.96	2,686.96	27.75	45.95	-167.35	232.42	104.16	1,117.70	1,059.23	58.46	19.117	
3,200.00	2,773.92	2,759.92	2,759.92	29.24	47.22	-168.06	232.42	104.16	1,185.24	1,125.11	60.13	19.710	
3,300.00	2,846.88	2,832.88	2,832.88	30.73	48.49	-168.71	232.42	104.16	1,252.87	1,191.07	61.80	20.272	
3,400.00	2,919.83	2,905.83	2,905.83	32.23	49.77	-169.28	232.42	104.16	1,320.59	1,257.11	63.48	20.804	
3,500.00	2,992.79	2,978.79	2,978.79	33.72	51.04	-169.80	232.42	104.16	1,388.37	1,323.21	65.16	21.308	
3,600.00	3,065.75	3,051.75	3,051.75	35.22	52.31	-170.28	232.42	104.16	1,456.20	1,389.37	66.84	21.787	
3,700.00	3,138.71	3,124.71	3,124.71	36.72	53.59	-170.71	232.42	104.16	1,524.09	1,455.57	68.52	22.243	
3,800.00	3,211.66	3,202.34	3,197.66	38.22	54.94	-171.10	232.42	104.16	1,592.02	1,521.73	70.29	22.650	
3,900.00	3,284.62	3,270.62	3,270.62	39.72	56.13	-171.47	232.42	104.16	1,659.99	1,588.09	71.89	23.089	
4,000.00	3,357.58	3,343.58	3,343.58	41.22	57.41	-171.80	232.42	104.16	1,727.99	1,654.40	73.59	23.483	
4,100.00	3,430.53	3,416.53	3,416.53	42.73	58.68	-172.11	232.42	104.16	1,796.02	1,720.74	75.28	23.859	
4,200.00	3,503.49	3,489.49	3,489.49	44.23	59.95	-172.40	232.42	104.16	1,864.07	1,787.10	76.97	24.218	
4,300.00	3,576.45	3,562.45	3,562.45	45.74	61.23	-172.67	232.42	104.16	1,932.15	1,853.49	78.67	24.561	
4,400.00	3,649.40	3,635.40	3,635.40	47.25	62.50	-172.91	232.42	104.16	2,000.25	1,919.89	80.36	24.890	
4,500.00	3,722.36	3,708.36	3,708.36	48.75	63.77	-173.15	232.42	104.16	2,068.38	1,986.31	82.06	25.205	
4,600.00	3,795.32	3,781.32	3,781.32	50.26	65.05	-173.37	232.42	104.16	2,136.51	2,052.75	83.76	25.507	
4,700.00	3,868.27	3,854.27	3,854.27	51.77	66.32	-173.57	232.42	104.16	2,204.67	2,119.20	85.46	25.797	
4,800.00	3,941.23	3,927.23	3,927.23	53.28	67.59	-173.76	232.42	104.16	2,272.83	2,185.67	87.17	26.075	
4,900.00	4,014.19	4,000.19	4,000.19	54.79	68.87	-173.94	232.42	104.16	2,341.01	2,252.15	88.87	26.342	
5,000.00	4,087.15	4,073.15	4,073.15	56.30	70.14	-174.12	232.42	104.16	2,409.21	2,318.63	90.57	26.600	
5,100.00	4,160.10	4,146.10	4,146.10	57.81	71.41	-174.28	232.42	104.16	2,477.41	2,385.13	92.28	26.847	
5,200.00	4,233.06	4,219.06	4,219.06	59.32	72.69	-174.43	232.42	104.16	2,545.62	2,451.64	93.99	27.085	
5,300.00	4,306.02	4,307.98	4,292.02	60.83	74.24	-174.58	232.42	104.16	2,613.85	2,517.88	95.97	27.235	
5,400.00	4,378.97	4,364.97	4,364.97	62.34	75.23	-174.71	232.42	104.16	2,682.08	2,584.68	97.40	27.536	
5,500.00	4,451.93	4,437.93	4,437.93	63.85	76.51	-174.84	232.42	104.16	2,750.32	2,651.21	99.11	27.750	
5,600.00	4,524.89	4,510.89	4,510.89	65.36	77.78	-174.97	232.42	104.16	2,818.56	2,717.74	100.82	27.956	
5,700.00	4,597.84	4,553.00	4,553.00	66.88	78.51	-175.04	232.42	104.16	2,886.98	2,785.16	101.82	28.353	
5,800.00	4,670.80	4,553.00	4,553.00	68.39	78.51	-175.04	232.42	104.16	2,956.90	2,855.08	101.82	29.041	
5,900.00	4,743.76	4,553.00	4,553.00	69.90	78.51	-175.04	232.42	104.16	3,028.51	2,926.74	101.76	29.761	
6,000.00	4,816.71	4,553.00	4,553.00	71.41	78.51	-175.04	232.42	104.16	3,101.68	3,000.02	101.66	30.509	
6,100.00	4,889.67	4,553.00	4,553.00	72.93	78.51	-175.04	232.42	104.16	3,176.32	3,074.79	101.53	31.284	
6,200.00	4,962.63	4,553.00	4,553.00	74.44	78.51	-175.04	232.42	104.16	3,252.32	3,150.96	101.37	32.084	
6,300.00	5,035.59	4,553.00	4,553.00	75.95	78.51	-175.04	232.42	104.16	3,329.60	3,228.41	101.18	32.907	
6,400.00	5,108.54	4,553.00	4,553.00	77.47	78.51	-175.04	232.42	104.16	3,408.05	3,307.07	100.98	33.751	
6,500.00	5,181.50	4,553.00	4,553.00	78.98	78.51	-175.04	232.42	104.16	3,487.60	3,386.85	100.75	34.615	
6,600.00	5,254.46	4,553.00	4,553.00	80.49	78.51	-175.04	232.42	104.16	3,568.19	3,467.67	100.52	35.498	
6,700.00	5,327.41	4,553.00	4,553.00	82.01	78.51	-175.04	232.42	104.16	3,649.74	3,549.46	100.27	36.398	
6,800.00	5,400.37	4,553.00	4,553.00	83.52	78.51	-175.04	232.42	104.16	3,732.18	3,632.16	100.02	37.313	
6,900.00	5,473.33	4,553.00	4,553.00	85.04	78.51	-175.04	232.42	104.16	3,815.46	3,715.69	99.77	38.243	
7,000.00	5,546.28	4,553.00	4,553.00	86.55	78.51	-175.04	232.42	104.16	3,899.53	3,800.02	99.51	39.187	
7,100.00	5,619.24	4,553.00	4,553.00	88.06	78.51	-175.04	232.42	104.16	3,984.33	3,885.08	99.25	40.143	
7,200.00	5,692.20	4,553.00	4,553.00	89.58	78.51	-175.04	232.42	104.16	4,069.83	3,970.83	99.00	41.111	
7,300.00	5,765.15	4,553.00	4,553.00	91.09	78.51	-175.04	232.42	104.16	4,155.97	4,057.23	98.74	42.090	
7,400.00	5,838.11	4,553.00	4,553.00	92.61	78.51	-175.04	232.42	104.16	4,242.72	4,144.23	98.49	43.079	
7,500.00	5,911.07	4,553.00	4,553.00	94.12	78.51	-175.04	232.42	104.16	4,330.04	4,231.80	98.24	44.076	
7,600.00	5,984.03	4,553.00	4,553.00	95.64	78.51	-175.04	232.42	104.16	4,417.90	4,319.91	98.00	45.082	
7,700.00	6,056.98	4,553.00	4,553.00	97.15	78.51	-175.04	232.42	104.16	4,506.27	4,408.51	97.76	46.096	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
7,800.00	6,129.94	4,553.00	4,553.00	98.67	78.51	-175.04	232.42	104.16	4,595.11	4,497.58	97.53	47.116	
7,900.00	6,202.90	4,553.00	4,553.00	100.18	78.51	-175.04	232.42	104.16	4,684.40	4,587.10	97.30	48.143	
8,000.00	6,275.85	4,553.00	4,553.00	101.70	78.51	-175.04	232.42	104.16	4,774.12	4,677.04	97.08	49.175	
8,100.00	6,348.81	4,553.00	4,553.00	103.21	78.51	-175.04	232.42	104.16	4,864.24	4,767.37	96.87	50.212	
8,200.00	6,421.77	4,553.00	4,553.00	104.73	78.51	-175.04	232.42	104.16	4,954.74	4,858.07	96.67	51.254	
8,300.00	6,494.72	4,553.00	4,553.00	106.24	78.51	-175.04	232.42	104.16	5,045.59	4,949.12	96.47	52.300	
8,400.00	6,567.68	4,553.00	4,553.00	107.76	78.51	-175.04	232.42	104.16	5,136.79	5,040.50	96.29	53.349	
8,500.00	6,640.64	4,553.00	4,553.00	109.27	78.51	-175.04	232.42	104.16	5,228.31	5,132.20	96.11	54.401	
8,600.00	6,713.59	4,553.00	4,553.00	110.79	78.51	-175.04	232.42	104.16	5,320.13	5,224.19	95.93	55.456	
8,700.00	6,786.55	4,553.00	4,553.00	112.30	78.51	-175.04	232.42	104.16	5,412.24	5,316.47	95.77	56.513	
8,800.00	6,859.51	4,553.00	4,553.00	113.82	78.51	-175.04	232.42	104.16	5,504.63	5,409.02	95.61	57.571	
8,900.00	6,932.46	4,553.00	4,553.00	115.33	78.51	-175.04	232.42	104.16	5,597.28	5,501.81	95.47	58.631	
9,000.00	7,005.42	4,553.00	4,553.00	116.85	78.51	-175.04	232.42	104.16	5,690.18	5,594.85	95.33	59.691	
9,104.89	7,081.95	4,553.00	4,553.00	118.44	78.51	-175.04	232.42	104.16	5,787.88	5,692.69	95.19	60.804	
9,150.00	7,115.15	4,553.00	4,553.00	119.12	78.51	169.27	232.42	104.16	5,829.81	5,734.68	95.13	61.283	
9,200.00	7,152.46	4,553.00	4,553.00	119.86	78.51	153.32	232.42	104.16	5,875.76	5,780.71	95.05	61.816	
9,250.00	7,190.04	4,553.00	4,553.00	120.57	78.51	139.22	232.42	104.16	5,920.83	5,825.87	94.97	62.346	
9,300.00	7,227.59	4,553.00	4,553.00	121.25	78.51	126.92	232.42	104.16	5,964.71	5,869.84	94.87	62.872	
9,350.00	7,264.83	4,553.00	4,553.00	121.89	78.51	116.22	232.42	104.16	6,007.09	5,912.33	94.76	63.392	
9,400.00	7,301.48	4,553.00	4,553.00	122.48	78.51	106.93	232.42	104.16	6,047.69	5,953.05	94.64	63.902	
9,450.00	7,337.26	4,553.00	4,553.00	123.01	78.51	98.87	232.42	104.16	6,086.22	5,991.72	94.51	64.400	
9,500.00	7,371.90	4,553.00	4,553.00	123.49	78.51	91.91	232.42	104.16	6,122.45	6,028.09	94.36	64.882	
9,550.00	7,405.13	4,553.00	4,553.00	123.91	78.51	85.91	232.42	104.16	6,156.13	6,061.92	94.21	65.345	
9,600.00	7,436.70	4,553.00	4,553.00	124.27	78.51	80.78	232.42	104.16	6,187.06	6,093.01	94.05	65.784	
9,650.00	7,466.36	4,553.00	4,553.00	124.57	78.51	76.41	232.42	104.16	6,215.05	6,121.16	93.89	66.197	
9,700.00	7,493.91	4,553.00	4,553.00	124.81	78.51	72.71	232.42	104.16	6,239.91	6,146.19	93.72	66.578	
9,750.00	7,519.11	4,553.00	4,553.00	125.00	78.51	69.60	232.42	104.16	6,261.50	6,167.94	93.56	66.922	
9,800.00	7,541.79	4,553.00	4,553.00	125.12	78.51	67.03	232.42	104.16	6,279.69	6,186.28	93.41	67.225	
9,850.00	7,561.77	4,553.00	4,553.00	125.20	78.51	64.94	232.42	104.16	6,294.38	6,201.10	93.28	67.481	
9,900.00	7,578.90	4,553.00	4,553.00	125.23	78.51	63.28	232.42	104.16	6,305.47	6,212.31	93.16	67.686	
9,950.00	7,593.04	4,553.00	4,553.00	125.22	78.51	62.02	232.42	104.16	6,312.89	6,219.83	93.06	67.835	
10,000.00	7,604.09	4,553.00	4,553.00	125.17	78.51	61.13	232.42	104.16	6,316.62	6,223.62	93.00	67.922	
10,050.00	7,611.97	4,553.00	4,553.00	125.08	78.51	60.60	232.42	104.16	6,316.61	6,223.65	92.97	67.945	
10,100.00	7,616.61	4,553.00	4,553.00	124.97	78.51	60.41	232.42	104.16	6,312.89	6,219.91	92.97	67.899	
10,145.95	7,618.00	4,553.00	4,553.00	124.84	78.51	60.54	232.42	104.16	6,306.19	6,213.17	93.02	67.796	
10,200.00	7,618.00	4,553.00	4,553.00	124.69	78.51	60.54	232.42	104.16	6,296.71	6,203.61	93.10	67.632	
10,300.00	7,618.00	4,553.00	4,553.00	124.41	78.51	60.54	232.42	104.16	6,280.37	6,187.03	93.34	67.286	
10,400.00	7,618.00	4,553.00	4,553.00	124.14	78.51	60.54	232.42	104.16	6,265.57	6,171.89	93.68	66.884	
10,500.00	7,618.00	4,553.00	4,553.00	123.88	78.51	60.54	232.42	104.16	6,252.34	6,158.23	94.12	66.433	
10,600.00	7,618.00	4,553.00	4,553.00	123.63	78.51	60.54	232.42	104.16	6,240.69	6,146.04	94.65	65.937	
10,700.00	7,618.00	4,553.00	4,553.00	123.40	78.51	60.54	232.42	104.16	6,230.61	6,135.35	95.27	65.403	
10,800.00	7,618.00	4,553.00	4,553.00	123.18	78.51	60.54	232.42	104.16	6,222.13	6,126.17	95.97	64.836	
10,900.00	7,618.00	4,553.00	4,553.00	122.96	78.51	60.54	232.42	104.16	6,215.25	6,118.51	96.74	64.244	
11,000.00	7,618.00	4,553.00	4,553.00	122.76	78.51	60.54	232.42	104.16	6,209.97	6,112.38	97.59	63.632	
11,100.00	7,618.00	4,553.00	4,553.00	122.57	78.51	60.54	232.42	104.16	6,206.30	6,107.80	98.50	63.007	
11,200.00	7,618.00	4,553.00	4,553.00	122.39	78.51	60.54	232.42	104.16	6,204.23	6,104.76	99.47	62.374	
11,278.04	7,618.00	4,553.00	4,553.00	122.26	78.51	60.54	232.42	104.16	6,203.74	6,103.48	100.27	61.873	
11,300.00	7,618.00	4,553.00	4,553.00	122.23	78.51	60.54	232.42	104.16	6,203.78	6,103.29	100.49	61.737	
11,400.00	7,618.00	4,553.00	4,553.00	122.07	78.51	60.54	232.42	104.16	6,204.94	6,103.39	101.55	61.102	
11,500.00	7,618.00	4,553.00	4,553.00	121.93	78.51	60.54	232.42	104.16	6,207.71	6,105.06	102.65	60.473	
11,600.00	7,618.00	4,553.00	4,553.00	121.79	78.51	60.54	232.42	104.16	6,212.09	6,108.30	103.79	59.852	
11,700.00	7,618.00	4,553.00	4,553.00	121.67	78.51	60.54	232.42	104.16	6,218.08	6,113.12	104.96	59.243	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
11,800.00	7,618.00	4,553.00	4,553.00	121.56	78.51	60.54	232.42	104.16	6,225.66	6,119.51	106.15	58.649	
11,900.00	7,618.00	4,553.00	4,553.00	121.46	78.51	60.54	232.42	104.16	6,234.84	6,127.47	107.37	58.070	
12,000.00	7,618.00	4,553.00	4,553.00	121.38	78.51	60.54	232.42	104.16	6,245.61	6,137.01	108.60	57.510	
12,100.00	7,618.00	4,553.00	4,553.00	121.30	78.51	60.54	232.42	104.16	6,257.96	6,148.11	109.85	56.969	
12,200.00	7,618.00	4,553.00	4,553.00	121.24	78.51	60.54	232.42	104.16	6,271.88	6,160.77	111.11	56.449	
12,300.00	7,618.00	4,553.00	4,553.00	121.19	78.51	60.54	232.42	104.16	6,287.35	6,174.98	112.37	55.951	
12,400.00	7,618.00	4,553.00	4,553.00	121.16	78.51	60.54	232.42	104.16	6,304.38	6,190.73	113.65	55.474	
12,500.00	7,618.00	4,553.00	4,553.00	121.14	78.51	60.54	232.42	104.16	6,322.94	6,208.02	114.92	55.020	
12,600.00	7,618.00	4,553.00	4,553.00	121.13	78.51	60.54	232.42	104.16	6,343.03	6,226.83	116.20	54.588	
12,700.00	7,618.00	4,553.00	4,553.00	121.13	78.51	60.54	232.42	104.16	6,364.62	6,247.15	117.47	54.179	
12,800.00	7,618.00	4,553.00	4,553.00	121.15	78.51	60.54	232.42	104.16	6,387.71	6,268.96	118.74	53.794	
12,900.00	7,618.00	4,553.00	4,553.00	121.18	78.51	60.54	232.42	104.16	6,412.27	6,292.26	120.01	53.431	
13,000.00	7,618.00	4,553.00	4,553.00	121.23	78.51	60.54	232.42	104.16	6,438.29	6,317.02	121.27	53.090	
13,100.00	7,618.00	4,553.00	4,553.00	121.29	78.51	60.54	232.42	104.16	6,465.75	6,343.23	122.52	52.772	
13,200.00	7,618.00	4,553.00	4,553.00	121.37	78.51	60.54	232.42	104.16	6,494.64	6,370.88	123.76	52.477	
13,300.00	7,618.00	4,553.00	4,553.00	121.46	78.51	60.54	232.42	104.16	6,524.93	6,399.94	124.99	52.202	
13,400.00	7,618.00	4,553.00	4,553.00	121.57	78.51	60.54	232.42	104.16	6,556.61	6,430.40	126.21	51.950	
13,500.00	7,618.00	4,553.00	4,553.00	121.70	78.51	60.54	232.42	104.16	6,589.65	6,462.24	127.41	51.718	
13,600.00	7,618.00	4,553.00	4,553.00	121.84	78.51	60.54	232.42	104.16	6,624.04	6,495.44	128.61	51.507	
13,700.00	7,618.00	4,553.00	4,553.00	122.01	78.51	60.54	232.42	104.16	6,659.75	6,529.97	129.78	51.316	
13,800.00	7,618.00	4,553.00	4,553.00	122.19	78.51	60.54	232.42	104.16	6,696.77	6,565.83	130.94	51.144	
13,900.00	7,618.00	4,553.00	4,553.00	122.39	78.51	60.54	232.42	104.16	6,735.06	6,602.98	132.08	50.992	
14,000.00	7,618.00	4,553.00	4,553.00	122.62	78.51	60.54	232.42	104.16	6,774.62	6,641.41	133.21	50.858	
14,100.00	7,618.00	4,553.00	4,553.00	122.86	78.51	60.54	232.42	104.16	6,815.41	6,681.10	134.31	50.742	
14,200.00	7,618.00	4,553.00	4,553.00	123.12	78.51	60.54	232.42	104.16	6,857.42	6,722.02	135.40	50.644	
14,300.00	7,618.00	4,553.00	4,553.00	123.41	78.51	60.54	232.42	104.16	6,900.63	6,764.15	136.48	50.563	
14,400.00	7,618.00	4,553.00	4,553.00	123.72	78.51	60.54	232.42	104.16	6,945.00	6,807.47	137.53	50.499	
14,500.00	7,618.00	4,553.00	4,553.00	124.06	78.51	60.54	232.42	104.16	6,990.52	6,851.96	138.56	50.451	
14,600.00	7,618.00	4,553.00	4,553.00	124.42	78.51	60.54	232.42	104.16	7,037.17	6,897.60	139.57	50.419	
14,700.00	7,618.00	4,553.00	4,553.00	124.80	78.51	60.54	232.42	104.16	7,084.93	6,944.36	140.57	50.402	
14,800.00	7,618.00	4,553.00	4,553.00	125.21	78.51	60.54	232.42	104.16	7,133.77	6,992.22	141.54	50.400	
14,900.00	7,618.00	4,553.00	4,553.00	125.65	78.51	60.54	232.42	104.16	7,183.66	7,041.16	142.50	50.412	
15,000.00	7,618.00	4,553.00	4,553.00	126.11	78.51	60.54	232.42	104.16	7,234.60	7,091.16	143.43	50.438	
15,100.00	7,618.00	4,553.00	4,553.00	126.61	78.51	60.54	232.42	104.16	7,286.55	7,142.20	144.35	50.478	
15,200.00	7,618.00	4,553.00	4,553.00	127.13	78.51	60.54	232.42	104.16	7,339.49	7,194.25	145.25	50.531	
15,300.00	7,618.00	4,553.00	4,553.00	127.68	78.51	60.54	232.42	104.16	7,393.41	7,247.29	146.13	50.596	
15,400.00	7,618.00	4,553.00	4,553.00	128.26	78.51	60.54	232.42	104.16	7,448.29	7,301.30	146.98	50.674	
15,500.00	7,618.00	4,553.00	4,553.00	128.87	78.51	60.54	232.42	104.16	7,504.09	7,356.27	147.82	50.764	
15,600.00	7,618.00	4,553.00	4,553.00	129.51	78.51	60.54	232.42	104.16	7,560.80	7,412.16	148.64	50.865	
15,700.00	7,618.00	4,553.00	4,553.00	130.18	78.51	60.54	232.42	104.16	7,618.41	7,468.96	149.44	50.978	
15,800.00	7,618.00	4,553.00	4,553.00	130.88	78.51	60.54	232.42	104.16	7,676.88	7,526.66	150.23	51.102	
15,900.00	7,618.00	4,553.00	4,553.00	131.61	78.51	60.54	232.42	104.16	7,736.21	7,585.22	150.99	51.236	
16,000.00	7,618.00	4,553.00	4,553.00	132.37	78.51	60.54	232.42	104.16	7,796.37	7,644.63	151.74	51.380	
16,100.00	7,618.00	4,553.00	4,553.00	133.17	78.51	60.54	232.42	104.16	7,857.33	7,704.86	152.47	51.534	
16,200.00	7,618.00	4,553.00	4,553.00	133.99	78.51	60.54	232.42	104.16	7,919.10	7,765.92	153.18	51.697	
16,300.00	7,618.00	4,553.00	4,553.00	134.84	78.51	60.54	232.42	104.16	7,981.63	7,827.76	153.88	51.870	
16,400.00	7,618.00	4,553.00	4,553.00	135.72	78.51	60.54	232.42	104.16	8,044.93	7,890.37	154.56	52.052	
16,500.00	7,618.00	4,553.00	4,553.00	136.63	78.51	60.54	232.42	104.16	8,108.96	7,953.75	155.22	52.243	
16,600.00	7,618.00	4,553.00	4,553.00	137.57	78.51	60.54	232.42	104.16	8,173.72	8,017.86	155.86	52.442	
16,700.00	7,618.00	4,553.00	4,553.00	138.54	78.51	60.54	232.42	104.16	8,239.18	8,082.69	156.49	52.649	
16,800.00	7,618.00	4,553.00	4,553.00	139.53	78.51	60.54	232.42	104.16	8,305.33	8,148.22	157.11	52.864	
16,900.00	7,618.00	4,553.00	4,553.00	140.55	78.51	60.54	232.42	104.16	8,372.15	8,214.44	157.71	53.087	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
17,000.00	7,618.00	4,553.00	4,553.00	141.60	78.51	60.54	232.42	104.16	8,439.62	8,281.33	158.29	53.317	
17,100.00	7,618.00	4,553.00	4,553.00	142.67	78.51	60.54	232.42	104.16	8,507.74	8,348.88	158.86	53.554	
17,200.00	7,618.00	4,553.00	4,553.00	143.77	78.51	60.54	232.42	104.16	8,576.48	8,417.06	159.42	53.799	
17,300.00	7,618.00	4,553.00	4,553.00	144.88	78.51	60.54	232.42	104.16	8,645.83	8,485.87	159.96	54.050	
17,400.00	7,618.00	4,553.00	4,553.00	146.02	78.51	60.54	232.42	104.16	8,715.78	8,555.29	160.49	54.308	
17,500.00	7,618.00	4,553.00	4,553.00	147.19	78.51	60.54	232.42	104.16	8,786.31	8,625.30	161.00	54.572	
17,600.00	7,618.00	4,553.00	4,553.00	148.37	78.51	60.54	232.42	104.16	8,857.40	8,695.90	161.51	54.842	
17,700.00	7,618.00	4,553.00	4,553.00	149.57	78.51	60.54	232.42	104.16	8,929.05	8,767.06	162.00	55.119	
17,800.00	7,618.00	4,553.00	4,553.00	150.79	78.51	60.54	232.42	104.16	9,001.24	8,838.77	162.47	55.401	
17,900.00	7,618.00	4,553.00	4,553.00	152.03	78.51	60.54	232.42	104.16	9,073.96	8,911.02	162.94	55.689	
18,000.00	7,618.00	4,553.00	4,553.00	153.29	78.51	60.54	232.42	104.16	9,147.19	8,983.80	163.40	55.982	
18,100.00	7,618.00	4,553.00	4,553.00	154.57	78.51	60.54	232.42	104.16	9,220.93	9,057.09	163.84	56.281	
18,200.00	7,618.00	4,553.00	4,553.00	155.86	78.51	60.54	232.42	104.16	9,295.16	9,130.89	164.27	56.584	
18,300.00	7,618.00	4,553.00	4,553.00	157.17	78.51	60.54	232.42	104.16	9,369.86	9,205.17	164.69	56.893	
18,400.00	7,618.00	4,553.00	4,553.00	158.49	78.51	60.54	232.42	104.16	9,445.04	9,279.93	165.10	57.207	
18,500.00	7,618.00	4,553.00	4,553.00	159.82	78.51	60.54	232.42	104.16	9,520.67	9,355.16	165.50	57.525	
18,600.00	7,618.00	4,553.00	4,553.00	161.17	78.51	60.54	232.42	104.16	9,596.74	9,430.85	165.90	57.848	
18,700.00	7,618.00	4,553.00	4,553.00	162.54	78.51	60.54	232.42	104.16	9,673.26	9,506.98	166.28	58.176	
18,800.00	7,618.00	4,553.00	4,553.00	163.91	78.51	60.54	232.42	104.16	9,750.19	9,583.55	166.65	58.507	
18,900.00	7,618.00	4,553.00	4,553.00	165.30	78.51	60.54	232.42	104.16	9,827.55	9,660.53	167.01	58.843	
19,000.00	7,618.00	4,553.00	4,553.00	166.70	78.51	60.54	232.42	104.16	9,905.31	9,737.94	167.37	59.183	
19,100.00	7,618.00	4,553.00	4,553.00	168.10	78.51	60.54	232.42	104.16	9,983.46	9,815.75	167.71	59.527	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	-21.05	257.55	-99.12	276.27				
100.00	100.00	87.00	87.00	0.13	0.68	-21.05	257.55	-99.12	275.97	275.16	0.81	340.645	
200.00	200.00	187.00	187.00	0.49	2.30	-21.05	257.55	-99.12	275.97	273.18	2.79	98.984	CC
300.00	299.98	286.98	286.98	0.85	4.04	-90.73	257.55	-99.12	275.98	271.10	4.89	56.467	
400.00	399.84	386.84	386.84	1.21	5.78	-91.81	257.55	-99.12	276.10	269.11	6.99	39.506	
500.00	499.45	486.45	486.45	1.58	7.52	-93.60	257.55	-99.12	276.51	267.41	9.10	30.389	
600.00	598.70	585.70	585.70	1.97	9.25	-96.07	257.55	-99.12	277.55	266.33	11.22	24.736	
700.00	697.47	684.47	684.47	2.38	10.98	-99.18	257.55	-99.12	279.65	266.30	13.36	20.938	ES
800.00	795.62	782.62	782.62	2.83	12.69	-102.85	257.55	-99.12	283.37	267.86	15.51	18.274	
900.00	893.06	880.06	880.06	3.31	14.39	-106.98	257.55	-99.12	289.31	271.64	17.67	16.372	
1,000.00	989.64	976.64	976.64	3.83	16.08	-111.44	257.55	-99.12	298.10	278.26	19.84	15.023	
1,100.00	1,085.27	1,072.27	1,072.27	4.40	17.75	-116.07	257.55	-99.12	310.34	288.33	22.02	14.096	
1,200.00	1,179.82	1,166.82	1,166.82	5.02	19.40	-120.72	257.55	-99.12	326.52	302.34	24.18	13.506	
1,300.00	1,273.17	1,260.17	1,260.17	5.70	21.03	-125.25	257.55	-99.12	347.00	320.68	26.32	13.186	
1,400.00	1,365.21	1,352.21	1,352.21	6.43	22.63	-129.55	257.55	-99.12	371.99	343.56	28.42	13.087	SF
1,500.00	1,455.84	1,442.84	1,442.84	7.23	24.21	-133.53	257.55	-99.12	401.55	371.05	30.50	13.167	
1,600.00	1,544.94	1,531.94	1,531.94	8.09	25.77	-137.16	257.55	-99.12	435.64	403.12	32.53	13.393	
1,700.00	1,632.39	1,619.39	1,619.39	9.01	27.30	-140.43	257.55	-99.12	474.15	439.63	34.52	13.736	
1,800.00	1,718.11	1,705.11	1,705.11	10.00	28.79	-143.33	257.55	-99.12	516.90	480.44	36.46	14.176	
1,900.00	1,801.97	1,788.97	1,788.97	11.07	30.25	-145.89	257.55	-99.12	563.70	525.33	38.37	14.692	
2,000.00	1,883.88	1,870.88	1,870.88	12.20	31.68	-148.14	257.55	-99.12	614.36	574.13	40.23	15.272	
2,100.00	1,963.74	1,950.74	1,950.74	13.41	33.08	-150.10	257.55	-99.12	668.67	626.62	42.05	15.903	
2,200.00	2,041.45	2,028.45	2,028.45	14.69	34.43	-151.81	257.55	-99.12	726.45	682.63	43.82	16.579	
2,300.00	2,116.92	2,103.92	2,103.92	16.05	35.75	-153.28	257.55	-99.12	787.53	741.99	45.54	17.291	
2,357.48	2,159.25	2,146.25	2,146.25	16.86	36.49	-154.03	257.55	-99.12	824.07	777.55	46.52	17.715	
2,400.00	2,190.27	2,177.27	2,177.27	17.47	37.03	-154.85	257.55	-99.12	851.52	804.29	47.23	18.030	
2,500.00	2,263.22	2,250.22	2,250.22	18.92	38.31	-156.60	257.55	-99.12	916.49	867.60	48.89	18.744	
2,600.00	2,336.18	2,323.18	2,323.18	20.37	39.58	-158.13	257.55	-99.12	981.92	931.36	50.56	19.421	
2,700.00	2,409.14	2,403.86	2,396.14	21.84	40.99	-159.48	257.55	-99.12	1,047.73	995.38	52.36	20.011	
2,800.00	2,482.09	2,469.09	2,469.09	23.31	42.13	-160.68	257.55	-99.12	1,113.86	1,059.97	53.89	20.670	
2,900.00	2,555.05	2,542.05	2,542.05	24.78	43.40	-161.76	257.55	-99.12	1,180.24	1,124.68	55.55	21.245	
3,000.00	2,628.01	2,615.01	2,615.01	26.27	44.67	-162.72	257.55	-99.12	1,246.83	1,189.61	57.22	21.790	
3,100.00	2,700.96	2,687.96	2,687.96	27.75	45.95	-163.59	257.55	-99.12	1,313.61	1,254.73	58.89	22.307	
3,200.00	2,773.92	2,760.92	2,760.92	29.24	47.22	-164.38	257.55	-99.12	1,380.55	1,320.00	60.56	22.797	
3,300.00	2,846.88	2,833.88	2,833.88	30.73	48.49	-165.10	257.55	-99.12	1,447.63	1,385.40	62.23	23.262	
3,400.00	2,919.83	2,906.83	2,906.83	32.23	49.77	-165.75	257.55	-99.12	1,514.82	1,450.92	63.90	23.704	
3,500.00	2,992.79	2,979.79	2,979.79	33.72	51.04	-166.35	257.55	-99.12	1,582.12	1,516.54	65.58	24.125	
3,600.00	3,065.75	3,052.75	3,052.75	35.22	52.31	-166.91	257.55	-99.12	1,649.50	1,582.24	67.26	24.525	
3,700.00	3,138.71	3,125.71	3,125.71	36.72	53.59	-167.42	257.55	-99.12	1,716.97	1,648.03	68.94	24.906	
3,800.00	3,211.66	3,201.34	3,198.66	38.22	54.91	-167.89	257.55	-99.12	1,784.50	1,713.84	70.67	25.252	
3,900.00	3,284.62	3,271.62	3,271.62	39.72	56.13	-168.33	257.55	-99.12	1,852.10	1,779.80	72.30	25.615	
4,000.00	3,357.58	3,344.58	3,344.58	41.22	57.41	-168.74	257.55	-99.12	1,919.76	1,845.77	73.99	25.946	
4,100.00	3,430.53	3,417.53	3,417.53	42.73	58.68	-169.12	257.55	-99.12	1,987.46	1,911.78	75.68	26.263	
4,200.00	3,503.49	3,509.51	3,490.49	44.23	60.28	-169.48	257.55	-99.12	2,055.21	1,977.51	77.70	26.452	
4,300.00	3,576.45	3,563.45	3,563.45	45.74	61.23	-169.81	257.55	-99.12	2,123.00	2,043.95	79.06	26.855	
4,400.00	3,649.40	3,636.40	3,636.40	47.25	62.50	-170.13	257.55	-99.12	2,190.83	2,110.08	80.75	27.132	
4,500.00	3,722.36	3,709.36	3,709.36	48.75	63.77	-170.42	257.55	-99.12	2,258.69	2,176.25	82.44	27.398	
4,600.00	3,795.32	3,782.32	3,782.32	50.26	65.05	-170.70	257.55	-99.12	2,326.59	2,242.45	84.13	27.653	
4,700.00	3,868.27	3,855.27	3,855.27	51.77	66.32	-170.96	257.55	-99.12	2,394.51	2,308.68	85.83	27.898	
4,800.00	3,941.23	3,928.23	3,928.23	53.28	67.59	-171.21	257.55	-99.12	2,462.45	2,374.93	87.53	28.134	
4,900.00	4,014.19	4,001.19	4,001.19	54.79	68.87	-171.45	257.55	-99.12	2,530.43	2,441.20	89.22	28.360	
5,000.00	4,087.15	4,074.15	4,074.15	56.30	70.14	-171.67	257.55	-99.12	2,598.42	2,507.50	90.92	28.578	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,100.00	4,160.10	4,147.10	4,147.10	57.81	71.41	-171.88	257.55	-99.12	2,666.43	2,573.81	92.62	28.788	
5,200.00	4,233.06	4,220.06	4,220.06	59.32	72.69	-172.08	257.55	-99.12	2,734.47	2,640.14	94.33	28.990	
5,300.00	4,306.02	4,306.98	4,293.02	60.83	74.20	-172.28	257.55	-99.12	2,802.52	2,706.25	96.27	29.111	
5,400.00	4,378.97	4,365.97	4,365.97	62.34	75.23	-172.46	257.55	-99.12	2,870.58	2,772.85	97.73	29.372	
5,500.00	4,451.93	4,438.93	4,438.93	63.85	76.51	-172.63	257.55	-99.12	2,938.66	2,839.23	99.44	29.554	
5,600.00	4,524.89	4,511.89	4,511.89	65.36	77.78	-172.80	257.55	-99.12	3,006.76	2,905.62	101.14	29.728	
5,700.00	4,597.84	4,584.84	4,584.84	66.88	79.05	-172.96	257.55	-99.12	3,074.87	2,972.02	102.85	29.898	
5,800.00	4,670.80	4,657.80	4,657.80	68.39	80.33	-173.11	257.55	-99.12	3,142.99	3,038.43	104.55	30.061	
5,900.00	4,743.76	4,730.76	4,730.76	69.90	81.60	-173.26	257.55	-99.12	3,211.12	3,104.86	106.26	30.219	
6,000.00	4,816.71	4,803.71	4,803.71	71.41	82.87	-173.40	257.55	-99.12	3,279.26	3,171.29	107.97	30.372	
6,100.00	4,889.67	4,876.67	4,876.67	72.93	84.15	-173.53	257.55	-99.12	3,347.42	3,237.74	109.68	30.520	
6,200.00	4,962.63	4,949.63	4,949.63	74.44	85.42	-173.66	257.55	-99.12	3,415.58	3,304.19	111.39	30.663	
6,300.00	5,035.59	5,022.59	5,022.59	75.95	86.69	-173.78	257.55	-99.12	3,483.75	3,370.65	113.10	30.802	
6,400.00	5,108.54	5,104.46	5,095.54	77.47	88.12	-173.90	257.55	-99.12	3,551.93	3,436.96	114.97	30.895	
6,500.00	5,181.50	5,168.50	5,168.50	78.98	89.24	-174.02	257.55	-99.12	3,620.12	3,503.59	116.53	31.067	
6,600.00	5,254.46	5,241.46	5,241.46	80.49	90.51	-174.13	257.55	-99.12	3,688.31	3,570.07	118.24	31.194	
6,700.00	5,327.41	5,314.41	5,314.41	82.01	91.79	-174.23	257.55	-99.12	3,756.52	3,636.56	119.95	31.316	
6,800.00	5,400.37	5,387.37	5,387.37	83.52	93.06	-174.34	257.55	-99.12	3,824.73	3,703.06	121.67	31.436	
6,900.00	5,473.33	5,460.33	5,460.33	85.04	94.33	-174.44	257.55	-99.12	3,892.94	3,769.56	123.38	31.551	
7,000.00	5,546.28	5,533.28	5,533.28	86.55	95.61	-174.53	257.55	-99.12	3,961.16	3,836.06	125.10	31.664	
7,100.00	5,619.24	5,606.24	5,606.24	88.06	96.88	-174.62	257.55	-99.12	4,029.39	3,902.57	126.82	31.773	
7,200.00	5,692.20	5,679.20	5,679.20	89.58	98.15	-174.71	257.55	-99.12	4,097.62	3,969.09	128.53	31.880	
7,300.00	5,765.15	5,752.15	5,752.15	91.09	99.43	-174.80	257.55	-99.12	4,165.86	4,035.61	130.25	31.983	
7,400.00	5,838.11	5,825.11	5,825.11	92.61	100.70	-174.88	257.55	-99.12	4,234.10	4,102.13	131.97	32.084	
7,500.00	5,911.07	5,901.93	5,898.07	94.12	102.04	-174.97	257.55	-99.12	4,302.35	4,168.59	133.76	32.165	
7,600.00	5,984.03	5,971.03	5,971.03	95.64	103.25	-175.04	257.55	-99.12	4,370.60	4,235.19	135.41	32.277	
7,700.00	6,056.98	6,043.98	6,043.98	97.15	104.52	-175.12	257.55	-99.12	4,438.86	4,301.73	137.13	32.370	
7,800.00	6,129.94	6,116.94	6,116.94	98.67	105.79	-175.19	257.55	-99.12	4,507.12	4,368.27	138.85	32.460	
7,900.00	6,202.90	6,189.90	6,189.90	100.18	107.07	-175.27	257.55	-99.12	4,575.38	4,434.81	140.57	32.548	
8,000.00	6,275.85	6,262.85	6,262.85	101.70	108.34	-175.33	257.55	-99.12	4,643.65	4,501.36	142.29	32.634	
8,100.00	6,348.81	6,335.81	6,335.81	103.21	109.61	-175.40	257.55	-99.12	4,711.92	4,567.91	144.02	32.718	
8,200.00	6,421.77	6,408.77	6,408.77	104.73	110.89	-175.47	257.55	-99.12	4,780.20	4,634.46	145.74	32.799	
8,300.00	6,494.72	6,481.72	6,481.72	106.24	112.16	-175.53	257.55	-99.12	4,848.48	4,701.01	147.46	32.879	
8,400.00	6,567.68	6,554.68	6,554.68	107.76	113.43	-175.59	257.55	-99.12	4,916.76	4,767.57	149.19	32.957	
8,500.00	6,640.64	6,627.64	6,627.64	109.27	114.71	-175.65	257.55	-99.12	4,985.04	4,834.13	150.91	33.032	
8,600.00	6,713.59	6,700.59	6,700.59	110.79	115.98	-175.71	257.55	-99.12	5,053.33	4,900.69	152.64	33.106	
8,700.00	6,786.55	6,773.55	6,773.55	112.30	117.25	-175.77	257.55	-99.12	5,121.62	4,967.26	154.37	33.179	
8,800.00	6,859.51	6,846.51	6,846.51	113.82	118.53	-175.83	257.55	-99.12	5,189.91	5,033.82	156.09	33.249	
8,900.00	6,932.46	6,919.46	6,919.46	115.33	119.80	-175.88	257.55	-99.12	5,258.21	5,100.39	157.82	33.318	
9,000.00	7,005.42	7,007.58	6,992.42	116.85	121.34	-175.93	257.55	-99.12	5,326.51	5,166.69	159.81	33.330	
9,104.89	7,081.95	7,068.95	7,068.95	118.44	122.41	-175.99	257.55	-99.12	5,398.15	5,236.79	161.36	33.454	
9,150.00	7,115.15	7,102.15	7,102.15	119.12	122.99	175.21	257.55	-99.12	5,428.67	5,266.52	162.14	33.481	
9,200.00	7,152.46	7,139.46	7,139.46	119.86	123.64	165.54	257.55	-99.12	5,461.66	5,298.64	163.02	33.503	
9,250.00	7,190.04	7,177.04	7,177.04	120.57	124.29	156.11	257.55	-99.12	5,493.55	5,329.65	163.89	33.519	
9,300.00	7,227.59	7,214.59	7,214.59	121.25	124.95	147.09	257.55	-99.12	5,524.10	5,359.34	164.76	33.528	
9,350.00	7,264.83	7,251.83	7,251.83	121.89	125.60	138.63	257.55	-99.12	5,553.12	5,387.50	165.62	33.530	
9,400.00	7,301.48	7,288.48	7,288.48	122.48	126.24	130.84	257.55	-99.12	5,580.41	5,413.96	166.45	33.527	
9,450.00	7,337.26	7,324.26	7,324.26	123.01	126.86	123.78	257.55	-99.12	5,605.81	5,438.56	167.25	33.517	
9,500.00	7,371.90	7,358.90	7,358.90	123.49	127.47	117.48	257.55	-99.12	5,629.17	5,461.15	168.02	33.503	
9,550.00	7,405.13	7,407.87	7,392.13	123.91	128.32	111.95	257.55	-99.12	5,650.36	5,481.33	169.03	33.428	
9,600.00	7,436.70	7,423.70	7,423.70	124.27	128.60	107.14	257.55	-99.12	5,669.28	5,499.84	169.45	33.458	
9,650.00	7,466.36	7,453.36	7,453.36	124.57	129.12	103.02	257.55	-99.12	5,685.83	5,515.74	170.09	33.428	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,700.00	7,493.91	7,480.91	7,480.91	124.81	129.60	99.54	257.55	-99.12	5,699.95	5,529.25	170.69	33.393	
9,750.00	7,519.11	7,506.11	7,506.11	125.00	130.04	96.64	257.55	-99.12	5,711.56	5,540.32	171.25	33.353	
9,800.00	7,541.79	7,528.79	7,528.79	125.12	130.43	94.28	257.55	-99.12	5,720.64	5,548.89	171.75	33.308	
9,850.00	7,561.77	7,548.77	7,548.77	125.20	130.78	92.41	257.55	-99.12	5,727.15	5,554.95	172.20	33.259	
9,900.00	7,578.90	7,565.90	7,565.90	125.23	131.08	91.00	257.55	-99.12	5,731.09	5,558.49	172.60	33.204	
9,950.00	7,593.04	7,580.04	7,580.04	125.22	131.33	90.02	257.55	-99.12	5,732.45	5,559.50	172.95	33.144	
10,000.00	7,604.09	7,608.91	7,591.09	125.17	131.83	89.45	257.55	-99.12	5,731.26	5,557.69	173.57	33.020	
10,050.00	7,611.97	7,601.03	7,598.97	125.08	131.69	89.27	257.55	-99.12	5,727.53	5,553.97	173.55	33.001	
10,100.00	7,616.61	7,603.61	7,603.61	124.97	131.74	89.48	257.55	-99.12	5,721.30	5,547.56	173.73	32.932	
10,145.95	7,618.00	7,605.00	7,605.00	124.84	131.76	90.00	257.55	-99.12	5,713.41	5,539.52	173.89	32.856	
10,200.00	7,618.00	7,605.00	7,605.00	124.69	131.76	90.00	257.55	-99.12	5,703.18	5,529.11	174.07	32.764	
10,300.00	7,618.00	7,605.00	7,605.00	124.41	131.76	90.00	257.55	-99.12	5,685.55	5,511.12	174.43	32.595	
10,400.00	7,618.00	7,605.00	7,605.00	124.14	131.76	90.00	257.55	-99.12	5,669.64	5,494.79	174.85	32.426	
10,500.00	7,618.00	7,605.00	7,605.00	123.88	131.76	90.00	257.55	-99.12	5,655.45	5,480.13	175.32	32.259	
10,600.00	7,618.00	7,605.00	7,605.00	123.63	131.76	90.00	257.55	-99.12	5,642.99	5,467.16	175.84	32.092	
10,700.00	7,618.00	7,605.00	7,605.00	123.40	131.76	90.00	257.55	-99.12	5,632.28	5,455.88	176.40	31.928	
10,800.00	7,618.00	7,605.00	7,605.00	123.18	131.76	90.00	257.55	-99.12	5,623.34	5,446.32	177.02	31.767	
10,900.00	7,618.00	7,605.00	7,605.00	122.96	131.76	90.00	257.55	-99.12	5,616.16	5,438.48	177.67	31.609	
11,000.00	7,618.00	7,605.00	7,605.00	122.76	131.76	90.00	257.55	-99.12	5,610.75	5,432.38	178.37	31.455	
11,100.00	7,618.00	7,605.00	7,605.00	122.57	131.76	90.00	257.55	-99.12	5,607.12	5,428.01	179.11	31.306	
11,200.00	7,618.00	7,605.00	7,605.00	122.39	131.76	90.00	257.55	-99.12	5,605.27	5,425.39	179.88	31.162	
11,253.59	7,618.00	7,605.00	7,605.00	122.30	131.76	90.00	257.55	-99.12	5,605.01	5,424.70	180.31	31.085	
11,300.00	7,618.00	7,605.00	7,605.00	122.23	131.76	90.00	257.55	-99.12	5,605.21	5,424.52	180.68	31.023	
11,400.00	7,618.00	7,605.00	7,605.00	122.07	131.76	90.00	257.55	-99.12	5,606.92	5,425.41	181.51	30.890	
11,500.00	7,618.00	7,605.00	7,605.00	121.93	131.76	90.00	257.55	-99.12	5,610.43	5,428.06	182.37	30.764	
11,600.00	7,618.00	7,605.00	7,605.00	121.79	131.76	90.00	257.55	-99.12	5,615.71	5,432.46	183.25	30.645	
11,700.00	7,618.00	7,605.00	7,605.00	121.67	131.76	90.00	257.55	-99.12	5,622.76	5,438.61	184.15	30.534	
11,800.00	7,618.00	7,605.00	7,605.00	121.56	131.76	90.00	257.55	-99.12	5,631.58	5,446.52	185.07	30.430	
11,900.00	7,618.00	7,605.00	7,605.00	121.46	131.76	90.00	257.55	-99.12	5,642.16	5,456.17	186.00	30.334	
12,000.00	7,618.00	7,605.00	7,605.00	121.38	131.76	90.00	257.55	-99.12	5,654.49	5,467.55	186.94	30.247	
12,100.00	7,618.00	7,605.00	7,605.00	121.30	131.76	90.00	257.55	-99.12	5,668.56	5,480.67	187.89	30.169	
12,200.00	7,618.00	7,605.00	7,605.00	121.24	131.76	90.00	257.55	-99.12	5,684.35	5,495.50	188.85	30.100	
12,300.00	7,618.00	7,605.00	7,605.00	121.19	131.76	90.00	257.55	-99.12	5,701.85	5,512.04	189.81	30.039	
12,400.00	7,618.00	7,605.00	7,605.00	121.16	131.76	90.00	257.55	-99.12	5,721.05	5,530.27	190.78	29.988	
12,500.00	7,618.00	7,605.00	7,605.00	121.14	131.76	90.00	257.55	-99.12	5,741.93	5,550.19	191.74	29.947	
12,600.00	7,618.00	7,605.00	7,605.00	121.13	131.76	90.00	257.55	-99.12	5,764.46	5,571.76	192.70	29.914	
12,700.00	7,618.00	7,605.00	7,605.00	121.13	131.76	90.00	257.55	-99.12	5,788.63	5,594.98	193.66	29.891	
12,800.00	7,618.00	7,605.00	7,605.00	121.15	131.76	90.00	257.55	-99.12	5,814.43	5,619.82	194.61	29.878	
12,900.00	7,618.00	7,605.00	7,605.00	121.18	131.76	90.00	257.55	-99.12	5,841.82	5,646.27	195.55	29.874	
13,000.00	7,618.00	7,605.00	7,605.00	121.23	131.76	90.00	257.55	-99.12	5,870.79	5,674.30	196.48	29.879	
13,100.00	7,618.00	7,605.00	7,605.00	121.29	131.76	90.00	257.55	-99.12	5,901.31	5,703.90	197.41	29.894	
13,200.00	7,618.00	7,605.00	7,605.00	121.37	131.76	90.00	257.55	-99.12	5,933.35	5,735.04	198.32	29.918	
13,300.00	7,618.00	7,605.00	7,605.00	121.46	131.76	90.00	257.55	-99.12	5,966.91	5,767.69	199.22	29.952	
13,400.00	7,618.00	7,605.00	7,605.00	121.57	131.76	90.00	257.55	-99.12	6,001.94	5,801.83	200.10	29.994	
13,500.00	7,618.00	7,605.00	7,605.00	121.70	131.76	90.00	257.55	-99.12	6,038.42	5,837.45	200.97	30.046	
13,600.00	7,618.00	7,605.00	7,605.00	121.84	131.76	90.00	257.55	-99.12	6,076.33	5,874.50	201.83	30.106	
13,700.00	7,618.00	7,605.00	7,605.00	122.01	131.76	90.00	257.55	-99.12	6,115.64	5,912.97	202.67	30.175	
13,800.00	7,618.00	7,605.00	7,605.00	122.19	131.76	90.00	257.55	-99.12	6,156.33	5,952.83	203.50	30.253	
13,900.00	7,618.00	7,605.00	7,605.00	122.39	131.76	90.00	257.55	-99.12	6,198.36	5,994.05	204.30	30.339	
14,000.00	7,618.00	7,605.00	7,605.00	122.62	131.76	90.00	257.55	-99.12	6,241.71	6,036.61	205.10	30.433	
14,100.00	7,618.00	7,605.00	7,605.00	122.86	131.76	90.00	257.55	-99.12	6,286.35	6,080.48	205.87	30.536	
14,200.00	7,618.00	7,605.00	7,605.00	123.12	131.76	90.00	257.55	-99.12	6,332.26	6,125.63	206.63	30.646	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	7,605.00	7,605.00	123.41	131.76	90.00	257.55	-99.12	6,379.40	6,172.04	207.36	30.764	
14,400.00	7,618.00	7,605.00	7,605.00	123.72	131.76	90.00	257.55	-99.12	6,427.76	6,219.67	208.08	30.890	
14,500.00	7,618.00	7,605.00	7,605.00	124.06	131.76	90.00	257.55	-99.12	6,477.29	6,268.51	208.79	31.023	
14,600.00	7,618.00	7,605.00	7,605.00	124.42	131.76	90.00	257.55	-99.12	6,527.99	6,318.51	209.47	31.164	
14,700.00	7,618.00	7,605.00	7,605.00	124.80	131.76	90.00	257.55	-99.12	6,579.81	6,369.67	210.14	31.311	
14,800.00	7,618.00	7,605.00	7,605.00	125.21	131.76	90.00	257.55	-99.12	6,632.74	6,421.95	210.79	31.466	
14,900.00	7,618.00	7,605.00	7,605.00	125.65	131.76	90.00	257.55	-99.12	6,686.74	6,475.31	211.42	31.627	
15,000.00	7,618.00	7,605.00	7,605.00	126.11	131.76	90.00	257.55	-99.12	6,741.79	6,529.75	212.04	31.795	
15,100.00	7,618.00	7,605.00	7,605.00	126.61	131.76	90.00	257.55	-99.12	6,797.87	6,585.23	212.64	31.969	
15,200.00	7,618.00	7,605.00	7,605.00	127.13	131.76	90.00	257.55	-99.12	6,854.95	6,641.73	213.22	32.150	
15,300.00	7,618.00	7,605.00	7,605.00	127.68	131.76	90.00	257.55	-99.12	6,913.00	6,699.22	213.79	32.336	
15,400.00	7,618.00	7,605.00	7,605.00	128.26	131.76	90.00	257.55	-99.12	6,972.01	6,757.67	214.34	32.528	
15,500.00	7,618.00	7,605.00	7,605.00	128.87	131.76	90.00	257.55	-99.12	7,031.94	6,817.07	214.87	32.727	
15,600.00	7,618.00	7,605.00	7,605.00	129.51	131.76	90.00	257.55	-99.12	7,092.77	6,877.39	215.39	32.930	
15,700.00	7,618.00	7,605.00	7,605.00	130.18	131.76	90.00	257.55	-99.12	7,154.49	6,938.60	215.89	33.140	
15,800.00	7,618.00	7,605.00	7,605.00	130.88	131.76	90.00	257.55	-99.12	7,217.06	7,000.69	216.38	33.354	
15,900.00	7,618.00	7,605.00	7,605.00	131.61	131.76	90.00	257.55	-99.12	7,280.47	7,063.62	216.85	33.574	
16,000.00	7,618.00	7,605.00	7,605.00	132.37	131.76	90.00	257.55	-99.12	7,344.70	7,127.39	217.31	33.798	
16,100.00	7,618.00	7,605.00	7,605.00	133.17	131.76	90.00	257.55	-99.12	7,409.71	7,191.96	217.75	34.028	
16,200.00	7,618.00	7,605.00	7,605.00	133.99	131.76	90.00	257.55	-99.12	7,475.50	7,257.32	218.19	34.262	
16,300.00	7,618.00	7,605.00	7,605.00	134.84	131.76	90.00	257.55	-99.12	7,542.04	7,323.44	218.60	34.501	
16,400.00	7,618.00	7,605.00	7,605.00	135.72	131.76	90.00	257.55	-99.12	7,609.32	7,390.31	219.01	34.744	
16,500.00	7,618.00	7,605.00	7,605.00	136.63	131.76	90.00	257.55	-99.12	7,677.30	7,457.90	219.40	34.992	
16,600.00	7,618.00	7,605.00	7,605.00	137.57	131.76	90.00	257.55	-99.12	7,745.98	7,526.20	219.78	35.244	
16,700.00	7,618.00	7,605.00	7,605.00	138.54	131.76	90.00	257.55	-99.12	7,815.34	7,595.19	220.15	35.500	
16,800.00	7,618.00	7,605.00	7,605.00	139.53	131.76	90.00	257.55	-99.12	7,885.36	7,664.85	220.51	35.760	
16,900.00	7,618.00	7,605.00	7,605.00	140.55	131.76	90.00	257.55	-99.12	7,956.01	7,735.15	220.86	36.023	
17,000.00	7,618.00	7,605.00	7,605.00	141.60	131.76	90.00	257.55	-99.12	8,027.29	7,806.10	221.19	36.291	
17,100.00	7,618.00	7,605.00	7,605.00	142.67	131.76	90.00	257.55	-99.12	8,099.18	7,877.66	221.52	36.562	
17,200.00	7,618.00	7,605.00	7,605.00	143.77	131.76	90.00	257.55	-99.12	8,171.66	7,949.82	221.83	36.837	
17,300.00	7,618.00	7,605.00	7,605.00	144.88	131.76	90.00	257.55	-99.12	8,244.71	8,022.57	222.14	37.115	
17,400.00	7,618.00	7,605.00	7,605.00	146.02	131.76	90.00	257.55	-99.12	8,318.32	8,095.89	222.44	37.396	
17,500.00	7,618.00	7,605.00	7,605.00	147.19	131.76	90.00	257.55	-99.12	8,392.49	8,169.76	222.72	37.681	
17,600.00	7,618.00	7,605.00	7,605.00	148.37	131.76	90.00	257.55	-99.12	8,467.18	8,244.18	223.00	37.969	
17,700.00	7,618.00	7,605.00	7,605.00	149.57	131.76	90.00	257.55	-99.12	8,542.39	8,319.11	223.27	38.260	
17,800.00	7,618.00	7,605.00	7,605.00	150.79	131.76	90.00	257.55	-99.12	8,618.10	8,394.57	223.53	38.554	
17,900.00	7,618.00	7,605.00	7,605.00	152.03	131.76	90.00	257.55	-99.12	8,694.30	8,470.52	223.79	38.851	
18,000.00	7,618.00	7,605.00	7,605.00	153.29	131.76	90.00	257.55	-99.12	8,770.99	8,546.95	224.03	39.150	
18,100.00	7,618.00	7,605.00	7,605.00	154.57	131.76	90.00	257.55	-99.12	8,848.14	8,623.86	224.27	39.453	
18,200.00	7,618.00	7,605.00	7,605.00	155.86	131.76	90.00	257.55	-99.12	8,925.74	8,701.23	224.50	39.758	
18,300.00	7,618.00	7,605.00	7,605.00	157.17	131.76	90.00	257.55	-99.12	9,003.78	8,779.05	224.73	40.065	
18,400.00	7,618.00	7,605.00	7,605.00	158.49	131.76	90.00	257.55	-99.12	9,082.25	8,857.31	224.95	40.375	
18,500.00	7,618.00	7,605.00	7,605.00	159.82	131.76	90.00	257.55	-99.12	9,161.15	8,935.99	225.16	40.688	
18,600.00	7,618.00	7,605.00	7,605.00	161.17	131.76	90.00	257.55	-99.12	9,240.45	9,015.09	225.36	41.003	
18,700.00	7,618.00	7,605.00	7,605.00	162.54	131.76	90.00	257.55	-99.12	9,320.15	9,094.59	225.56	41.320	
18,800.00	7,618.00	7,605.00	7,605.00	163.91	131.76	90.00	257.55	-99.12	9,400.24	9,174.48	225.75	41.639	
18,900.00	7,618.00	7,605.00	7,605.00	165.30	131.76	90.00	257.55	-99.12	9,480.70	9,254.76	225.94	41.961	
19,000.00	7,618.00	7,605.00	7,605.00	166.70	131.76	90.00	257.55	-99.12	9,561.54	9,335.42	226.12	42.285	
19,100.00	7,618.00	7,605.00	7,605.00	168.10	131.76	90.00	257.55	-99.12	9,642.73	9,416.43	226.30	42.610	
19,200.00	7,618.00	7,605.00	7,605.00	169.52	131.76	90.00	257.55	-99.12	9,724.28	9,497.81	226.47	42.938	
19,300.00	7,618.00	7,605.00	7,605.00	170.95	131.76	90.00	257.55	-99.12	9,806.17	9,579.53	226.64	43.268	
19,400.00	7,618.00	7,605.00	7,605.00	172.39	131.76	90.00	257.55	-99.12	9,888.39	9,661.58	226.80	43.599	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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

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
19,500.00	7,618.00	7,605.00	7,605.00	173.84	131.76	90.00	257.55	-99.12	9,970.93	9,743.97	226.96	43.933	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	2.00	2.00	0.00	0.00	-89.62	0.73	-109.76	109.76				
100.00	100.00	102.00	102.00	0.13	0.14	-89.62	0.73	-109.76	109.76	109.49	0.28	397.660	
200.00	200.00	202.00	202.00	0.49	0.50	-89.62	0.73	-109.76	109.76	108.77	0.99	110.541	CC, ES
300.00	299.98	301.98	301.98	0.85	0.86	-159.25	0.73	-109.76	111.39	109.69	1.71	65.274	
400.00	399.84	401.84	401.84	1.21	1.22	-160.13	0.73	-109.76	116.30	113.88	2.42	47.971	
500.00	499.45	501.45	501.45	1.58	1.57	-161.44	0.73	-109.76	124.54	121.39	3.15	39.585	
600.00	598.70	600.70	600.70	1.97	1.93	-163.00	0.73	-109.76	136.15	132.28	3.87	35.180	
700.00	697.47	700.53	699.47	2.38	2.29	-164.65	0.73	-109.76	151.19	146.59	4.60	32.869	
800.00	795.62	802.38	797.62	2.83	2.65	-166.27	0.73	-109.76	169.68	164.34	5.34	31.775	
900.00	893.06	904.94	895.06	3.31	3.02	-167.77	0.73	-109.76	191.63	185.54	6.09	31.485	
1,000.00	989.64	1,008.36	991.64	3.83	3.39	-169.11	0.73	-109.76	217.02	210.18	6.84	31.732	
1,100.00	1,085.27	1,087.27	1,087.27	4.40	3.67	-170.30	0.73	-109.76	245.83	238.32	7.51	32.743	
1,200.00	1,179.82	1,181.82	1,181.82	5.02	4.01	-171.33	0.73	-109.76	278.01	269.77	8.24	33.755	
1,300.00	1,273.17	1,275.17	1,275.17	5.70	4.35	-172.21	0.73	-109.76	313.52	304.56	8.96	34.976	
1,400.00	1,365.21	1,374.95	1,374.94	6.43	4.70	-172.94	1.45	-109.09	351.58	341.85	9.73	36.148	
1,500.00	1,455.84	1,478.44	1,478.33	7.23	5.07	-173.31	4.80	-105.98	390.19	379.68	10.51	37.124	
1,600.00	1,544.94	1,583.17	1,582.71	8.09	5.45	-173.36	10.96	-100.23	429.17	417.86	11.31	37.957	
1,700.00	1,632.39	1,689.13	1,687.93	9.01	5.83	-173.17	20.04	-91.78	468.49	456.37	12.12	38.659	
1,800.00	1,718.11	1,796.33	1,793.85	10.00	6.23	-172.79	32.12	-80.54	508.11	495.16	12.95	39.243	
1,900.00	1,801.97	1,904.77	1,900.28	11.07	6.65	-172.25	47.28	-66.43	548.02	534.22	13.80	39.713	
2,000.00	1,883.88	2,014.45	2,007.06	12.20	7.10	-171.58	65.61	-49.38	588.19	573.52	14.68	40.073	
2,100.00	1,963.74	2,125.37	2,114.00	13.41	7.60	-170.80	87.16	-29.32	628.63	613.04	15.59	40.310	
2,200.00	2,041.45	2,237.53	2,220.88	14.69	8.13	-169.92	112.03	-6.18	669.32	652.77	16.55	40.435	
2,300.00	2,116.92	2,350.93	2,327.51	16.05	8.72	-168.95	140.26	20.10	710.26	692.69	17.56	40.437	
2,357.48	2,159.25	2,416.67	2,388.61	16.86	9.09	-168.36	158.04	36.64	733.90	715.72	18.17	40.381	
2,400.00	2,190.27	2,465.71	2,433.81	17.47	9.37	-167.98	171.96	49.60	751.15	732.51	18.64	40.295	
2,500.00	2,263.22	2,583.03	2,540.56	18.92	10.10	-167.00	207.55	82.73	789.67	769.87	19.79	39.893	
2,600.00	2,336.18	2,673.26	2,622.03	20.37	10.70	-166.26	235.96	109.17	827.02	806.12	20.90	39.569	
2,700.00	2,409.14	2,765.48	2,705.28	21.84	11.33	-165.56	265.01	136.20	864.48	842.43	22.04	39.215	
2,800.00	2,482.09	2,857.70	2,788.53	23.31	11.97	-164.92	294.05	163.23	902.04	878.82	23.22	38.852	
2,900.00	2,555.05	2,949.93	2,871.78	24.78	12.63	-164.33	323.09	190.26	939.69	915.28	24.42	38.487	
3,000.00	2,628.01	3,042.15	2,955.03	26.27	13.31	-163.79	352.14	217.29	977.42	951.79	25.64	38.124	
3,100.00	2,700.96	3,134.37	3,038.28	27.75	13.99	-163.28	381.18	244.32	1,015.23	988.34	26.88	37.767	
3,200.00	2,773.92	3,226.59	3,121.53	29.24	14.68	-162.81	410.23	271.35	1,053.09	1,024.95	28.14	37.419	
3,300.00	2,846.88	3,318.81	3,204.78	30.73	15.38	-162.38	439.27	298.38	1,091.01	1,061.59	29.42	37.082	
3,400.00	2,919.83	3,411.03	3,288.03	32.23	16.08	-161.97	468.31	325.41	1,128.98	1,098.27	30.72	36.755	
3,500.00	2,992.79	3,503.25	3,371.28	33.72	16.79	-161.59	497.36	352.44	1,167.00	1,134.98	32.02	36.441	
3,600.00	3,065.75	3,595.47	3,454.53	35.22	17.50	-161.24	526.40	379.47	1,205.06	1,171.71	33.35	36.138	
3,700.00	3,138.71	3,687.69	3,537.78	36.72	18.22	-160.90	555.44	406.50	1,243.16	1,208.48	34.68	35.848	
3,800.00	3,211.66	3,779.91	3,621.03	38.22	18.95	-160.59	584.49	433.53	1,281.29	1,245.27	36.02	35.570	
3,900.00	3,284.62	3,872.13	3,704.28	39.72	19.67	-160.29	613.53	460.56	1,319.45	1,282.08	37.37	35.303	
4,000.00	3,357.58	3,964.35	3,787.52	41.22	20.40	-160.01	642.57	487.59	1,357.64	1,318.91	38.74	35.049	
4,100.00	3,430.53	4,056.58	3,870.77	42.73	21.13	-159.74	671.62	514.62	1,395.86	1,355.75	40.11	34.805	
4,200.00	3,503.49	4,148.80	3,954.02	44.23	21.87	-159.49	700.66	541.65	1,434.10	1,392.62	41.48	34.572	
4,300.00	3,576.45	4,241.02	4,037.27	45.74	22.61	-159.26	729.70	568.68	1,472.37	1,429.50	42.87	34.349	
4,400.00	3,649.40	4,333.24	4,120.52	47.25	23.35	-159.03	758.75	595.71	1,510.65	1,466.40	44.25	34.135	
4,500.00	3,722.36	4,425.46	4,203.77	48.75	24.09	-158.81	787.79	622.74	1,548.95	1,503.30	45.65	33.931	
4,600.00	3,795.32	4,517.68	4,287.02	50.26	24.83	-158.61	816.84	649.77	1,587.28	1,540.23	47.05	33.736	
4,700.00	3,868.27	4,609.90	4,370.27	51.77	25.57	-158.42	845.88	676.80	1,625.61	1,577.16	48.46	33.548	
4,800.00	3,941.23	4,702.12	4,453.52	53.28	26.32	-158.23	874.92	703.83	1,663.97	1,614.10	49.87	33.369	
4,900.00	4,014.19	4,805.66	4,536.77	54.79	27.16	-158.05	903.97	730.86	1,702.34	1,650.98	51.35	33.149	
5,000.00	4,087.15	4,886.56	4,620.02	56.30	27.81	-157.88	933.01	757.89	1,740.72	1,688.02	52.70	33.032	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	4,978.78	4,703.27	57.81	28.56	-157.72	962.05	784.92	1,779.11	1,724.99	54.12	32.873	
5,200.00	4,233.06	5,071.00	4,786.52	59.32	29.31	-157.56	991.10	811.95	1,817.52	1,761.97	55.55	32.721	
5,300.00	4,306.02	5,163.23	4,869.77	60.83	30.07	-157.42	1,020.14	838.98	1,855.93	1,798.96	56.97	32.575	
5,400.00	4,378.97	5,255.45	4,953.02	62.34	30.82	-157.27	1,049.18	866.01	1,894.36	1,835.95	58.41	32.434	
5,500.00	4,451.93	5,347.67	5,036.27	63.85	31.57	-157.14	1,078.23	893.04	1,932.79	1,872.95	59.84	32.299	
5,600.00	4,524.89	5,439.89	5,119.52	65.36	32.32	-157.00	1,107.27	920.07	1,971.24	1,909.96	61.28	32.169	
5,700.00	4,597.84	5,532.11	5,202.77	66.88	33.08	-156.88	1,136.31	947.10	2,009.69	1,946.98	62.72	32.044	
5,800.00	4,670.80	5,624.33	5,286.02	68.39	33.83	-156.75	1,165.36	974.13	2,048.16	1,984.00	64.16	31.923	
5,900.00	4,743.76	5,716.55	5,369.27	69.90	34.59	-156.64	1,194.40	1,001.16	2,086.63	2,021.02	65.60	31.807	
6,000.00	4,816.71	5,808.77	5,452.52	71.41	35.34	-156.52	1,223.45	1,028.19	2,125.10	2,058.05	67.05	31.695	
6,100.00	4,889.67	5,900.99	5,535.77	72.93	36.10	-156.41	1,252.49	1,055.22	2,163.59	2,095.09	68.50	31.587	
6,200.00	4,962.63	5,993.21	5,619.02	74.44	36.86	-156.31	1,281.53	1,082.25	2,202.08	2,132.13	69.95	31.482	
6,300.00	5,035.59	6,085.43	5,702.27	75.95	37.62	-156.21	1,310.58	1,109.28	2,240.57	2,169.17	71.40	31.381	
6,400.00	5,108.54	6,177.65	5,785.52	77.47	38.37	-156.11	1,339.62	1,136.31	2,279.08	2,206.22	72.85	31.284	
6,500.00	5,181.50	6,269.88	5,868.77	78.98	39.13	-156.01	1,368.66	1,163.34	2,317.58	2,243.28	74.31	31.190	
6,600.00	5,254.46	6,362.10	5,952.02	80.49	39.89	-155.92	1,397.71	1,190.37	2,356.10	2,280.33	75.76	31.098	
6,700.00	5,327.41	6,454.32	6,035.27	82.01	40.65	-155.83	1,426.75	1,217.40	2,394.61	2,317.39	77.22	31.010	
6,800.00	5,400.37	6,546.54	6,118.52	83.52	41.41	-155.74	1,455.79	1,244.43	2,433.14	2,354.46	78.68	30.924	
6,900.00	5,473.33	6,638.76	6,201.77	85.04	42.17	-155.66	1,484.84	1,271.46	2,471.67	2,391.52	80.14	30.842	
7,000.00	5,546.28	6,730.98	6,285.02	86.55	42.93	-155.58	1,513.88	1,298.49	2,510.20	2,428.59	81.60	30.761	
7,100.00	5,619.24	6,823.20	6,368.27	88.06	43.69	-155.50	1,542.92	1,325.52	2,548.73	2,465.67	83.07	30.683	
7,200.00	5,692.20	6,915.42	6,451.52	89.58	44.45	-155.42	1,571.97	1,352.55	2,587.27	2,502.74	84.53	30.608	
7,300.00	5,765.15	7,007.64	6,534.77	91.09	45.21	-155.35	1,601.01	1,379.58	2,625.82	2,539.82	85.99	30.535	
7,400.00	5,838.11	7,099.86	6,618.02	92.61	45.97	-155.28	1,630.06	1,406.61	2,664.36	2,576.90	87.46	30.463	
7,500.00	5,911.07	7,207.92	6,701.27	94.12	46.87	-155.21	1,659.10	1,433.64	2,702.92	2,613.88	89.04	30.358	
7,600.00	5,984.03	7,284.30	6,784.52	95.64	47.50	-155.14	1,688.14	1,460.67	2,741.47	2,651.07	90.40	30.327	
7,700.00	6,056.98	7,376.52	6,867.77	97.15	48.26	-155.07	1,717.19	1,487.70	2,780.03	2,688.16	91.87	30.262	
7,800.00	6,129.94	7,468.75	6,951.02	98.67	49.02	-155.01	1,746.23	1,514.73	2,818.59	2,725.25	93.34	30.198	
7,900.00	6,202.90	7,560.97	7,034.27	100.18	49.78	-154.95	1,775.27	1,541.76	2,857.15	2,762.35	94.81	30.137	
8,000.00	6,275.85	7,653.19	7,117.52	101.70	50.55	-154.89	1,804.32	1,568.79	2,895.72	2,799.44	96.28	30.077	
8,100.00	6,348.81	7,767.80	7,222.29	103.21	51.44	-154.92	1,835.60	1,602.78	2,934.08	2,836.22	97.86	29.981	
8,200.00	6,421.77	7,893.83	7,341.57	104.73	52.17	-155.47	1,845.44	1,641.41	2,971.43	2,872.79	98.64	30.125	
8,300.00	6,494.72	8,005.05	7,446.37	106.24	52.54	-156.38	1,831.17	1,675.26	3,008.15	2,909.67	98.48	30.547	
8,400.00	6,567.68	8,097.29	7,529.98	107.76	52.66	-157.41	1,803.39	1,702.21	3,044.97	2,947.15	97.83	31.126	
8,500.00	6,640.64	8,171.40	7,593.42	109.27	52.65	-158.40	1,771.08	1,722.63	3,082.62	2,985.61	97.02	31.774	
8,600.00	6,713.59	8,230.41	7,640.77	110.79	52.58	-159.27	1,739.36	1,737.84	3,121.63	3,025.41	96.22	32.444	
8,700.00	6,786.55	8,277.58	7,676.23	112.30	52.49	-160.02	1,710.44	1,749.21	3,162.33	3,066.85	95.48	33.121	
8,800.00	6,859.51	8,315.66	7,703.14	113.82	52.39	-160.65	1,684.91	1,757.83	3,204.93	3,110.12	94.81	33.802	
8,900.00	6,932.46	8,350.00	7,725.97	115.33	52.29	-161.24	1,660.33	1,765.13	3,249.56	3,155.41	94.14	34.517	
9,000.00	7,005.42	8,372.59	7,740.21	116.85	52.22	-161.64	1,643.40	1,769.68	3,296.24	3,202.59	93.64	35.199	
9,104.89	7,081.95	8,400.00	7,756.62	118.44	52.12	-162.13	1,622.08	1,774.92	3,347.43	3,254.44	92.99	35.997	
9,150.00	7,115.15	8,400.00	7,756.62	119.12	52.12	-169.54	1,622.08	1,774.92	3,370.16	3,277.21	92.96	36.256	
9,200.00	7,152.46	8,416.18	7,765.85	119.86	52.05	-178.34	1,609.12	1,777.86	3,395.79	3,303.18	92.61	36.667	
9,250.00	7,190.04	8,428.80	7,772.80	120.57	52.00	172.76	1,598.82	1,780.07	3,421.64	3,329.27	92.38	37.040	
9,300.00	7,227.59	8,450.00	7,783.98	121.25	51.92	163.79	1,581.17	1,783.63	3,447.51	3,355.52	91.99	37.477	
9,350.00	7,264.83	8,450.00	7,783.98	121.89	51.92	155.35	1,581.17	1,783.63	3,473.12	3,381.04	92.08	37.718	
9,400.00	7,301.48	8,471.76	7,794.81	122.48	51.82	147.04	1,562.62	1,787.07	3,498.27	3,406.53	91.74	38.134	
9,450.00	7,337.26	8,487.46	7,802.21	123.01	51.75	139.35	1,548.96	1,789.41	3,522.77	3,431.22	91.55	38.479	
9,500.00	7,371.90	8,500.00	7,807.85	123.49	51.70	132.32	1,537.91	1,791.20	3,546.42	3,454.96	91.47	38.773	
9,550.00	7,405.13	8,520.50	7,816.58	123.91	51.60	125.88	1,519.58	1,793.97	3,569.02	3,477.78	91.24	39.118	
9,600.00	7,436.70	8,550.00	7,828.05	124.27	51.45	120.05	1,492.63	1,797.58	3,590.44	3,499.61	90.83	39.528	
9,650.00	7,466.36	8,550.00	7,828.05	124.57	51.45	115.10	1,492.63	1,797.58	3,610.39	3,519.25	91.14	39.615	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,700.00	7,493.91	8,573.28	7,836.15	124.81	51.33	110.63	1,470.96	1,800.13	3,628.83	3,537.88	90.94	39.902	
9,750.00	7,519.11	8,600.00	7,844.41	125.00	51.20	106.76	1,445.68	1,802.72	3,645.62	3,554.92	90.71	40.192	
9,800.00	7,541.79	8,600.00	7,844.41	125.12	51.20	103.55	1,445.68	1,802.72	3,660.61	3,569.46	91.15	40.162	
9,850.00	7,561.77	8,628.84	7,852.06	125.20	51.04	100.76	1,417.99	1,805.09	3,673.64	3,582.70	90.94	40.397	
9,900.00	7,578.90	8,650.00	7,856.82	125.23	50.93	98.50	1,397.42	1,806.57	3,684.71	3,593.75	90.96	40.510	
9,950.00	7,593.04	8,666.89	7,860.10	125.22	50.83	96.72	1,380.89	1,807.57	3,693.70	3,602.57	91.13	40.531	
10,000.00	7,604.09	8,686.11	7,863.27	125.17	50.72	95.38	1,361.95	1,808.53	3,700.56	3,609.27	91.29	40.534	
10,050.00	7,611.97	8,700.00	7,865.18	125.08	50.65	94.46	1,348.20	1,809.10	3,705.24	3,613.60	91.64	40.432	
10,100.00	7,616.61	8,724.77	7,867.80	124.97	50.51	93.96	1,323.58	1,809.87	3,707.69	3,615.93	91.75	40.409	
10,145.95	7,618.00	8,750.00	7,869.43	124.84	50.36	93.86	1,298.42	1,810.31	3,707.99	3,616.17	91.83	40.380	
10,200.00	7,618.00	8,763.56	7,869.87	124.69	50.29	93.86	1,284.87	1,810.40	3,707.44	3,615.08	92.36	40.140	
10,233.39	7,618.00	8,776.99	7,870.00	124.59	50.21	93.87	1,271.44	1,810.40	3,707.36	3,614.79	92.57	40.051	
10,300.00	7,618.00	8,843.60	7,870.00	124.41	49.84	93.87	1,204.83	1,810.18	3,707.36	3,615.43	91.93	40.329	
10,400.00	7,618.00	8,943.60	7,870.00	124.14	49.30	93.87	1,104.83	1,809.84	3,707.36	3,616.29	91.07	40.708	
10,500.00	7,618.00	9,043.60	7,870.00	123.88	48.80	93.87	1,004.83	1,809.50	3,707.37	3,617.02	90.35	41.034	
10,600.00	7,618.00	9,143.60	7,870.00	123.63	48.32	93.87	904.83	1,809.16	3,707.37	3,617.61	89.76	41.302	
10,700.00	7,618.00	9,243.60	7,870.00	123.40	47.87	93.87	804.83	1,808.82	3,707.37	3,618.06	89.31	41.510	
10,800.00	7,618.00	9,343.60	7,870.00	123.18	47.45	93.87	704.83	1,808.48	3,707.37	3,618.37	89.00	41.654	
10,900.00	7,618.00	9,443.60	7,870.00	122.96	47.05	93.87	604.83	1,808.14	3,707.38	3,618.54	88.84	41.732	
11,000.00	7,618.00	9,543.60	7,870.00	122.76	46.67	93.87	504.83	1,807.80	3,707.38	3,618.57	88.81	41.744	
11,100.00	7,618.00	9,643.60	7,870.00	122.57	46.32	93.87	404.83	1,807.46	3,707.38	3,618.45	88.93	41.688	
11,200.00	7,618.00	9,743.60	7,870.00	122.39	46.00	93.87	304.83	1,807.12	3,707.39	3,618.19	89.19	41.567	
11,300.00	7,618.00	9,843.60	7,870.00	122.23	45.69	93.87	204.83	1,806.78	3,707.39	3,617.80	89.59	41.381	
11,400.00	7,618.00	9,943.60	7,870.00	122.07	45.41	93.87	104.84	1,806.44	3,707.39	3,617.26	90.13	41.133	
11,500.00	7,618.00	10,043.60	7,870.00	121.93	45.16	93.87	4.84	1,806.10	3,707.40	3,616.59	90.81	40.828	
11,600.00	7,618.00	10,143.60	7,870.00	121.79	44.93	93.87	-95.16	1,805.76	3,707.40	3,615.79	91.61	40.468	
11,700.00	7,618.00	10,243.60	7,870.00	121.67	44.74	93.87	-195.16	1,805.42	3,707.40	3,614.85	92.55	40.059	
11,800.00	7,618.00	10,343.60	7,870.00	121.56	44.60	93.87	-295.16	1,805.08	3,707.40	3,613.80	93.61	39.606	
11,900.00	7,618.00	10,443.60	7,870.00	121.46	44.55	93.87	-395.16	1,804.74	3,707.41	3,612.62	94.79	39.113	
12,000.00	7,618.00	10,543.60	7,870.00	121.38	44.64	93.87	-495.16	1,804.40	3,707.41	3,611.33	96.08	38.585	
12,100.00	7,618.00	10,643.60	7,870.00	121.30	45.01	93.87	-595.16	1,804.06	3,707.41	3,609.92	97.49	38.029	
12,200.00	7,618.00	10,743.60	7,870.00	121.24	45.67	93.87	-695.16	1,803.72	3,707.42	3,608.42	99.00	37.448	
12,300.00	7,618.00	10,843.60	7,870.00	121.19	46.54	93.87	-795.16	1,803.38	3,707.42	3,606.81	100.61	36.848	
12,400.00	7,618.00	10,943.60	7,870.00	121.16	47.53	93.87	-895.16	1,803.04	3,707.42	3,605.10	102.32	36.233	
12,500.00	7,618.00	11,043.60	7,870.00	121.14	48.60	93.87	-995.16	1,802.70	3,707.43	3,603.30	104.12	35.607	
12,600.00	7,618.00	11,143.60	7,870.00	121.13	49.72	93.87	-1,095.16	1,802.36	3,707.43	3,601.42	106.01	34.973	
12,700.00	7,618.00	11,243.60	7,870.00	121.13	50.88	93.87	-1,195.16	1,802.02	3,707.43	3,599.46	107.98	34.336	
12,800.00	7,618.00	11,343.60	7,870.00	121.15	52.07	93.87	-1,295.16	1,801.68	3,707.44	3,597.42	110.02	33.698	
12,900.00	7,618.00	11,443.60	7,870.00	121.18	53.30	93.87	-1,395.16	1,801.34	3,707.44	3,595.30	112.14	33.061	
13,000.00	7,618.00	11,543.60	7,870.00	121.23	54.55	93.87	-1,495.16	1,801.00	3,707.44	3,593.12	114.32	32.429	
13,100.00	7,618.00	11,643.60	7,870.00	121.29	55.83	93.87	-1,595.15	1,800.66	3,707.44	3,590.87	116.58	31.803	
13,200.00	7,618.00	11,743.60	7,870.00	121.37	57.13	93.87	-1,695.15	1,800.32	3,707.45	3,588.56	118.89	31.184	
13,300.00	7,618.00	11,843.60	7,870.00	121.46	58.46	93.87	-1,795.15	1,799.98	3,707.45	3,586.19	121.26	30.574	
13,400.00	7,618.00	11,943.60	7,870.00	121.57	59.80	93.87	-1,895.15	1,799.64	3,707.45	3,583.77	123.69	29.975	
13,500.00	7,618.00	12,043.60	7,870.00	121.70	61.16	93.87	-1,995.15	1,799.30	3,707.46	3,581.29	126.16	29.386	
13,600.00	7,618.00	12,143.60	7,870.00	121.84	62.55	93.87	-2,095.15	1,798.96	3,707.46	3,578.77	128.69	28.809	
13,700.00	7,618.00	12,243.60	7,870.00	122.01	63.94	93.87	-2,195.15	1,798.62	3,707.46	3,576.20	131.26	28.245	
13,800.00	7,618.00	12,343.60	7,870.00	122.19	65.36	93.87	-2,295.15	1,798.28	3,707.47	3,573.59	133.87	27.694	
13,900.00	7,618.00	12,443.60	7,870.00	122.39	66.78	93.87	-2,395.15	1,797.94	3,707.47	3,570.94	136.53	27.155	
14,000.00	7,618.00	12,543.60	7,870.00	122.62	68.23	93.87	-2,495.15	1,797.60	3,707.47	3,568.25	139.22	26.630	
14,100.00	7,618.00	12,643.60	7,870.00	122.86	69.68	93.87	-2,595.15	1,797.26	3,707.48	3,565.52	141.95	26.118	
14,200.00	7,618.00	12,743.60	7,870.00	123.12	71.15	93.87	-2,695.15	1,796.92	3,707.48	3,562.76	144.72	25.619	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	12,843.60	7,870.00	123.41	72.63	93.87	-2,795.15	1,796.58	3,707.48	3,559.97	147.51	25.133	
14,400.00	7,618.00	12,943.60	7,870.00	123.72	74.12	93.87	-2,895.15	1,796.24	3,707.48	3,557.15	150.34	24.661	
14,500.00	7,618.00	13,043.60	7,870.00	124.06	75.62	93.87	-2,995.15	1,795.90	3,707.49	3,554.29	153.19	24.201	
14,600.00	7,618.00	13,143.60	7,870.00	124.42	77.13	93.87	-3,095.15	1,795.56	3,707.49	3,551.42	156.08	23.754	
14,700.00	7,618.00	13,243.60	7,870.00	124.80	78.65	93.87	-3,195.15	1,795.22	3,707.49	3,548.51	158.98	23.320	
14,800.00	7,618.00	13,343.60	7,870.00	125.21	80.18	93.87	-3,295.15	1,794.88	3,707.50	3,545.58	161.92	22.898	
14,900.00	7,618.00	13,443.60	7,870.00	125.65	81.72	93.87	-3,395.14	1,794.54	3,707.50	3,542.63	164.87	22.487	
15,000.00	7,618.00	13,543.60	7,870.00	126.11	83.26	93.87	-3,495.14	1,794.20	3,707.50	3,539.65	167.85	22.088	
15,100.00	7,618.00	13,643.60	7,870.00	126.61	84.82	93.87	-3,595.14	1,793.86	3,707.51	3,536.66	170.85	21.701	
15,200.00	7,618.00	13,743.60	7,870.00	127.13	86.38	93.87	-3,695.14	1,793.52	3,707.51	3,533.64	173.87	21.324	
15,300.00	7,618.00	13,843.60	7,870.00	127.68	87.95	93.87	-3,795.14	1,793.18	3,707.51	3,530.61	176.90	20.958	
15,400.00	7,618.00	13,943.60	7,870.00	128.26	89.52	93.87	-3,895.14	1,792.84	3,707.51	3,527.56	179.96	20.602	
15,500.00	7,618.00	14,043.60	7,870.00	128.87	91.10	93.87	-3,995.14	1,792.50	3,707.52	3,524.49	183.03	20.257	
15,600.00	7,618.00	14,143.60	7,870.00	129.51	92.69	93.87	-4,095.14	1,792.16	3,707.52	3,521.41	186.12	19.921	
15,700.00	7,618.00	14,243.60	7,870.00	130.18	94.28	93.87	-4,195.14	1,791.82	3,707.52	3,518.31	189.22	19.594	
15,800.00	7,618.00	14,343.60	7,870.00	130.88	95.88	93.87	-4,295.14	1,791.48	3,707.53	3,515.19	192.34	19.276	
15,900.00	7,618.00	14,443.60	7,870.00	131.61	97.49	93.87	-4,395.14	1,791.14	3,707.53	3,512.06	195.47	18.968	
16,000.00	7,618.00	14,543.60	7,870.00	132.37	99.10	93.87	-4,495.14	1,790.80	3,707.53	3,508.92	198.61	18.667	
16,100.00	7,618.00	14,643.60	7,870.00	133.17	100.71	93.87	-4,595.14	1,790.46	3,707.54	3,505.77	201.77	18.375	
16,200.00	7,618.00	14,743.60	7,870.00	133.99	102.33	93.87	-4,695.14	1,790.12	3,707.54	3,502.60	204.94	18.091	
16,300.00	7,618.00	14,843.60	7,870.00	134.84	103.95	93.87	-4,795.14	1,789.78	3,707.54	3,499.42	208.12	17.815	
16,400.00	7,618.00	14,943.60	7,870.00	135.72	105.58	93.87	-4,895.14	1,789.44	3,707.55	3,496.24	211.31	17.546	
16,500.00	7,618.00	15,043.60	7,870.00	136.63	107.21	93.87	-4,995.14	1,789.10	3,707.55	3,493.04	214.51	17.284	
16,600.00	7,618.00	15,143.60	7,870.00	137.57	108.84	93.87	-5,095.13	1,788.76	3,707.55	3,489.83	217.72	17.029	
16,700.00	7,618.00	15,243.60	7,870.00	138.54	110.48	93.87	-5,195.13	1,788.42	3,707.55	3,486.61	220.94	16.780	
16,800.00	7,618.00	15,343.60	7,870.00	139.53	112.12	93.87	-5,295.13	1,788.08	3,707.56	3,483.38	224.18	16.539	
16,900.00	7,618.00	15,443.60	7,870.00	140.55	113.77	93.87	-5,395.13	1,787.74	3,707.56	3,480.15	227.41	16.303	
17,000.00	7,618.00	15,543.60	7,870.00	141.60	115.42	93.87	-5,495.13	1,787.40	3,707.56	3,476.90	230.66	16.074	
17,100.00	7,618.00	15,643.60	7,870.00	142.67	117.07	93.87	-5,595.13	1,787.06	3,707.57	3,473.65	233.92	15.850	
17,200.00	7,618.00	15,743.60	7,870.00	143.77	118.73	93.87	-5,695.13	1,786.72	3,707.57	3,470.39	237.18	15.632	
17,300.00	7,618.00	15,843.60	7,870.00	144.88	120.38	93.87	-5,795.13	1,786.38	3,707.57	3,467.12	240.45	15.419	
17,400.00	7,618.00	15,943.60	7,870.00	146.02	122.05	93.87	-5,895.13	1,786.04	3,707.58	3,463.84	243.73	15.212	
17,500.00	7,618.00	16,043.60	7,870.00	147.19	123.71	93.87	-5,995.13	1,785.70	3,707.58	3,460.56	247.02	15.009	
17,600.00	7,618.00	16,143.60	7,870.00	148.37	125.38	93.87	-6,095.13	1,785.36	3,707.58	3,457.27	250.31	14.812	
17,700.00	7,618.00	16,243.60	7,870.00	149.57	127.04	93.87	-6,195.13	1,785.02	3,707.59	3,453.98	253.61	14.619	
17,800.00	7,618.00	16,343.60	7,870.00	150.79	128.72	93.87	-6,295.13	1,784.68	3,707.59	3,450.68	256.91	14.431	
17,900.00	7,618.00	16,443.60	7,870.00	152.03	130.39	93.87	-6,395.13	1,784.34	3,707.59	3,447.37	260.22	14.248	
18,000.00	7,618.00	16,543.60	7,870.00	153.29	132.07	93.87	-6,495.13	1,784.00	3,707.59	3,444.06	263.54	14.069	
18,100.00	7,618.00	16,643.60	7,870.00	154.57	133.74	93.87	-6,595.13	1,783.66	3,707.60	3,440.74	266.86	13.894	
18,200.00	7,618.00	16,743.60	7,870.00	155.86	135.42	93.87	-6,695.13	1,783.32	3,707.60	3,437.42	270.18	13.722	
18,300.00	7,618.00	16,843.60	7,870.00	157.17	137.11	93.87	-6,795.13	1,782.98	3,707.60	3,434.09	273.52	13.555	
18,400.00	7,618.00	16,943.60	7,870.00	158.49	138.79	93.87	-6,895.12	1,782.64	3,707.61	3,430.75	276.85	13.392	
18,500.00	7,618.00	17,043.60	7,870.00	159.82	140.48	93.87	-6,995.12	1,782.30	3,707.61	3,427.42	280.19	13.232	
18,600.00	7,618.00	17,143.60	7,870.00	161.17	142.16	93.87	-7,095.12	1,781.96	3,707.61	3,424.07	283.54	13.076	
18,700.00	7,618.00	17,243.60	7,870.00	162.54	143.85	93.87	-7,195.12	1,781.62	3,707.62	3,420.73	286.89	12.924	
18,800.00	7,618.00	17,343.60	7,870.00	163.91	145.55	93.87	-7,295.12	1,781.28	3,707.62	3,417.38	290.24	12.774	
18,900.00	7,618.00	17,443.60	7,870.00	165.30	147.24	93.87	-7,395.12	1,780.94	3,707.62	3,414.02	293.60	12.628	
19,000.00	7,618.00	17,543.60	7,870.00	166.70	148.93	93.87	-7,495.12	1,780.60	3,707.63	3,410.66	296.96	12.485	
19,100.00	7,618.00	17,643.60	7,870.00	168.10	150.63	93.87	-7,595.12	1,780.26	3,707.63	3,407.30	300.33	12.345	
19,200.00	7,618.00	17,743.60	7,870.00	169.52	152.33	93.87	-7,695.12	1,779.92	3,707.63	3,403.93	303.70	12.208	
19,300.00	7,618.00	17,843.60	7,870.00	170.95	154.03	93.87	-7,795.12	1,779.58	3,707.63	3,400.56	307.07	12.074	
19,400.00	7,618.00	17,943.60	7,870.00	172.39	155.73	93.87	-7,895.12	1,779.24	3,707.64	3,397.19	310.45	11.943	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,500.00	7,618.00	18,043.60	7,870.00	173.84	157.43	93.87	-7,995.12	1,778.90	3,707.64	3,393.81	313.83	11.814	
19,600.00	7,618.00	18,143.60	7,870.00	175.30	159.13	93.87	-8,095.12	1,778.56	3,707.64	3,390.43	317.21	11.688	
19,700.00	7,618.00	18,243.60	7,870.00	176.76	160.84	93.87	-8,195.12	1,778.22	3,707.65	3,387.05	320.60	11.565	
19,800.00	7,618.00	18,343.60	7,870.00	178.24	162.54	93.87	-8,295.12	1,777.88	3,707.65	3,383.66	323.99	11.444	
19,896.19	7,618.00	18,439.78	7,870.00	179.66	164.19	93.87	-8,391.30	1,777.55	3,707.65	3,380.40	327.25	11.330	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	2.00	2.00	0.00	0.00	-89.79	0.36	-99.96	99.96				
100.00	100.00	102.00	102.00	0.13	0.14	-89.79	0.36	-99.96	99.96	99.69	0.28	362.149	
200.00	200.00	202.00	202.00	0.49	0.50	-89.79	0.36	-99.96	99.96	98.97	0.99	100.670	CC, ES
300.00	299.98	301.98	301.98	0.85	0.86	-159.45	0.36	-99.96	101.59	99.89	1.71	59.531	
400.00	399.84	401.84	401.84	1.21	1.22	-160.40	0.36	-99.96	106.51	104.09	2.42	43.932	
500.00	499.45	501.45	501.45	1.58	1.57	-161.81	0.36	-99.96	114.76	111.61	3.15	36.477	
600.00	598.70	600.70	600.70	1.97	1.93	-163.47	0.36	-99.96	126.40	122.53	3.87	32.661	
700.00	697.47	700.53	699.47	2.38	2.29	-165.19	0.36	-99.96	141.48	136.88	4.60	30.759	
800.00	795.62	802.38	797.62	2.83	2.65	-166.85	0.36	-99.96	160.01	154.67	5.34	29.967	
900.00	893.06	904.94	895.06	3.31	3.02	-168.37	0.36	-99.96	182.01	175.93	6.09	29.908	
1,000.00	989.64	1,008.36	991.64	3.83	3.39	-169.71	0.36	-99.96	207.45	200.61	6.84	30.338	
1,100.00	1,085.27	1,087.27	1,087.27	4.40	3.67	-170.88	0.36	-99.96	236.31	228.80	7.51	31.480	
1,200.00	1,179.82	1,181.82	1,181.82	5.02	4.01	-171.89	0.36	-99.96	268.53	260.30	8.23	32.611	
1,300.00	1,273.17	1,282.84	1,282.83	5.70	4.37	-172.70	1.18	-99.08	303.14	294.14	8.99	33.704	
1,400.00	1,365.21	1,386.68	1,386.55	6.43	4.74	-173.12	4.50	-95.51	338.13	328.36	9.77	34.610	
1,500.00	1,455.84	1,491.72	1,491.21	7.23	5.12	-173.22	10.46	-89.09	373.37	362.82	10.56	35.368	
1,600.00	1,544.94	1,597.98	1,596.70	8.09	5.50	-173.07	19.14	-79.74	408.83	397.47	11.36	35.994	
1,700.00	1,632.39	1,705.46	1,702.84	9.01	5.91	-172.74	30.63	-67.37	444.46	432.29	12.18	36.502	
1,800.00	1,718.11	1,814.17	1,809.48	10.00	6.34	-172.25	44.99	-51.90	480.25	467.23	13.02	36.898	
1,900.00	1,801.97	1,924.13	1,916.44	11.07	6.80	-171.64	62.31	-33.25	516.17	502.29	13.88	37.188	
2,000.00	1,883.88	2,035.33	2,023.54	12.20	7.30	-170.91	82.65	-11.35	552.21	537.43	14.78	37.370	
2,100.00	1,963.74	2,147.78	2,130.59	13.41	7.85	-170.10	106.08	13.88	588.35	572.64	15.71	37.445	
2,200.00	2,041.45	2,261.48	2,237.36	14.69	8.46	-169.20	132.65	42.50	624.59	607.89	16.70	37.408	
2,300.00	2,116.92	2,376.44	2,343.65	16.05	9.13	-168.23	162.43	74.58	660.91	643.17	17.74	37.257	
2,357.48	2,159.25	2,443.08	2,404.44	16.86	9.55	-167.64	181.02	94.59	681.82	663.44	18.37	37.112	
2,400.00	2,190.27	2,492.77	2,449.34	17.47	9.88	-167.26	195.50	110.19	697.01	678.16	18.85	36.971	
2,500.00	2,263.22	2,604.86	2,549.27	18.92	10.66	-166.33	230.03	147.38	730.62	710.59	20.03	36.476	
2,600.00	2,336.18	2,698.85	2,632.56	20.37	11.36	-165.57	259.68	179.30	763.44	742.24	21.20	36.010	
2,700.00	2,409.14	2,807.15	2,715.85	21.84	12.19	-164.88	289.32	211.23	796.38	773.90	22.48	35.420	
2,800.00	2,482.09	2,886.85	2,799.14	23.31	12.81	-164.25	318.97	243.15	829.41	805.77	23.64	35.082	
2,900.00	2,555.05	2,980.85	2,882.44	24.78	13.56	-163.66	348.61	275.08	862.53	837.63	24.90	34.633	
3,000.00	2,628.01	3,074.84	2,965.73	26.27	14.31	-163.11	378.26	307.00	895.72	869.53	26.19	34.198	
3,100.00	2,700.96	3,168.84	3,049.02	27.75	15.08	-162.60	407.90	338.93	928.99	901.48	27.50	33.779	
3,200.00	2,773.92	3,262.84	3,132.31	29.24	15.86	-162.13	437.55	370.85	962.31	933.48	28.83	33.377	
3,300.00	2,846.88	3,356.83	3,215.60	30.73	16.64	-161.69	467.19	402.78	995.68	965.50	30.18	32.993	
3,400.00	2,919.83	3,450.83	3,298.89	32.23	17.43	-161.28	496.84	434.70	1,029.11	997.57	31.54	32.626	
3,500.00	2,992.79	3,544.83	3,382.18	33.72	18.22	-160.89	526.48	466.63	1,062.58	1,029.66	32.92	32.277	
3,600.00	3,065.75	3,638.82	3,465.47	35.22	19.02	-160.53	556.13	498.55	1,096.09	1,061.78	34.31	31.945	
3,700.00	3,138.71	3,732.82	3,548.76	36.72	19.83	-160.19	585.77	530.48	1,129.64	1,093.92	35.72	31.629	
3,800.00	3,211.66	3,826.82	3,632.05	38.22	20.63	-159.87	615.42	562.40	1,163.22	1,126.09	37.13	31.328	
3,900.00	3,284.62	3,920.81	3,715.34	39.72	21.44	-159.56	645.06	594.33	1,196.83	1,158.27	38.55	31.042	
4,000.00	3,357.58	4,014.81	3,798.63	41.22	22.26	-159.28	674.71	626.26	1,230.47	1,190.48	39.99	30.770	
4,100.00	3,430.53	4,108.81	3,881.93	42.73	23.07	-159.00	704.35	658.18	1,264.13	1,222.70	41.43	30.512	
4,200.00	3,503.49	4,202.81	3,965.22	44.23	23.89	-158.75	734.00	690.11	1,297.82	1,254.94	42.88	30.266	
4,300.00	3,576.45	4,296.80	4,048.51	45.74	24.71	-158.50	763.64	722.03	1,331.54	1,287.20	44.34	30.031	
4,400.00	3,649.40	4,409.20	4,131.80	47.25	25.70	-158.27	793.29	753.96	1,365.27	1,319.34	45.92	29.729	
4,500.00	3,722.36	4,484.80	4,215.09	48.75	26.36	-158.05	822.93	785.88	1,399.02	1,351.75	47.27	29.595	
4,600.00	3,795.32	4,578.79	4,298.38	50.26	27.18	-157.84	852.58	817.81	1,432.79	1,384.04	48.75	29.392	
4,700.00	3,868.27	4,672.79	4,381.67	51.77	28.01	-157.63	882.22	849.73	1,466.58	1,416.35	50.23	29.198	
4,800.00	3,941.23	4,766.79	4,464.96	53.28	28.84	-157.44	911.87	881.66	1,500.38	1,448.66	51.71	29.013	
4,900.00	4,014.19	4,860.78	4,548.25	54.79	29.67	-157.26	941.51	913.58	1,534.19	1,480.99	53.20	28.836	
5,000.00	4,087.15	4,954.78	4,631.54	56.30	30.50	-157.08	971.16	945.51	1,568.02	1,513.32	54.70	28.667	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	5,048.78	4,714.83	57.81	31.33	-156.91	1,000.80	977.43	1,601.86	1,545.67	56.20	28.505	
5,200.00	4,233.06	5,142.77	4,798.13	59.32	32.16	-156.75	1,030.45	1,009.36	1,635.72	1,578.02	57.70	28.350	
5,300.00	4,306.02	5,236.77	4,881.42	60.83	33.00	-156.60	1,060.09	1,041.28	1,669.58	1,610.38	59.20	28.201	
5,400.00	4,378.97	5,330.77	4,964.71	62.34	33.83	-156.45	1,089.74	1,073.21	1,703.46	1,642.75	60.71	28.059	
5,500.00	4,451.93	5,424.76	5,048.00	63.85	34.67	-156.30	1,119.38	1,105.14	1,737.34	1,675.12	62.22	27.922	
5,600.00	4,524.89	5,518.76	5,131.29	65.36	35.50	-156.17	1,149.03	1,137.06	1,771.24	1,707.50	63.74	27.790	
5,700.00	4,597.84	5,612.76	5,214.58	66.88	36.34	-156.03	1,178.67	1,168.99	1,805.14	1,739.89	65.25	27.664	
5,800.00	4,670.80	5,706.76	5,297.87	68.39	37.18	-155.91	1,208.31	1,200.91	1,839.05	1,772.28	66.77	27.543	
5,900.00	4,743.76	5,800.75	5,381.16	69.90	38.01	-155.78	1,237.96	1,232.84	1,872.97	1,804.68	68.29	27.426	
6,000.00	4,816.71	5,905.25	5,464.45	71.41	38.95	-155.66	1,267.60	1,264.76	1,906.90	1,837.01	69.89	27.285	
6,100.00	4,889.67	5,988.75	5,547.74	72.93	39.69	-155.55	1,297.25	1,296.69	1,940.83	1,869.49	71.34	27.205	
6,200.00	4,962.63	6,082.74	5,631.03	74.44	40.53	-155.44	1,326.89	1,328.61	1,974.77	1,901.90	72.87	27.100	
6,300.00	5,035.59	6,176.74	5,714.33	75.95	41.37	-155.33	1,356.54	1,360.54	2,008.72	1,934.32	74.40	26.999	
6,400.00	5,108.54	6,270.74	5,797.62	77.47	42.21	-155.23	1,386.18	1,392.46	2,042.67	1,966.74	75.93	26.902	
6,500.00	5,181.50	6,364.73	5,880.91	78.98	43.05	-155.13	1,415.83	1,424.39	2,076.63	1,999.16	77.46	26.808	
6,600.00	5,254.46	6,458.73	5,964.20	80.49	43.89	-155.03	1,445.47	1,456.31	2,110.59	2,031.59	79.00	26.717	
6,700.00	5,327.41	6,552.73	6,047.49	82.01	44.73	-154.94	1,475.12	1,488.24	2,144.56	2,064.02	80.53	26.629	
6,800.00	5,400.37	6,646.72	6,130.78	83.52	45.57	-154.85	1,504.76	1,520.16	2,178.53	2,096.46	82.07	26.544	
6,900.00	5,473.33	6,740.72	6,214.07	85.04	46.41	-154.76	1,534.41	1,552.09	2,212.51	2,128.90	83.61	26.462	
7,000.00	5,546.28	6,834.72	6,297.36	86.55	47.25	-154.67	1,564.05	1,584.02	2,246.49	2,161.34	85.15	26.382	
7,100.00	5,619.24	6,928.72	6,380.65	88.06	48.10	-154.59	1,593.70	1,615.94	2,280.48	2,193.79	86.69	26.305	
7,200.00	5,692.20	7,022.71	6,463.94	89.58	48.94	-154.51	1,623.34	1,647.87	2,314.47	2,226.23	88.24	26.230	
7,300.00	5,765.15	7,116.71	6,547.23	91.09	49.78	-154.43	1,652.99	1,679.79	2,348.47	2,258.69	89.78	26.158	
7,400.00	5,838.11	7,210.71	6,630.53	92.61	50.62	-154.36	1,682.63	1,711.72	2,382.46	2,291.14	91.33	26.088	
7,500.00	5,911.07	7,304.70	6,713.82	94.12	51.47	-154.28	1,712.28	1,743.64	2,416.47	2,323.60	92.87	26.019	
7,600.00	5,984.03	7,401.30	6,797.11	95.64	52.33	-154.21	1,741.92	1,775.57	2,450.47	2,356.04	94.44	25.948	
7,700.00	6,056.98	7,507.30	6,880.40	97.15	53.28	-154.14	1,771.57	1,807.49	2,484.48	2,388.41	96.07	25.861	
7,800.00	6,129.94	7,586.69	6,963.69	98.67	54.00	-154.08	1,801.21	1,839.42	2,518.49	2,420.98	97.52	25.827	
7,900.00	6,202.90	7,696.01	7,060.93	100.18	54.97	-154.03	1,834.37	1,876.69	2,552.44	2,453.22	99.22	25.725	
8,000.00	6,275.85	7,845.33	7,198.98	101.70	56.02	-154.62	1,852.38	1,929.49	2,584.87	2,484.63	100.24	25.786	
8,100.00	6,348.81	7,976.17	7,320.03	103.21	56.57	-155.82	1,836.33	1,975.69	2,615.84	2,516.04	99.81	26.209	
8,200.00	6,421.77	8,081.27	7,412.85	104.73	56.77	-157.18	1,802.41	2,011.04	2,646.53	2,547.82	98.70	26.813	
8,300.00	6,494.72	8,162.43	7,479.67	106.24	56.79	-158.45	1,764.12	2,036.44	2,678.04	2,580.55	97.49	27.469	
8,400.00	6,567.68	8,224.67	7,527.11	107.76	56.73	-159.53	1,728.14	2,054.44	2,711.19	2,614.80	96.39	28.126	
8,500.00	6,640.64	8,272.86	7,561.19	109.27	56.65	-160.42	1,696.62	2,067.36	2,746.45	2,651.00	95.45	28.774	
8,600.00	6,713.59	8,310.79	7,586.19	110.79	56.56	-161.15	1,669.73	2,076.82	2,784.08	2,689.45	94.63	29.420	
8,700.00	6,786.55	8,341.16	7,604.98	112.30	56.47	-161.76	1,646.95	2,083.92	2,824.23	2,730.32	93.91	30.075	
8,800.00	6,859.51	8,365.90	7,619.44	113.82	56.40	-162.26	1,627.64	2,089.38	2,866.91	2,773.67	93.24	30.749	
8,900.00	6,932.46	8,386.37	7,630.80	115.33	56.33	-162.68	1,611.16	2,093.66	2,912.13	2,819.52	92.60	31.447	
9,000.00	7,005.42	8,400.00	7,638.06	116.85	56.28	-162.96	1,599.95	2,096.40	2,959.83	2,867.75	92.08	32.145	
9,104.89	7,081.95	8,418.81	7,647.67	118.44	56.21	-163.35	1,584.19	2,100.02	3,012.44	2,921.08	91.36	32.974	
9,150.00	7,115.15	8,425.43	7,650.93	119.12	56.18	-171.00	1,578.57	2,101.24	3,035.86	2,944.77	91.09	33.328	
9,200.00	7,152.46	8,434.00	7,655.07	119.86	56.15	-179.82	1,571.22	2,102.80	3,062.23	2,971.41	90.81	33.721	
9,250.00	7,190.04	8,450.00	7,662.52	120.57	56.09	171.08	1,557.34	2,105.60	3,088.81	2,998.41	90.40	34.169	
9,300.00	7,227.59	8,450.00	7,662.52	121.25	56.09	162.32	1,557.34	2,105.60	3,115.34	3,024.92	90.41	34.458	
9,350.00	7,264.83	8,466.10	7,669.64	121.89	56.02	153.54	1,543.15	2,108.27	3,141.60	3,051.52	90.08	34.875	
9,400.00	7,301.48	8,478.53	7,674.89	122.48	55.97	145.25	1,532.06	2,110.24	3,167.39	3,077.51	89.88	35.240	
9,450.00	7,337.26	8,500.00	7,683.41	123.01	55.88	137.39	1,512.61	2,113.43	3,192.51	3,103.01	89.50	35.670	
9,500.00	7,371.90	8,500.00	7,683.41	123.49	55.88	130.45	1,512.61	2,113.43	3,216.69	3,126.99	89.69	35.863	
9,550.00	7,405.13	8,519.70	7,690.63	123.91	55.78	123.94	1,494.48	2,116.12	3,239.78	3,150.34	89.44	36.222	
9,600.00	7,436.70	8,534.48	7,695.66	124.27	55.71	118.19	1,480.71	2,118.00	3,261.62	3,172.26	89.36	36.500	
9,650.00	7,466.36	8,550.00	7,700.59	124.57	55.64	113.09	1,466.11	2,119.83	3,282.02	3,192.72	89.31	36.750	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,700.00	7,493.91	8,565.27	7,705.07	124.81	55.57	108.65	1,451.61	2,121.50	3,300.84	3,211.53	89.31	36.959	
9,750.00	7,519.11	8,581.18	7,709.36	125.00	55.49	104.80	1,436.37	2,123.08	3,317.94	3,228.59	89.35	37.135	
9,800.00	7,541.79	8,600.00	7,713.91	125.12	55.39	101.51	1,418.19	2,124.76	3,333.20	3,243.84	89.36	37.301	
9,850.00	7,561.77	8,600.00	7,713.91	125.20	55.39	98.81	1,418.19	2,124.76	3,346.59	3,256.64	89.94	37.207	
9,900.00	7,578.90	8,630.42	7,720.09	125.23	55.24	96.51	1,388.49	2,127.02	3,357.77	3,268.02	89.75	37.412	
9,950.00	7,593.04	8,650.00	7,723.29	125.22	55.14	94.72	1,369.21	2,128.17	3,366.91	3,277.00	89.91	37.448	
10,000.00	7,604.09	8,650.00	7,723.29	125.17	55.14	93.39	1,369.21	2,128.17	3,373.95	3,283.26	90.69	37.204	
10,050.00	7,611.97	8,681.10	7,727.09	125.08	54.97	92.46	1,338.38	2,129.52	3,378.59	3,287.96	90.63	37.279	
10,100.00	7,616.61	8,700.00	7,728.64	124.97	54.87	91.96	1,319.55	2,130.05	3,381.06	3,290.08	90.97	37.165	
10,145.95	7,618.00	8,713.82	7,729.41	124.84	54.79	91.85	1,305.76	2,130.30	3,381.31	3,289.86	91.45	36.976	
10,200.00	7,618.00	8,740.83	7,730.00	124.69	54.65	91.86	1,278.75	2,130.43	3,380.80	3,289.10	91.70	36.868	
10,219.43	7,618.00	8,746.43	7,730.00	124.63	54.62	91.86	1,284.35	2,130.45	3,380.71	3,288.50	92.21	36.665	
10,300.00	7,618.00	8,815.80	7,730.00	124.41	54.25	91.86	1,203.79	2,130.17	3,380.71	3,289.26	91.45	36.970	
10,400.00	7,618.00	8,915.80	7,730.00	124.14	53.74	91.86	1,103.79	2,129.83	3,380.71	3,290.17	90.54	37.339	
10,500.00	7,618.00	9,015.80	7,730.00	123.88	53.26	91.86	1,003.79	2,129.49	3,380.72	3,290.95	89.77	37.660	
10,600.00	7,618.00	9,115.80	7,730.00	123.63	52.80	91.86	903.79	2,129.15	3,380.72	3,291.59	89.13	37.928	
10,700.00	7,618.00	9,215.80	7,730.00	123.40	52.37	91.86	803.79	2,128.81	3,380.73	3,292.09	88.64	38.141	
10,800.00	7,618.00	9,315.80	7,730.00	123.18	51.97	91.86	703.79	2,128.47	3,380.73	3,292.45	88.28	38.295	
10,900.00	7,618.00	9,415.80	7,730.00	122.96	51.59	91.86	603.79	2,128.13	3,380.74	3,292.67	88.07	38.388	
11,000.00	7,618.00	9,515.80	7,730.00	122.76	51.23	91.86	503.79	2,127.78	3,380.74	3,292.74	88.00	38.419	
11,100.00	7,618.00	9,615.80	7,730.00	122.57	50.90	91.86	403.79	2,127.44	3,380.74	3,292.67	88.07	38.387	
11,200.00	7,618.00	9,715.80	7,730.00	122.39	50.59	91.86	303.79	2,127.10	3,380.75	3,292.46	88.29	38.293	
11,300.00	7,618.00	9,815.80	7,730.00	122.23	50.31	91.86	203.79	2,126.76	3,380.75	3,292.11	88.65	38.137	
11,400.00	7,618.00	9,915.80	7,730.00	122.07	50.05	91.86	103.79	2,126.42	3,380.76	3,291.61	89.15	37.924	
11,500.00	7,618.00	10,015.80	7,730.00	121.93	49.82	91.86	3.79	2,126.08	3,380.76	3,290.98	89.78	37.655	
11,600.00	7,618.00	10,115.80	7,730.00	121.79	49.62	91.86	-96.20	2,125.74	3,380.77	3,290.21	90.56	37.334	
11,700.00	7,618.00	10,215.80	7,730.00	121.67	49.46	91.86	-196.20	2,125.40	3,380.77	3,289.31	91.46	36.965	
11,800.00	7,618.00	10,315.80	7,730.00	121.56	49.33	91.86	-296.20	2,125.05	3,380.78	3,288.29	92.49	36.554	
11,900.00	7,618.00	10,415.80	7,730.00	121.46	49.26	91.86	-396.20	2,124.71	3,380.78	3,287.14	93.64	36.104	
12,000.00	7,618.00	10,515.80	7,730.00	121.38	49.26	91.86	-496.20	2,124.37	3,380.78	3,285.87	94.91	35.621	
12,100.00	7,618.00	10,615.80	7,730.00	121.30	49.34	91.86	-596.20	2,124.03	3,380.79	3,284.50	96.29	35.109	
12,200.00	7,618.00	10,715.80	7,730.00	121.24	49.54	91.86	-696.20	2,123.69	3,380.79	3,283.01	97.78	34.574	
12,300.00	7,618.00	10,815.80	7,730.00	121.19	49.89	91.86	-796.20	2,123.35	3,380.80	3,281.42	99.38	34.020	
12,400.00	7,618.00	10,915.80	7,730.00	121.16	50.40	91.86	-896.20	2,123.01	3,380.80	3,279.73	101.07	33.450	
12,500.00	7,618.00	11,015.80	7,730.00	121.14	51.07	91.86	-996.20	2,122.66	3,380.81	3,277.95	102.86	32.870	
12,600.00	7,618.00	11,115.80	7,730.00	121.13	51.89	91.86	-1,096.20	2,122.32	3,380.81	3,276.08	104.73	32.282	
12,700.00	7,618.00	11,215.80	7,730.00	121.13	52.82	91.86	-1,196.20	2,121.98	3,380.82	3,274.13	106.69	31.690	
12,800.00	7,618.00	11,315.80	7,730.00	121.15	53.84	91.86	-1,296.20	2,121.64	3,380.82	3,272.10	108.72	31.096	
12,900.00	7,618.00	11,415.80	7,730.00	121.18	54.93	91.86	-1,396.20	2,121.30	3,380.82	3,269.99	110.83	30.504	
13,000.00	7,618.00	11,515.80	7,730.00	121.23	56.07	91.86	-1,496.20	2,120.96	3,380.83	3,267.82	113.01	29.915	
13,100.00	7,618.00	11,615.80	7,730.00	121.29	57.26	91.86	-1,596.20	2,120.62	3,380.83	3,265.57	115.26	29.332	
13,200.00	7,618.00	11,715.80	7,730.00	121.37	58.49	91.86	-1,696.20	2,120.28	3,380.84	3,263.27	117.57	28.756	
13,300.00	7,618.00	11,815.80	7,730.00	121.46	59.76	91.86	-1,796.19	2,119.93	3,380.84	3,260.90	119.94	28.188	
13,400.00	7,618.00	11,915.80	7,730.00	121.57	61.05	91.86	-1,896.19	2,119.59	3,380.85	3,258.48	122.36	27.629	
13,500.00	7,618.00	12,015.80	7,730.00	121.70	62.36	91.86	-1,996.19	2,119.25	3,380.85	3,256.01	124.84	27.081	
13,600.00	7,618.00	12,115.80	7,730.00	121.84	63.70	91.86	-2,096.19	2,118.91	3,380.86	3,253.49	127.37	26.544	
13,700.00	7,618.00	12,215.80	7,730.00	122.01	65.06	91.86	-2,196.19	2,118.57	3,380.86	3,250.92	129.94	26.019	
13,800.00	7,618.00	12,315.80	7,730.00	122.19	66.44	91.86	-2,296.19	2,118.23	3,380.86	3,248.31	132.56	25.505	
13,900.00	7,618.00	12,415.80	7,730.00	122.39	67.84	91.86	-2,396.19	2,117.89	3,380.87	3,245.65	135.21	25.004	
14,000.00	7,618.00	12,515.80	7,730.00	122.62	69.25	91.86	-2,496.19	2,117.54	3,380.87	3,242.96	137.91	24.515	
14,100.00	7,618.00	12,615.80	7,730.00	122.86	70.68	91.86	-2,596.19	2,117.20	3,380.88	3,240.23	140.65	24.038	
14,200.00	7,618.00	12,715.80	7,730.00	123.12	72.12	91.86	-2,696.19	2,116.86	3,380.88	3,237.47	143.41	23.574	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	12,815.80	7,730.00	123.41	73.58	91.86	-2,796.19	2,116.52	3,380.89	3,234.67	146.21	23.123	
14,400.00	7,618.00	12,915.80	7,730.00	123.72	75.05	91.86	-2,896.19	2,116.18	3,380.89	3,231.85	149.05	22.684	
14,500.00	7,618.00	13,015.80	7,730.00	124.06	76.53	91.86	-2,996.19	2,115.84	3,380.90	3,228.99	151.91	22.256	
14,600.00	7,618.00	13,115.80	7,730.00	124.42	78.02	91.86	-3,096.19	2,115.50	3,380.90	3,226.11	154.79	21.841	
14,700.00	7,618.00	13,215.80	7,730.00	124.80	79.52	91.86	-3,196.19	2,115.16	3,380.90	3,223.20	157.71	21.438	
14,800.00	7,618.00	13,315.80	7,730.00	125.21	81.03	91.86	-3,296.19	2,114.81	3,380.91	3,220.26	160.65	21.046	
14,900.00	7,618.00	13,415.80	7,730.00	125.65	82.55	91.86	-3,396.19	2,114.47	3,380.91	3,217.30	163.61	20.665	
15,000.00	7,618.00	13,515.80	7,730.00	126.11	84.08	91.86	-3,496.19	2,114.13	3,380.92	3,214.32	166.59	20.294	
15,100.00	7,618.00	13,615.80	7,730.00	126.61	85.62	91.86	-3,596.18	2,113.79	3,380.92	3,211.32	169.60	19.935	
15,200.00	7,618.00	13,715.80	7,730.00	127.13	87.16	91.86	-3,696.18	2,113.45	3,380.93	3,208.30	172.62	19.585	
15,300.00	7,618.00	13,815.80	7,730.00	127.68	88.71	91.86	-3,796.18	2,113.11	3,380.93	3,205.26	175.67	19.246	
15,400.00	7,618.00	13,915.80	7,730.00	128.26	90.27	91.86	-3,896.18	2,112.77	3,380.94	3,202.21	178.73	18.916	
15,500.00	7,618.00	14,015.80	7,730.00	128.87	91.84	91.86	-3,996.18	2,112.42	3,380.94	3,199.13	181.81	18.596	
15,600.00	7,618.00	14,115.80	7,730.00	129.51	93.41	91.86	-4,096.18	2,112.08	3,380.94	3,196.04	184.90	18.285	
15,700.00	7,618.00	14,215.80	7,730.00	130.18	94.99	91.86	-4,196.18	2,111.74	3,380.95	3,192.94	188.01	17.982	
15,800.00	7,618.00	14,315.80	7,730.00	130.88	96.58	91.86	-4,296.18	2,111.40	3,380.95	3,189.82	191.14	17.689	
15,900.00	7,618.00	14,415.80	7,730.00	131.61	98.17	91.86	-4,396.18	2,111.06	3,380.96	3,186.68	194.28	17.403	
16,000.00	7,618.00	14,515.80	7,730.00	132.37	99.76	91.86	-4,496.18	2,110.72	3,380.96	3,183.53	197.43	17.125	
16,100.00	7,618.00	14,615.80	7,730.00	133.17	101.36	91.86	-4,596.18	2,110.38	3,380.97	3,180.37	200.59	16.855	
16,200.00	7,618.00	14,715.80	7,730.00	133.99	102.97	91.86	-4,696.18	2,110.03	3,380.97	3,177.20	203.77	16.592	
16,300.00	7,618.00	14,815.80	7,730.00	134.84	104.58	91.86	-4,796.18	2,109.69	3,380.98	3,174.02	206.96	16.336	
16,400.00	7,618.00	14,915.80	7,730.00	135.72	106.20	91.86	-4,896.18	2,109.35	3,380.98	3,170.82	210.16	16.088	
16,500.00	7,618.00	15,015.80	7,730.00	136.63	107.82	91.86	-4,996.18	2,109.01	3,380.98	3,167.62	213.37	15.846	
16,600.00	7,618.00	15,115.80	7,730.00	137.57	109.44	91.86	-5,096.18	2,108.67	3,380.99	3,164.40	216.59	15.610	
16,700.00	7,618.00	15,215.80	7,730.00	138.54	111.07	91.86	-5,196.18	2,108.33	3,380.99	3,161.18	219.82	15.381	
16,800.00	7,618.00	15,315.80	7,730.00	139.53	112.70	91.86	-5,296.17	2,107.99	3,381.00	3,157.94	223.05	15.158	
16,900.00	7,618.00	15,415.80	7,730.00	140.55	114.34	91.86	-5,396.17	2,107.65	3,381.00	3,154.70	226.30	14.940	
17,000.00	7,618.00	15,515.80	7,730.00	141.60	115.97	91.86	-5,496.17	2,107.30	3,381.01	3,151.45	229.56	14.728	
17,100.00	7,618.00	15,615.80	7,730.00	142.67	117.62	91.86	-5,596.17	2,106.96	3,381.01	3,148.19	232.82	14.522	
17,200.00	7,618.00	15,715.80	7,730.00	143.77	119.26	91.86	-5,696.17	2,106.62	3,381.02	3,144.92	236.09	14.321	
17,300.00	7,618.00	15,815.80	7,730.00	144.88	120.91	91.86	-5,796.17	2,106.28	3,381.02	3,141.65	239.37	14.125	
17,400.00	7,618.00	15,915.80	7,730.00	146.02	122.56	91.86	-5,896.17	2,105.94	3,381.02	3,138.37	242.66	13.933	
17,500.00	7,618.00	16,015.80	7,730.00	147.19	124.22	91.86	-5,996.17	2,105.60	3,381.03	3,135.08	245.95	13.747	
17,600.00	7,618.00	16,115.80	7,730.00	148.37	125.88	91.86	-6,096.17	2,105.26	3,381.03	3,131.79	249.25	13.565	
17,700.00	7,618.00	16,215.80	7,730.00	149.57	127.54	91.86	-6,196.17	2,104.91	3,381.04	3,128.48	252.55	13.387	
17,800.00	7,618.00	16,315.80	7,730.00	150.79	129.20	91.86	-6,296.17	2,104.57	3,381.04	3,125.18	255.87	13.214	
17,900.00	7,618.00	16,415.80	7,730.00	152.03	130.86	91.86	-6,396.17	2,104.23	3,381.05	3,121.86	259.18	13.045	
18,000.00	7,618.00	16,515.80	7,730.00	153.29	132.53	91.86	-6,496.17	2,103.89	3,381.05	3,118.55	262.51	12.880	
18,100.00	7,618.00	16,615.80	7,730.00	154.57	134.20	91.86	-6,596.17	2,103.55	3,381.06	3,115.22	265.83	12.719	
18,200.00	7,618.00	16,715.80	7,730.00	155.86	135.87	91.86	-6,696.17	2,103.21	3,381.06	3,111.89	269.17	12.561	
18,300.00	7,618.00	16,815.80	7,730.00	157.17	137.55	91.86	-6,796.17	2,102.87	3,381.06	3,108.56	272.51	12.407	
18,400.00	7,618.00	16,915.80	7,730.00	158.49	139.23	91.86	-6,896.17	2,102.53	3,381.07	3,105.22	275.85	12.257	
18,500.00	7,618.00	17,015.80	7,730.00	159.82	140.90	91.86	-6,996.16	2,102.18	3,381.07	3,101.87	279.20	12.110	
18,600.00	7,618.00	17,115.80	7,730.00	161.17	142.58	91.86	-7,096.16	2,101.84	3,381.08	3,098.53	282.55	11.966	
18,700.00	7,618.00	17,215.80	7,730.00	162.54	144.27	91.86	-7,196.16	2,101.50	3,381.08	3,095.17	285.91	11.826	
18,800.00	7,618.00	17,315.80	7,730.00	163.91	145.95	91.86	-7,296.16	2,101.16	3,381.09	3,091.82	289.27	11.688	
18,900.00	7,618.00	17,415.80	7,730.00	165.30	147.64	91.86	-7,396.16	2,100.82	3,381.09	3,088.46	292.63	11.554	
19,000.00	7,618.00	17,515.80	7,730.00	166.70	149.33	91.86	-7,496.16	2,100.48	3,381.10	3,085.09	296.00	11.422	
19,100.00	7,618.00	17,615.80	7,730.00	168.10	151.02	91.86	-7,596.16	2,100.14	3,381.10	3,081.72	299.38	11.294	
19,200.00	7,618.00	17,715.80	7,730.00	169.52	152.71	91.86	-7,696.16	2,099.79	3,381.10	3,078.35	302.75	11.168	
19,300.00	7,618.00	17,815.80	7,730.00	170.95	154.40	91.86	-7,796.16	2,099.45	3,381.11	3,074.98	306.13	11.045	
19,400.00	7,618.00	17,915.80	7,730.00	172.39	156.09	91.86	-7,896.16	2,099.11	3,381.11	3,071.60	309.52	10.924	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,500.00	7,618.00	18,015.80	7,730.00	173.84	157.79	91.86	-7,996.16	2,098.77	3,381.12	3,068.21	312.90	10.806	
19,600.00	7,618.00	18,115.80	7,730.00	175.30	159.49	91.86	-8,096.16	2,098.43	3,381.12	3,064.83	316.29	10.690	
19,700.00	7,618.00	18,215.80	7,730.00	176.76	161.19	91.86	-8,196.16	2,098.09	3,381.13	3,061.44	319.69	10.576	
19,800.00	7,618.00	18,315.80	7,730.00	178.24	162.89	91.86	-8,296.16	2,097.75	3,381.13	3,058.05	323.08	10.465	
19,896.19	7,618.00	18,411.98	7,730.00	179.66	164.52	91.86	-8,392.34	2,097.42	3,381.14	3,054.78	326.35	10.360	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	2.00	2.00	0.00	0.00	-89.77	0.36	-89.88	89.88				
100.00	100.00	102.00	102.00	0.13	0.14	-89.77	0.36	-89.88	89.88	89.61	0.28	325.630	
200.00	200.00	202.00	202.00	0.49	0.50	-89.77	0.36	-89.88	89.88	88.89	0.99	90.518	CC, ES
300.00	299.98	301.98	301.98	0.85	0.86	-159.46	0.36	-89.88	91.51	89.81	1.71	53.624	
400.00	399.84	401.84	401.84	1.21	1.22	-160.52	0.36	-89.88	96.43	94.01	2.42	39.775	
500.00	499.45	501.45	501.45	1.58	1.57	-162.06	0.36	-89.88	104.69	101.55	3.15	33.277	
600.00	598.70	600.70	600.70	1.97	1.93	-163.84	0.36	-89.88	116.35	112.48	3.87	30.065	
700.00	697.47	700.53	699.47	2.38	2.29	-165.66	0.36	-89.88	131.46	126.86	4.60	28.582	
800.00	795.62	802.38	797.62	2.83	2.65	-167.38	0.36	-89.88	150.03	144.69	5.34	28.100	
900.00	893.06	904.94	895.06	3.31	3.02	-168.93	0.36	-89.88	172.07	165.99	6.08	28.279	
1,000.00	989.64	1,008.36	991.64	3.83	3.39	-170.28	0.36	-89.88	197.56	190.72	6.84	28.895	
1,100.00	1,085.27	1,087.27	1,087.27	4.40	3.67	-171.44	0.36	-89.88	226.46	218.95	7.51	30.173	
1,200.00	1,179.82	1,189.06	1,189.04	5.02	4.04	-172.36	1.23	-88.80	257.58	249.32	8.26	31.184	
1,300.00	1,273.17	1,292.94	1,292.79	5.70	4.40	-172.85	4.45	-84.83	288.96	279.93	9.03	32.014	
1,400.00	1,365.21	1,397.96	1,397.43	6.43	4.78	-173.02	10.09	-77.84	320.50	310.70	9.80	32.694	
1,500.00	1,455.84	1,504.14	1,502.80	7.23	5.17	-172.95	18.25	-67.74	352.16	341.57	10.59	33.244	
1,600.00	1,544.94	1,611.48	1,608.77	8.09	5.58	-172.69	28.98	-54.46	383.90	372.50	11.40	33.679	
1,700.00	1,632.39	1,719.99	1,715.16	9.01	6.01	-172.27	42.36	-37.90	415.68	403.46	12.22	34.010	
1,800.00	1,718.11	1,829.69	1,821.83	10.00	6.48	-171.73	58.45	-17.98	447.50	434.43	13.07	34.240	
1,900.00	1,801.97	1,940.58	1,928.57	11.07	6.99	-171.08	77.30	5.36	479.32	465.37	13.94	34.373	
2,000.00	1,883.88	2,052.66	2,035.20	12.20	7.55	-170.35	98.99	32.21	511.13	496.27	14.85	34.409	
2,100.00	1,963.74	2,165.95	2,141.52	13.41	8.16	-169.54	123.55	62.61	542.91	527.10	15.81	34.348	
2,200.00	2,041.45	2,280.44	2,247.32	14.69	8.85	-168.66	151.04	96.64	574.65	557.84	16.81	34.186	
2,300.00	2,116.92	2,396.13	2,352.36	16.05	9.61	-167.72	181.49	134.34	606.33	588.46	17.87	33.923	
2,357.48	2,159.25	2,463.18	2,412.32	16.86	10.09	-167.15	200.35	157.69	624.51	605.99	18.52	33.716	
2,400.00	2,190.27	2,513.14	2,456.52	17.47	10.46	-166.78	214.98	175.79	637.65	618.63	19.02	33.533	
2,500.00	2,263.22	2,624.05	2,553.26	18.92	11.34	-165.88	249.06	217.98	666.37	646.14	20.22	32.949	
2,600.00	2,336.18	2,719.65	2,636.19	20.37	12.13	-165.14	278.95	254.98	694.44	672.99	21.45	32.377	
2,700.00	2,409.14	2,815.25	2,719.13	21.84	12.94	-164.45	308.83	291.98	722.62	699.91	22.71	31.822	
2,800.00	2,482.09	2,910.85	2,802.06	23.31	13.77	-163.82	338.72	328.97	750.88	726.88	24.00	31.287	
2,900.00	2,555.05	3,006.45	2,884.99	24.78	14.61	-163.23	368.61	365.97	779.23	753.90	25.32	30.774	
3,000.00	2,628.01	3,102.05	2,967.92	26.27	15.46	-162.68	398.49	402.97	807.64	780.97	26.67	30.285	
3,100.00	2,700.96	3,202.35	3,050.85	27.75	16.36	-162.17	428.38	439.96	836.12	808.05	28.07	29.790	
3,200.00	2,773.92	3,293.25	3,133.78	29.24	17.19	-161.69	458.26	476.96	864.65	835.22	29.43	29.380	
3,300.00	2,846.88	3,388.86	3,216.71	30.73	18.07	-161.25	488.15	513.96	893.24	862.40	30.84	28.963	
3,400.00	2,919.83	3,484.46	3,299.64	32.23	18.95	-160.83	518.04	550.95	921.87	889.60	32.27	28.569	
3,500.00	2,992.79	3,580.06	3,382.57	33.72	19.84	-160.43	547.92	587.95	950.55	916.84	33.71	28.197	
3,600.00	3,065.75	3,675.66	3,465.50	35.22	20.73	-160.06	577.81	624.95	979.26	944.09	35.17	27.845	
3,700.00	3,138.71	3,771.26	3,548.43	36.72	21.63	-159.71	607.70	661.95	1,008.01	971.38	36.64	27.512	
3,800.00	3,211.66	3,866.86	3,631.36	38.22	22.53	-159.38	637.58	698.94	1,036.80	998.68	38.12	27.198	
3,900.00	3,284.62	3,962.46	3,714.29	39.72	23.43	-159.07	667.47	735.94	1,065.61	1,026.00	39.61	26.900	
4,000.00	3,357.58	4,058.06	3,797.22	41.22	24.33	-158.77	697.36	772.94	1,094.45	1,053.34	41.12	26.618	
4,100.00	3,430.53	4,153.66	3,880.15	42.73	25.24	-158.49	727.24	809.93	1,123.32	1,080.69	42.63	26.352	
4,200.00	3,503.49	4,249.26	3,963.09	44.23	26.15	-158.23	757.13	846.93	1,152.21	1,108.06	44.15	26.099	
4,300.00	3,576.45	4,344.86	4,046.02	45.74	27.06	-157.97	787.01	883.93	1,181.12	1,135.45	45.68	25.859	
4,400.00	3,649.40	4,440.46	4,128.95	47.25	27.98	-157.73	816.90	920.92	1,210.06	1,162.85	47.21	25.631	
4,500.00	3,722.36	4,536.06	4,211.88	48.75	28.89	-157.50	846.79	957.92	1,239.01	1,190.26	48.75	25.414	
4,600.00	3,795.32	4,631.66	4,294.81	50.26	29.81	-157.28	876.67	994.92	1,267.98	1,217.68	50.30	25.209	
4,700.00	3,868.27	4,727.26	4,377.74	51.77	30.73	-157.07	906.56	1,031.91	1,296.96	1,245.11	51.85	25.013	
4,800.00	3,941.23	4,822.86	4,460.67	53.28	31.64	-156.87	936.45	1,068.91	1,325.97	1,272.55	53.41	24.826	
4,900.00	4,014.19	4,918.46	4,543.60	54.79	32.56	-156.67	966.33	1,105.91	1,354.98	1,300.01	54.97	24.648	
5,000.00	4,087.15	5,014.06	4,626.53	56.30	33.49	-156.49	996.22	1,142.90	1,384.01	1,327.47	56.54	24.478	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	5,109.66	4,709.46	57.81	34.41	-156.31	1,026.11	1,179.90	1,413.05	1,354.94	58.11	24.315	
5,200.00	4,233.06	5,205.27	4,792.39	59.32	35.33	-156.14	1,055.99	1,216.90	1,442.11	1,382.42	59.69	24.160	
5,300.00	4,306.02	5,300.87	4,875.32	60.83	36.25	-155.98	1,085.88	1,253.89	1,471.17	1,409.90	61.27	24.012	
5,400.00	4,378.97	5,403.53	4,958.25	62.34	37.25	-155.82	1,115.76	1,290.89	1,500.25	1,437.34	62.90	23.850	
5,500.00	4,451.93	5,507.93	5,041.18	63.85	38.26	-155.67	1,145.65	1,327.89	1,529.33	1,464.78	64.55	23.692	
5,600.00	4,524.89	5,587.67	5,124.12	65.36	39.03	-155.53	1,175.54	1,364.89	1,558.43	1,492.40	66.03	23.603	
5,700.00	4,597.84	5,683.27	5,207.05	66.88	39.96	-155.39	1,205.42	1,401.88	1,587.53	1,519.91	67.62	23.477	
5,800.00	4,670.80	5,778.87	5,289.98	68.39	40.88	-155.25	1,235.31	1,438.88	1,616.64	1,547.43	69.21	23.357	
5,900.00	4,743.76	5,874.47	5,372.91	69.90	41.81	-155.12	1,265.20	1,475.88	1,645.76	1,574.95	70.81	23.241	
6,000.00	4,816.71	5,970.07	5,455.84	71.41	42.74	-155.00	1,295.08	1,512.87	1,674.89	1,602.48	72.41	23.130	
6,100.00	4,889.67	6,065.67	5,538.77	72.93	43.67	-154.87	1,324.97	1,549.87	1,704.02	1,630.01	74.01	23.023	
6,200.00	4,962.63	6,161.27	5,621.70	74.44	44.59	-154.76	1,354.86	1,586.87	1,733.16	1,657.54	75.62	22.920	
6,300.00	5,035.59	6,256.87	5,704.63	75.95	45.52	-154.64	1,384.74	1,623.86	1,762.31	1,685.09	77.23	22.820	
6,400.00	5,108.54	6,352.47	5,787.56	77.47	46.45	-154.53	1,414.63	1,660.86	1,791.46	1,712.63	78.83	22.725	
6,500.00	5,181.50	6,448.07	5,870.49	78.98	47.38	-154.43	1,444.51	1,697.86	1,820.62	1,740.18	80.44	22.632	
6,600.00	5,254.46	6,543.67	5,953.42	80.49	48.31	-154.32	1,474.40	1,734.85	1,849.79	1,767.73	82.06	22.543	
6,700.00	5,327.41	6,639.27	6,036.35	82.01	49.24	-154.23	1,504.29	1,771.85	1,878.96	1,795.29	83.67	22.457	
6,800.00	5,400.37	6,734.87	6,119.28	83.52	50.17	-154.13	1,534.17	1,808.85	1,908.13	1,822.85	85.28	22.374	
6,900.00	5,473.33	6,830.47	6,202.21	85.04	51.11	-154.04	1,564.06	1,845.84	1,937.31	1,850.41	86.90	22.293	
7,000.00	5,546.28	6,926.08	6,285.14	86.55	52.04	-153.94	1,593.95	1,882.84	1,966.50	1,877.98	88.52	22.215	
7,100.00	5,619.24	7,021.68	6,368.08	88.06	52.97	-153.86	1,623.83	1,919.84	1,995.69	1,905.55	90.14	22.140	
7,200.00	5,692.20	7,117.28	6,451.01	89.58	53.90	-153.77	1,653.72	1,956.84	2,024.88	1,933.12	91.76	22.067	
7,300.00	5,765.15	7,212.88	6,533.94	91.09	54.83	-153.69	1,683.61	1,993.83	2,054.08	1,960.70	93.38	21.996	
7,400.00	5,838.11	7,308.48	6,616.87	92.61	55.76	-153.61	1,713.49	2,030.83	2,083.28	1,988.27	95.01	21.928	
7,500.00	5,911.07	7,404.08	6,699.80	94.12	56.70	-153.53	1,743.38	2,067.83	2,112.49	2,015.85	96.63	21.861	
7,600.00	5,984.03	7,499.68	6,782.73	95.64	57.63	-153.45	1,773.26	2,104.82	2,141.69	2,043.44	98.26	21.797	
7,700.00	6,056.98	7,604.72	6,865.66	97.15	58.65	-153.38	1,803.15	2,141.82	2,170.91	2,070.95	99.95	21.719	
7,800.00	6,129.94	7,696.62	6,953.61	98.67	59.55	-153.30	1,834.69	2,181.05	2,200.11	2,098.53	101.58	21.658	
7,900.00	6,202.90	7,863.74	7,104.04	100.18	60.93	-153.92	1,859.44	2,248.07	2,227.52	2,124.74	102.78	21.672	
8,000.00	6,275.85	8,009.46	7,235.83	101.70	61.70	-155.44	1,841.49	2,306.64	2,252.55	2,150.64	101.91	22.104	
8,100.00	6,348.81	8,123.51	7,333.58	103.21	62.00	-157.17	1,802.40	2,350.00	2,276.91	2,176.70	100.21	22.722	
8,200.00	6,421.77	8,208.88	7,401.08	104.73	62.08	-158.74	1,759.69	2,379.88	2,302.18	2,203.65	98.53	23.366	
8,300.00	6,494.72	8,272.55	7,447.26	106.24	62.04	-160.04	1,720.94	2,400.30	2,329.46	2,232.36	97.10	23.991	
8,400.00	6,567.68	8,320.76	7,479.45	107.76	61.98	-161.08	1,688.01	2,414.51	2,359.37	2,263.44	95.93	24.595	
8,500.00	6,640.64	8,358.05	7,502.56	109.27	61.91	-161.92	1,660.58	2,424.70	2,392.23	2,297.29	94.94	25.197	
8,600.00	6,713.59	8,387.52	7,519.63	110.79	61.84	-162.60	1,637.77	2,432.22	2,428.20	2,334.13	94.07	25.813	
8,700.00	6,786.55	8,411.28	7,532.60	112.30	61.77	-163.15	1,618.71	2,437.92	2,467.28	2,374.02	93.26	26.456	
8,800.00	6,859.51	8,430.78	7,542.70	113.82	61.71	-163.62	1,602.63	2,442.36	2,509.46	2,416.97	92.48	27.134	
8,900.00	6,932.46	8,450.00	7,552.17	115.33	61.66	-164.08	1,586.42	2,446.52	2,554.64	2,463.00	91.64	27.877	
9,000.00	7,005.42	8,460.77	7,557.25	116.85	61.62	-164.34	1,577.20	2,448.75	2,602.71	2,511.75	90.96	28.615	
9,104.89	7,081.95	8,473.05	7,562.85	118.44	61.58	-164.63	1,566.55	2,451.21	2,656.11	2,565.96	90.15	29.463	
9,150.00	7,115.15	8,478.51	7,565.28	119.12	61.56	-172.35	1,561.77	2,452.27	2,679.94	2,590.13	89.81	29.840	
9,200.00	7,152.46	8,485.82	7,568.46	119.86	61.53	178.77	1,555.34	2,453.66	2,706.76	2,617.30	89.46	30.257	
9,250.00	7,190.04	8,500.00	7,574.41	120.57	61.48	169.60	1,542.73	2,456.27	2,733.78	2,644.80	88.98	30.722	
9,300.00	7,227.59	8,500.00	7,574.41	121.25	61.48	160.79	1,542.73	2,456.27	2,760.73	2,671.78	88.95	31.039	
9,350.00	7,264.83	8,514.24	7,580.10	121.89	61.43	151.96	1,529.92	2,458.76	2,787.39	2,698.81	88.58	31.466	
9,400.00	7,301.48	8,525.47	7,584.38	122.48	61.38	143.62	1,519.71	2,460.63	2,813.56	2,725.19	88.36	31.841	
9,450.00	7,337.26	8,550.00	7,593.09	123.01	61.29	135.65	1,497.10	2,464.42	2,839.07	2,751.24	87.83	32.323	
9,500.00	7,371.90	8,550.00	7,593.09	123.49	61.29	128.70	1,497.10	2,464.42	2,863.51	2,775.48	88.03	32.528	
9,550.00	7,405.13	8,550.00	7,593.09	123.91	61.29	122.40	1,497.10	2,464.42	2,886.99	2,798.69	88.30	32.695	
9,600.00	7,436.70	8,576.79	7,601.58	124.27	61.17	116.48	1,471.96	2,468.12	2,909.01	2,821.12	87.88	33.102	
9,650.00	7,466.36	8,600.00	7,608.07	124.57	61.07	111.31	1,449.85	2,470.93	2,929.68	2,842.07	87.61	33.438	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,700.00	7,493.91	8,600.00	7,608.07	124.81	61.07	106.98	1,449.85	2,470.93	2,948.68	2,860.59	88.09	33.474	
9,750.00	7,519.11	8,620.10	7,613.02	125.00	60.98	103.09	1,430.49	2,473.07	2,965.94	2,877.90	88.04	33.687	
9,800.00	7,541.79	8,650.00	7,619.23	125.12	60.84	99.74	1,401.37	2,475.73	2,981.46	2,893.70	87.76	33.973	
9,850.00	7,561.77	8,650.00	7,619.23	125.20	60.84	97.07	1,401.37	2,475.73	2,994.78	2,906.32	88.46	33.854	
9,900.00	7,578.90	8,665.97	7,621.97	125.23	60.77	94.82	1,385.68	2,476.90	3,006.13	2,917.39	88.75	33.873	
9,950.00	7,593.04	8,681.64	7,624.28	125.22	60.69	93.04	1,370.21	2,477.87	3,015.35	2,926.23	89.11	33.837	
10,000.00	7,604.09	8,700.00	7,626.48	125.17	60.60	91.70	1,352.01	2,478.79	3,022.36	2,932.89	89.46	33.784	
10,050.00	7,611.97	8,700.00	7,626.48	125.08	60.60	90.80	1,352.01	2,478.79	3,027.20	2,936.70	90.50	33.448	
10,100.00	7,616.61	8,729.22	7,628.90	124.97	60.45	90.29	1,322.91	2,479.77	3,029.58	2,938.95	90.62	33.431	
10,145.95	7,618.00	8,750.00	7,629.78	124.84	60.35	90.19	1,302.15	2,480.09	3,029.84	2,938.85	90.98	33.301	
10,200.00	7,618.00	8,761.10	7,629.98	124.69	60.29	90.19	1,291.05	2,480.14	3,029.28	2,937.37	91.91	32.958	
10,240.06	7,618.00	8,789.75	7,630.00	124.57	60.15	90.19	1,262.40	2,480.06	3,029.25	2,937.37	91.89	32.967	
10,300.00	7,618.00	8,849.70	7,630.00	124.41	59.85	90.19	1,202.46	2,479.85	3,029.25	2,937.99	91.26	33.193	
10,400.00	7,618.00	8,949.70	7,630.00	124.14	59.38	90.19	1,102.46	2,479.52	3,029.25	2,938.93	90.32	33.540	
10,500.00	7,618.00	9,049.70	7,630.00	123.88	58.93	90.19	1,002.46	2,479.18	3,029.25	2,939.75	89.51	33.844	
10,600.00	7,618.00	9,149.70	7,630.00	123.63	58.50	90.19	902.46	2,478.84	3,029.25	2,940.42	88.83	34.102	
10,700.00	7,618.00	9,249.70	7,630.00	123.40	58.10	90.19	802.46	2,478.51	3,029.25	2,940.96	88.29	34.311	
10,800.00	7,618.00	9,349.70	7,630.00	123.18	57.72	90.19	702.46	2,478.17	3,029.25	2,941.36	87.89	34.466	
10,900.00	7,618.00	9,449.70	7,630.00	122.96	57.36	90.19	602.46	2,477.83	3,029.25	2,941.62	87.63	34.567	
11,000.00	7,618.00	9,549.70	7,630.00	122.76	57.03	90.19	502.46	2,477.50	3,029.25	2,941.73	87.52	34.611	
11,100.00	7,618.00	9,649.70	7,630.00	122.57	56.72	90.19	402.46	2,477.16	3,029.25	2,941.70	87.55	34.599	
11,200.00	7,618.00	9,749.70	7,630.00	122.39	56.43	90.19	302.46	2,476.82	3,029.25	2,941.52	87.73	34.529	
11,300.00	7,618.00	9,849.70	7,630.00	122.23	56.17	90.19	202.46	2,476.49	3,029.25	2,941.20	88.05	34.404	
11,400.00	7,618.00	9,949.70	7,630.00	122.07	55.93	90.19	102.46	2,476.15	3,029.25	2,940.74	88.51	34.225	
11,500.00	7,618.00	10,049.70	7,630.00	121.93	55.72	90.19	2.46	2,475.81	3,029.25	2,940.14	89.11	33.995	
11,600.00	7,618.00	10,149.70	7,630.00	121.79	55.53	90.19	-97.54	2,475.48	3,029.25	2,939.41	89.85	33.716	
11,700.00	7,618.00	10,249.70	7,630.00	121.67	55.38	90.19	-197.54	2,475.14	3,029.25	2,938.54	90.71	33.394	
11,800.00	7,618.00	10,349.70	7,630.00	121.56	55.26	90.19	-297.53	2,474.80	3,029.25	2,937.54	91.71	33.031	
11,900.00	7,618.00	10,449.70	7,630.00	121.46	55.18	90.19	-397.53	2,474.47	3,029.25	2,936.42	92.83	32.632	
12,000.00	7,618.00	10,549.70	7,630.00	121.38	55.14	90.19	-497.53	2,474.13	3,029.25	2,935.18	94.07	32.202	
12,100.00	7,618.00	10,649.70	7,630.00	121.30	55.15	90.19	-597.53	2,473.79	3,029.25	2,933.82	95.43	31.744	
12,200.00	7,618.00	10,749.70	7,630.00	121.24	55.22	90.19	-697.53	2,473.46	3,029.25	2,932.36	96.89	31.264	
12,300.00	7,618.00	10,849.70	7,630.00	121.19	55.36	90.19	-797.53	2,473.12	3,029.25	2,930.79	98.46	30.765	
12,400.00	7,618.00	10,949.70	7,630.00	121.16	55.59	90.19	-897.53	2,472.78	3,029.25	2,929.12	100.13	30.252	
12,500.00	7,618.00	11,049.70	7,630.00	121.14	55.91	90.19	-997.53	2,472.44	3,029.25	2,927.35	101.90	29.728	
12,600.00	7,618.00	11,149.70	7,630.00	121.13	56.34	90.19	-1,097.53	2,472.11	3,029.25	2,925.50	103.75	29.197	
12,700.00	7,618.00	11,249.70	7,630.00	121.13	56.88	90.19	-1,197.53	2,471.77	3,029.25	2,923.56	105.69	28.661	
12,800.00	7,618.00	11,349.70	7,630.00	121.15	57.53	90.19	-1,297.53	2,471.43	3,029.25	2,921.54	107.71	28.123	
12,900.00	7,618.00	11,449.70	7,630.00	121.18	58.30	90.19	-1,397.53	2,471.10	3,029.25	2,919.44	109.81	27.586	
13,000.00	7,618.00	11,549.70	7,630.00	121.23	59.16	90.19	-1,497.53	2,470.76	3,029.25	2,917.27	111.98	27.052	
13,100.00	7,618.00	11,649.70	7,630.00	121.29	60.11	90.19	-1,597.53	2,470.42	3,029.25	2,915.03	114.22	26.522	
13,200.00	7,618.00	11,749.70	7,630.00	121.37	61.13	90.19	-1,697.53	2,470.09	3,029.25	2,912.73	116.52	25.998	
13,300.00	7,618.00	11,849.70	7,630.00	121.46	62.22	90.19	-1,797.53	2,469.75	3,029.25	2,910.37	118.88	25.482	
13,400.00	7,618.00	11,949.70	7,630.00	121.57	63.36	90.19	-1,897.53	2,469.41	3,029.25	2,907.96	121.29	24.974	
13,500.00	7,618.00	12,049.70	7,630.00	121.70	64.55	90.19	-1,997.53	2,469.08	3,029.25	2,905.49	123.76	24.476	
13,600.00	7,618.00	12,149.70	7,630.00	121.84	65.77	90.19	-2,097.52	2,468.74	3,029.25	2,902.96	126.29	23.987	
13,700.00	7,618.00	12,249.70	7,630.00	122.01	67.04	90.19	-2,197.52	2,468.40	3,029.25	2,900.40	128.85	23.509	
13,800.00	7,618.00	12,349.70	7,630.00	122.19	68.33	90.19	-2,297.52	2,468.07	3,029.25	2,897.78	131.47	23.042	
13,900.00	7,618.00	12,449.70	7,630.00	122.39	69.65	90.19	-2,397.52	2,467.73	3,029.25	2,895.13	134.12	22.586	
14,000.00	7,618.00	12,549.70	7,630.00	122.62	71.00	90.19	-2,497.52	2,467.39	3,029.25	2,892.44	136.81	22.141	
14,100.00	7,618.00	12,649.70	7,630.00	122.86	72.36	90.19	-2,597.52	2,467.06	3,029.25	2,889.71	139.54	21.708	
14,200.00	7,618.00	12,749.70	7,630.00	123.12	73.75	90.19	-2,697.52	2,466.72	3,029.25	2,886.94	142.31	21.286	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	12,849.70	7,630.00	123.41	75.15	90.19	-2,797.52	2,466.38	3,029.25	2,884.14	145.11	20.876	
14,400.00	7,618.00	12,949.70	7,630.00	123.72	76.57	90.19	-2,897.52	2,466.05	3,029.25	2,881.31	147.94	20.476	
14,500.00	7,618.00	13,049.70	7,630.00	124.06	78.01	90.19	-2,997.52	2,465.71	3,029.25	2,878.45	150.80	20.088	
14,600.00	7,618.00	13,149.70	7,630.00	124.42	79.46	90.19	-3,097.52	2,465.37	3,029.25	2,875.56	153.69	19.710	
14,700.00	7,618.00	13,249.70	7,630.00	124.80	80.92	90.19	-3,197.52	2,465.03	3,029.25	2,872.65	156.60	19.344	
14,800.00	7,618.00	13,349.70	7,630.00	125.21	82.40	90.19	-3,297.52	2,464.70	3,029.25	2,869.71	159.54	18.987	
14,900.00	7,618.00	13,449.70	7,630.00	125.65	83.88	90.19	-3,397.52	2,464.36	3,029.25	2,866.74	162.50	18.641	
15,000.00	7,618.00	13,549.70	7,630.00	126.11	85.38	90.19	-3,497.52	2,464.02	3,029.25	2,863.76	165.49	18.305	
15,100.00	7,618.00	13,649.70	7,630.00	126.61	86.89	90.19	-3,597.52	2,463.69	3,029.25	2,860.75	168.50	17.978	
15,200.00	7,618.00	13,749.70	7,630.00	127.13	88.40	90.19	-3,697.52	2,463.35	3,029.25	2,857.73	171.52	17.661	
15,300.00	7,618.00	13,849.70	7,630.00	127.68	89.93	90.19	-3,797.52	2,463.01	3,029.25	2,854.68	174.57	17.353	
15,400.00	7,618.00	13,949.70	7,630.00	128.26	91.46	90.19	-3,897.51	2,462.68	3,029.25	2,851.62	177.63	17.054	
15,500.00	7,618.00	14,049.70	7,630.00	128.87	93.00	90.19	-3,997.51	2,462.34	3,029.25	2,848.54	180.71	16.763	
15,600.00	7,618.00	14,149.70	7,630.00	129.51	94.55	90.19	-4,097.51	2,462.00	3,029.25	2,845.44	183.81	16.481	
15,700.00	7,618.00	14,249.70	7,630.00	130.18	96.11	90.19	-4,197.51	2,461.67	3,029.25	2,842.33	186.92	16.206	
15,800.00	7,618.00	14,349.70	7,630.00	130.88	97.67	90.19	-4,297.51	2,461.33	3,029.25	2,839.20	190.05	15.940	
15,900.00	7,618.00	14,449.70	7,630.00	131.61	99.24	90.19	-4,397.51	2,460.99	3,029.25	2,836.06	193.19	15.680	
16,000.00	7,618.00	14,549.70	7,630.00	132.37	100.82	90.19	-4,497.51	2,460.66	3,029.25	2,832.91	196.34	15.429	
16,100.00	7,618.00	14,649.70	7,630.00	133.17	102.40	90.19	-4,597.51	2,460.32	3,029.25	2,829.74	199.51	15.184	
16,200.00	7,618.00	14,749.70	7,630.00	133.99	103.98	90.19	-4,697.51	2,459.98	3,029.25	2,826.56	202.69	14.946	
16,300.00	7,618.00	14,849.70	7,630.00	134.84	105.58	90.19	-4,797.51	2,459.65	3,029.25	2,823.37	205.88	14.714	
16,400.00	7,618.00	14,949.70	7,630.00	135.72	107.17	90.19	-4,897.51	2,459.31	3,029.25	2,820.17	209.08	14.489	
16,500.00	7,618.00	15,049.70	7,630.00	136.63	108.78	90.19	-4,997.51	2,458.97	3,029.25	2,816.96	212.29	14.269	
16,600.00	7,618.00	15,149.70	7,630.00	137.57	110.38	90.19	-5,097.51	2,458.64	3,029.25	2,813.74	215.51	14.056	
16,700.00	7,618.00	15,249.70	7,630.00	138.54	111.99	90.19	-5,197.51	2,458.30	3,029.25	2,810.50	218.74	13.848	
16,800.00	7,618.00	15,349.70	7,630.00	139.53	113.61	90.19	-5,297.51	2,457.96	3,029.25	2,807.26	221.98	13.646	
16,900.00	7,618.00	15,449.70	7,630.00	140.55	115.23	90.19	-5,397.51	2,457.62	3,029.25	2,804.01	225.23	13.449	
17,000.00	7,618.00	15,549.70	7,630.00	141.60	116.85	90.19	-5,497.51	2,457.29	3,029.25	2,800.76	228.49	13.258	
17,100.00	7,618.00	15,649.70	7,630.00	142.67	118.48	90.19	-5,597.50	2,456.95	3,029.25	2,797.49	231.76	13.071	
17,200.00	7,618.00	15,749.70	7,630.00	143.77	120.11	90.19	-5,697.50	2,456.61	3,029.25	2,794.22	235.03	12.889	
17,300.00	7,618.00	15,849.70	7,630.00	144.88	121.75	90.19	-5,797.50	2,456.28	3,029.25	2,790.93	238.31	12.711	
17,400.00	7,618.00	15,949.70	7,630.00	146.02	123.39	90.19	-5,897.50	2,455.94	3,029.25	2,787.65	241.60	12.538	
17,500.00	7,618.00	16,049.70	7,630.00	147.19	125.03	90.19	-5,997.50	2,455.60	3,029.25	2,784.35	244.90	12.369	
17,600.00	7,618.00	16,149.70	7,630.00	148.37	126.67	90.19	-6,097.50	2,455.27	3,029.25	2,781.05	248.20	12.205	
17,700.00	7,618.00	16,249.70	7,630.00	149.57	128.32	90.19	-6,197.50	2,454.93	3,029.25	2,777.74	251.51	12.044	
17,800.00	7,618.00	16,349.70	7,630.00	150.79	129.97	90.19	-6,297.50	2,454.59	3,029.25	2,774.43	254.82	11.888	
17,900.00	7,618.00	16,449.70	7,630.00	152.03	131.62	90.19	-6,397.50	2,454.26	3,029.25	2,771.11	258.14	11.735	
18,000.00	7,618.00	16,549.70	7,630.00	153.29	133.28	90.19	-6,497.50	2,453.92	3,029.25	2,767.78	261.47	11.586	
18,100.00	7,618.00	16,649.70	7,630.00	154.57	134.94	90.19	-6,597.50	2,453.58	3,029.25	2,764.45	264.80	11.440	
18,200.00	7,618.00	16,749.70	7,630.00	155.86	136.60	90.19	-6,697.50	2,453.25	3,029.25	2,761.11	268.13	11.297	
18,300.00	7,618.00	16,849.70	7,630.00	157.17	138.26	90.19	-6,797.50	2,452.91	3,029.25	2,757.77	271.48	11.158	
18,400.00	7,618.00	16,949.70	7,630.00	158.49	139.93	90.19	-6,897.50	2,452.57	3,029.25	2,754.42	274.82	11.023	
18,500.00	7,618.00	17,049.70	7,630.00	159.82	141.60	90.19	-6,997.50	2,452.24	3,029.25	2,751.07	278.17	10.890	
18,600.00	7,618.00	17,149.70	7,630.00	161.17	143.27	90.19	-7,097.50	2,451.90	3,029.25	2,747.72	281.53	10.760	
18,700.00	7,618.00	17,249.70	7,630.00	162.54	144.94	90.19	-7,197.50	2,451.56	3,029.25	2,744.36	284.89	10.633	
18,800.00	7,618.00	17,349.70	7,630.00	163.91	146.61	90.19	-7,297.50	2,451.23	3,029.25	2,740.99	288.25	10.509	
18,900.00	7,618.00	17,449.70	7,630.00	165.30	148.29	90.19	-7,397.49	2,450.89	3,029.25	2,737.63	291.62	10.388	
19,000.00	7,618.00	17,549.70	7,630.00	166.70	149.97	90.19	-7,497.49	2,450.55	3,029.25	2,734.26	294.99	10.269	
19,100.00	7,618.00	17,649.70	7,630.00	168.10	151.65	90.19	-7,597.49	2,450.22	3,029.25	2,730.88	298.37	10.153	
19,200.00	7,618.00	17,749.70	7,630.00	169.52	153.33	90.19	-7,697.49	2,449.88	3,029.25	2,727.50	301.74	10.039	
19,300.00	7,618.00	17,849.70	7,630.00	170.95	155.01	90.19	-7,797.49	2,449.54	3,029.25	2,724.12	305.13	9.928	
19,400.00	7,618.00	17,949.70	7,630.00	172.39	156.70	90.19	-7,897.49	2,449.20	3,029.25	2,720.73	308.51	9.819	

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			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
19,500.00	7,618.00	18,049.70	7,630.00	173.84	158.39	90.19	-7,997.49	2,448.87	3,029.25	2,717.34	311.90	9.712	
19,600.00	7,618.00	18,149.70	7,630.00	175.30	160.07	90.19	-8,097.49	2,448.53	3,029.25	2,713.95	315.30	9.608	
19,700.00	7,618.00	18,249.70	7,630.00	176.76	161.77	90.19	-8,197.49	2,448.19	3,029.24	2,710.55	318.69	9.505	
19,800.00	7,618.00	18,349.70	7,630.00	178.24	163.46	90.19	-8,297.49	2,447.86	3,029.24	2,707.16	322.09	9.405	
19,896.19	7,618.00	18,445.89	7,630.00	179.66	165.09	90.19	-8,393.68	2,447.53	3,029.24	2,703.88	325.36	9.310	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	2.00	2.00	0.00	0.00	-89.74	0.36	-79.80	79.80				
100.00	100.00	102.00	102.00	0.13	0.14	-89.74	0.36	-79.80	79.80	79.53	0.28	289.112	
200.00	200.00	202.00	202.00	0.49	0.50	-89.74	0.36	-79.80	79.80	78.81	0.99	80.367	CC, ES
300.00	299.98	301.98	301.98	0.85	0.86	-159.48	0.36	-79.80	81.43	79.73	1.71	47.718	
400.00	399.84	401.84	401.84	1.21	1.22	-160.67	0.36	-79.80	86.35	83.93	2.42	35.618	
500.00	499.45	501.45	501.45	1.58	1.57	-162.36	0.36	-79.80	94.62	91.48	3.15	30.077	
600.00	598.70	600.70	600.70	1.97	1.93	-164.29	0.36	-79.80	106.31	102.44	3.87	27.470	
700.00	697.47	700.53	699.47	2.38	2.29	-166.21	0.36	-79.80	121.45	116.85	4.60	26.407	
800.00	795.62	802.38	797.62	2.83	2.65	-167.99	0.36	-79.80	140.07	134.73	5.34	26.236	
900.00	893.06	904.94	895.06	3.31	3.02	-169.56	0.36	-79.80	162.15	156.07	6.08	26.651	
1,000.00	989.64	991.64	991.64	3.83	3.33	-170.91	0.36	-79.80	187.69	180.91	6.78	27.697	
1,100.00	1,085.27	1,093.80	1,093.78	4.40	3.69	-171.96	1.25	-78.55	215.31	207.78	7.52	28.613	
1,200.00	1,179.82	1,197.52	1,197.36	5.02	4.06	-172.55	4.31	-74.25	243.10	234.82	8.28	29.357	
1,300.00	1,273.17	1,302.28	1,301.72	5.70	4.44	-172.81	9.59	-66.81	271.00	261.95	9.05	29.953	
1,400.00	1,365.21	1,408.09	1,406.71	6.43	4.83	-172.82	17.16	-56.14	298.94	289.11	9.83	30.425	
1,500.00	1,455.84	1,514.97	1,512.20	7.23	5.24	-172.63	27.09	-42.16	326.88	316.27	10.62	30.783	
1,600.00	1,544.94	1,622.92	1,618.02	8.09	5.67	-172.30	39.42	-24.80	354.81	343.38	11.43	31.051	
1,700.00	1,632.39	1,731.96	1,724.02	9.01	6.14	-171.85	54.21	-3.97	382.69	370.44	12.26	31.226	
1,800.00	1,718.11	1,842.08	1,830.01	10.00	6.66	-171.29	71.50	20.38	410.50	397.39	13.11	31.314	
1,900.00	1,801.97	1,953.30	1,935.81	11.07	7.22	-170.65	91.35	48.33	438.22	424.23	13.99	31.319	
2,000.00	1,883.88	2,065.62	2,041.22	12.20	7.85	-169.94	113.80	79.94	465.83	450.92	14.91	31.240	
2,100.00	1,963.74	2,179.05	2,146.04	13.41	8.54	-169.16	138.87	115.25	493.32	477.44	15.87	31.077	
2,200.00	2,041.45	2,293.58	2,250.06	14.69	9.31	-168.33	166.60	154.30	520.65	503.76	16.89	30.827	
2,300.00	2,116.92	2,409.20	2,353.06	16.05	10.17	-167.44	197.02	197.14	547.83	529.86	17.97	30.488	
2,357.48	2,159.25	2,476.16	2,411.70	16.86	10.70	-166.91	215.73	223.49	563.37	544.75	18.62	30.250	
2,400.00	2,190.27	2,524.80	2,453.82	17.47	11.10	-166.56	229.81	243.32	574.53	555.41	19.12	30.047	
2,500.00	2,263.22	2,621.20	2,536.98	18.92	11.93	-165.89	258.04	283.08	600.28	579.97	20.31	29.555	
2,600.00	2,336.18	2,717.60	2,620.14	20.37	12.78	-165.27	286.27	322.83	626.10	604.57	21.53	29.076	
2,700.00	2,409.14	2,814.00	2,703.29	21.84	13.64	-164.70	314.51	362.59	651.98	629.20	22.79	28.613	
2,800.00	2,482.09	2,910.39	2,786.45	23.31	14.52	-164.17	342.74	402.34	677.92	653.85	24.07	28.168	
2,900.00	2,555.05	3,006.79	2,869.60	24.78	15.41	-163.69	370.97	442.10	703.91	678.54	25.37	27.744	
3,000.00	2,628.01	3,103.19	2,952.76	26.27	16.31	-163.24	399.20	481.86	729.94	703.24	26.70	27.340	
3,100.00	2,700.96	3,200.41	3,035.92	27.75	17.23	-162.81	427.43	521.61	756.01	727.96	28.05	26.952	
3,200.00	2,773.92	3,295.98	3,119.07	29.24	18.13	-162.42	455.66	561.37	782.11	752.70	29.41	26.594	
3,300.00	2,846.88	3,392.38	3,202.23	30.73	19.05	-162.05	483.89	601.13	808.25	777.46	30.79	26.251	
3,400.00	2,919.83	3,488.78	3,285.38	32.23	19.98	-161.71	512.12	640.88	834.42	802.23	32.18	25.926	
3,500.00	2,992.79	3,585.18	3,368.54	33.72	20.91	-161.38	540.35	680.64	860.61	827.02	33.59	25.619	
3,600.00	3,065.75	3,681.57	3,451.70	35.22	21.84	-161.08	568.58	720.39	886.83	851.82	35.01	25.329	
3,700.00	3,138.71	3,777.97	3,534.85	36.72	22.78	-160.79	596.81	760.15	913.07	876.63	36.44	25.055	
3,800.00	3,211.66	3,874.37	3,618.01	38.22	23.72	-160.52	625.04	799.91	939.33	901.45	37.88	24.796	
3,900.00	3,284.62	3,970.77	3,701.16	39.72	24.66	-160.26	653.28	839.66	965.61	926.28	39.33	24.550	
4,000.00	3,357.58	4,067.16	3,784.32	41.22	25.61	-160.02	681.51	879.42	991.91	951.12	40.79	24.317	
4,100.00	3,430.53	4,163.56	3,867.48	42.73	26.55	-159.79	709.74	919.17	1,018.22	975.96	42.26	24.097	
4,200.00	3,503.49	4,259.96	3,950.63	44.23	27.50	-159.57	737.97	958.93	1,044.55	1,000.82	43.73	23.887	
4,300.00	3,576.45	4,356.35	4,033.79	45.74	28.45	-159.36	766.20	998.69	1,070.89	1,025.68	45.21	23.689	
4,400.00	3,649.40	4,452.75	4,116.95	47.25	29.40	-159.17	794.43	1,038.44	1,097.24	1,050.55	46.69	23.500	
4,500.00	3,722.36	4,549.15	4,200.10	48.75	30.36	-158.98	822.66	1,078.20	1,123.60	1,075.42	48.18	23.320	
4,600.00	3,795.32	4,645.55	4,283.26	50.26	31.31	-158.80	850.89	1,117.95	1,149.98	1,100.30	49.68	23.149	
4,700.00	3,868.27	4,741.94	4,366.41	51.77	32.27	-158.63	879.12	1,157.71	1,176.36	1,125.19	51.18	22.986	
4,800.00	3,941.23	4,838.34	4,449.57	53.28	33.22	-158.46	907.35	1,197.47	1,202.76	1,150.08	52.68	22.831	
4,900.00	4,014.19	4,934.74	4,532.73	54.79	34.18	-158.30	935.58	1,237.22	1,229.16	1,174.97	54.19	22.682	
5,000.00	4,087.15	5,031.14	4,615.88	56.30	35.14	-158.15	963.81	1,276.98	1,255.57	1,199.87	55.70	22.541	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	5,127.53	4,699.04	57.81	36.10	-158.01	992.05	1,316.74	1,281.99	1,224.77	57.22	22.405	
5,200.00	4,233.06	5,223.93	4,782.19	59.32	37.06	-157.87	1,020.28	1,356.49	1,308.42	1,249.68	58.74	22.275	
5,300.00	4,306.02	5,320.33	4,865.35	60.83	38.02	-157.74	1,048.51	1,396.25	1,334.85	1,274.59	60.26	22.151	
5,400.00	4,378.97	5,416.73	4,948.51	62.34	38.98	-157.61	1,076.74	1,436.00	1,361.29	1,299.51	61.79	22.032	
5,500.00	4,451.93	5,513.12	5,031.66	63.85	39.94	-157.48	1,104.97	1,475.76	1,387.74	1,324.42	63.31	21.918	
5,600.00	4,524.89	5,609.52	5,114.82	65.36	40.90	-157.37	1,133.20	1,515.52	1,414.19	1,349.34	64.85	21.808	
5,700.00	4,597.84	5,705.92	5,197.97	66.88	41.87	-157.25	1,161.43	1,555.27	1,440.65	1,374.27	66.38	21.703	
5,800.00	4,670.80	5,802.32	5,281.13	68.39	42.83	-157.14	1,189.66	1,595.03	1,467.11	1,399.20	67.92	21.602	
5,900.00	4,743.76	5,898.71	5,364.29	69.90	43.79	-157.03	1,217.89	1,634.78	1,493.58	1,424.12	69.45	21.505	
6,000.00	4,816.71	6,004.89	5,447.44	71.41	44.86	-156.93	1,246.12	1,674.54	1,520.05	1,448.99	71.06	21.391	
6,100.00	4,889.67	6,108.49	5,530.60	72.93	45.89	-156.83	1,274.35	1,714.30	1,546.53	1,473.87	72.65	21.286	
6,200.00	4,962.63	6,187.90	5,613.75	74.44	46.69	-156.74	1,302.58	1,754.05	1,573.01	1,498.93	74.08	21.234	
6,300.00	5,035.59	6,284.30	5,696.91	75.95	47.65	-156.64	1,330.81	1,793.81	1,599.49	1,523.87	75.62	21.150	
6,400.00	5,108.54	6,380.70	5,780.07	77.47	48.62	-156.55	1,359.05	1,833.56	1,625.98	1,548.81	77.17	21.070	
6,500.00	5,181.50	6,477.10	5,863.22	78.98	49.58	-156.47	1,387.28	1,873.32	1,652.47	1,573.75	78.72	20.992	
6,600.00	5,254.46	6,573.49	5,946.38	80.49	50.55	-156.38	1,415.51	1,913.08	1,678.97	1,598.70	80.27	20.916	
6,700.00	5,327.41	6,669.89	6,029.53	82.01	51.52	-156.30	1,443.74	1,952.83	1,705.47	1,623.64	81.82	20.843	
6,800.00	5,400.37	6,766.29	6,112.69	83.52	52.48	-156.22	1,471.97	1,992.59	1,731.97	1,648.59	83.38	20.773	
6,900.00	5,473.33	6,862.69	6,195.85	85.04	53.45	-156.15	1,500.20	2,032.35	1,758.47	1,673.54	84.93	20.705	
7,000.00	5,546.28	6,959.08	6,279.00	86.55	54.42	-156.07	1,528.43	2,072.10	1,784.98	1,698.49	86.49	20.639	
7,100.00	5,619.24	7,055.48	6,362.16	88.06	55.39	-156.00	1,556.66	2,111.86	1,811.49	1,723.45	88.04	20.575	
7,200.00	5,692.20	7,151.88	6,445.31	89.58	56.35	-155.93	1,584.89	2,151.61	1,838.00	1,748.40	89.60	20.513	
7,300.00	5,765.15	7,248.28	6,528.47	91.09	57.32	-155.86	1,613.12	2,191.37	1,864.52	1,773.36	91.16	20.453	
7,400.00	5,838.11	7,344.67	6,611.63	92.61	58.29	-155.80	1,641.35	2,231.13	1,891.03	1,798.31	92.72	20.395	
7,500.00	5,911.07	7,441.07	6,694.78	94.12	59.26	-155.73	1,669.58	2,270.88	1,917.55	1,823.27	94.28	20.339	
7,600.00	5,984.03	7,537.47	6,777.94	95.64	60.23	-155.67	1,697.82	2,310.64	1,944.08	1,848.23	95.84	20.284	
7,700.00	6,056.98	7,633.87	6,861.09	97.15	61.19	-155.61	1,726.05	2,350.39	1,970.60	1,873.19	97.41	20.231	
7,800.00	6,129.94	7,730.26	6,944.25	98.67	62.16	-155.55	1,754.28	2,390.15	1,997.13	1,898.16	98.97	20.179	
7,900.00	6,202.90	7,826.66	7,027.41	100.18	63.13	-155.49	1,782.51	2,429.91	2,023.66	1,923.12	100.53	20.129	
8,000.00	6,275.85	7,923.06	7,110.56	101.70	64.10	-155.44	1,810.74	2,469.66	2,050.19	1,948.08	102.10	20.080	
8,100.00	6,348.81	8,019.46	7,193.72	103.21	65.07	-155.38	1,838.97	2,509.42	2,076.72	1,973.05	103.67	20.033	
8,200.00	6,421.77	8,155.44	7,313.88	104.73	66.32	-155.71	1,864.89	2,566.82	2,102.41	1,997.43	104.98	20.026	
8,300.00	6,494.72	8,283.91	7,429.53	106.24	67.22	-156.80	1,860.00	2,621.96	2,126.49	2,021.83	104.65	20.320	
8,400.00	6,567.68	8,391.96	7,524.04	107.76	67.72	-158.26	1,833.88	2,666.94	2,150.05	2,046.70	103.34	20.805	
8,500.00	6,640.64	8,478.28	7,595.34	109.27	67.95	-159.73	1,799.17	2,700.84	2,174.37	2,072.61	101.76	21.367	
8,600.00	6,713.59	8,545.96	7,647.49	110.79	68.05	-161.05	1,763.90	2,725.59	2,200.47	2,100.21	100.26	21.947	
8,700.00	6,786.55	8,599.08	7,685.56	112.30	68.06	-162.18	1,731.59	2,743.64	2,229.06	2,130.12	98.94	22.529	
8,800.00	6,859.51	8,641.20	7,713.75	113.82	68.04	-163.12	1,703.29	2,756.98	2,260.53	2,162.75	97.78	23.119	
8,900.00	6,932.46	8,675.08	7,735.00	115.33	68.00	-163.90	1,678.91	2,767.04	2,295.11	2,198.38	96.73	23.727	
9,000.00	7,005.42	8,700.00	7,749.79	116.85	67.97	-164.49	1,660.11	2,774.03	2,332.87	2,237.03	95.83	24.343	
9,104.89	7,081.95	8,726.67	7,764.79	118.44	67.92	-165.14	1,639.22	2,781.11	2,375.89	2,281.11	94.78	25.068	
9,150.00	7,115.15	8,736.54	7,770.11	119.12	67.90	-172.31	1,631.30	2,783.62	2,395.40	2,301.03	94.38	25.381	
9,200.00	7,152.46	8,750.00	7,777.17	119.86	67.87	179.38	1,620.34	2,786.95	2,417.53	2,323.60	93.93	25.737	
9,250.00	7,190.04	8,761.64	7,783.09	120.57	67.84	170.95	1,610.71	2,789.74	2,439.97	2,346.37	93.60	26.067	
9,300.00	7,227.59	8,775.56	7,789.93	121.25	67.80	162.50	1,599.03	2,792.97	2,462.49	2,369.21	93.28	26.400	
9,350.00	7,264.83	8,800.00	7,801.32	121.89	67.74	154.10	1,578.08	2,798.33	2,484.93	2,392.20	92.73	26.798	
9,400.00	7,301.48	8,800.00	7,801.32	122.48	67.74	146.51	1,578.08	2,798.33	2,506.96	2,414.05	92.91	26.983	
9,450.00	7,337.26	8,821.48	7,810.66	123.01	67.68	139.07	1,559.24	2,802.72	2,528.46	2,435.90	92.56	27.316	
9,500.00	7,371.90	8,837.91	7,817.37	123.49	67.63	132.30	1,544.58	2,805.87	2,549.26	2,456.85	92.42	27.584	
9,550.00	7,405.13	8,850.00	7,822.06	123.91	67.59	126.22	1,533.66	2,808.07	2,569.18	2,476.72	92.46	27.787	
9,600.00	7,436.70	8,872.04	7,830.08	124.27	67.51	120.66	1,513.48	2,811.82	2,588.00	2,495.73	92.28	28.046	
9,650.00	7,466.36	8,900.00	7,839.23	124.57	67.41	115.70	1,487.41	2,816.10	2,605.68	2,513.70	91.98	28.329	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,700.00	7,493.91	8,900.00	7,839.23	124.81	67.41	111.58	1,487.41	2,816.10	2,621.92	2,529.33	92.59	28.316	
9,750.00	7,519.11	8,925.70	7,846.62	125.00	67.31	107.82	1,463.04	2,819.54	2,636.69	2,544.19	92.50	28.506	
9,800.00	7,541.79	8,950.00	7,852.69	125.12	67.22	104.63	1,439.68	2,822.36	2,649.90	2,557.40	92.50	28.647	
9,850.00	7,561.77	8,950.00	7,852.69	125.20	67.22	102.06	1,439.68	2,822.36	2,661.48	2,568.10	93.38	28.502	
9,900.00	7,578.90	8,981.37	7,859.20	125.23	67.08	99.82	1,409.15	2,825.36	2,671.14	2,577.85	93.29	28.632	
9,950.00	7,593.04	9,000.00	7,862.35	125.22	67.00	98.09	1,390.84	2,826.80	2,679.04	2,585.34	93.70	28.591	
10,000.00	7,604.09	9,019.15	7,865.03	125.17	66.92	96.79	1,371.91	2,828.02	2,685.04	2,590.87	94.17	28.513	
10,050.00	7,611.97	9,050.00	7,868.14	125.08	66.78	95.89	1,341.26	2,829.39	2,689.17	2,594.89	94.28	28.523	
10,100.00	7,616.61	9,050.00	7,868.14	124.97	66.78	95.42	1,341.26	2,829.39	2,691.22	2,595.63	95.59	28.155	
10,145.95	7,618.00	9,074.73	7,869.55	124.84	66.67	95.32	1,316.58	2,829.99	2,691.37	2,595.43	95.93	28.055	
10,200.00	7,618.00	9,098.65	7,870.00	124.69	66.55	95.33	1,292.67	2,830.12	2,690.93	2,594.37	96.56	27.869	
10,210.73	7,618.00	9,100.73	7,870.00	124.66	66.54	95.33	1,290.58	2,830.11	2,690.92	2,594.13	96.79	27.802	
10,300.00	7,618.00	9,210.00	7,870.00	124.41	66.04	95.33	1,201.31	2,829.81	2,690.92	2,595.05	95.86	28.070	
10,400.00	7,618.00	9,310.00	7,870.00	124.14	65.61	95.33	1,101.31	2,829.47	2,690.92	2,595.86	95.06	28.308	
10,500.00	7,618.00	9,410.00	7,870.00	123.88	65.20	95.33	1,001.31	2,829.13	2,690.92	2,596.54	94.38	28.512	
10,600.00	7,618.00	9,510.00	7,870.00	123.63	64.81	95.33	901.31	2,828.80	2,690.92	2,597.09	93.83	28.679	
10,700.00	7,618.00	9,610.00	7,870.00	123.40	64.44	95.33	801.31	2,828.46	2,690.92	2,597.51	93.41	28.807	
10,800.00	7,618.00	9,710.00	7,870.00	123.18	64.09	95.33	701.31	2,828.12	2,690.92	2,597.80	93.12	28.896	
10,900.00	7,618.00	9,810.00	7,870.00	122.96	63.77	95.33	601.31	2,827.78	2,690.92	2,597.95	92.97	28.943	
11,000.00	7,618.00	9,910.00	7,870.00	122.76	63.47	95.33	501.31	2,827.44	2,690.93	2,597.97	92.95	28.949	
11,100.00	7,618.00	10,010.00	7,870.00	122.57	63.19	95.33	401.32	2,827.11	2,690.93	2,597.85	93.07	28.912	
11,200.00	7,618.00	10,110.00	7,870.00	122.39	62.93	95.33	301.32	2,826.77	2,690.93	2,597.60	93.32	28.834	
11,300.00	7,618.00	10,210.00	7,870.00	122.23	62.69	95.33	201.32	2,826.43	2,690.93	2,597.22	93.71	28.716	
11,400.00	7,618.00	10,310.00	7,870.00	122.07	62.48	95.33	101.32	2,826.09	2,690.93	2,596.71	94.22	28.559	
11,500.00	7,618.00	10,410.00	7,870.00	121.93	62.29	95.33	1.32	2,825.75	2,690.93	2,596.06	94.87	28.365	
11,600.00	7,618.00	10,510.00	7,870.00	121.79	62.13	95.33	-98.68	2,825.42	2,690.93	2,595.29	95.64	28.137	
11,700.00	7,618.00	10,610.00	7,870.00	121.67	62.00	95.33	-198.68	2,825.08	2,690.93	2,594.40	96.53	27.876	
11,800.00	7,618.00	10,710.00	7,870.00	121.56	61.89	95.33	-298.68	2,824.74	2,690.93	2,593.39	97.55	27.586	
11,900.00	7,618.00	10,810.00	7,870.00	121.46	61.82	95.33	-398.68	2,824.40	2,690.94	2,592.26	98.67	27.271	
12,000.00	7,618.00	10,910.00	7,870.00	121.38	61.78	95.33	-498.68	2,824.06	2,690.94	2,591.02	99.92	26.932	
12,100.00	7,618.00	11,010.00	7,870.00	121.30	61.78	95.33	-598.68	2,823.73	2,690.94	2,589.67	101.26	26.573	
12,200.00	7,618.00	11,110.00	7,870.00	121.24	61.82	95.33	-698.68	2,823.39	2,690.94	2,588.22	102.72	26.198	
12,300.00	7,618.00	11,210.00	7,870.00	121.19	61.91	95.33	-798.68	2,823.05	2,690.94	2,586.67	104.27	25.808	
12,400.00	7,618.00	11,310.00	7,870.00	121.16	62.05	95.33	-898.68	2,822.71	2,690.94	2,585.03	105.91	25.408	
12,500.00	7,618.00	11,410.00	7,870.00	121.14	62.26	95.33	-998.68	2,822.37	2,690.94	2,583.30	107.64	24.998	
12,600.00	7,618.00	11,510.00	7,870.00	121.13	62.53	95.33	-1,098.68	2,822.04	2,690.94	2,581.48	109.47	24.583	
12,700.00	7,618.00	11,610.00	7,870.00	121.13	62.87	95.33	-1,198.68	2,821.70	2,690.94	2,579.58	111.37	24.163	
12,800.00	7,618.00	11,710.00	7,870.00	121.15	63.30	95.33	-1,298.67	2,821.36	2,690.95	2,577.60	113.35	23.741	
12,900.00	7,618.00	11,810.00	7,870.00	121.18	63.81	95.33	-1,398.67	2,821.02	2,690.95	2,575.55	115.40	23.319	
13,000.00	7,618.00	11,910.00	7,870.00	121.23	64.40	95.33	-1,498.67	2,820.68	2,690.95	2,573.43	117.52	22.898	
13,100.00	7,618.00	12,010.00	7,870.00	121.29	65.09	95.33	-1,598.67	2,820.35	2,690.95	2,571.24	119.71	22.480	
13,200.00	7,618.00	12,110.00	7,870.00	121.37	65.85	95.33	-1,698.67	2,820.01	2,690.95	2,568.99	121.96	22.065	
13,300.00	7,618.00	12,210.00	7,870.00	121.46	66.69	95.33	-1,798.67	2,819.67	2,690.95	2,566.69	124.26	21.655	
13,400.00	7,618.00	12,310.00	7,870.00	121.57	67.61	95.33	-1,898.67	2,819.33	2,690.95	2,564.33	126.63	21.251	
13,500.00	7,618.00	12,390.00	7,870.00	121.70	68.39	95.33	-1,998.67	2,818.99	2,690.95	2,562.17	128.78	20.895	
13,600.00	7,618.00	12,510.00	7,870.00	121.84	69.63	95.33	-2,098.67	2,818.66	2,690.95	2,559.45	131.51	20.462	
13,700.00	7,618.00	12,610.00	7,870.00	122.01	70.72	95.33	-2,198.67	2,818.32	2,690.96	2,556.93	134.02	20.078	
13,800.00	7,618.00	12,710.00	7,870.00	122.19	71.86	95.33	-2,298.67	2,817.98	2,690.96	2,554.38	136.58	19.702	
13,900.00	7,618.00	12,810.00	7,870.00	122.39	73.05	95.33	-2,398.67	2,817.64	2,690.96	2,551.78	139.18	19.335	
14,000.00	7,618.00	12,910.00	7,870.00	122.62	74.27	95.33	-2,498.67	2,817.30	2,690.96	2,549.14	141.82	18.975	
14,100.00	7,618.00	13,010.00	7,870.00	122.86	75.52	95.33	-2,598.67	2,816.96	2,690.96	2,546.47	144.49	18.623	
14,200.00	7,618.00	13,110.00	7,870.00	123.12	76.80	95.33	-2,698.67	2,816.63	2,690.96	2,543.76	147.20	18.280	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	13,210.00	7,870.00	123.41	78.11	95.33	-2,798.67	2,816.29	2,690.96	2,541.01	149.95	17.946	
14,400.00	7,618.00	13,310.00	7,870.00	123.72	79.45	95.33	-2,898.67	2,815.95	2,690.96	2,538.24	152.73	17.620	
14,500.00	7,618.00	13,410.00	7,870.00	124.06	80.80	95.33	-2,998.67	2,815.61	2,690.97	2,535.43	155.53	17.302	
14,600.00	7,618.00	13,510.00	7,870.00	124.42	82.18	95.33	-3,098.66	2,815.27	2,690.97	2,532.60	158.37	16.992	
14,700.00	7,618.00	13,610.00	7,870.00	124.80	83.57	95.33	-3,198.66	2,814.94	2,690.97	2,529.74	161.23	16.690	
14,800.00	7,618.00	13,710.00	7,870.00	125.21	84.98	95.33	-3,298.66	2,814.60	2,690.97	2,526.85	164.12	16.397	
14,900.00	7,618.00	13,810.00	7,870.00	125.65	86.41	95.33	-3,398.66	2,814.26	2,690.97	2,523.94	167.03	16.111	
15,000.00	7,618.00	13,910.00	7,870.00	126.11	87.85	95.33	-3,498.66	2,813.92	2,690.97	2,521.01	169.96	15.833	
15,100.00	7,618.00	14,010.00	7,870.00	126.61	89.31	95.33	-3,598.66	2,813.58	2,690.97	2,518.05	172.92	15.562	
15,200.00	7,618.00	14,110.00	7,870.00	127.13	90.77	95.33	-3,698.66	2,813.25	2,690.97	2,515.07	175.90	15.298	
15,300.00	7,618.00	14,210.00	7,870.00	127.68	92.25	95.33	-3,798.66	2,812.91	2,690.97	2,512.08	178.90	15.042	
15,400.00	7,618.00	14,310.00	7,870.00	128.26	93.74	95.33	-3,898.66	2,812.57	2,690.98	2,509.06	181.91	14.793	
15,500.00	7,618.00	14,410.00	7,870.00	128.87	95.24	95.33	-3,998.66	2,812.23	2,690.98	2,506.03	184.95	14.550	
15,600.00	7,618.00	14,490.00	7,870.00	129.51	96.45	95.33	-4,098.66	2,811.89	2,690.98	2,503.30	187.68	14.338	
15,700.00	7,618.00	14,590.00	7,870.00	130.18	97.96	95.33	-4,198.66	2,811.56	2,690.98	2,500.23	190.75	14.108	
15,800.00	7,618.00	14,710.00	7,870.00	130.88	99.79	95.33	-4,298.66	2,811.22	2,690.98	2,496.83	194.14	13.861	
15,900.00	7,618.00	14,810.00	7,870.00	131.61	101.33	95.33	-4,398.66	2,810.88	2,690.98	2,493.74	197.24	13.643	
16,000.00	7,618.00	14,890.00	7,870.00	132.37	102.56	95.33	-4,498.66	2,810.54	2,690.98	2,490.95	200.03	13.453	
16,100.00	7,618.00	15,010.00	7,870.00	133.17	104.42	95.33	-4,598.66	2,810.20	2,690.98	2,487.51	203.48	13.225	
16,200.00	7,618.00	15,110.00	7,870.00	133.99	105.97	95.33	-4,698.66	2,809.87	2,690.98	2,484.37	206.61	13.024	
16,300.00	7,618.00	15,210.00	7,870.00	134.84	107.54	95.33	-4,798.65	2,809.53	2,690.99	2,481.22	209.76	12.829	
16,400.00	7,618.00	15,310.00	7,870.00	135.72	109.10	95.33	-4,898.65	2,809.19	2,690.99	2,478.06	212.92	12.638	
16,500.00	7,618.00	15,410.00	7,870.00	136.63	110.68	95.33	-4,998.65	2,808.85	2,690.99	2,474.89	216.10	12.453	
16,600.00	7,618.00	15,510.00	7,870.00	137.57	112.26	95.33	-5,098.65	2,808.51	2,690.99	2,471.71	219.28	12.272	
16,700.00	7,618.00	15,610.00	7,870.00	138.54	113.84	95.33	-5,198.65	2,808.18	2,690.99	2,468.52	222.47	12.096	
16,800.00	7,618.00	15,710.00	7,870.00	139.53	115.43	95.33	-5,298.65	2,807.84	2,690.99	2,465.32	225.67	11.924	
16,900.00	7,618.00	15,810.00	7,870.00	140.55	117.03	95.33	-5,398.65	2,807.50	2,690.99	2,462.11	228.89	11.757	
17,000.00	7,618.00	15,910.00	7,870.00	141.60	118.63	95.33	-5,498.65	2,807.16	2,690.99	2,458.89	232.11	11.594	
17,100.00	7,618.00	16,010.00	7,870.00	142.67	120.24	95.33	-5,598.65	2,806.82	2,690.99	2,455.66	235.34	11.435	
17,200.00	7,618.00	16,110.00	7,870.00	143.77	121.84	95.33	-5,698.65	2,806.49	2,691.00	2,452.42	238.57	11.280	
17,300.00	7,618.00	16,190.00	7,870.00	144.88	123.13	95.33	-5,798.65	2,806.15	2,691.00	2,449.51	241.49	11.143	
17,400.00	7,618.00	16,310.00	7,870.00	146.02	125.07	95.33	-5,898.65	2,805.81	2,691.00	2,445.92	245.07	10.980	
17,500.00	7,618.00	16,410.00	7,870.00	147.19	126.70	95.33	-5,998.65	2,805.47	2,691.00	2,442.67	248.33	10.836	
17,600.00	7,618.00	16,510.00	7,870.00	148.37	128.32	95.33	-6,098.65	2,805.13	2,691.00	2,439.40	251.60	10.695	
17,700.00	7,618.00	16,610.00	7,870.00	149.57	129.95	95.33	-6,198.65	2,804.80	2,691.00	2,436.13	254.88	10.558	
17,800.00	7,618.00	16,710.00	7,870.00	150.79	131.58	95.33	-6,298.65	2,804.46	2,691.00	2,432.85	258.16	10.424	
17,900.00	7,618.00	16,810.00	7,870.00	152.03	133.22	95.33	-6,398.65	2,804.12	2,691.00	2,429.56	261.44	10.293	
18,000.00	7,618.00	16,910.00	7,870.00	153.29	134.85	95.33	-6,498.65	2,803.78	2,691.00	2,426.27	264.74	10.165	
18,100.00	7,618.00	17,010.00	7,870.00	154.57	136.49	95.33	-6,598.64	2,803.44	2,691.01	2,422.97	268.04	10.040	
18,200.00	7,618.00	17,110.00	7,870.00	155.86	138.14	95.33	-6,698.64	2,803.11	2,691.01	2,419.67	271.34	9.917	
18,300.00	7,618.00	17,210.00	7,870.00	157.17	139.79	95.33	-6,798.64	2,802.77	2,691.01	2,416.36	274.65	9.798	
18,400.00	7,618.00	17,310.00	7,870.00	158.49	141.44	95.33	-6,898.64	2,802.43	2,691.01	2,413.04	277.97	9.681	
18,500.00	7,618.00	17,390.00	7,870.00	159.82	142.76	95.33	-6,998.64	2,802.09	2,691.01	2,410.06	280.95	9.578	
18,600.00	7,618.00	17,510.00	7,870.00	161.17	144.74	95.33	-7,098.64	2,801.75	2,691.01	2,406.40	284.61	9.455	
18,700.00	7,618.00	17,610.00	7,870.00	162.54	146.40	95.33	-7,198.64	2,801.41	2,691.01	2,403.07	287.94	9.346	
18,800.00	7,618.00	17,710.00	7,870.00	163.91	148.06	95.33	-7,298.64	2,801.08	2,691.01	2,399.74	291.28	9.239	
18,900.00	7,618.00	17,810.00	7,870.00	165.30	149.72	95.33	-7,398.64	2,800.74	2,691.02	2,396.40	294.62	9.134	
19,000.00	7,618.00	17,910.00	7,870.00	166.70	151.39	95.33	-7,498.64	2,800.40	2,691.02	2,393.06	297.96	9.032	
19,100.00	7,618.00	18,010.00	7,870.00	168.10	153.05	95.33	-7,598.64	2,800.06	2,691.02	2,389.71	301.31	8.931	
19,200.00	7,618.00	18,110.00	7,870.00	169.52	154.72	95.33	-7,698.64	2,799.72	2,691.02	2,386.36	304.66	8.833	
19,300.00	7,618.00	18,210.00	7,870.00	170.95	156.39	95.33	-7,798.64	2,799.39	2,691.02	2,383.01	308.01	8.737	
19,400.00	7,618.00	18,310.00	7,870.00	172.39	158.06	95.33	-7,898.64	2,799.05	2,691.02	2,379.65	311.37	8.643	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,500.00	7,618.00	18,410.00	7,870.00	173.84	159.74	95.33	-7,998.64	2,798.71	2,691.02	2,376.29	314.73	8.550	
19,600.00	7,618.00	18,510.00	7,870.00	175.30	161.41	95.33	-8,098.64	2,798.37	2,691.02	2,372.93	318.10	8.460	
19,700.00	7,618.00	18,610.00	7,870.00	176.76	163.09	95.33	-8,198.64	2,798.03	2,691.02	2,369.56	321.47	8.371	
19,800.00	7,618.00	18,690.00	7,870.00	178.24	164.44	95.33	-8,298.63	2,797.70	2,691.03	2,366.53	324.50	8.293	
19,896.19	7,618.00	18,786.19	7,870.00	179.66	166.05	95.33	-8,394.82	2,797.37	2,691.03	2,363.28	327.75	8.211	SF

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore 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	-89.70	0.36	-70.00	70.00				
100.00	100.00	102.00	102.00	0.13	0.14	-89.70	0.36	-70.00	70.00	69.73	0.28	253.607	
200.00	200.00	202.00	202.00	0.49	0.50	-89.70	0.36	-70.00	70.00	69.01	0.99	70.497	CC, ES
300.00	299.98	301.98	301.98	0.85	0.86	-159.51	0.36	-70.00	71.63	69.93	1.71	41.975	
400.00	399.84	401.84	401.84	1.21	1.22	-160.85	0.36	-70.00	76.56	74.13	2.42	31.577	
500.00	499.45	501.45	501.45	1.58	1.57	-162.73	0.36	-70.00	84.84	81.69	3.15	26.967	
600.00	598.70	600.70	600.70	1.97	1.93	-164.81	0.36	-70.00	96.55	92.68	3.87	24.949	
700.00	697.47	700.53	699.47	2.38	2.29	-166.84	0.36	-70.00	111.73	107.13	4.60	24.295	
800.00	795.62	802.38	797.62	2.83	2.65	-168.68	0.36	-70.00	130.39	125.06	5.34	24.426	
900.00	893.06	895.06	895.06	3.31	2.98	-170.26	0.36	-70.00	152.53	146.48	6.05	25.219	
1,000.00	989.64	997.28	997.26	3.83	3.35	-171.47	1.26	-68.61	176.65	169.86	6.79	26.018	
1,100.00	1,085.27	1,100.67	1,100.51	4.40	3.71	-172.17	4.17	-64.10	200.91	193.37	7.54	26.658	
1,200.00	1,179.82	1,204.97	1,204.40	5.02	4.09	-172.51	9.15	-56.37	225.22	216.93	8.29	27.158	
1,300.00	1,273.17	1,310.20	1,308.80	5.70	4.48	-172.59	16.25	-45.36	249.56	240.50	9.06	27.546	
1,400.00	1,365.21	1,416.36	1,413.57	6.43	4.89	-172.47	25.51	-30.99	273.87	264.02	9.84	27.828	
1,500.00	1,455.84	1,523.46	1,518.55	7.23	5.32	-172.20	36.98	-13.21	298.13	287.49	10.63	28.034	
1,600.00	1,544.94	1,631.50	1,623.58	8.09	5.80	-171.81	50.69	8.07	322.31	310.86	11.45	28.155	
1,700.00	1,632.39	1,740.50	1,728.49	9.01	6.31	-171.31	66.69	32.89	346.40	334.12	12.28	28.202	
1,800.00	1,718.11	1,850.45	1,833.11	10.00	6.88	-170.74	85.01	61.30	370.37	357.23	13.14	28.178	
1,900.00	1,801.97	1,961.35	1,937.24	11.07	7.51	-170.09	105.68	93.36	394.21	380.17	14.04	28.083	
2,000.00	1,883.88	2,073.22	2,040.70	12.20	8.20	-169.38	128.73	129.11	417.89	402.92	14.97	27.917	
2,100.00	1,963.74	2,186.04	2,143.28	13.41	8.97	-168.62	154.16	168.56	441.41	425.46	15.95	27.680	
2,200.00	2,041.45	2,299.80	2,244.76	14.69	9.82	-167.80	182.01	211.76	464.73	447.75	16.98	27.371	
2,300.00	2,116.92	2,414.52	2,344.95	16.05	10.77	-166.95	212.28	258.71	487.85	469.77	18.08	26.985	
2,357.48	2,159.25	2,480.88	2,401.86	16.86	11.36	-166.44	230.78	287.40	501.04	482.30	18.74	26.731	
2,400.00	2,190.27	2,530.24	2,443.67	17.47	11.81	-166.09	244.99	309.45	510.45	491.20	19.25	26.514	
2,500.00	2,263.22	2,632.57	2,529.39	18.92	12.79	-165.33	275.27	356.41	531.09	510.59	20.50	25.902	
2,600.00	2,336.18	2,730.22	2,611.12	20.37	13.75	-164.65	304.23	401.33	551.70	529.90	21.80	25.311	
2,700.00	2,409.14	2,827.88	2,692.86	21.84	14.73	-164.03	333.18	446.25	572.37	549.24	23.13	24.751	
2,800.00	2,482.09	2,925.53	2,774.59	23.31	15.72	-163.44	362.14	491.16	593.10	568.62	24.48	24.223	
2,900.00	2,555.05	3,023.18	2,856.33	24.78	16.72	-162.90	391.10	536.08	613.89	588.02	25.87	23.727	
3,000.00	2,628.01	3,120.84	2,938.06	26.27	17.73	-162.39	420.05	580.99	634.73	607.44	27.29	23.261	
3,100.00	2,700.96	3,218.49	3,019.79	27.75	18.75	-161.92	449.01	625.91	655.61	626.89	28.72	22.824	
3,200.00	2,773.92	3,316.15	3,101.53	29.24	19.78	-161.47	477.97	670.82	676.54	646.36	30.18	22.415	
3,300.00	2,846.88	3,413.80	3,183.26	30.73	20.81	-161.05	506.92	715.74	697.50	665.84	31.66	22.031	
3,400.00	2,919.83	3,511.46	3,265.00	32.23	21.85	-160.66	535.88	760.66	718.50	685.34	33.15	21.672	
3,500.00	2,992.79	3,609.11	3,346.73	33.72	22.89	-160.28	564.84	805.57	739.52	704.86	34.66	21.334	
3,600.00	3,065.75	3,706.76	3,428.46	35.22	23.94	-159.93	593.79	850.49	760.58	724.39	36.19	21.017	
3,700.00	3,138.71	3,804.42	3,510.20	36.72	24.99	-159.60	622.75	895.40	781.66	743.93	37.73	20.720	
3,800.00	3,211.66	3,902.07	3,591.93	38.22	26.04	-159.28	651.71	940.32	802.76	763.49	39.27	20.440	
3,900.00	3,284.62	4,000.27	3,673.67	39.72	27.10	-158.98	680.66	985.24	823.89	783.05	40.84	20.174	
4,000.00	3,357.58	4,097.38	3,755.40	41.22	28.15	-158.70	709.62	1,030.15	845.03	802.63	42.40	19.928	
4,100.00	3,430.53	4,195.04	3,837.13	42.73	29.21	-158.43	738.58	1,075.07	866.20	822.21	43.98	19.693	
4,200.00	3,503.49	4,307.31	3,918.87	44.23	30.43	-158.17	767.53	1,119.98	887.38	841.71	45.68	19.428	
4,300.00	3,576.45	4,409.65	4,000.60	45.74	31.54	-157.92	796.49	1,164.90	908.58	861.28	47.31	19.207	
4,400.00	3,649.40	4,488.00	4,082.34	47.25	32.39	-157.69	825.45	1,209.81	929.80	881.02	48.77	19.064	
4,500.00	3,722.36	4,585.65	4,164.07	48.75	33.46	-157.47	854.40	1,254.73	951.03	900.64	50.38	18.876	
4,600.00	3,795.32	4,683.31	4,245.80	50.26	34.52	-157.25	883.36	1,299.65	972.27	920.27	52.00	18.698	
4,700.00	3,868.27	4,780.96	4,327.54	51.77	35.59	-157.05	912.32	1,344.56	993.52	939.90	53.62	18.529	
4,800.00	3,941.23	4,878.62	4,409.27	53.28	36.66	-156.85	941.27	1,389.48	1,014.79	959.54	55.25	18.368	
4,900.00	4,014.19	4,976.27	4,491.01	54.79	37.73	-156.66	970.23	1,434.39	1,036.07	979.19	56.88	18.215	
5,000.00	4,087.15	5,073.93	4,572.74	56.30	38.80	-156.48	999.19	1,479.31	1,057.36	998.84	58.52	18.069	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore 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	4,160.10	5,171.58	4,654.47	57.81	39.87	-156.31	1,028.14	1,524.23	1,078.65	1,018.49	60.16	17.929	
5,200.00	4,233.06	5,269.23	4,736.21	59.32	40.94	-156.14	1,057.10	1,569.14	1,099.96	1,038.15	61.81	17.797	
5,300.00	4,306.02	5,366.89	4,817.94	60.83	42.01	-155.98	1,086.06	1,614.06	1,121.27	1,057.82	63.46	17.670	
5,400.00	4,378.97	5,464.54	4,899.68	62.34	43.08	-155.82	1,115.01	1,658.97	1,142.60	1,077.49	65.11	17.548	
5,500.00	4,451.93	5,562.20	4,981.41	63.85	44.16	-155.67	1,143.97	1,703.89	1,163.93	1,097.16	66.77	17.432	
5,600.00	4,524.89	5,659.85	5,063.15	65.36	45.23	-155.53	1,172.93	1,748.80	1,185.27	1,116.84	68.43	17.321	
5,700.00	4,597.84	5,757.51	5,144.88	66.88	46.30	-155.39	1,201.88	1,793.72	1,206.61	1,136.52	70.09	17.214	
5,800.00	4,670.80	5,855.16	5,226.61	68.39	47.38	-155.26	1,230.84	1,838.64	1,227.96	1,156.20	71.76	17.112	
5,900.00	4,743.76	5,952.82	5,308.35	69.90	48.45	-155.13	1,259.80	1,883.55	1,249.32	1,175.89	73.43	17.014	
6,000.00	4,816.71	6,050.47	5,390.08	71.41	49.53	-155.00	1,288.75	1,928.47	1,270.69	1,195.58	75.10	16.920	
6,100.00	4,889.67	6,148.12	5,471.82	72.93	50.60	-154.88	1,317.71	1,973.38	1,292.06	1,215.28	76.78	16.829	
6,200.00	4,962.63	6,245.78	5,553.55	74.44	51.68	-154.77	1,346.67	2,018.30	1,313.43	1,234.98	78.45	16.742	
6,300.00	5,035.59	6,343.43	5,635.28	75.95	52.75	-154.65	1,375.62	2,063.22	1,334.81	1,254.68	80.13	16.658	
6,400.00	5,108.54	6,441.09	5,717.02	77.47	53.83	-154.54	1,404.58	2,108.13	1,356.20	1,274.38	81.81	16.577	
6,500.00	5,181.50	6,538.74	5,798.75	78.98	54.91	-154.44	1,433.54	2,153.05	1,377.58	1,294.09	83.50	16.499	
6,600.00	5,254.46	6,636.40	5,880.49	80.49	55.98	-154.33	1,462.49	2,197.96	1,398.98	1,313.80	85.18	16.423	
6,700.00	5,327.41	6,734.05	5,962.22	82.01	57.06	-154.23	1,491.45	2,242.88	1,420.38	1,333.51	86.87	16.351	
6,800.00	5,400.37	6,831.70	6,043.95	83.52	58.14	-154.14	1,520.41	2,287.79	1,441.78	1,353.22	88.56	16.281	
6,900.00	5,473.33	6,929.36	6,125.69	85.04	59.21	-154.04	1,549.36	2,332.71	1,463.18	1,372.94	90.25	16.213	
7,000.00	5,546.28	7,027.01	6,207.42	86.55	60.29	-153.95	1,578.32	2,377.63	1,484.59	1,392.65	91.94	16.147	
7,100.00	5,619.24	7,124.67	6,289.16	88.06	61.37	-153.86	1,607.28	2,422.54	1,506.00	1,412.37	93.63	16.084	
7,200.00	5,692.20	7,222.32	6,370.89	89.58	62.45	-153.78	1,636.23	2,467.46	1,527.42	1,432.09	95.33	16.023	
7,300.00	5,765.15	7,319.98	6,452.62	91.09	63.53	-153.69	1,665.19	2,512.37	1,548.84	1,451.82	97.02	15.963	
7,400.00	5,838.11	7,417.63	6,534.36	92.61	64.61	-153.61	1,694.15	2,557.29	1,570.26	1,471.54	98.72	15.906	
7,500.00	5,911.07	7,515.29	6,616.09	94.12	65.68	-153.53	1,723.10	2,602.21	1,591.69	1,491.27	100.42	15.850	
7,600.00	5,984.03	7,612.94	6,697.83	95.64	66.76	-153.46	1,752.06	2,647.12	1,613.12	1,511.00	102.12	15.796	
7,700.00	6,056.98	7,710.59	6,779.56	97.15	67.84	-153.38	1,781.02	2,692.04	1,634.55	1,530.73	103.82	15.744	
7,800.00	6,129.94	7,808.25	6,861.29	98.67	68.92	-153.31	1,809.97	2,736.95	1,655.98	1,550.46	105.52	15.693	
7,900.00	6,202.90	7,905.90	6,943.03	100.18	70.00	-153.24	1,838.93	2,781.87	1,677.42	1,570.19	107.23	15.644	
8,000.00	6,275.85	8,051.45	7,067.32	101.70	71.53	-153.55	1,870.22	2,850.13	1,697.85	1,589.10	108.76	15.611	
8,100.00	6,348.81	8,202.24	7,199.08	103.21	72.76	-155.11	1,864.67	2,922.36	1,715.11	1,607.36	107.75	15.918	
8,200.00	6,421.77	8,324.84	7,302.37	104.73	73.41	-157.24	1,831.38	2,978.88	1,730.88	1,625.59	105.29	16.439	
8,300.00	6,494.72	8,418.41	7,375.71	106.24	73.71	-159.31	1,789.53	3,018.96	1,747.33	1,644.61	102.72	17.010	
8,400.00	6,567.68	8,488.68	7,426.35	107.76	73.83	-161.08	1,749.47	3,046.58	1,766.12	1,665.59	100.54	17.567	
8,500.00	6,640.64	8,541.92	7,461.63	109.27	73.86	-162.53	1,714.58	3,065.81	1,788.26	1,689.52	98.75	18.110	
8,600.00	6,713.59	8,582.98	7,486.83	110.79	73.85	-163.69	1,685.21	3,079.53	1,814.30	1,717.06	97.24	18.658	
8,700.00	6,786.55	8,615.32	7,505.33	112.30	73.83	-164.64	1,660.68	3,089.59	1,844.48	1,748.58	95.90	19.234	
8,800.00	6,859.51	8,641.28	7,519.29	113.82	73.80	-165.42	1,640.15	3,097.18	1,878.87	1,784.23	94.64	19.853	
8,900.00	6,932.46	8,662.51	7,530.09	115.33	73.76	-166.06	1,622.84	3,103.04	1,917.41	1,823.99	93.42	20.525	
9,000.00	7,005.42	8,680.15	7,538.63	116.85	73.73	-166.60	1,608.12	3,107.68	1,959.96	1,867.77	92.19	21.259	
9,104.89	7,081.95	8,700.00	7,547.77	118.44	73.70	-167.21	1,591.20	3,112.63	2,008.73	1,917.97	90.77	22.131	
9,150.00	7,115.15	8,700.00	7,547.77	119.12	73.70	-174.51	1,591.20	3,112.63	2,030.84	1,940.40	90.43	22.457	
9,200.00	7,152.46	8,700.00	7,547.77	119.86	73.70	177.06	1,591.20	3,112.63	2,055.88	1,965.74	90.14	22.807	
9,250.00	7,190.04	8,720.83	7,556.80	120.57	73.65	167.92	1,573.08	3,117.51	2,081.06	1,991.75	89.31	23.302	
9,300.00	7,227.59	8,731.63	7,561.25	121.25	73.62	159.11	1,563.54	3,119.92	2,106.32	2,017.46	88.86	23.703	
9,350.00	7,264.83	8,750.00	7,568.45	121.89	73.58	150.39	1,547.10	3,123.82	2,131.39	2,043.12	88.27	24.145	
9,400.00	7,301.48	8,750.00	7,568.45	122.48	73.58	142.50	1,547.10	3,123.82	2,155.99	2,067.66	88.33	24.409	
9,450.00	7,337.26	8,768.84	7,575.36	123.01	73.52	134.77	1,529.98	3,127.55	2,179.92	2,092.03	87.89	24.802	
9,500.00	7,371.90	8,782.53	7,580.07	123.49	73.48	127.77	1,517.37	3,130.09	2,203.02	2,115.32	87.70	25.120	
9,550.00	7,405.13	8,800.00	7,585.69	123.91	73.43	121.39	1,501.11	3,133.11	2,225.08	2,137.61	87.48	25.437	
9,600.00	7,436.70	8,800.00	7,585.69	124.27	73.43	115.93	1,501.11	3,133.11	2,246.00	2,158.07	87.92	25.545	
9,650.00	7,466.36	8,826.48	7,593.38	124.57	73.34	110.79	1,476.11	3,137.25	2,265.38	2,177.80	87.58	25.866	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,700.00	7,493.91	8,850.00	7,599.35	124.81	73.26	106.34	1,453.59	3,140.44	2,283.36	2,195.94	87.42	26.120	
9,750.00	7,519.11	8,850.00	7,599.35	125.00	73.26	102.70	1,453.59	3,140.44	2,299.65	2,211.44	88.20	26.072	
9,800.00	7,541.79	8,873.57	7,604.52	125.12	73.17	99.42	1,430.76	3,143.20	2,314.13	2,225.90	88.24	26.226	
9,850.00	7,561.77	8,900.00	7,609.33	125.20	73.07	96.67	1,404.90	3,145.75	2,326.85	2,238.61	88.24	26.369	
9,900.00	7,578.90	8,900.00	7,609.33	125.23	73.07	94.54	1,404.90	3,145.75	2,337.51	2,248.10	89.40	26.146	
9,950.00	7,593.04	8,922.61	7,612.61	125.22	72.98	92.76	1,382.60	3,147.47	2,346.16	2,256.39	89.77	26.136	
10,000.00	7,604.09	8,950.00	7,615.55	125.17	72.87	91.42	1,355.41	3,148.99	2,352.82	2,262.81	90.01	26.141	
10,050.00	7,611.97	8,950.00	7,615.55	125.08	72.87	90.55	1,355.41	3,148.99	2,357.23	2,265.68	91.55	25.748	
10,100.00	7,616.61	8,972.64	7,617.12	124.97	72.77	90.05	1,332.84	3,149.78	2,359.51	2,267.32	92.19	25.594	
10,145.95	7,618.00	9,000.00	7,617.97	124.84	72.65	89.95	1,305.50	3,150.15	2,359.80	2,267.27	92.53	25.502	
10,192.05	7,618.00	9,015.92	7,618.00	124.71	72.58	89.95	1,308.21	3,150.18	2,359.28	2,265.03	94.24	25.034	
10,200.00	7,618.00	9,007.97	7,618.00	124.69	72.61	89.95	1,300.26	3,150.15	2,359.28	2,265.03	94.24	25.034	
10,300.00	7,618.00	9,105.24	7,618.00	124.41	72.19	89.95	1,200.26	3,149.81	2,359.28	2,266.09	93.19	25.318	
10,400.00	7,618.00	9,205.24	7,618.00	124.14	71.78	89.95	1,100.26	3,149.47	2,359.28	2,267.05	92.23	25.579	
10,500.00	7,618.00	9,305.24	7,618.00	123.88	71.39	89.95	1,000.26	3,149.13	2,359.28	2,267.87	91.41	25.809	
10,600.00	7,618.00	9,405.24	7,618.00	123.63	71.02	89.95	900.26	3,148.79	2,359.29	2,268.57	90.72	26.006	
10,700.00	7,618.00	9,505.24	7,618.00	123.40	70.67	89.95	800.26	3,148.45	2,359.29	2,269.13	90.16	26.167	
10,800.00	7,618.00	9,605.24	7,618.00	123.18	70.34	89.95	700.26	3,148.11	2,359.29	2,269.55	89.74	26.289	
10,900.00	7,618.00	9,705.24	7,618.00	122.96	70.02	89.95	600.27	3,147.77	2,359.29	2,269.83	89.46	26.372	
11,000.00	7,618.00	9,805.24	7,618.00	122.76	69.73	89.95	500.27	3,147.43	2,359.30	2,269.98	89.32	26.414	
11,100.00	7,618.00	9,905.24	7,618.00	122.57	69.46	89.95	400.27	3,147.09	2,359.30	2,269.98	89.32	26.415	
11,200.00	7,618.00	10,005.24	7,618.00	122.39	69.21	89.95	300.27	3,146.76	2,359.30	2,269.84	89.46	26.373	
11,300.00	7,618.00	10,105.24	7,618.00	122.23	68.98	89.95	200.27	3,146.42	2,359.30	2,269.56	89.74	26.291	
11,400.00	7,618.00	10,205.24	7,618.00	122.07	68.77	89.95	100.27	3,146.08	2,359.31	2,269.15	90.16	26.169	
11,500.00	7,618.00	10,305.24	7,618.00	121.93	68.58	89.95	0.27	3,145.74	2,359.31	2,268.60	90.71	26.008	
11,600.00	7,618.00	10,405.24	7,618.00	121.79	68.41	89.95	-99.73	3,145.40	2,359.31	2,267.91	91.40	25.812	
11,700.00	7,618.00	10,505.24	7,618.00	121.67	68.27	89.95	-199.73	3,145.06	2,359.31	2,267.09	92.22	25.583	
11,800.00	7,618.00	10,605.24	7,618.00	121.56	68.15	89.95	-299.73	3,144.72	2,359.32	2,266.15	93.17	25.323	
11,900.00	7,618.00	10,705.24	7,618.00	121.46	68.06	89.95	-399.73	3,144.38	2,359.32	2,265.08	94.24	25.035	
12,000.00	7,618.00	10,805.24	7,618.00	121.38	67.99	89.95	-499.73	3,144.04	2,359.32	2,263.89	95.43	24.724	
12,100.00	7,618.00	10,905.24	7,618.00	121.30	67.95	89.95	-599.73	3,143.70	2,359.32	2,262.59	96.73	24.390	
12,200.00	7,618.00	11,005.24	7,618.00	121.24	67.95	89.95	-699.73	3,143.36	2,359.33	2,261.18	98.15	24.038	
12,300.00	7,618.00	11,105.24	7,618.00	121.19	67.98	89.95	-799.73	3,143.02	2,359.33	2,259.66	99.67	23.672	
12,400.00	7,618.00	11,205.24	7,618.00	121.16	68.04	89.95	-899.73	3,142.68	2,359.33	2,258.04	101.29	23.293	
12,500.00	7,618.00	11,305.24	7,618.00	121.14	68.15	89.95	-999.73	3,142.34	2,359.33	2,256.33	103.01	22.905	
12,600.00	7,618.00	11,405.24	7,618.00	121.13	68.31	89.95	-1,099.72	3,142.00	2,359.34	2,254.52	104.81	22.510	
12,700.00	7,618.00	11,505.24	7,618.00	121.13	68.51	89.95	-1,199.72	3,141.66	2,359.34	2,252.63	106.71	22.111	
12,800.00	7,618.00	11,605.24	7,618.00	121.15	68.77	89.95	-1,299.72	3,141.32	2,359.34	2,250.66	108.68	21.709	
12,900.00	7,618.00	11,705.24	7,618.00	121.18	69.08	89.95	-1,399.72	3,140.98	2,359.34	2,248.61	110.73	21.307	
13,000.00	7,618.00	11,805.24	7,618.00	121.23	69.46	89.95	-1,499.72	3,140.65	2,359.35	2,246.49	112.86	20.906	
13,100.00	7,618.00	11,905.24	7,618.00	121.29	69.90	89.95	-1,599.72	3,140.31	2,359.35	2,244.30	115.05	20.507	
13,200.00	7,618.00	12,005.24	7,618.00	121.37	70.42	89.95	-1,699.72	3,139.97	2,359.35	2,242.04	117.31	20.112	
13,300.00	7,618.00	12,105.24	7,618.00	121.46	71.01	89.95	-1,799.72	3,139.63	2,359.35	2,239.72	119.63	19.722	
13,400.00	7,618.00	12,205.24	7,618.00	121.57	71.66	89.95	-1,899.72	3,139.29	2,359.36	2,237.35	122.01	19.337	
13,500.00	7,618.00	12,305.24	7,618.00	121.70	72.39	89.95	-1,999.72	3,138.95	2,359.36	2,234.91	124.44	18.959	
13,600.00	7,618.00	12,405.24	7,618.00	121.84	73.19	89.95	-2,099.72	3,138.61	2,359.36	2,232.43	126.93	18.588	
13,700.00	7,618.00	12,505.24	7,618.00	122.01	74.06	89.95	-2,199.72	3,138.27	2,359.36	2,229.90	129.46	18.224	
13,800.00	7,618.00	12,605.24	7,618.00	122.19	74.98	89.95	-2,299.72	3,137.93	2,359.37	2,227.32	132.04	17.868	
13,900.00	7,618.00	12,705.24	7,618.00	122.39	75.97	89.95	-2,399.72	3,137.59	2,359.37	2,224.70	134.67	17.520	
14,000.00	7,618.00	12,805.24	7,618.00	122.62	77.01	89.95	-2,499.72	3,137.25	2,359.37	2,222.04	137.33	17.180	
14,100.00	7,618.00	12,905.24	7,618.00	122.86	78.09	89.95	-2,599.72	3,136.91	2,359.37	2,219.34	140.03	16.849	
14,200.00	7,618.00	13,005.24	7,618.00	123.12	79.22	89.95	-2,699.72	3,136.57	2,359.38	2,216.61	142.77	16.526	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.00	7,618.00	13,105.24	7,618.00	123.41	80.40	89.95	-2,799.72	3,136.23	2,359.38	2,213.84	145.54	16.211	
14,400.00	7,618.00	13,205.24	7,618.00	123.72	81.61	89.95	-2,899.71	3,135.89	2,359.38	2,211.04	148.35	15.905	
14,500.00	7,618.00	13,305.24	7,618.00	124.06	82.85	89.95	-2,999.71	3,135.55	2,359.38	2,208.20	151.18	15.606	
14,600.00	7,618.00	13,405.24	7,618.00	124.42	84.12	89.95	-3,099.71	3,135.21	2,359.39	2,205.34	154.04	15.316	
14,700.00	7,618.00	13,505.24	7,618.00	124.80	85.42	89.95	-3,199.71	3,134.88	2,359.39	2,202.45	156.94	15.034	
14,800.00	7,618.00	13,605.24	7,618.00	125.21	86.74	89.95	-3,299.71	3,134.54	2,359.39	2,199.54	159.85	14.760	
14,900.00	7,618.00	13,705.24	7,618.00	125.65	88.09	89.95	-3,399.71	3,134.20	2,359.39	2,196.60	162.79	14.493	
15,000.00	7,618.00	13,805.24	7,618.00	126.11	89.46	89.95	-3,499.71	3,133.86	2,359.40	2,193.64	165.76	14.234	
15,100.00	7,618.00	13,905.24	7,618.00	126.61	90.84	89.95	-3,599.71	3,133.52	2,359.40	2,190.66	168.74	13.982	
15,200.00	7,618.00	14,005.24	7,618.00	127.13	92.25	89.95	-3,699.71	3,133.18	2,359.40	2,187.65	171.75	13.737	
15,300.00	7,618.00	14,105.24	7,618.00	127.68	93.67	89.95	-3,799.71	3,132.84	2,359.40	2,184.63	174.78	13.500	
15,400.00	7,618.00	14,205.24	7,618.00	128.26	95.10	89.95	-3,899.71	3,132.50	2,359.41	2,181.59	177.82	13.268	
15,500.00	7,618.00	14,305.24	7,618.00	128.87	96.55	89.95	-3,999.71	3,132.16	2,359.41	2,178.53	180.88	13.044	
15,600.00	7,618.00	14,405.24	7,618.00	129.51	98.01	89.95	-4,099.71	3,131.82	2,359.41	2,175.45	183.96	12.825	
15,700.00	7,618.00	14,505.24	7,618.00	130.18	99.48	89.95	-4,199.71	3,131.48	2,359.42	2,172.36	187.06	12.613	
15,800.00	7,618.00	14,605.24	7,618.00	130.88	100.97	89.95	-4,299.71	3,131.14	2,359.42	2,169.25	190.17	12.407	
15,900.00	7,618.00	14,705.24	7,618.00	131.61	102.46	89.95	-4,399.71	3,130.80	2,359.42	2,166.12	193.30	12.206	
16,000.00	7,618.00	14,805.24	7,618.00	132.37	103.97	89.95	-4,499.71	3,130.46	2,359.42	2,162.99	196.44	12.011	
16,100.00	7,618.00	14,905.24	7,618.00	133.17	105.48	89.95	-4,599.70	3,130.12	2,359.43	2,159.84	199.59	11.821	
16,200.00	7,618.00	15,005.24	7,618.00	133.99	107.00	89.95	-4,699.70	3,129.78	2,359.43	2,156.67	202.75	11.637	
16,300.00	7,618.00	15,105.24	7,618.00	134.84	108.53	89.95	-4,799.70	3,129.44	2,359.43	2,153.50	205.93	11.457	
16,400.00	7,618.00	15,205.24	7,618.00	135.72	110.07	89.95	-4,899.70	3,129.10	2,359.43	2,150.31	209.12	11.283	
16,500.00	7,618.00	15,305.24	7,618.00	136.63	111.62	89.95	-4,999.70	3,128.77	2,359.44	2,147.12	212.32	11.113	
16,600.00	7,618.00	15,405.24	7,618.00	137.57	113.17	89.95	-5,099.70	3,128.43	2,359.44	2,143.91	215.53	10.947	
16,700.00	7,618.00	15,505.24	7,618.00	138.54	114.73	89.95	-5,199.70	3,128.09	2,359.44	2,140.69	218.75	10.786	
16,800.00	7,618.00	15,605.24	7,618.00	139.53	116.29	89.95	-5,299.70	3,127.75	2,359.44	2,137.46	221.98	10.629	
16,900.00	7,618.00	15,705.24	7,618.00	140.55	117.87	89.95	-5,399.70	3,127.41	2,359.45	2,134.23	225.22	10.476	
17,000.00	7,618.00	15,805.24	7,618.00	141.60	119.44	89.95	-5,499.70	3,127.07	2,359.45	2,130.98	228.46	10.327	
17,100.00	7,618.00	15,905.24	7,618.00	142.67	121.02	89.95	-5,599.70	3,126.73	2,359.45	2,127.73	231.72	10.182	
17,200.00	7,618.00	16,005.24	7,618.00	143.77	122.61	89.95	-5,699.70	3,126.39	2,359.45	2,124.47	234.98	10.041	
17,300.00	7,618.00	16,105.24	7,618.00	144.88	124.20	89.95	-5,799.70	3,126.05	2,359.46	2,121.20	238.26	9.903	
17,400.00	7,618.00	16,205.24	7,618.00	146.02	125.80	89.95	-5,899.70	3,125.71	2,359.46	2,117.92	241.53	9.769	
17,500.00	7,618.00	16,305.24	7,618.00	147.19	127.40	89.95	-5,999.70	3,125.37	2,359.46	2,114.64	244.82	9.638	
17,600.00	7,618.00	16,405.24	7,618.00	148.37	129.01	89.95	-6,099.70	3,125.03	2,359.46	2,111.35	248.11	9.510	
17,700.00	7,618.00	16,505.24	7,618.00	149.57	130.62	89.95	-6,199.70	3,124.69	2,359.47	2,108.05	251.41	9.385	
17,800.00	7,618.00	16,605.24	7,618.00	150.79	132.23	89.95	-6,299.70	3,124.35	2,359.47	2,104.75	254.72	9.263	
17,900.00	7,618.00	16,705.24	7,618.00	152.03	133.85	89.95	-6,399.69	3,124.01	2,359.47	2,101.44	258.03	9.144	
18,000.00	7,618.00	16,805.24	7,618.00	153.29	135.47	89.95	-6,499.69	3,123.67	2,359.47	2,098.13	261.35	9.028	
18,100.00	7,618.00	16,905.24	7,618.00	154.57	137.10	89.95	-6,599.69	3,123.33	2,359.48	2,094.81	264.67	8.915	
18,200.00	7,618.00	17,005.24	7,618.00	155.86	138.73	89.95	-6,699.69	3,123.00	2,359.48	2,091.48	268.00	8.804	
18,300.00	7,618.00	17,105.24	7,618.00	157.17	140.36	89.95	-6,799.69	3,122.66	2,359.48	2,088.15	271.33	8.696	
18,400.00	7,618.00	17,205.24	7,618.00	158.49	142.00	89.95	-6,899.69	3,122.32	2,359.48	2,084.81	274.67	8.590	
18,500.00	7,618.00	17,305.24	7,618.00	159.82	143.63	89.95	-6,999.69	3,121.98	2,359.49	2,081.47	278.01	8.487	
18,600.00	7,618.00	17,405.24	7,618.00	161.17	145.27	89.95	-7,099.69	3,121.64	2,359.49	2,078.13	281.36	8.386	
18,700.00	7,618.00	17,505.24	7,618.00	162.54	146.92	89.95	-7,199.69	3,121.30	2,359.49	2,074.77	284.72	8.287	
18,800.00	7,618.00	17,605.24	7,618.00	163.91	148.57	89.95	-7,299.69	3,120.96	2,359.49	2,071.42	288.07	8.191	
18,900.00	7,618.00	17,705.24	7,618.00	165.30	150.21	89.95	-7,399.69	3,120.62	2,359.50	2,068.06	291.43	8.096	
19,000.00	7,618.00	17,805.24	7,618.00	166.70	151.87	89.95	-7,499.69	3,120.28	2,359.50	2,064.70	294.80	8.004	
19,100.00	7,618.00	17,905.24	7,618.00	168.10	153.52	89.95	-7,599.69	3,119.94	2,359.50	2,061.33	298.17	7.913	
19,200.00	7,618.00	18,005.24	7,618.00	169.52	155.18	89.95	-7,699.69	3,119.60	2,359.50	2,057.96	301.54	7.825	
19,300.00	7,618.00	18,105.24	7,618.00	170.95	156.84	89.95	-7,799.69	3,119.26	2,359.51	2,054.59	304.92	7.738	
19,400.00	7,618.00	18,205.24	7,618.00	172.39	158.50	89.95	-7,899.69	3,118.92	2,359.51	2,051.21	308.30	7.653	

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,500.00	7,618.00	18,305.24	7,618.00	173.84	160.16	89.95	-7,999.69	3,118.58	2,359.51	2,047.83	311.68	7.570	
19,600.00	7,618.00	18,405.24	7,618.00	175.30	161.83	89.95	-8,099.68	3,118.24	2,359.51	2,044.44	315.07	7.489	
19,700.00	7,618.00	18,505.24	7,618.00	176.76	163.49	89.95	-8,199.68	3,117.90	2,359.52	2,041.06	318.46	7.409	
19,800.00	7,618.00	18,605.24	7,618.00	178.24	165.16	89.95	-8,299.68	3,117.56	2,359.52	2,037.67	321.85	7.331	
19,896.19	7,618.00	18,701.43	7,618.00	179.66	166.77	89.95	-8,395.87	3,117.24	2,359.52	2,034.40	325.12	7.257	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	-89.65	0.36	-59.92	59.92				
100.00	100.00	101.00	101.00	0.13	0.14	-89.65	0.36	-59.92	59.92	59.65	0.27	219.945	
200.00	200.00	201.00	201.00	0.49	0.50	-89.65	0.36	-59.92	59.92	58.93	0.99	60.565	CC, ES
300.00	299.98	300.98	300.98	0.85	0.85	-159.54	0.36	-59.92	61.55	59.85	1.70	36.145	
400.00	399.84	400.84	400.84	1.21	1.21	-161.08	0.36	-59.92	66.48	64.06	2.42	27.462	
500.00	499.45	500.45	500.45	1.58	1.57	-163.20	0.36	-59.92	74.78	71.64	3.14	23.797	
600.00	598.70	600.30	599.70	1.97	1.93	-165.47	0.36	-59.92	86.52	82.66	3.87	22.367	
700.00	697.47	701.53	698.47	2.38	2.29	-167.62	0.36	-59.92	101.75	97.15	4.60	22.109	
800.00	795.62	796.62	796.62	2.83	2.63	-169.49	0.36	-59.92	120.47	115.15	5.32	22.656	
900.00	893.06	898.68	898.66	3.31	2.99	-170.92	1.22	-58.45	141.12	135.07	6.05	23.320	
1,000.00	989.64	1,001.65	1,001.49	3.83	3.36	-171.76	3.96	-53.80	161.88	155.09	6.79	23.842	
1,100.00	1,085.27	1,105.41	1,104.83	4.40	3.73	-172.20	8.60	-45.89	182.68	175.15	7.54	24.238	
1,200.00	1,179.82	1,209.95	1,208.55	5.02	4.12	-172.36	15.19	-34.67	203.48	195.19	8.29	24.536	
1,300.00	1,273.17	1,315.29	1,312.51	5.70	4.53	-172.32	23.76	-20.06	224.24	215.17	9.06	24.743	
1,400.00	1,365.21	1,421.43	1,416.57	6.43	4.97	-172.12	34.35	-2.02	244.93	235.08	9.84	24.883	
1,500.00	1,455.84	1,528.37	1,520.55	7.23	5.44	-171.80	46.99	19.50	265.53	254.89	10.64	24.954	
1,600.00	1,544.94	1,636.13	1,624.31	8.09	5.96	-171.38	61.70	44.56	286.02	274.56	11.46	24.962	
1,700.00	1,632.39	1,744.69	1,727.66	9.01	6.52	-170.87	78.50	73.19	306.38	294.08	12.30	24.911	
1,800.00	1,718.11	1,854.06	1,830.44	10.00	7.15	-170.30	97.43	105.43	326.59	313.43	13.17	24.803	
1,900.00	1,801.97	1,964.24	1,932.46	11.07	7.85	-169.66	118.49	141.31	346.64	332.57	14.07	24.638	
2,000.00	1,883.88	2,075.22	2,033.53	12.20	8.61	-168.98	141.69	180.83	366.51	351.50	15.01	24.417	
2,100.00	1,963.74	2,187.01	2,133.45	13.41	9.46	-168.25	167.05	224.03	386.19	370.19	16.00	24.138	
2,200.00	2,041.45	2,299.59	2,232.04	14.69	10.39	-167.47	194.56	270.90	405.65	388.61	17.04	23.802	
2,300.00	2,116.92	2,412.95	2,329.07	16.05	11.42	-166.66	224.22	321.43	424.89	406.74	18.15	23.406	
2,357.48	2,159.25	2,478.47	2,384.07	16.86	12.06	-166.18	242.24	352.13	435.84	417.02	18.82	23.152	
2,400.00	2,190.27	2,523.91	2,421.77	17.47	12.51	-165.86	255.09	374.01	443.66	424.32	19.34	22.938	
2,500.00	2,263.22	2,622.11	2,503.10	18.92	13.51	-165.22	282.95	421.48	461.86	441.26	20.61	22.412	
2,600.00	2,336.18	2,720.32	2,584.42	20.37	14.53	-164.63	310.82	468.95	480.12	458.21	21.91	21.914	
2,700.00	2,409.14	2,818.52	2,665.75	21.84	15.57	-164.07	338.68	516.42	498.42	475.18	23.24	21.445	
2,800.00	2,482.09	2,916.72	2,747.07	23.31	16.62	-163.56	366.55	563.89	516.76	492.16	24.60	21.004	
2,900.00	2,555.05	3,014.92	2,828.40	24.78	17.68	-163.08	394.41	611.36	535.14	509.15	25.99	20.591	
3,000.00	2,628.01	3,113.12	2,909.72	26.27	18.74	-162.64	422.28	658.83	553.56	526.16	27.40	20.204	
3,100.00	2,700.96	3,211.32	2,991.05	27.75	19.82	-162.22	450.15	706.30	572.00	543.17	28.83	19.842	
3,200.00	2,773.92	3,309.53	3,072.37	29.24	20.90	-161.83	478.01	753.77	590.47	560.20	30.28	19.503	
3,300.00	2,846.88	3,407.73	3,153.69	30.73	21.98	-161.46	505.88	801.24	608.97	577.23	31.74	19.186	
3,400.00	2,919.83	3,505.93	3,235.02	32.23	23.07	-161.12	533.74	848.71	627.49	594.27	33.22	18.888	
3,500.00	2,992.79	3,604.13	3,316.34	33.72	24.16	-160.79	561.61	896.18	646.03	611.32	34.72	18.610	
3,600.00	3,065.75	3,702.33	3,397.67	35.22	25.26	-160.48	589.47	943.65	664.59	628.37	36.22	18.348	
3,700.00	3,138.71	3,800.53	3,478.99	36.72	26.36	-160.19	617.34	991.12	683.17	645.43	37.74	18.102	
3,800.00	3,211.66	3,901.26	3,560.32	38.22	27.49	-159.92	645.20	1,038.59	701.76	662.48	39.29	17.863	
3,900.00	3,284.62	3,996.94	3,641.64	39.72	28.56	-159.65	673.07	1,086.06	720.37	679.56	40.81	17.653	
4,000.00	3,357.58	4,104.86	3,722.97	41.22	29.78	-159.41	700.93	1,133.53	738.99	696.57	42.42	17.420	
4,100.00	3,430.53	4,206.66	3,804.29	42.73	30.92	-159.17	728.80	1,181.00	757.63	713.62	44.00	17.218	
4,200.00	3,503.49	4,308.46	3,885.62	44.23	32.07	-158.95	756.67	1,228.47	776.27	730.68	45.59	17.027	
4,300.00	3,576.45	4,389.74	3,966.94	45.74	32.99	-158.73	784.53	1,275.94	794.93	747.89	47.04	16.898	
4,400.00	3,649.40	4,487.95	4,048.26	47.25	34.10	-158.53	812.40	1,323.41	813.60	764.98	48.62	16.734	
4,500.00	3,722.36	4,586.15	4,129.59	48.75	35.21	-158.33	840.26	1,370.88	832.28	782.07	50.20	16.579	
4,600.00	3,795.32	4,684.35	4,210.91	50.26	36.33	-158.15	868.13	1,418.35	850.96	799.17	51.79	16.431	
4,700.00	3,868.27	4,782.55	4,292.24	51.77	37.44	-157.97	895.99	1,465.82	869.66	816.27	53.38	16.291	
4,800.00	3,941.23	4,880.75	4,373.56	53.28	38.55	-157.80	923.86	1,513.29	888.36	833.38	54.98	16.158	
4,900.00	4,014.19	4,978.95	4,454.89	54.79	39.67	-157.63	951.72	1,560.76	907.07	850.48	56.58	16.031	
5,000.00	4,087.15	5,077.16	4,536.21	56.30	40.79	-157.47	979.59	1,608.24	925.79	867.59	58.19	15.910	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	5,175.36	4,617.54	57.81	41.90	-157.32	1,007.45	1,655.71	944.51	884.71	59.80	15.794	
5,200.00	4,233.06	5,273.56	4,698.86	59.32	43.02	-157.18	1,035.32	1,703.18	963.24	901.82	61.42	15.684	
5,300.00	4,306.02	5,371.76	4,780.19	60.83	44.14	-157.04	1,063.18	1,750.65	981.97	918.94	63.03	15.579	
5,400.00	4,378.97	5,469.96	4,861.51	62.34	45.26	-156.90	1,091.05	1,798.12	1,000.71	936.06	64.66	15.478	
5,500.00	4,451.93	5,568.16	4,942.83	63.85	46.38	-156.77	1,118.92	1,845.59	1,019.46	953.18	66.28	15.381	
5,600.00	4,524.89	5,666.37	5,024.16	65.36	47.50	-156.65	1,146.78	1,893.06	1,038.21	970.30	67.91	15.289	
5,700.00	4,597.84	5,764.57	5,105.48	66.88	48.62	-156.53	1,174.65	1,940.53	1,056.96	987.43	69.54	15.200	
5,800.00	4,670.80	5,862.77	5,186.81	68.39	49.74	-156.41	1,202.51	1,988.00	1,075.72	1,004.55	71.17	15.115	
5,900.00	4,743.76	5,960.97	5,268.13	69.90	50.86	-156.30	1,230.38	2,035.47	1,094.49	1,021.68	72.80	15.033	
6,000.00	4,816.71	6,059.17	5,349.46	71.41	51.98	-156.19	1,258.24	2,082.94	1,113.25	1,038.81	74.44	14.955	
6,100.00	4,889.67	6,157.37	5,430.78	72.93	53.10	-156.09	1,286.11	2,130.41	1,132.03	1,055.94	76.08	14.879	
6,200.00	4,962.63	6,255.58	5,512.11	74.44	54.22	-155.98	1,313.97	2,177.88	1,150.80	1,073.08	77.72	14.807	
6,300.00	5,035.59	6,353.78	5,593.43	75.95	55.34	-155.89	1,341.84	2,225.35	1,169.58	1,090.21	79.37	14.736	
6,400.00	5,108.54	6,451.98	5,674.75	77.47	56.47	-155.79	1,369.70	2,272.82	1,188.36	1,107.35	81.01	14.669	
6,500.00	5,181.50	6,550.18	5,756.08	78.98	57.59	-155.70	1,397.57	2,320.29	1,207.14	1,124.48	82.66	14.604	
6,600.00	5,254.46	6,648.38	5,837.40	80.49	58.71	-155.61	1,425.43	2,367.76	1,225.93	1,141.62	84.31	14.541	
6,700.00	5,327.41	6,746.58	5,918.73	82.01	59.84	-155.52	1,453.30	2,415.23	1,244.72	1,158.76	85.96	14.481	
6,800.00	5,400.37	6,844.78	6,000.05	83.52	60.96	-155.44	1,481.17	2,462.70	1,263.51	1,175.90	87.61	14.422	
6,900.00	5,473.33	6,942.99	6,081.38	85.04	62.08	-155.36	1,509.03	2,510.17	1,282.31	1,193.05	89.26	14.365	
7,000.00	5,546.28	7,041.19	6,162.70	86.55	63.21	-155.28	1,536.90	2,557.64	1,301.11	1,210.19	90.92	14.311	
7,100.00	5,619.24	7,139.39	6,244.03	88.06	64.33	-155.20	1,564.76	2,605.11	1,319.91	1,227.33	92.58	14.258	
7,200.00	5,692.20	7,237.59	6,325.35	89.58	65.45	-155.13	1,592.63	2,652.58	1,338.71	1,244.48	94.23	14.206	
7,300.00	5,765.15	7,335.79	6,406.68	91.09	66.58	-155.05	1,620.49	2,700.05	1,357.51	1,261.62	95.89	14.157	
7,400.00	5,838.11	7,433.99	6,488.00	92.61	67.70	-154.98	1,648.36	2,747.52	1,376.32	1,278.77	97.55	14.109	
7,500.00	5,911.07	7,532.20	6,569.32	94.12	68.83	-154.91	1,676.22	2,794.99	1,395.13	1,295.92	99.21	14.062	
7,600.00	5,984.03	7,630.40	6,650.65	95.64	69.95	-154.85	1,704.09	2,842.46	1,413.94	1,313.06	100.87	14.017	
7,700.00	6,056.98	7,728.60	6,731.97	97.15	71.08	-154.78	1,731.95	2,889.93	1,432.75	1,330.21	102.54	13.973	
7,800.00	6,129.94	7,826.80	6,813.30	98.67	72.20	-154.72	1,759.82	2,937.40	1,451.57	1,347.36	104.20	13.930	
7,900.00	6,202.90	7,925.00	6,894.62	100.18	73.33	-154.66	1,787.68	2,984.87	1,470.38	1,364.51	105.87	13.889	
8,000.00	6,275.85	8,023.20	6,975.95	101.70	74.45	-154.59	1,815.55	3,032.34	1,489.20	1,381.66	107.53	13.849	
8,100.00	6,348.81	8,121.41	7,057.27	103.21	75.58	-154.54	1,843.42	3,079.81	1,508.02	1,398.82	109.20	13.810	
8,200.00	6,421.77	8,245.94	7,161.58	104.73	76.97	-154.68	1,873.25	3,140.67	1,526.37	1,415.59	110.78	13.779	
8,300.00	6,494.72	8,384.25	7,280.75	106.24	78.28	-155.93	1,876.87	3,210.11	1,542.24	1,432.03	110.22	13.993	
8,400.00	6,567.68	8,502.49	7,380.79	107.76	79.12	-157.89	1,853.70	3,268.31	1,556.73	1,448.74	107.98	14.417	
8,500.00	6,640.64	8,597.08	7,456.56	109.27	79.58	-159.98	1,818.37	3,312.33	1,571.75	1,466.44	105.30	14.926	
8,600.00	6,713.59	8,670.72	7,511.47	110.79	79.81	-161.89	1,781.16	3,344.19	1,588.98	1,486.14	102.84	15.451	
8,700.00	6,786.55	8,727.92	7,551.02	112.30	79.92	-163.52	1,746.82	3,367.11	1,609.59	1,508.85	100.74	15.978	
8,800.00	6,859.51	8,772.80	7,579.86	113.82	79.97	-164.87	1,716.78	3,383.82	1,634.26	1,535.33	98.93	16.519	
8,900.00	6,932.46	8,808.54	7,601.34	115.33	79.98	-165.99	1,691.05	3,396.24	1,663.34	1,566.02	97.32	17.092	
9,000.00	7,005.42	8,837.48	7,617.67	116.85	79.98	-166.92	1,669.12	3,405.68	1,696.94	1,601.14	95.80	17.713	
9,104.89	7,081.95	8,862.32	7,630.93	118.44	79.96	-167.73	1,649.56	3,413.34	1,737.01	1,642.76	94.25	18.429	
9,150.00	7,115.15	8,872.51	7,636.15	119.12	79.95	-174.86	1,641.34	3,416.35	1,755.60	1,661.98	93.62	18.753	
9,200.00	7,152.46	8,884.89	7,642.32	119.86	79.94	176.88	1,631.22	3,419.91	1,776.81	1,683.83	92.97	19.111	
9,250.00	7,190.04	8,900.00	7,649.59	120.57	79.93	168.39	1,618.66	3,424.11	1,798.42	1,706.07	92.34	19.475	
9,300.00	7,227.59	8,912.44	7,655.37	121.25	79.90	160.02	1,608.15	3,427.44	1,820.19	1,728.30	91.89	19.809	
9,350.00	7,264.83	8,927.38	7,662.04	121.89	79.88	151.81	1,595.36	3,431.28	1,841.89	1,750.45	91.44	20.143	
9,400.00	7,301.48	8,950.00	7,671.59	122.48	79.84	143.81	1,575.60	3,436.78	1,863.35	1,772.50	90.85	20.511	
9,450.00	7,337.26	8,950.00	7,671.59	123.01	79.84	136.82	1,575.60	3,436.78	1,884.30	1,793.24	91.06	20.694	
9,500.00	7,371.90	8,975.66	7,681.60	123.49	79.79	129.89	1,552.68	3,442.53	1,904.50	1,813.96	90.54	21.034	
9,550.00	7,405.13	9,000.00	7,690.26	123.91	79.73	123.66	1,530.49	3,447.50	1,923.93	1,833.77	90.15	21.341	
9,600.00	7,436.70	9,000.00	7,690.26	124.27	79.73	118.44	1,530.49	3,447.50	1,942.32	1,851.62	90.70	21.415	
9,650.00	7,466.36	9,027.76	7,699.14	124.57	79.66	113.45	1,504.68	3,452.59	1,959.44	1,869.06	90.38	21.680	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,700.00	7,493.91	9,050.00	7,705.47	124.81	79.59	109.16	1,483.68	3,456.20	1,975.31	1,884.96	90.35	21.862	
9,750.00	7,519.11	9,063.96	7,709.08	125.00	79.55	105.52	1,470.35	3,458.26	1,989.71	1,898.96	90.75	21.925	
9,800.00	7,541.79	9,082.38	7,713.41	125.12	79.49	102.38	1,452.62	3,460.72	2,002.58	1,911.48	91.10	21.983	
9,850.00	7,561.77	9,100.00	7,717.09	125.20	79.43	99.75	1,435.51	3,462.81	2,013.79	1,922.20	91.59	21.986	
9,900.00	7,578.90	9,119.69	7,720.66	125.23	79.36	97.58	1,416.26	3,464.83	2,023.28	1,931.15	92.13	21.962	
9,950.00	7,593.04	9,150.00	7,725.04	125.22	79.26	95.82	1,386.37	3,467.28	2,031.05	1,938.77	92.28	22.010	
10,000.00	7,604.09	9,150.00	7,725.04	125.17	79.26	94.59	1,386.37	3,467.28	2,036.84	1,942.86	93.98	21.674	
10,050.00	7,611.97	9,176.45	7,727.75	125.08	79.15	93.69	1,360.10	3,468.76	2,040.74	1,946.21	94.53	21.589	
10,100.00	7,616.61	9,200.00	7,729.27	124.97	79.06	93.21	1,336.62	3,469.57	2,042.78	1,947.47	95.31	21.433	
10,145.95	7,618.00	9,212.97	7,729.75	124.84	79.01	93.11	1,323.66	3,469.81	2,042.92	1,946.35	96.57	21.155	
10,186.78	7,618.00	9,238.00	7,730.00	124.72	78.90	93.12	1,312.37	3,469.91	2,042.57	1,944.89	97.68	20.911	
10,200.00	7,618.00	9,237.49	7,730.00	124.69	78.91	93.12	1,299.15	3,469.87	2,042.57	1,944.96	97.61	20.926	
10,300.00	7,618.00	9,337.49	7,730.00	124.41	78.50	93.12	1,199.15	3,469.53	2,042.57	1,945.95	96.63	21.139	
10,400.00	7,618.00	9,437.49	7,730.00	124.14	78.12	93.12	1,099.15	3,469.19	2,042.57	1,946.82	95.76	21.331	
10,500.00	7,618.00	9,537.49	7,730.00	123.88	77.75	93.12	999.15	3,468.85	2,042.58	1,947.57	95.01	21.499	
10,600.00	7,618.00	9,637.49	7,730.00	123.63	77.40	93.12	899.15	3,468.52	2,042.58	1,948.19	94.39	21.640	
10,700.00	7,618.00	9,737.49	7,730.00	123.40	77.07	93.12	799.15	3,468.18	2,042.58	1,948.68	93.90	21.753	
10,800.00	7,618.00	9,837.49	7,730.00	123.18	76.76	93.12	699.15	3,467.84	2,042.58	1,949.04	93.54	21.836	
10,900.00	7,618.00	9,937.49	7,730.00	122.96	76.47	93.12	599.15	3,467.50	2,042.58	1,949.26	93.32	21.889	
11,000.00	7,618.00	10,037.49	7,730.00	122.76	76.20	93.12	499.15	3,467.17	2,042.58	1,949.36	93.22	21.910	
11,100.00	7,618.00	10,137.49	7,730.00	122.57	75.94	93.12	399.15	3,466.83	2,042.58	1,949.31	93.27	21.900	
11,200.00	7,618.00	10,237.49	7,730.00	122.39	75.70	93.12	299.15	3,466.49	2,042.58	1,949.14	93.44	21.859	
11,300.00	7,618.00	10,337.49	7,730.00	122.23	75.49	93.12	199.15	3,466.15	2,042.58	1,948.83	93.75	21.786	
11,400.00	7,618.00	10,437.49	7,730.00	122.07	75.29	93.12	99.15	3,465.81	2,042.58	1,948.39	94.20	21.684	
11,500.00	7,618.00	10,537.49	7,730.00	121.93	75.11	93.12	-0.85	3,465.48	2,042.59	1,947.82	94.77	21.553	
11,600.00	7,618.00	10,637.49	7,730.00	121.79	74.95	93.12	-100.85	3,465.14	2,042.59	1,947.12	95.47	21.395	
11,700.00	7,618.00	10,737.49	7,730.00	121.67	74.81	93.12	-200.85	3,464.80	2,042.59	1,946.29	96.29	21.212	
11,800.00	7,618.00	10,837.49	7,730.00	121.56	74.70	93.12	-300.85	3,464.46	2,042.59	1,945.35	97.24	21.005	
11,900.00	7,618.00	10,937.49	7,730.00	121.46	74.60	93.12	-400.85	3,464.12	2,042.59	1,944.28	98.31	20.778	
12,000.00	7,618.00	11,037.49	7,730.00	121.38	74.53	93.12	-500.84	3,463.79	2,042.59	1,943.11	99.48	20.532	
12,100.00	7,618.00	11,137.49	7,730.00	121.30	74.49	93.12	-600.84	3,463.45	2,042.59	1,941.82	100.77	20.269	
12,200.00	7,618.00	11,237.49	7,730.00	121.24	74.47	93.12	-700.84	3,463.11	2,042.59	1,940.43	102.17	19.993	
12,300.00	7,618.00	11,337.49	7,730.00	121.19	74.48	93.12	-800.84	3,462.77	2,042.59	1,938.93	103.66	19.704	
12,400.00	7,618.00	11,437.49	7,730.00	121.16	74.52	93.12	-900.84	3,462.43	2,042.59	1,937.34	105.26	19.406	
12,500.00	7,618.00	11,537.49	7,730.00	121.14	74.59	93.12	-1,000.84	3,462.10	2,042.60	1,935.65	106.94	19.100	
12,600.00	7,618.00	11,637.49	7,730.00	121.13	74.70	93.12	-1,100.84	3,461.76	2,042.60	1,933.88	108.72	18.788	
12,700.00	7,618.00	11,737.49	7,730.00	121.13	74.85	93.12	-1,200.84	3,461.42	2,042.60	1,932.02	110.58	18.472	
12,800.00	7,618.00	11,837.49	7,730.00	121.15	75.03	93.12	-1,300.84	3,461.08	2,042.60	1,930.08	112.51	18.154	
12,900.00	7,618.00	11,937.49	7,730.00	121.18	75.26	93.12	-1,400.84	3,460.75	2,042.60	1,928.07	114.53	17.835	
13,000.00	7,618.00	12,037.49	7,730.00	121.23	75.54	93.12	-1,500.84	3,460.41	2,042.60	1,925.99	116.61	17.516	
13,100.00	7,618.00	12,137.49	7,730.00	121.29	75.86	93.12	-1,600.84	3,460.07	2,042.60	1,923.83	118.77	17.198	
13,200.00	7,618.00	12,237.49	7,730.00	121.37	76.24	93.12	-1,700.84	3,459.73	2,042.60	1,921.61	120.99	16.883	
13,300.00	7,618.00	12,337.49	7,730.00	121.46	76.67	93.12	-1,800.84	3,459.39	2,042.60	1,919.34	123.27	16.571	
13,400.00	7,618.00	12,437.49	7,730.00	121.57	77.16	93.12	-1,900.84	3,459.06	2,042.60	1,917.00	125.60	16.262	
13,500.00	7,618.00	12,537.49	7,730.00	121.70	77.72	93.12	-2,000.84	3,458.72	2,042.61	1,914.61	128.00	15.958	
13,600.00	7,618.00	12,637.49	7,730.00	121.84	78.33	93.12	-2,100.84	3,458.38	2,042.61	1,912.17	130.44	15.659	
13,700.00	7,618.00	12,737.49	7,730.00	122.01	79.00	93.12	-2,200.84	3,458.04	2,042.61	1,909.67	132.93	15.366	
13,800.00	7,618.00	12,837.49	7,730.00	122.19	79.73	93.12	-2,300.83	3,457.70	2,042.61	1,907.14	135.47	15.078	
13,900.00	7,618.00	12,937.49	7,730.00	122.39	80.53	93.12	-2,400.83	3,457.37	2,042.61	1,904.56	138.05	14.796	
14,000.00	7,618.00	13,037.49	7,730.00	122.62	81.38	93.12	-2,500.83	3,457.03	2,042.61	1,901.93	140.68	14.520	
14,100.00	7,618.00	13,137.49	7,730.00	122.86	82.28	93.12	-2,600.83	3,456.69	2,042.61	1,899.27	143.34	14.250	
14,200.00	7,618.00	13,237.49	7,730.00	123.12	83.24	93.12	-2,700.83	3,456.35	2,042.61	1,896.58	146.04	13.987	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	13,337.49	7,730.00	123.41	84.24	93.12	-2,800.83	3,456.01	2,042.61	1,893.84	148.77	13.730	
14,400.00	7,618.00	13,437.49	7,730.00	123.72	85.29	93.12	-2,900.83	3,455.68	2,042.61	1,891.08	151.54	13.479	
14,500.00	7,618.00	13,537.49	7,730.00	124.06	86.39	93.12	-3,000.83	3,455.34	2,042.62	1,888.28	154.33	13.235	
14,600.00	7,618.00	13,637.49	7,730.00	124.42	87.52	93.12	-3,100.83	3,455.00	2,042.62	1,885.46	157.16	12.997	
14,700.00	7,618.00	13,737.49	7,730.00	124.80	88.69	93.12	-3,200.83	3,454.66	2,042.62	1,882.60	160.01	12.765	
14,800.00	7,618.00	13,837.49	7,730.00	125.21	89.90	93.12	-3,300.83	3,454.33	2,042.62	1,879.72	162.89	12.540	
14,900.00	7,618.00	13,937.49	7,730.00	125.65	91.13	93.12	-3,400.83	3,453.99	2,042.62	1,876.82	165.80	12.320	
15,000.00	7,618.00	14,037.49	7,730.00	126.11	92.39	93.12	-3,500.83	3,453.65	2,042.62	1,873.89	168.73	12.106	
15,100.00	7,618.00	14,137.49	7,730.00	126.61	93.68	93.12	-3,600.83	3,453.31	2,042.62	1,870.94	171.68	11.898	
15,200.00	7,618.00	14,237.49	7,730.00	127.13	94.99	93.12	-3,700.83	3,452.97	2,042.62	1,867.97	174.66	11.695	
15,300.00	7,618.00	14,337.49	7,730.00	127.68	96.33	93.12	-3,800.83	3,452.64	2,042.62	1,864.97	177.65	11.498	
15,400.00	7,618.00	14,437.49	7,730.00	128.26	97.68	93.12	-3,900.83	3,452.30	2,042.62	1,861.96	180.66	11.306	
15,500.00	7,618.00	14,537.49	7,730.00	128.87	99.06	93.12	-4,000.82	3,451.96	2,042.63	1,858.93	183.69	11.120	
15,600.00	7,618.00	14,637.49	7,730.00	129.51	100.45	93.12	-4,100.82	3,451.62	2,042.63	1,855.88	186.74	10.938	
15,700.00	7,618.00	14,737.49	7,730.00	130.18	101.85	93.12	-4,200.82	3,451.28	2,042.63	1,852.82	189.81	10.761	
15,800.00	7,618.00	14,837.49	7,730.00	130.88	103.28	93.12	-4,300.82	3,450.95	2,042.63	1,849.74	192.89	10.590	
15,900.00	7,618.00	14,937.49	7,730.00	131.61	104.71	93.12	-4,400.82	3,450.61	2,042.63	1,846.64	195.99	10.422	
16,000.00	7,618.00	15,037.49	7,730.00	132.37	106.16	93.12	-4,500.82	3,450.27	2,042.63	1,843.53	199.10	10.259	
16,100.00	7,618.00	15,137.49	7,730.00	133.17	107.62	93.12	-4,600.82	3,449.93	2,042.63	1,840.41	202.22	10.101	
16,200.00	7,618.00	15,237.49	7,730.00	133.99	109.09	93.12	-4,700.82	3,449.59	2,042.63	1,837.27	205.36	9.947	
16,300.00	7,618.00	15,337.49	7,730.00	134.84	110.58	93.12	-4,800.82	3,449.26	2,042.63	1,834.12	208.51	9.796	
16,400.00	7,618.00	15,437.49	7,730.00	135.72	112.07	93.12	-4,900.82	3,448.92	2,042.63	1,830.96	211.67	9.650	
16,500.00	7,618.00	15,537.49	7,730.00	136.63	113.57	93.12	-5,000.82	3,448.58	2,042.64	1,827.79	214.85	9.507	
16,600.00	7,618.00	15,637.49	7,730.00	137.57	115.09	93.12	-5,100.82	3,448.24	2,042.64	1,824.60	218.03	9.368	
16,700.00	7,618.00	15,737.49	7,730.00	138.54	116.61	93.12	-5,200.82	3,447.90	2,042.64	1,821.41	221.23	9.233	
16,800.00	7,618.00	15,837.49	7,730.00	139.53	118.13	93.12	-5,300.82	3,447.57	2,042.64	1,818.21	224.43	9.101	
16,900.00	7,618.00	15,937.49	7,730.00	140.55	119.67	93.12	-5,400.82	3,447.23	2,042.64	1,814.99	227.65	8.973	
17,000.00	7,618.00	16,037.49	7,730.00	141.60	121.21	93.12	-5,500.82	3,446.89	2,042.64	1,811.77	230.87	8.847	
17,100.00	7,618.00	16,137.49	7,730.00	142.67	122.76	93.12	-5,600.82	3,446.55	2,042.64	1,808.54	234.11	8.725	
17,200.00	7,618.00	16,237.49	7,730.00	143.77	124.32	93.12	-5,700.82	3,446.22	2,042.64	1,805.30	237.35	8.606	
17,300.00	7,618.00	16,337.49	7,730.00	144.88	125.88	93.12	-5,800.81	3,445.88	2,042.64	1,802.05	240.60	8.490	
17,400.00	7,618.00	16,437.49	7,730.00	146.02	127.45	93.12	-5,900.81	3,445.54	2,042.64	1,798.79	243.85	8.377	
17,500.00	7,618.00	16,537.49	7,730.00	147.19	129.02	93.12	-6,000.81	3,445.20	2,042.65	1,795.53	247.12	8.266	
17,600.00	7,618.00	16,637.49	7,730.00	148.37	130.60	93.12	-6,100.81	3,444.86	2,042.65	1,792.26	250.39	8.158	
17,700.00	7,618.00	16,737.49	7,730.00	149.57	132.19	93.12	-6,200.81	3,444.53	2,042.65	1,788.98	253.67	8.052	
17,800.00	7,618.00	16,837.49	7,730.00	150.79	133.77	93.12	-6,300.81	3,444.19	2,042.65	1,785.69	256.95	7.949	
17,900.00	7,618.00	16,937.49	7,730.00	152.03	135.37	93.12	-6,400.81	3,443.85	2,042.65	1,782.40	260.25	7.849	
18,000.00	7,618.00	17,037.49	7,730.00	153.29	136.97	93.12	-6,500.81	3,443.51	2,042.65	1,779.11	263.55	7.751	
18,100.00	7,618.00	17,137.49	7,730.00	154.57	138.57	93.12	-6,600.81	3,443.17	2,042.65	1,775.80	266.85	7.655	
18,200.00	7,618.00	17,237.49	7,730.00	155.86	140.17	93.12	-6,700.81	3,442.84	2,042.65	1,772.49	270.16	7.561	
18,300.00	7,618.00	17,337.49	7,730.00	157.17	141.79	93.12	-6,800.81	3,442.50	2,042.65	1,769.18	273.47	7.469	
18,400.00	7,618.00	17,437.49	7,730.00	158.49	143.40	93.12	-6,900.81	3,442.16	2,042.65	1,765.86	276.80	7.380	
18,500.00	7,618.00	17,537.49	7,730.00	159.82	145.02	93.12	-7,000.81	3,441.82	2,042.66	1,762.53	280.12	7.292	
18,600.00	7,618.00	17,637.49	7,730.00	161.17	146.64	93.12	-7,100.81	3,441.48	2,042.66	1,759.20	283.45	7.206	
18,700.00	7,618.00	17,737.49	7,730.00	162.54	148.26	93.12	-7,200.81	3,441.15	2,042.66	1,755.87	286.79	7.123	
18,800.00	7,618.00	17,837.49	7,730.00	163.91	149.89	93.12	-7,300.81	3,440.81	2,042.66	1,752.53	290.13	7.041	
18,900.00	7,618.00	17,937.49	7,730.00	165.30	151.52	93.12	-7,400.81	3,440.47	2,042.66	1,749.19	293.47	6.960	
19,000.00	7,618.00	18,037.49	7,730.00	166.70	153.16	93.12	-7,500.80	3,440.13	2,042.66	1,745.84	296.82	6.882	
19,100.00	7,618.00	18,137.49	7,730.00	168.10	154.79	93.12	-7,600.80	3,439.80	2,042.66	1,742.49	300.17	6.805	
19,200.00	7,618.00	18,237.49	7,730.00	169.52	156.43	93.12	-7,700.80	3,439.46	2,042.66	1,739.13	303.53	6.730	
19,300.00	7,618.00	18,337.49	7,730.00	170.95	158.08	93.12	-7,800.80	3,439.12	2,042.66	1,735.77	306.89	6.656	
19,400.00	7,618.00	18,437.49	7,730.00	172.39	159.72	93.12	-7,900.80	3,438.78	2,042.66	1,732.41	310.26	6.584	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,500.00	7,618.00	18,537.49	7,730.00	173.84	161.37	93.12	-8,000.80	3,438.44	2,042.67	1,729.04	313.62	6.513	
19,600.00	7,618.00	18,637.49	7,730.00	175.30	163.02	93.12	-8,100.80	3,438.11	2,042.67	1,725.67	317.00	6.444	
19,700.00	7,618.00	18,737.49	7,730.00	176.76	164.67	93.12	-8,200.80	3,437.77	2,042.67	1,722.30	320.37	6.376	
19,800.00	7,618.00	18,837.49	7,730.00	178.24	166.33	93.12	-8,300.80	3,437.43	2,042.67	1,718.92	323.75	6.309	
19,896.19	7,618.00	18,933.68	7,730.00	179.66	167.92	93.12	-8,396.99	3,437.10	2,042.67	1,715.67	327.00	6.247	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	-90.00	0.00	-49.84	49.84				
100.00	100.00	101.00	101.00	0.13	0.14	-90.00	0.00	-49.84	49.84	49.57	0.27	182.942	
200.00	200.00	201.00	201.00	0.49	0.50	-90.00	0.00	-49.84	49.84	48.85	0.99	50.375	CC, ES
300.00	299.98	300.98	300.98	0.85	0.85	-159.99	0.00	-49.84	51.48	49.77	1.70	30.227	
400.00	399.84	400.84	400.84	1.21	1.21	-161.78	0.00	-49.84	56.42	54.00	2.42	23.306	
500.00	499.45	500.45	500.45	1.58	1.57	-164.14	0.00	-49.84	64.76	61.62	3.14	20.607	
600.00	598.70	600.30	599.70	1.97	1.93	-166.58	0.00	-49.84	76.56	72.69	3.87	19.791	
700.00	697.47	698.47	698.47	2.38	2.28	-168.78	0.00	-49.84	91.85	87.26	4.59	20.007	
800.00	795.62	800.29	800.27	2.83	2.64	-170.44	0.83	-48.29	109.02	103.70	5.32	20.497	
900.00	893.06	902.81	902.64	3.31	3.00	-171.43	3.39	-43.52	126.28	120.23	6.05	20.874	
1,000.00	989.64	1,005.98	1,005.40	3.83	3.38	-171.97	7.72	-35.46	143.55	136.77	6.79	21.148	
1,100.00	1,085.27	1,109.80	1,108.40	4.40	3.76	-172.22	13.83	-24.06	160.81	153.28	7.53	21.344	
1,200.00	1,179.82	1,214.27	1,211.51	5.02	4.17	-172.25	21.76	-9.27	178.02	169.73	8.29	21.468	
1,300.00	1,273.17	1,319.40	1,314.59	5.70	4.61	-172.13	31.53	8.94	195.16	186.10	9.06	21.535	
1,400.00	1,365.21	1,425.20	1,417.48	6.43	5.08	-171.87	43.16	30.61	212.21	202.36	9.84	21.556	
1,500.00	1,455.84	1,531.65	1,520.02	7.23	5.60	-171.52	56.67	55.79	229.14	218.50	10.65	21.525	
1,600.00	1,544.94	1,638.77	1,622.06	8.09	6.17	-171.08	72.07	84.49	245.95	234.48	11.47	21.449	
1,700.00	1,632.39	1,746.54	1,723.42	9.01	6.80	-170.58	89.37	116.74	262.61	250.29	12.31	21.329	
1,800.00	1,718.11	1,854.98	1,823.94	10.00	7.49	-170.02	108.59	152.56	279.11	265.92	13.19	21.166	
1,900.00	1,801.97	1,964.07	1,923.44	11.07	8.25	-169.41	129.72	191.94	295.43	281.34	14.10	20.960	
2,000.00	1,883.88	2,073.80	2,021.75	12.20	9.09	-168.76	152.77	234.90	311.57	296.53	15.04	20.712	
2,100.00	1,963.74	2,184.18	2,118.67	13.41	10.02	-168.07	177.73	281.43	327.51	311.47	16.04	20.421	
2,200.00	2,041.45	2,295.19	2,214.03	14.69	11.03	-167.34	204.60	331.51	343.23	326.14	17.09	20.087	
2,300.00	2,116.92	2,406.83	2,307.63	16.05	12.13	-166.58	233.36	385.11	358.72	340.53	18.20	19.711	
2,357.48	2,159.25	2,471.28	2,360.56	16.86	12.81	-166.12	250.74	417.51	367.52	348.65	18.87	19.474	
2,400.00	2,190.27	2,518.34	2,398.69	17.47	13.32	-165.81	263.78	441.82	373.68	354.30	19.39	19.275	
2,500.00	2,263.22	2,617.27	2,478.46	18.92	14.42	-165.15	291.44	493.37	387.62	366.93	20.69	18.735	
2,600.00	2,336.18	2,716.20	2,558.24	20.37	15.54	-164.53	319.10	544.93	401.61	379.57	22.03	18.229	
2,700.00	2,409.14	2,815.13	2,638.01	21.84	16.67	-163.96	346.76	596.48	415.63	392.23	23.41	17.758	
2,800.00	2,482.09	2,914.06	2,717.79	23.31	17.82	-163.42	374.41	648.03	429.70	404.89	24.81	17.320	
2,900.00	2,555.05	3,012.98	2,797.56	24.78	18.97	-162.92	402.07	699.59	443.80	417.56	26.24	16.912	
3,000.00	2,628.01	3,111.91	2,877.34	26.27	20.13	-162.45	429.73	751.14	457.93	430.23	27.70	16.532	
3,100.00	2,700.96	3,210.84	2,957.11	27.75	21.30	-162.00	457.39	802.69	472.10	442.92	29.18	16.179	
3,200.00	2,773.92	3,309.77	3,036.89	29.24	22.47	-161.59	485.05	854.24	486.28	455.60	30.68	15.851	
3,300.00	2,846.88	3,408.70	3,116.66	30.73	23.65	-161.19	512.71	905.80	500.49	468.30	32.20	15.544	
3,400.00	2,919.83	3,507.62	3,196.44	32.23	24.84	-160.82	540.37	957.35	514.73	480.99	33.73	15.259	
3,500.00	2,992.79	3,606.55	3,276.21	33.72	26.02	-160.47	568.02	1,008.90	528.98	493.70	35.28	14.992	
3,600.00	3,065.75	3,705.48	3,355.99	35.22	27.21	-160.13	595.68	1,060.46	543.25	506.40	36.85	14.743	
3,700.00	3,138.71	3,804.41	3,435.76	36.72	28.40	-159.82	623.34	1,112.01	557.54	519.11	38.43	14.509	
3,800.00	3,211.66	3,903.34	3,515.54	38.22	29.60	-159.52	651.00	1,163.56	571.85	531.83	40.02	14.290	
3,900.00	3,284.62	4,002.26	3,595.31	39.72	30.79	-159.23	678.66	1,215.11	586.17	544.55	41.62	14.084	
4,000.00	3,357.58	4,101.19	3,675.09	41.22	31.99	-158.96	706.32	1,266.67	600.50	557.27	43.23	13.891	
4,100.00	3,430.53	4,200.12	3,754.86	42.73	33.19	-158.70	733.98	1,318.22	614.85	569.99	44.85	13.709	
4,200.00	3,503.49	4,300.95	3,834.64	44.23	34.41	-158.45	761.63	1,369.77	629.20	582.71	46.49	13.533	
4,300.00	3,576.45	4,402.02	3,914.41	45.74	35.64	-158.21	789.29	1,421.33	643.57	595.42	48.15	13.367	
4,400.00	3,649.40	4,496.90	3,994.19	47.25	36.79	-157.99	816.95	1,472.88	657.95	608.19	49.76	13.222	
4,500.00	3,722.36	4,595.83	4,073.96	48.75	38.00	-157.77	844.61	1,524.43	672.34	620.93	51.41	13.077	
4,600.00	3,795.32	4,694.76	4,153.74	50.26	39.20	-157.56	872.27	1,575.99	686.74	633.66	53.07	12.939	
4,700.00	3,868.27	4,806.31	4,233.51	51.77	40.56	-157.36	899.93	1,627.54	701.14	646.31	54.83	12.787	
4,800.00	3,941.23	4,907.38	4,313.29	53.28	41.80	-157.17	927.59	1,679.09	715.56	659.04	56.52	12.661	
4,900.00	4,014.19	5,008.46	4,393.06	54.79	43.03	-156.99	955.24	1,730.64	729.98	671.77	58.21	12.540	
5,000.00	4,087.15	5,109.53	4,472.84	56.30	44.27	-156.81	982.90	1,782.20	744.41	684.50	59.91	12.426	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	5,189.40	4,552.61	57.81	45.24	-156.64	1,010.56	1,833.75	758.84	697.40	61.45	12.349	
5,200.00	4,233.06	5,288.33	4,632.39	59.32	46.45	-156.48	1,038.22	1,885.30	773.29	710.15	63.14	12.247	
5,300.00	4,306.02	5,387.26	4,712.16	60.83	47.66	-156.32	1,065.88	1,936.86	787.73	722.90	64.83	12.150	
5,400.00	4,378.97	5,486.18	4,791.94	62.34	48.87	-156.17	1,093.54	1,988.41	802.19	735.66	66.53	12.057	
5,500.00	4,451.93	5,585.11	4,871.71	63.85	50.08	-156.02	1,121.20	2,039.96	816.65	748.42	68.23	11.969	
5,600.00	4,524.89	5,684.04	4,951.49	65.36	51.29	-155.88	1,148.85	2,091.51	831.11	761.17	69.94	11.884	
5,700.00	4,597.84	5,782.97	5,031.26	66.88	52.51	-155.74	1,176.51	2,143.07	845.58	773.93	71.64	11.802	
5,800.00	4,670.80	5,881.90	5,111.04	68.39	53.72	-155.61	1,204.17	2,194.62	860.05	786.70	73.36	11.724	
5,900.00	4,743.76	5,980.82	5,190.81	69.90	54.93	-155.48	1,231.83	2,246.17	874.53	799.46	75.07	11.650	
6,000.00	4,816.71	6,079.75	5,270.59	71.41	56.14	-155.36	1,259.49	2,297.73	889.01	812.22	76.79	11.578	
6,100.00	4,889.67	6,178.68	5,350.36	72.93	57.36	-155.24	1,287.15	2,349.28	903.50	824.99	78.51	11.509	
6,200.00	4,962.63	6,277.61	5,430.14	74.44	58.57	-155.13	1,314.81	2,400.83	917.99	837.76	80.23	11.442	
6,300.00	5,035.59	6,376.54	5,509.91	75.95	59.78	-155.01	1,342.47	2,452.38	932.48	850.53	81.95	11.378	
6,400.00	5,108.54	6,475.46	5,589.69	77.47	61.00	-154.90	1,370.12	2,503.94	946.97	863.30	83.68	11.317	
6,500.00	5,181.50	6,574.39	5,669.46	78.98	62.21	-154.80	1,397.78	2,555.49	961.47	876.07	85.41	11.257	
6,600.00	5,254.46	6,673.32	5,749.24	80.49	63.43	-154.70	1,425.44	2,607.04	975.98	888.84	87.14	11.200	
6,700.00	5,327.41	6,772.25	5,829.01	82.01	64.64	-154.60	1,453.10	2,658.60	990.48	901.61	88.87	11.145	
6,800.00	5,400.37	6,871.18	5,908.79	83.52	65.85	-154.50	1,480.76	2,710.15	1,004.99	914.38	90.61	11.092	
6,900.00	5,473.33	6,970.10	5,988.56	85.04	67.07	-154.41	1,508.42	2,761.70	1,019.50	927.16	92.34	11.040	
7,000.00	5,546.28	7,069.03	6,068.34	86.55	68.28	-154.32	1,536.08	2,813.26	1,034.01	939.93	94.08	10.991	
7,100.00	5,619.24	7,167.96	6,148.11	88.06	69.50	-154.23	1,563.73	2,864.81	1,048.53	952.71	95.82	10.943	
7,200.00	5,692.20	7,266.89	6,227.89	89.58	70.71	-154.14	1,591.39	2,916.36	1,063.05	965.49	97.56	10.896	
7,300.00	5,765.15	7,365.82	6,307.66	91.09	71.93	-154.06	1,619.05	2,967.91	1,077.57	978.27	99.30	10.851	
7,400.00	5,838.11	7,464.74	6,387.44	92.61	73.15	-153.98	1,646.71	3,019.47	1,092.09	991.04	101.05	10.808	
7,500.00	5,911.07	7,563.67	6,467.21	94.12	74.36	-153.90	1,674.37	3,071.02	1,106.62	1,003.82	102.79	10.765	
7,600.00	5,984.03	7,662.60	6,546.99	95.64	75.58	-153.82	1,702.03	3,122.57	1,121.14	1,016.60	104.54	10.724	
7,700.00	6,056.98	7,761.53	6,626.76	97.15	76.79	-153.74	1,729.69	3,174.13	1,135.67	1,029.38	106.29	10.685	
7,800.00	6,129.94	7,860.46	6,706.54	98.67	78.01	-153.67	1,757.34	3,225.68	1,150.20	1,042.17	108.04	10.646	
7,900.00	6,202.90	7,959.38	6,786.31	100.18	79.23	-153.60	1,785.00	3,277.23	1,164.74	1,054.95	109.79	10.609	
8,000.00	6,275.85	8,058.31	6,866.09	101.70	80.44	-153.53	1,812.66	3,328.78	1,179.27	1,067.73	111.54	10.573	
8,100.00	6,348.81	8,157.24	6,945.86	103.21	81.66	-153.46	1,840.32	3,380.34	1,193.81	1,080.51	113.29	10.537	
8,200.00	6,421.77	8,263.71	7,031.83	104.73	82.96	-153.41	1,869.64	3,435.89	1,208.30	1,093.20	115.09	10.498	
8,300.00	6,494.72	8,407.35	7,151.36	106.24	84.58	-154.42	1,886.45	3,513.05	1,220.38	1,105.30	115.08	10.605	
8,400.00	6,567.68	8,534.68	7,257.41	107.76	85.73	-156.64	1,871.39	3,581.41	1,229.87	1,117.55	112.32	10.950	
8,500.00	6,640.64	8,638.49	7,340.13	109.27	86.43	-159.27	1,838.73	3,634.66	1,239.13	1,130.53	108.61	11.409	
8,600.00	6,713.59	8,719.73	7,400.64	110.79	86.81	-161.79	1,801.10	3,673.56	1,250.52	1,145.42	105.10	11.899	
8,700.00	6,786.55	8,782.70	7,444.10	112.30	87.02	-163.97	1,765.16	3,701.48	1,265.77	1,163.63	102.13	12.393	
8,800.00	6,859.51	8,831.82	7,475.56	113.82	87.13	-165.80	1,733.31	3,721.67	1,285.97	1,186.33	99.64	12.906	
8,900.00	6,932.46	8,870.69	7,498.76	115.33	87.18	-167.31	1,705.91	3,736.54	1,311.69	1,214.25	97.45	13.461	
9,000.00	7,005.42	8,900.00	7,515.20	116.85	87.20	-168.48	1,684.04	3,747.07	1,343.13	1,247.65	95.48	14.067	
9,104.89	7,081.95	8,928.60	7,530.31	118.44	87.21	-169.64	1,661.78	3,756.74	1,382.16	1,288.84	93.32	14.812	
9,150.00	7,115.15	8,939.45	7,535.80	119.12	87.21	-176.86	1,653.10	3,760.25	1,400.62	1,308.16	92.46	15.149	
9,200.00	7,152.46	8,950.00	7,541.00	119.86	87.21	174.88	1,644.55	3,763.58	1,421.79	1,330.13	91.66	15.511	
9,250.00	7,190.04	8,966.52	7,548.88	120.57	87.20	166.25	1,630.92	3,768.62	1,443.44	1,352.65	90.79	15.899	
9,300.00	7,227.59	8,981.34	7,555.66	121.25	87.19	157.72	1,618.49	3,772.95	1,465.31	1,375.24	90.07	16.268	
9,350.00	7,264.83	9,000.00	7,563.81	121.89	87.17	149.32	1,602.53	3,778.15	1,487.17	1,397.83	89.34	16.646	
9,400.00	7,301.48	9,012.96	7,569.22	122.48	87.16	141.50	1,591.27	3,781.60	1,508.75	1,419.87	88.88	16.974	
9,450.00	7,337.26	9,029.59	7,575.84	123.01	87.13	134.09	1,576.60	3,785.82	1,529.87	1,441.45	88.42	17.302	
9,500.00	7,371.90	9,050.00	7,583.47	123.49	87.10	127.22	1,558.31	3,790.68	1,550.31	1,462.37	87.95	17.628	
9,550.00	7,405.13	9,064.15	7,588.43	123.91	87.08	121.13	1,545.44	3,793.84	1,569.87	1,482.08	87.80	17.881	
9,600.00	7,436.70	9,081.97	7,594.31	124.27	87.04	115.62	1,529.04	3,797.58	1,588.40	1,500.75	87.65	18.122	
9,650.00	7,466.36	9,100.00	7,599.81	124.57	87.00	110.75	1,512.23	3,801.07	1,605.73	1,518.10	87.63	18.323	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,700.00	7,493.91	9,118.46	7,604.98	124.81	86.96	106.48	1,494.82	3,804.35	1,621.73	1,533.98	87.75	18.482	
9,750.00	7,519.11	9,137.05	7,609.71	125.00	86.91	102.79	1,477.09	3,807.34	1,636.27	1,548.26	88.01	18.592	
9,800.00	7,541.79	9,150.00	7,612.72	125.12	86.88	99.70	1,464.64	3,809.24	1,649.26	1,560.56	88.70	18.593	
9,850.00	7,561.77	9,174.77	7,617.81	125.20	86.80	97.01	1,440.61	3,812.44	1,660.54	1,571.54	89.00	18.658	
9,900.00	7,578.90	9,200.00	7,622.09	125.23	86.72	94.80	1,415.89	3,815.12	1,670.13	1,580.73	89.40	18.681	
9,950.00	7,593.04	9,200.00	7,622.09	125.22	86.72	93.18	1,415.89	3,815.12	1,677.98	1,586.58	91.40	18.359	
10,000.00	7,604.09	9,232.25	7,626.23	125.17	86.61	91.83	1,384.02	3,817.68	1,683.73	1,592.02	91.71	18.359	
10,050.00	7,611.97	9,250.00	7,627.87	125.08	86.55	90.95	1,366.37	3,818.68	1,687.71	1,594.68	93.03	18.141	
10,100.00	7,616.61	9,270.90	7,629.20	124.97	86.47	90.47	1,345.53	3,819.47	1,689.75	1,595.44	94.31	17.916	
10,145.95	7,618.00	9,288.68	7,629.83	124.84	86.41	90.37	1,327.77	3,819.81	1,689.91	1,594.21	95.70	17.658	
10,200.00	7,618.00	9,318.51	7,630.00	124.69	86.29	90.37	1,297.93	3,819.83	1,689.63	1,592.85	96.79	17.457	
10,300.00	7,618.00	9,418.51	7,630.00	124.41	85.92	90.37	1,197.94	3,819.49	1,689.63	1,593.90	95.73	17.650	
10,400.00	7,618.00	9,518.51	7,630.00	124.14	85.56	90.37	1,097.94	3,819.15	1,689.63	1,594.84	94.79	17.824	
10,500.00	7,618.00	9,618.51	7,630.00	123.88	85.21	90.37	997.94	3,818.82	1,689.63	1,595.65	93.98	17.979	
10,600.00	7,618.00	9,718.51	7,630.00	123.63	84.89	90.37	897.94	3,818.48	1,689.63	1,596.33	93.29	18.111	
10,700.00	7,618.00	9,818.51	7,630.00	123.40	84.58	90.37	797.94	3,818.14	1,689.63	1,596.89	92.74	18.219	
10,800.00	7,618.00	9,918.51	7,630.00	123.18	84.29	90.37	697.94	3,817.81	1,689.63	1,597.31	92.32	18.303	
10,900.00	7,618.00	10,018.51	7,630.00	122.96	84.01	90.37	597.94	3,817.47	1,689.63	1,597.60	92.03	18.360	
11,000.00	7,618.00	10,118.51	7,630.00	122.76	83.75	90.37	497.94	3,817.14	1,689.63	1,597.75	91.88	18.390	
11,100.00	7,618.00	10,218.51	7,630.00	122.57	83.51	90.37	397.94	3,816.80	1,689.63	1,597.77	91.86	18.394	
11,200.00	7,618.00	10,318.51	7,630.00	122.39	83.29	90.37	297.94	3,816.46	1,689.62	1,597.65	91.98	18.370	
11,300.00	7,618.00	10,418.51	7,630.00	122.23	83.08	90.37	197.94	3,816.13	1,689.62	1,597.39	92.23	18.319	
11,400.00	7,618.00	10,518.51	7,630.00	122.07	82.89	90.37	97.94	3,815.79	1,689.62	1,597.00	92.63	18.241	
11,500.00	7,618.00	10,618.51	7,630.00	121.93	82.71	90.37	-2.06	3,815.45	1,689.62	1,596.47	93.15	18.139	
11,600.00	7,618.00	10,718.51	7,630.00	121.79	82.56	90.37	-102.06	3,815.12	1,689.62	1,595.82	93.80	18.013	
11,700.00	7,618.00	10,818.51	7,630.00	121.67	82.42	90.37	-202.06	3,814.78	1,689.62	1,595.04	94.58	17.864	
11,800.00	7,618.00	10,918.51	7,630.00	121.56	82.31	90.37	-302.06	3,814.44	1,689.62	1,594.13	95.49	17.694	
11,900.00	7,618.00	11,018.51	7,630.00	121.46	82.21	90.37	-402.06	3,814.11	1,689.62	1,593.10	96.52	17.506	
12,000.00	7,618.00	11,118.51	7,630.00	121.38	82.13	90.37	-502.06	3,813.77	1,689.62	1,591.96	97.66	17.300	
12,100.00	7,618.00	11,218.51	7,630.00	121.30	82.07	90.37	-602.05	3,813.44	1,689.62	1,590.70	98.92	17.080	
12,200.00	7,618.00	11,318.51	7,630.00	121.24	82.03	90.37	-702.05	3,813.10	1,689.62	1,589.33	100.29	16.848	
12,300.00	7,618.00	11,418.51	7,630.00	121.19	82.02	90.37	-802.05	3,812.76	1,689.62	1,587.86	101.76	16.604	
12,400.00	7,618.00	11,518.51	7,630.00	121.16	82.04	90.37	-902.05	3,812.43	1,689.62	1,586.28	103.33	16.351	
12,500.00	7,618.00	11,618.51	7,630.00	121.14	82.07	90.37	-1,002.05	3,812.09	1,689.62	1,584.62	105.00	16.092	
12,600.00	7,618.00	11,718.51	7,630.00	121.13	82.14	90.37	-1,102.05	3,811.75	1,689.62	1,582.86	106.76	15.827	
12,700.00	7,618.00	11,818.51	7,630.00	121.13	82.23	90.37	-1,202.05	3,811.42	1,689.62	1,581.01	108.60	15.558	
12,800.00	7,618.00	11,918.51	7,630.00	121.15	82.35	90.37	-1,302.05	3,811.08	1,689.61	1,579.09	110.53	15.287	
12,900.00	7,618.00	12,018.51	7,630.00	121.18	82.51	90.37	-1,402.05	3,810.75	1,689.61	1,577.08	112.53	15.015	
13,000.00	7,618.00	12,118.51	7,630.00	121.23	82.70	90.37	-1,502.05	3,810.41	1,689.61	1,575.00	114.61	14.742	
13,100.00	7,618.00	12,218.51	7,630.00	121.29	82.93	90.37	-1,602.05	3,810.07	1,689.61	1,572.85	116.76	14.471	
13,200.00	7,618.00	12,318.51	7,630.00	121.37	83.20	90.37	-1,702.05	3,809.74	1,689.61	1,570.64	118.97	14.202	
13,300.00	7,618.00	12,418.51	7,630.00	121.46	83.50	90.37	-1,802.05	3,809.40	1,689.61	1,568.36	121.25	13.935	
13,400.00	7,618.00	12,518.51	7,630.00	121.57	83.86	90.37	-1,902.05	3,809.06	1,689.61	1,566.03	123.59	13.672	
13,500.00	7,618.00	12,618.51	7,630.00	121.70	84.25	90.37	-2,002.05	3,808.73	1,689.61	1,563.63	125.98	13.412	
13,600.00	7,618.00	12,718.51	7,630.00	121.84	84.70	90.37	-2,102.05	3,808.39	1,689.61	1,561.19	128.42	13.157	
13,700.00	7,618.00	12,818.51	7,630.00	122.01	85.19	90.37	-2,202.05	3,808.06	1,689.61	1,558.69	130.91	12.906	
13,800.00	7,618.00	12,918.51	7,630.00	122.19	85.74	90.37	-2,302.05	3,807.72	1,689.61	1,556.15	133.46	12.660	
13,900.00	7,618.00	13,018.51	7,630.00	122.39	86.34	90.37	-2,402.04	3,807.38	1,689.61	1,553.57	136.04	12.420	
14,000.00	7,618.00	13,118.51	7,630.00	122.62	86.99	90.37	-2,502.04	3,807.05	1,689.61	1,550.94	138.67	12.185	
14,100.00	7,618.00	13,218.51	7,630.00	122.86	87.69	90.37	-2,602.04	3,806.71	1,689.61	1,548.27	141.33	11.955	
14,200.00	7,618.00	13,318.51	7,630.00	123.12	88.44	90.37	-2,702.04	3,806.37	1,689.61	1,545.57	144.04	11.730	
14,300.00	7,618.00	13,418.51	7,630.00	123.41	89.25	90.37	-2,802.04	3,806.04	1,689.60	1,542.83	146.78	11.511	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,400.00	7,618.00	13,518.51	7,630.00	123.72	90.11	90.37	-2,902.04	3,805.70	1,689.60	1,540.06	149.55	11.298	
14,500.00	7,618.00	13,618.51	7,630.00	124.06	91.01	90.37	-3,002.04	3,805.37	1,689.60	1,537.25	152.35	11.090	
14,600.00	7,618.00	13,718.51	7,630.00	124.42	91.96	90.37	-3,102.04	3,805.03	1,689.60	1,534.42	155.19	10.888	
14,700.00	7,618.00	13,818.51	7,630.00	124.80	92.95	90.37	-3,202.04	3,804.69	1,689.60	1,531.55	158.05	10.690	
14,800.00	7,618.00	13,918.51	7,630.00	125.21	93.99	90.37	-3,302.04	3,804.36	1,689.60	1,528.67	160.94	10.499	
14,900.00	7,618.00	14,018.51	7,630.00	125.65	95.06	90.37	-3,402.04	3,804.02	1,689.60	1,525.75	163.85	10.312	
15,000.00	7,618.00	14,118.51	7,630.00	126.11	96.18	90.37	-3,502.04	3,803.68	1,689.60	1,522.81	166.79	10.130	
15,100.00	7,618.00	14,218.51	7,630.00	126.61	97.32	90.37	-3,602.04	3,803.35	1,689.60	1,519.85	169.75	9.954	
15,200.00	7,618.00	14,318.51	7,630.00	127.13	98.50	90.37	-3,702.04	3,803.01	1,689.60	1,516.87	172.73	9.782	
15,300.00	7,618.00	14,418.51	7,630.00	127.68	99.71	90.37	-3,802.04	3,802.68	1,689.60	1,513.87	175.73	9.615	
15,400.00	7,618.00	14,518.51	7,630.00	128.26	100.95	90.37	-3,902.04	3,802.34	1,689.60	1,510.84	178.75	9.452	
15,500.00	7,618.00	14,618.51	7,630.00	128.87	102.21	90.37	-4,002.04	3,802.00	1,689.60	1,507.80	181.79	9.294	
15,600.00	7,618.00	14,718.51	7,630.00	129.51	103.50	90.37	-4,102.03	3,801.67	1,689.60	1,504.75	184.85	9.140	
15,700.00	7,618.00	14,818.51	7,630.00	130.18	104.81	90.37	-4,202.03	3,801.33	1,689.60	1,501.67	187.93	8.991	
15,800.00	7,618.00	14,918.51	7,630.00	130.88	106.14	90.37	-4,302.03	3,800.99	1,689.60	1,498.58	191.02	8.845	
15,900.00	7,618.00	15,018.51	7,630.00	131.61	107.49	90.37	-4,402.03	3,800.66	1,689.59	1,495.47	194.12	8.704	
16,000.00	7,618.00	15,118.51	7,630.00	132.37	108.85	90.37	-4,502.03	3,800.32	1,689.59	1,492.35	197.24	8.566	
16,100.00	7,618.00	15,218.51	7,630.00	133.17	110.24	90.37	-4,602.03	3,799.99	1,689.59	1,489.22	200.37	8.432	
16,200.00	7,618.00	15,318.51	7,630.00	133.99	111.64	90.37	-4,702.03	3,799.65	1,689.59	1,486.07	203.52	8.302	
16,300.00	7,618.00	15,418.51	7,630.00	134.84	113.06	90.37	-4,802.03	3,799.31	1,689.59	1,482.91	206.68	8.175	
16,400.00	7,618.00	15,518.51	7,630.00	135.72	114.48	90.37	-4,902.03	3,798.98	1,689.59	1,479.74	209.85	8.051	
16,500.00	7,618.00	15,618.51	7,630.00	136.63	115.93	90.37	-5,002.03	3,798.64	1,689.59	1,476.56	213.03	7.931	
16,600.00	7,618.00	15,718.51	7,630.00	137.57	117.38	90.37	-5,102.03	3,798.30	1,689.59	1,473.36	216.23	7.814	
16,700.00	7,618.00	15,818.51	7,630.00	138.54	118.85	90.37	-5,202.03	3,797.97	1,689.59	1,470.16	219.43	7.700	
16,800.00	7,618.00	15,918.51	7,630.00	139.53	120.32	90.37	-5,302.03	3,797.63	1,689.59	1,466.94	222.65	7.589	
16,900.00	7,618.00	16,018.51	7,630.00	140.55	121.81	90.37	-5,402.03	3,797.30	1,689.59	1,463.72	225.87	7.480	
17,000.00	7,618.00	16,118.51	7,630.00	141.60	123.30	90.37	-5,502.03	3,796.96	1,689.59	1,460.48	229.10	7.375	
17,100.00	7,618.00	16,218.51	7,630.00	142.67	124.81	90.37	-5,602.03	3,796.62	1,689.59	1,457.24	232.34	7.272	
17,200.00	7,618.00	16,318.51	7,630.00	143.77	126.32	90.37	-5,702.03	3,796.29	1,689.59	1,453.99	235.59	7.172	
17,300.00	7,618.00	16,418.51	7,630.00	144.88	127.84	90.37	-5,802.03	3,795.95	1,689.59	1,450.73	238.85	7.074	
17,400.00	7,618.00	16,518.51	7,630.00	146.02	129.37	90.37	-5,902.02	3,795.61	1,689.58	1,447.47	242.12	6.978	
17,500.00	7,618.00	16,618.51	7,630.00	147.19	130.91	90.37	-6,002.02	3,795.28	1,689.58	1,444.19	245.39	6.885	
17,600.00	7,618.00	16,718.51	7,630.00	148.37	132.45	90.37	-6,102.02	3,794.94	1,689.58	1,440.91	248.67	6.794	
17,700.00	7,618.00	16,818.51	7,630.00	149.57	134.00	90.37	-6,202.02	3,794.61	1,689.58	1,437.62	251.96	6.706	
17,800.00	7,618.00	16,918.51	7,630.00	150.79	135.56	90.37	-6,302.02	3,794.27	1,689.58	1,434.33	255.25	6.619	
17,900.00	7,618.00	17,018.51	7,630.00	152.03	137.12	90.37	-6,402.02	3,793.93	1,689.58	1,431.03	258.55	6.535	
18,000.00	7,618.00	17,118.51	7,630.00	153.29	138.68	90.37	-6,502.02	3,793.60	1,689.58	1,427.72	261.86	6.452	
18,100.00	7,618.00	17,218.51	7,630.00	154.57	140.26	90.37	-6,602.02	3,793.26	1,689.58	1,424.41	265.17	6.372	
18,200.00	7,618.00	17,318.51	7,630.00	155.86	141.84	90.37	-6,702.02	3,792.92	1,689.58	1,421.09	268.49	6.293	
18,300.00	7,618.00	17,418.51	7,630.00	157.17	143.42	90.37	-6,802.02	3,792.59	1,689.58	1,417.77	271.81	6.216	
18,400.00	7,618.00	17,518.51	7,630.00	158.49	145.01	90.37	-6,902.02	3,792.25	1,689.58	1,414.44	275.14	6.141	
18,500.00	7,618.00	17,618.51	7,630.00	159.82	146.60	90.37	-7,002.02	3,791.92	1,689.58	1,411.10	278.47	6.067	
18,600.00	7,618.00	17,718.51	7,630.00	161.17	148.19	90.37	-7,102.02	3,791.58	1,689.58	1,407.76	281.81	5.995	
18,700.00	7,618.00	17,818.51	7,630.00	162.54	149.80	90.37	-7,202.02	3,791.24	1,689.58	1,404.42	285.16	5.925	
18,800.00	7,618.00	17,918.51	7,630.00	163.91	151.40	90.37	-7,302.02	3,790.91	1,689.58	1,401.07	288.50	5.856	
18,900.00	7,618.00	18,018.51	7,630.00	165.30	153.01	90.37	-7,402.02	3,790.57	1,689.58	1,397.72	291.86	5.789	
19,000.00	7,618.00	18,118.51	7,630.00	166.70	154.62	90.37	-7,502.02	3,790.23	1,689.57	1,394.36	295.21	5.723	
19,100.00	7,618.00	18,218.51	7,630.00	168.10	156.24	90.37	-7,602.02	3,789.90	1,689.57	1,391.00	298.57	5.659	
19,200.00	7,618.00	18,318.51	7,630.00	169.52	157.86	90.37	-7,702.01	3,789.56	1,689.57	1,387.64	301.94	5.596	
19,300.00	7,618.00	18,418.51	7,630.00	170.95	159.48	90.37	-7,802.01	3,789.23	1,689.57	1,384.27	305.31	5.534	
19,400.00	7,618.00	18,518.51	7,630.00	172.39	161.10	90.37	-7,902.01	3,788.89	1,689.57	1,380.89	308.68	5.474	
19,500.00	7,618.00	18,618.51	7,630.00	173.84	162.73	90.37	-8,002.01	3,788.55	1,689.57	1,377.52	312.05	5.414	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,600.00	7,618.00	18,718.51	7,630.00	175.30	164.37	90.37	-8,102.01	3,788.22	1,689.57	1,374.14	315.43	5.356	
19,700.00	7,618.00	18,818.51	7,630.00	176.76	166.00	90.37	-8,202.01	3,787.88	1,689.57	1,370.75	318.82	5.300	
19,800.00	7,618.00	18,918.51	7,630.00	178.24	167.64	90.37	-8,302.01	3,787.54	1,689.57	1,367.37	322.20	5.244	
19,896.19	7,618.00	19,014.70	7,630.00	179.66	169.21	90.37	-8,398.20	3,787.22	1,689.57	1,364.11	325.46	5.191	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	-90.00	0.00	-40.04	40.04				
100.00	100.00	101.00	101.00	0.13	0.14	-90.00	0.00	-40.04	40.04	39.77	0.27	146.970	
200.00	200.00	201.00	201.00	0.49	0.50	-90.00	0.00	-40.04	40.04	39.05	0.99	40.470	CC, ES
300.00	299.98	300.98	300.98	0.85	0.85	-160.15	0.00	-40.04	41.68	39.97	1.70	24.473	
400.00	399.84	400.84	400.84	1.21	1.21	-162.31	0.00	-40.04	46.63	44.21	2.42	19.262	
500.00	499.45	500.45	500.45	1.58	1.57	-165.02	0.00	-40.04	55.00	51.86	3.14	17.502	
600.00	598.70	599.70	599.70	1.97	1.93	-167.67	0.00	-40.04	66.85	62.99	3.87	17.292	
700.00	697.47	701.22	701.20	2.38	2.29	-169.66	0.79	-38.44	80.53	75.94	4.59	17.552	
800.00	795.62	803.26	803.09	2.83	2.65	-170.86	3.18	-33.57	94.29	88.97	5.31	17.749	
900.00	893.06	905.82	905.23	3.31	3.02	-171.56	7.19	-25.41	108.06	102.01	6.04	17.882	
1,000.00	989.64	1,008.88	1,007.50	3.83	3.40	-171.93	12.85	-13.90	121.81	115.03	6.78	17.963	
1,100.00	1,085.27	1,112.46	1,109.74	4.40	3.81	-172.07	20.17	0.98	135.51	127.98	7.53	17.997	
1,200.00	1,179.82	1,216.57	1,211.82	5.02	4.25	-172.04	29.16	19.27	149.14	140.85	8.29	17.991	
1,300.00	1,273.17	1,321.19	1,313.59	5.70	4.73	-171.87	39.84	40.99	162.68	153.63	9.06	17.961	
1,400.00	1,365.21	1,426.32	1,414.91	6.43	5.25	-171.61	52.21	66.17	176.12	166.28	9.84	17.892	
1,500.00	1,455.84	1,531.98	1,515.62	7.23	5.82	-171.26	66.29	94.81	189.45	178.80	10.65	17.792	
1,600.00	1,544.94	1,638.14	1,615.57	8.09	6.44	-170.84	82.08	126.93	202.64	191.16	11.47	17.662	
1,700.00	1,632.39	1,744.82	1,714.59	9.01	7.13	-170.37	99.58	162.52	215.68	203.36	12.32	17.503	
1,800.00	1,718.11	1,852.01	1,812.53	10.00	7.89	-169.85	118.79	201.60	228.57	215.37	13.20	17.315	
1,900.00	1,801.97	1,959.70	1,909.22	11.07	8.72	-169.29	139.71	244.14	241.29	227.18	14.11	17.097	
2,000.00	1,883.88	2,067.88	2,004.49	12.20	9.63	-168.69	162.32	290.12	253.83	238.77	15.06	16.851	
2,100.00	1,963.74	2,176.55	2,098.17	13.41	10.63	-168.06	186.61	339.54	266.18	250.12	16.06	16.575	
2,200.00	2,041.45	2,285.71	2,190.10	14.69	11.71	-167.40	212.57	392.34	278.33	261.22	17.11	16.271	
2,300.00	2,116.92	2,395.34	2,280.11	16.05	12.88	-166.70	240.18	448.50	290.26	272.05	18.21	15.939	
2,357.48	2,159.25	2,455.69	2,328.69	16.86	13.56	-166.32	255.98	480.64	297.14	278.25	18.90	15.725	
2,400.00	2,190.27	2,502.15	2,362.54	17.47	14.09	-166.09	267.07	503.19	302.52	283.07	19.45	15.550	
2,500.00	2,263.22	2,602.99	2,442.16	18.92	15.25	-165.59	293.14	556.24	315.20	294.45	20.74	15.195	
2,600.00	2,336.18	2,703.83	2,521.77	20.37	16.43	-165.13	319.22	609.28	327.89	305.83	22.06	14.863	
2,700.00	2,409.14	2,804.67	2,601.39	21.84	17.62	-164.71	345.30	662.32	340.60	317.20	23.40	14.553	
2,800.00	2,482.09	2,905.52	2,681.01	23.31	18.82	-164.31	371.37	715.36	353.33	328.56	24.77	14.264	
2,900.00	2,555.05	2,993.64	2,760.62	24.78	19.88	-163.94	397.45	768.41	366.08	340.00	26.08	14.038	
3,000.00	2,628.01	3,107.20	2,840.24	26.27	21.25	-163.60	423.53	821.45	378.84	351.28	27.56	13.744	
3,100.00	2,700.96	3,208.04	2,919.85	27.75	22.47	-163.28	449.61	874.49	391.61	362.63	28.99	13.510	
3,200.00	2,773.92	3,308.88	2,999.47	29.24	23.69	-162.98	475.68	927.53	404.40	373.97	30.42	13.292	
3,300.00	2,846.88	3,390.27	3,079.09	30.73	24.69	-162.70	501.76	980.58	417.19	385.45	31.75	13.141	
3,400.00	2,919.83	3,489.43	3,158.70	32.23	25.90	-162.43	527.84	1,033.62	430.00	396.80	33.20	12.953	
3,500.00	2,992.79	3,588.59	3,238.32	33.72	27.11	-162.18	553.91	1,086.66	442.81	408.15	34.66	12.776	
3,600.00	3,065.75	3,687.75	3,317.94	35.22	28.33	-161.94	579.99	1,139.70	455.63	419.50	36.13	12.610	
3,700.00	3,138.71	3,786.91	3,397.55	36.72	29.55	-161.72	606.07	1,192.74	468.46	430.84	37.61	12.455	
3,800.00	3,211.66	3,886.06	3,477.17	38.22	30.77	-161.51	632.14	1,245.79	481.29	442.19	39.10	12.309	
3,900.00	3,284.62	3,985.22	3,556.79	39.72	31.99	-161.31	658.22	1,298.83	494.13	453.53	40.60	12.171	
4,000.00	3,357.58	4,084.38	3,636.40	41.22	33.21	-161.12	684.30	1,351.87	506.98	464.87	42.10	12.042	
4,100.00	3,430.53	4,183.54	3,716.02	42.73	34.44	-160.94	710.37	1,404.91	519.83	476.21	43.61	11.920	
4,200.00	3,503.49	4,282.69	3,795.64	44.23	35.67	-160.77	736.45	1,457.96	532.68	487.55	45.13	11.804	
4,300.00	3,576.45	4,381.85	3,875.25	45.74	36.89	-160.60	762.53	1,511.00	545.54	498.89	46.65	11.695	
4,400.00	3,649.40	4,481.01	3,954.87	47.25	38.12	-160.45	788.61	1,564.04	558.41	510.23	48.18	11.591	
4,500.00	3,722.36	4,580.17	4,034.48	48.75	39.35	-160.30	814.68	1,617.08	571.28	521.57	49.71	11.493	
4,600.00	3,795.32	4,679.33	4,114.10	50.26	40.58	-160.15	840.76	1,670.13	584.15	532.90	51.24	11.399	
4,700.00	3,868.27	4,778.48	4,193.72	51.77	41.81	-160.02	866.84	1,723.17	597.02	544.24	52.78	11.311	
4,800.00	3,941.23	4,877.64	4,273.33	53.28	43.05	-159.89	892.91	1,776.21	609.90	555.57	54.33	11.226	
4,900.00	4,014.19	4,976.80	4,352.95	54.79	44.28	-159.76	918.99	1,829.25	622.78	566.91	55.88	11.146	
5,000.00	4,087.15	5,075.96	4,432.57	56.30	45.51	-159.64	945.07	1,882.30	635.67	578.24	57.43	11.069	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	5,175.12	4,512.18	57.81	46.74	-159.53	971.14	1,935.34	648.55	589.57	58.98	10.996	
5,200.00	4,233.06	5,274.27	4,591.80	59.32	47.98	-159.41	997.22	1,988.38	661.44	600.91	60.54	10.926	
5,300.00	4,306.02	5,373.43	4,671.42	60.83	49.21	-159.31	1,023.30	2,041.42	674.34	612.24	62.10	10.859	
5,400.00	4,378.97	5,472.59	4,751.03	62.34	50.45	-159.20	1,049.37	2,094.46	687.23	623.57	63.66	10.795	
5,500.00	4,451.93	5,571.75	4,830.65	63.85	51.68	-159.11	1,075.45	2,147.51	700.13	634.90	65.22	10.734	
5,600.00	4,524.89	5,670.90	4,910.27	65.36	52.92	-159.01	1,101.53	2,200.55	713.02	646.23	66.79	10.675	
5,700.00	4,597.84	5,770.06	4,989.88	66.88	54.15	-158.92	1,127.61	2,253.59	725.92	657.56	68.36	10.619	
5,800.00	4,670.80	5,869.22	5,069.50	68.39	55.39	-158.83	1,153.68	2,306.63	738.83	668.89	69.93	10.565	
5,900.00	4,743.76	5,968.38	5,149.12	69.90	56.63	-158.74	1,179.76	2,359.68	751.73	680.22	71.51	10.513	
6,000.00	4,816.71	6,067.54	5,228.73	71.41	57.86	-158.66	1,205.84	2,412.72	764.63	691.55	73.08	10.463	
6,100.00	4,889.67	6,166.69	5,308.35	72.93	59.10	-158.58	1,231.91	2,465.76	777.54	702.88	74.66	10.415	
6,200.00	4,962.63	6,265.85	5,387.96	74.44	60.34	-158.50	1,257.99	2,518.80	790.45	714.21	76.24	10.368	
6,300.00	5,035.59	6,365.01	5,467.58	75.95	61.58	-158.43	1,284.07	2,571.85	803.36	725.54	77.82	10.324	
6,400.00	5,108.54	6,464.17	5,547.20	77.47	62.81	-158.36	1,310.14	2,624.89	816.27	736.87	79.40	10.281	
6,500.00	5,181.50	6,563.32	5,626.81	78.98	64.05	-158.28	1,336.22	2,677.93	829.18	748.20	80.98	10.239	
6,600.00	5,254.46	6,662.48	5,706.43	80.49	65.29	-158.22	1,362.30	2,730.97	842.10	759.53	82.57	10.199	
6,700.00	5,327.41	6,761.64	5,786.05	82.01	66.53	-158.15	1,388.37	2,784.01	855.01	770.86	84.15	10.160	
6,800.00	5,400.37	6,860.80	5,865.66	83.52	67.77	-158.09	1,414.45	2,837.06	867.93	782.19	85.74	10.123	
6,900.00	5,473.33	6,959.96	5,945.28	85.04	69.00	-158.02	1,440.53	2,890.10	880.84	793.51	87.33	10.087	
7,000.00	5,546.28	7,059.11	6,024.90	86.55	70.24	-157.96	1,466.61	2,943.14	893.76	804.84	88.92	10.052	
7,100.00	5,619.24	7,158.27	6,104.51	88.06	71.48	-157.90	1,492.68	2,996.18	906.68	816.17	90.51	10.018	
7,200.00	5,692.20	7,257.43	6,184.13	89.58	72.72	-157.85	1,518.76	3,049.23	919.60	827.50	92.10	9.985	
7,300.00	5,765.15	7,356.59	6,263.75	91.09	73.96	-157.79	1,544.84	3,102.27	932.52	838.83	93.69	9.953	
7,400.00	5,838.11	7,455.75	6,343.36	92.61	75.20	-157.74	1,570.91	3,155.31	945.44	850.15	95.29	9.922	
7,500.00	5,911.07	7,554.90	6,422.98	94.12	76.44	-157.69	1,596.99	3,208.35	958.36	861.48	96.88	9.892	
7,600.00	5,984.03	7,654.06	6,502.59	95.64	77.68	-157.63	1,623.07	3,261.40	971.28	872.81	98.48	9.863	
7,700.00	6,056.98	7,753.22	6,582.21	97.15	78.92	-157.58	1,649.14	3,314.44	984.21	884.14	100.07	9.835	
7,800.00	6,129.94	7,852.38	6,661.83	98.67	80.16	-157.54	1,675.22	3,367.48	997.13	895.46	101.67	9.808	
7,900.00	6,202.90	7,951.53	6,741.44	100.18	81.40	-157.49	1,701.30	3,420.52	1,010.06	906.79	103.27	9.781	
8,000.00	6,275.85	8,050.69	6,821.06	101.70	82.64	-157.44	1,727.37	3,473.57	1,022.98	918.12	104.86	9.755	
8,100.00	6,348.81	8,149.85	6,900.68	103.21	83.88	-157.40	1,753.45	3,526.61	1,035.91	929.44	106.46	9.730	
8,200.00	6,421.77	8,249.01	6,980.29	104.73	85.12	-157.35	1,779.53	3,579.65	1,048.83	940.77	108.06	9.706	
8,300.00	6,494.72	8,348.17	7,059.91	106.24	86.36	-157.31	1,805.61	3,632.69	1,061.76	952.10	109.66	9.682	
8,400.00	6,567.68	8,447.32	7,139.53	107.76	87.60	-157.27	1,831.68	3,685.73	1,074.69	963.42	111.26	9.659	
8,500.00	6,640.64	8,546.48	7,219.14	109.27	88.84	-157.23	1,857.76	3,738.78	1,087.62	974.75	112.87	9.636	
8,600.00	6,713.59	8,654.27	7,306.10	110.79	90.18	-157.29	1,884.10	3,796.70	1,100.39	986.05	114.34	9.624	
8,700.00	6,786.55	8,771.16	7,402.94	112.30	91.51	-158.37	1,893.32	3,861.15	1,111.75	997.94	113.82	9.768	
8,800.00	6,859.51	8,876.36	7,489.85	113.82	92.52	-160.31	1,881.31	3,918.91	1,122.43	1,011.02	111.40	10.075	
8,900.00	6,932.46	8,965.73	7,561.25	115.33	93.21	-162.64	1,856.25	3,966.31	1,134.15	1,025.92	108.23	10.479	
9,000.00	7,005.42	9,039.23	7,616.97	116.85	93.65	-164.95	1,825.86	4,003.27	1,148.68	1,043.58	105.10	10.930	
9,104.89	7,081.95	9,101.50	7,661.33	118.44	93.94	-167.16	1,793.59	4,032.67	1,168.45	1,066.27	102.18	11.435	
9,150.00	7,115.15	9,125.38	7,677.53	119.12	94.02	-173.84	1,779.71	4,043.40	1,178.54	1,077.44	101.10	11.658	
9,200.00	7,152.46	9,150.00	7,693.72	119.86	94.10	178.53	1,764.57	4,054.11	1,190.56	1,090.41	100.16	11.887	
9,250.00	7,190.04	9,177.98	7,711.44	120.57	94.17	170.63	1,746.36	4,065.84	1,203.27	1,104.03	99.24	12.125	
9,300.00	7,227.59	9,200.00	7,724.85	121.25	94.23	162.93	1,731.32	4,074.70	1,216.47	1,117.78	98.69	12.326	
9,350.00	7,264.83	9,230.27	7,742.48	121.89	94.27	155.19	1,709.66	4,086.36	1,229.92	1,131.97	97.95	12.557	
9,400.00	7,301.48	9,256.32	7,756.88	122.48	94.31	147.92	1,690.14	4,095.87	1,243.47	1,146.00	97.46	12.758	
9,450.00	7,337.26	9,282.34	7,770.50	123.01	94.32	141.13	1,669.89	4,104.86	1,256.92	1,159.84	97.07	12.948	
9,500.00	7,371.90	9,308.32	7,783.33	123.49	94.33	134.87	1,648.94	4,113.32	1,270.10	1,173.32	96.78	13.124	
9,550.00	7,405.13	9,334.27	7,795.35	123.91	94.33	129.20	1,627.35	4,121.24	1,282.87	1,186.29	96.58	13.283	
9,600.00	7,436.70	9,360.21	7,806.53	124.27	94.32	124.11	1,605.14	4,128.61	1,295.06	1,198.58	96.48	13.423	
9,650.00	7,466.36	9,386.12	7,816.86	124.57	94.29	119.60	1,582.36	4,135.40	1,306.56	1,210.06	96.50	13.540	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,700.00	7,493.91	9,412.03	7,826.31	124.81	94.26	115.64	1,559.06	4,141.61	1,317.24	1,220.61	96.63	13.632	
9,750.00	7,519.11	9,437.92	7,834.88	125.00	94.22	112.21	1,535.28	4,147.23	1,326.99	1,230.11	96.89	13.696	
9,800.00	7,541.79	9,463.81	7,842.55	125.12	94.17	109.28	1,511.07	4,152.24	1,335.73	1,238.44	97.29	13.730	
9,850.00	7,561.77	9,489.70	7,849.29	125.20	94.12	106.81	1,486.47	4,156.65	1,343.37	1,245.53	97.83	13.731	
9,900.00	7,578.90	9,515.58	7,855.10	125.23	94.06	104.78	1,461.54	4,160.43	1,349.84	1,251.30	98.53	13.699	
9,950.00	7,593.04	9,550.00	7,861.37	125.22	93.96	103.13	1,427.94	4,164.48	1,355.13	1,256.28	98.85	13.709	
10,000.00	7,604.09	9,567.34	7,863.89	125.17	93.91	101.96	1,410.87	4,166.10	1,359.06	1,258.66	100.40	13.537	
10,050.00	7,611.97	9,600.00	7,867.46	125.08	93.81	101.12	1,378.49	4,168.37	1,361.76	1,260.68	101.07	13.473	
10,100.00	7,616.61	9,619.10	7,868.84	124.97	93.74	100.69	1,359.46	4,169.22	1,363.07	1,260.22	102.84	13.254	
10,145.95	7,618.00	9,650.00	7,869.94	124.84	93.64	100.61	1,328.58	4,169.85	1,363.16	1,259.57	103.59	13.159	
10,173.25	7,618.00	9,663.22	7,870.00	124.76	93.59	100.61	1,323.53	4,169.87	1,362.95	1,257.89	105.06	12.973	
10,200.00	7,618.00	9,681.81	7,870.00	124.69	93.52	100.61	1,296.77	4,169.78	1,362.95	1,258.08	104.87	12.997	
10,300.00	7,618.00	9,781.81	7,870.00	124.41	93.17	100.61	1,196.78	4,169.44	1,362.95	1,258.84	104.11	13.092	
10,400.00	7,618.00	9,881.81	7,870.00	124.14	92.83	100.61	1,096.78	4,169.11	1,362.95	1,259.50	103.45	13.175	
10,500.00	7,618.00	9,981.81	7,870.00	123.88	92.51	100.61	996.78	4,168.77	1,362.95	1,260.04	102.92	13.243	
10,600.00	7,618.00	10,081.81	7,870.00	123.63	92.21	100.61	896.78	4,168.43	1,362.95	1,260.46	102.49	13.298	
10,700.00	7,618.00	10,181.81	7,870.00	123.40	91.92	100.61	796.78	4,168.09	1,362.95	1,260.76	102.19	13.338	
10,800.00	7,618.00	10,281.81	7,870.00	123.18	91.65	100.61	696.78	4,167.76	1,362.95	1,260.95	102.00	13.362	
10,900.00	7,618.00	10,381.81	7,870.00	122.96	91.39	100.61	596.78	4,167.42	1,362.95	1,261.02	101.94	13.371	
11,000.00	7,618.00	10,481.81	7,870.00	122.76	91.15	100.61	496.78	4,167.08	1,362.95	1,260.96	101.99	13.364	
11,100.00	7,618.00	10,581.81	7,870.00	122.57	90.92	100.61	396.78	4,166.74	1,362.95	1,260.79	102.16	13.341	
11,200.00	7,618.00	10,681.81	7,870.00	122.39	90.71	100.61	296.78	4,166.41	1,362.95	1,260.50	102.45	13.303	
11,300.00	7,618.00	10,781.81	7,870.00	122.23	90.52	100.61	196.78	4,166.07	1,362.96	1,260.09	102.86	13.250	
11,400.00	7,618.00	10,881.81	7,870.00	122.07	90.34	100.61	96.78	4,165.73	1,362.96	1,259.57	103.39	13.183	
11,500.00	7,618.00	10,981.81	7,870.00	121.93	90.17	100.61	-3.22	4,165.39	1,362.96	1,258.93	104.03	13.102	
11,600.00	7,618.00	11,081.81	7,870.00	121.79	90.03	100.61	-103.22	4,165.06	1,362.96	1,258.18	104.78	13.008	
11,700.00	7,618.00	11,181.81	7,870.00	121.67	89.90	100.61	-203.22	4,164.72	1,362.96	1,257.32	105.64	12.902	
11,800.00	7,618.00	11,281.81	7,870.00	121.56	89.79	100.61	-303.22	4,164.38	1,362.96	1,256.35	106.61	12.785	
11,900.00	7,618.00	11,381.81	7,870.00	121.46	89.69	100.61	-403.22	4,164.04	1,362.96	1,255.28	107.68	12.657	
12,000.00	7,618.00	11,481.81	7,870.00	121.38	89.62	100.61	-503.22	4,163.71	1,362.96	1,254.10	108.86	12.521	
12,100.00	7,618.00	11,581.81	7,870.00	121.30	89.56	100.61	-603.21	4,163.37	1,362.96	1,252.83	110.13	12.376	
12,200.00	7,618.00	11,681.81	7,870.00	121.24	89.52	100.61	-703.21	4,163.03	1,362.96	1,251.46	111.50	12.224	
12,300.00	7,618.00	11,781.81	7,870.00	121.19	89.50	100.61	-803.21	4,162.69	1,362.96	1,250.01	112.95	12.067	
12,400.00	7,618.00	11,881.81	7,870.00	121.16	89.50	100.61	-903.21	4,162.36	1,362.96	1,248.46	114.50	11.903	
12,500.00	7,618.00	11,981.81	7,870.00	121.14	89.53	100.61	-1,003.21	4,162.02	1,362.96	1,246.83	116.13	11.736	
12,600.00	7,618.00	12,081.81	7,870.00	121.13	89.58	100.61	-1,103.21	4,161.68	1,362.96	1,245.12	117.84	11.566	
12,700.00	7,618.00	12,181.81	7,870.00	121.13	89.65	100.61	-1,203.21	4,161.34	1,362.96	1,243.33	119.63	11.393	
12,800.00	7,618.00	12,281.81	7,870.00	121.15	89.74	100.61	-1,303.21	4,161.01	1,362.96	1,241.47	121.49	11.219	
12,900.00	7,618.00	12,381.81	7,870.00	121.18	89.87	100.61	-1,403.21	4,160.67	1,362.96	1,239.54	123.42	11.043	
13,000.00	7,618.00	12,481.81	7,870.00	121.23	90.02	100.61	-1,503.21	4,160.33	1,362.97	1,237.54	125.42	10.867	
13,100.00	7,618.00	12,581.81	7,870.00	121.29	90.20	100.61	-1,603.21	4,159.99	1,362.97	1,235.48	127.48	10.691	
13,200.00	7,618.00	12,681.81	7,870.00	121.37	90.41	100.61	-1,703.21	4,159.66	1,362.97	1,233.36	129.61	10.516	
13,300.00	7,618.00	12,781.81	7,870.00	121.46	90.66	100.61	-1,803.21	4,159.32	1,362.97	1,231.18	131.79	10.342	
13,400.00	7,618.00	12,881.81	7,870.00	121.57	90.94	100.61	-1,903.21	4,158.98	1,362.97	1,228.94	134.03	10.169	
13,500.00	7,618.00	12,981.81	7,870.00	121.70	91.25	100.61	-2,003.21	4,158.64	1,362.97	1,226.65	136.32	9.998	
13,600.00	7,618.00	13,081.81	7,870.00	121.84	91.61	100.61	-2,103.21	4,158.31	1,362.97	1,224.31	138.66	9.830	
13,700.00	7,618.00	13,181.81	7,870.00	122.01	92.00	100.61	-2,203.21	4,157.97	1,362.97	1,221.93	141.04	9.663	
13,800.00	7,618.00	13,281.81	7,870.00	122.19	92.43	100.61	-2,303.21	4,157.63	1,362.97	1,219.49	143.48	9.500	
13,900.00	7,618.00	13,381.81	7,870.00	122.39	92.91	100.61	-2,403.20	4,157.29	1,362.97	1,217.02	145.95	9.339	
14,000.00	7,618.00	13,481.81	7,870.00	122.62	93.43	100.61	-2,503.20	4,156.96	1,362.97	1,214.51	148.46	9.180	
14,100.00	7,618.00	13,581.81	7,870.00	122.86	93.99	100.61	-2,603.20	4,156.62	1,362.97	1,211.95	151.02	9.025	
14,200.00	7,618.00	13,681.81	7,870.00	123.12	94.60	100.61	-2,703.20	4,156.28	1,362.97	1,209.36	153.61	8.873	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	13,781.81	7,870.00	123.41	95.26	100.61	-2,803.20	4,155.94	1,362.97	1,206.74	156.23	8.724	
14,400.00	7,618.00	13,881.81	7,870.00	123.72	95.96	100.61	-2,903.20	4,155.61	1,362.97	1,204.08	158.89	8.578	
14,500.00	7,618.00	13,981.81	7,870.00	124.06	96.70	100.61	-3,003.20	4,155.27	1,362.97	1,201.39	161.58	8.435	
14,600.00	7,618.00	14,081.81	7,870.00	124.42	97.49	100.61	-3,103.20	4,154.93	1,362.97	1,198.67	164.30	8.296	
14,700.00	7,618.00	14,181.81	7,870.00	124.80	98.33	100.61	-3,203.20	4,154.59	1,362.98	1,195.93	167.05	8.159	
14,800.00	7,618.00	14,281.81	7,870.00	125.21	99.20	100.61	-3,303.20	4,154.26	1,362.98	1,193.15	169.82	8.026	
14,900.00	7,618.00	14,381.81	7,870.00	125.65	100.12	100.61	-3,403.20	4,153.92	1,362.98	1,190.35	172.62	7.896	
15,000.00	7,618.00	14,481.81	7,870.00	126.11	101.08	100.61	-3,503.20	4,153.58	1,362.98	1,187.53	175.45	7.768	
15,100.00	7,618.00	14,581.81	7,870.00	126.61	102.08	100.61	-3,603.20	4,153.24	1,362.98	1,184.68	178.30	7.644	
15,200.00	7,618.00	14,681.81	7,870.00	127.13	103.12	100.61	-3,703.20	4,152.91	1,362.98	1,181.81	181.17	7.523	
15,300.00	7,618.00	14,781.81	7,870.00	127.68	104.19	100.61	-3,803.20	4,152.57	1,362.98	1,178.92	184.06	7.405	
15,400.00	7,618.00	14,881.81	7,870.00	128.26	105.29	100.61	-3,903.20	4,152.23	1,362.98	1,176.01	186.97	7.290	
15,500.00	7,618.00	14,981.81	7,870.00	128.87	106.42	100.61	-4,003.20	4,151.89	1,362.98	1,173.07	189.91	7.177	
15,600.00	7,618.00	15,081.81	7,870.00	129.51	107.59	100.61	-4,103.19	4,151.56	1,362.98	1,170.12	192.86	7.067	
15,700.00	7,618.00	15,181.81	7,870.00	130.18	108.78	100.61	-4,203.19	4,151.22	1,362.98	1,167.16	195.82	6.960	
15,800.00	7,618.00	15,281.81	7,870.00	130.88	110.00	100.61	-4,303.19	4,150.88	1,362.98	1,164.17	198.81	6.856	
15,900.00	7,618.00	15,381.81	7,870.00	131.61	111.24	100.61	-4,403.19	4,150.54	1,362.98	1,161.17	201.81	6.754	
16,000.00	7,618.00	15,481.81	7,870.00	132.37	112.51	100.61	-4,503.19	4,150.21	1,362.98	1,158.16	204.83	6.654	
16,100.00	7,618.00	15,581.81	7,870.00	133.17	113.80	100.61	-4,603.19	4,149.87	1,362.98	1,155.13	207.86	6.557	
16,200.00	7,618.00	15,681.81	7,870.00	133.99	115.10	100.61	-4,703.19	4,149.53	1,362.98	1,152.08	210.90	6.463	
16,300.00	7,618.00	15,781.81	7,870.00	134.84	116.43	100.61	-4,803.19	4,149.19	1,362.98	1,149.03	213.96	6.370	
16,400.00	7,618.00	15,881.81	7,870.00	135.72	117.78	100.61	-4,903.19	4,148.86	1,362.98	1,145.95	217.03	6.280	
16,500.00	7,618.00	15,981.81	7,870.00	136.63	119.14	100.61	-5,003.19	4,148.52	1,362.99	1,142.87	220.11	6.192	
16,600.00	7,618.00	16,081.81	7,870.00	137.57	120.52	100.61	-5,103.19	4,148.18	1,362.99	1,139.78	223.21	6.106	
16,700.00	7,618.00	16,181.81	7,870.00	138.54	121.91	100.61	-5,203.19	4,147.84	1,362.99	1,136.67	226.32	6.022	
16,800.00	7,618.00	16,281.81	7,870.00	139.53	123.32	100.61	-5,303.19	4,147.51	1,362.99	1,133.55	229.43	5.941	
16,900.00	7,618.00	16,381.81	7,870.00	140.55	124.74	100.61	-5,403.19	4,147.17	1,362.99	1,130.43	232.56	5.861	
17,000.00	7,618.00	16,481.81	7,870.00	141.60	126.17	100.61	-5,503.19	4,146.83	1,362.99	1,127.29	235.70	5.783	
17,100.00	7,618.00	16,581.81	7,870.00	142.67	127.62	100.61	-5,603.19	4,146.49	1,362.99	1,124.14	238.85	5.707	
17,200.00	7,618.00	16,681.81	7,870.00	143.77	129.07	100.61	-5,703.19	4,146.16	1,362.99	1,120.98	242.01	5.632	
17,300.00	7,618.00	16,781.81	7,870.00	144.88	130.54	100.61	-5,803.19	4,145.82	1,362.99	1,117.82	245.17	5.559	
17,400.00	7,618.00	16,881.81	7,870.00	146.02	132.01	100.61	-5,903.18	4,145.48	1,362.99	1,114.65	248.35	5.488	
17,500.00	7,618.00	16,981.81	7,870.00	147.19	133.50	100.61	-6,003.18	4,145.14	1,362.99	1,111.46	251.53	5.419	
17,600.00	7,618.00	17,081.81	7,870.00	148.37	134.99	100.61	-6,103.18	4,144.81	1,362.99	1,108.27	254.72	5.351	
17,700.00	7,618.00	17,181.81	7,870.00	149.57	136.50	100.61	-6,203.18	4,144.47	1,362.99	1,105.07	257.92	5.285	
17,800.00	7,618.00	17,281.81	7,870.00	150.79	138.01	100.61	-6,303.18	4,144.13	1,362.99	1,101.87	261.12	5.220	
17,900.00	7,618.00	17,381.81	7,870.00	152.03	139.53	100.61	-6,403.18	4,143.79	1,362.99	1,098.66	264.34	5.156	
18,000.00	7,618.00	17,481.81	7,870.00	153.29	141.05	100.61	-6,503.18	4,143.46	1,362.99	1,095.44	267.56	5.094	
18,100.00	7,618.00	17,581.81	7,870.00	154.57	142.58	100.61	-6,603.18	4,143.12	1,362.99	1,092.21	270.78	5.034	
18,200.00	7,618.00	17,681.81	7,870.00	155.86	144.12	100.61	-6,703.18	4,142.78	1,363.00	1,088.98	274.02	4.974	
18,300.00	7,618.00	17,781.81	7,870.00	157.17	145.67	100.61	-6,803.18	4,142.44	1,363.00	1,085.74	277.25	4.916	
18,400.00	7,618.00	17,881.81	7,870.00	158.49	147.22	100.61	-6,903.18	4,142.11	1,363.00	1,082.50	280.50	4.859	
18,500.00	7,618.00	17,981.81	7,870.00	159.82	148.78	100.61	-7,003.18	4,141.77	1,363.00	1,079.25	283.75	4.804	
18,600.00	7,618.00	18,081.81	7,870.00	161.17	150.34	100.61	-7,103.18	4,141.43	1,363.00	1,075.99	287.01	4.749	
18,700.00	7,618.00	18,181.81	7,870.00	162.54	151.91	100.61	-7,203.18	4,141.09	1,363.00	1,072.73	290.27	4.696	
18,800.00	7,618.00	18,281.81	7,870.00	163.91	153.48	100.61	-7,303.18	4,140.76	1,363.00	1,069.47	293.53	4.643	
18,900.00	7,618.00	18,381.81	7,870.00	165.30	155.06	100.61	-7,403.18	4,140.42	1,363.00	1,066.19	296.81	4.592	
19,000.00	7,618.00	18,481.81	7,870.00	166.70	156.64	100.61	-7,503.18	4,140.08	1,363.00	1,062.92	300.08	4.542	
19,100.00	7,618.00	18,581.81	7,870.00	168.10	158.23	100.61	-7,603.18	4,139.74	1,363.00	1,059.64	303.36	4.493	
19,200.00	7,618.00	18,681.81	7,870.00	169.52	159.82	100.61	-7,703.17	4,139.41	1,363.00	1,056.35	306.65	4.445	
19,300.00	7,618.00	18,781.81	7,870.00	170.95	161.42	100.61	-7,803.17	4,139.07	1,363.00	1,053.06	309.94	4.398	
19,400.00	7,618.00	18,881.81	7,870.00	172.39	163.02	100.61	-7,903.17	4,138.73	1,363.00	1,049.77	313.23	4.351	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,500.00	7,618.00	18,981.81	7,870.00	173.84	164.62	100.61	-8,003.17	4,138.39	1,363.00	1,046.47	316.53	4.306	
19,600.00	7,618.00	19,081.81	7,870.00	175.30	166.23	100.61	-8,103.17	4,138.06	1,363.00	1,043.17	319.83	4.262	
19,700.00	7,618.00	19,181.81	7,870.00	176.76	167.84	100.61	-8,203.17	4,137.72	1,363.00	1,039.86	323.14	4.218	
19,800.00	7,618.00	19,281.81	7,870.00	178.24	169.45	100.61	-8,303.17	4,137.38	1,363.00	1,036.55	326.45	4.175	
19,896.19	7,618.00	19,378.00	7,870.00	179.66	171.01	100.61	-8,399.36	4,137.06	1,363.01	1,033.37	329.64	4.135	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	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	CC, ES
300.00	299.98	300.02	299.98	0.85	0.85	-160.42	0.00	-29.96	31.60	29.90	1.70	18.592	
400.00	399.84	400.16	399.84	1.21	1.21	-163.14	0.00	-29.96	36.57	34.15	2.42	15.121	
500.00	499.45	499.45	499.45	1.58	1.57	-166.32	0.00	-29.96	44.99	41.85	3.14	14.331	
600.00	598.70	600.59	600.57	1.97	1.92	-168.76	0.74	-28.36	55.23	51.37	3.86	14.320	
700.00	697.47	702.12	701.95	2.38	2.29	-170.22	2.97	-23.48	65.54	60.97	4.58	14.325	
800.00	795.62	804.03	803.46	2.83	2.66	-171.08	6.72	-15.31	75.87	70.57	5.30	14.315	
900.00	893.06	906.32	904.96	3.31	3.04	-171.57	12.00	-3.82	86.19	80.15	6.03	14.291	
1,000.00	989.64	1,008.99	1,006.31	3.83	3.45	-171.79	18.81	11.03	96.46	89.69	6.77	14.247	
1,100.00	1,085.27	1,112.04	1,107.39	4.40	3.89	-171.83	27.16	29.24	106.68	99.16	7.52	14.186	
1,200.00	1,179.82	1,215.47	1,208.05	5.02	4.37	-171.73	37.07	50.82	116.84	108.56	8.28	14.113	
1,300.00	1,273.17	1,319.28	1,308.15	5.70	4.88	-171.52	48.53	75.79	126.91	117.85	9.05	14.018	
1,400.00	1,365.21	1,423.46	1,407.55	6.43	5.45	-171.22	61.54	104.15	136.88	127.04	9.84	13.906	
1,500.00	1,455.84	1,528.02	1,506.10	7.23	6.08	-170.86	76.10	135.89	146.76	136.11	10.65	13.777	
1,600.00	1,544.94	1,632.95	1,603.65	8.09	6.76	-170.44	92.22	171.01	156.52	145.04	11.48	13.630	
1,700.00	1,632.39	1,738.25	1,700.05	9.01	7.51	-169.97	109.88	209.50	166.16	153.82	12.34	13.465	
1,800.00	1,718.11	1,843.91	1,795.16	10.00	8.34	-169.46	129.07	251.32	175.67	162.44	13.23	13.282	
1,900.00	1,801.97	1,949.93	1,888.81	11.07	9.24	-168.92	149.79	296.47	185.04	170.89	14.15	13.080	
2,000.00	1,883.88	2,056.30	1,980.87	12.20	10.21	-168.34	172.01	344.89	194.26	179.15	15.11	12.859	
2,100.00	1,963.74	2,163.01	2,071.17	13.41	11.27	-167.73	195.72	396.57	203.32	187.21	16.11	12.621	
2,200.00	2,041.45	2,270.06	2,159.57	14.69	12.41	-167.10	220.90	451.44	212.22	195.06	17.17	12.364	
2,300.00	2,116.92	2,377.45	2,245.91	16.05	13.64	-166.44	247.52	509.45	220.95	202.67	18.28	12.089	
2,357.48	2,159.25	2,438.74	2,294.11	16.86	14.37	-166.05	263.31	543.87	225.90	206.94	18.95	11.920	
2,400.00	2,190.27	2,481.08	2,327.19	17.47	14.89	-165.81	274.34	567.89	229.64	210.13	19.50	11.775	
2,500.00	2,263.22	2,580.67	2,404.98	18.92	16.13	-165.28	300.27	624.40	238.45	217.63	20.82	11.452	
2,600.00	2,336.18	2,680.26	2,482.78	20.37	17.38	-164.78	326.20	680.91	247.28	225.11	22.17	11.153	
2,700.00	2,409.14	2,779.84	2,560.57	21.84	18.64	-164.32	352.13	737.42	256.13	232.58	23.55	10.876	
2,800.00	2,482.09	2,879.43	2,638.36	23.31	19.91	-163.88	378.06	793.93	264.99	240.04	24.95	10.620	
2,900.00	2,555.05	2,979.02	2,716.16	24.78	21.18	-163.48	403.99	850.44	273.87	247.49	26.38	10.382	
3,000.00	2,628.01	3,078.60	2,793.95	26.27	22.46	-163.10	429.92	906.95	282.76	254.94	27.83	10.162	
3,100.00	2,700.96	3,178.19	2,871.75	27.75	23.75	-162.75	455.85	963.45	291.67	262.38	29.29	9.958	
3,200.00	2,773.92	3,277.78	2,949.54	29.24	25.04	-162.41	481.78	1,019.96	300.58	269.81	30.77	9.768	
3,300.00	2,846.88	3,377.37	3,027.34	30.73	26.34	-162.10	507.71	1,076.47	309.50	277.23	32.27	9.592	
3,400.00	2,919.83	3,476.95	3,105.13	32.23	27.64	-161.80	533.64	1,132.98	318.43	284.65	33.78	9.427	
3,500.00	2,992.79	3,576.54	3,182.93	33.72	28.94	-161.52	559.57	1,189.49	327.37	292.07	35.30	9.274	
3,600.00	3,065.75	3,676.13	3,260.72	35.22	30.24	-161.25	585.50	1,246.00	336.32	299.48	36.84	9.130	
3,700.00	3,138.71	3,775.71	3,338.52	36.72	31.55	-161.00	611.43	1,302.51	345.27	306.89	38.38	8.996	
3,800.00	3,211.66	3,875.30	3,416.31	38.22	32.85	-160.76	637.36	1,359.02	354.23	314.30	39.93	8.870	
3,900.00	3,284.62	3,974.89	3,494.10	39.72	34.16	-160.53	663.29	1,415.52	363.20	321.70	41.50	8.752	
4,000.00	3,357.58	4,074.48	3,571.90	41.22	35.47	-160.32	689.22	1,472.03	372.17	329.10	43.07	8.641	
4,100.00	3,430.53	4,174.06	3,649.69	42.73	36.78	-160.11	715.15	1,528.54	381.15	336.50	44.65	8.537	
4,200.00	3,503.49	4,273.65	3,727.49	44.23	38.09	-159.91	741.08	1,585.05	390.13	343.89	46.23	8.438	
4,300.00	3,576.45	4,373.24	3,805.28	45.74	39.41	-159.72	767.01	1,641.56	399.11	351.28	47.83	8.345	
4,400.00	3,649.40	4,472.82	3,883.08	47.25	40.72	-159.54	792.94	1,698.07	408.10	358.68	49.43	8.257	
4,500.00	3,722.36	4,572.41	3,960.87	48.75	42.04	-159.37	818.87	1,754.58	417.09	366.06	51.03	8.173	
4,600.00	3,795.32	4,672.00	4,038.67	50.26	43.35	-159.21	844.80	1,811.09	426.09	373.45	52.64	8.094	
4,700.00	3,868.27	4,771.59	4,116.46	51.77	44.67	-159.05	870.73	1,867.60	435.09	380.84	54.25	8.019	
4,800.00	3,941.23	4,871.17	4,194.25	53.28	45.99	-158.90	896.66	1,924.10	444.10	388.22	55.87	7.948	
4,900.00	4,014.19	4,970.76	4,272.05	54.79	47.30	-158.75	922.59	1,980.61	453.10	395.60	57.50	7.880	
5,000.00	4,087.15	5,070.35	4,349.84	56.30	48.62	-158.61	948.52	2,037.12	462.11	402.99	59.13	7.816	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	5,169.93	4,427.64	57.81	49.94	-158.48	974.45	2,093.63	471.12	410.37	60.76	7.754	
5,200.00	4,233.06	5,269.52	4,505.43	59.32	51.26	-158.35	1,000.38	2,150.14	480.14	417.75	62.39	7.696	
5,300.00	4,306.02	5,369.11	4,583.23	60.83	52.58	-158.22	1,026.31	2,206.65	489.15	425.12	64.03	7.639	
5,400.00	4,378.97	5,468.70	4,661.02	62.34	53.90	-158.10	1,052.24	2,263.16	498.17	432.50	65.67	7.586	
5,500.00	4,451.93	5,568.28	4,738.82	63.85	55.22	-157.98	1,078.17	2,319.67	507.19	439.88	67.32	7.535	
5,600.00	4,524.89	5,667.87	4,816.61	65.36	56.54	-157.87	1,104.10	2,376.18	516.22	447.25	68.96	7.485	
5,700.00	4,597.84	5,767.46	4,894.40	66.88	57.86	-157.76	1,130.03	2,432.68	525.24	454.63	70.61	7.438	
5,800.00	4,670.80	5,867.04	4,972.20	68.39	59.19	-157.66	1,155.96	2,489.19	534.27	462.00	72.27	7.393	
5,900.00	4,743.76	5,966.63	5,049.99	69.90	60.51	-157.56	1,181.89	2,545.70	543.30	469.38	73.92	7.350	
6,000.00	4,816.71	6,066.22	5,127.79	71.41	61.83	-157.46	1,207.82	2,602.21	552.33	476.75	75.58	7.308	
6,100.00	4,889.67	6,165.81	5,205.58	72.93	63.15	-157.37	1,233.75	2,658.72	561.36	484.12	77.24	7.268	
6,200.00	4,962.63	6,265.39	5,283.38	74.44	64.47	-157.28	1,259.68	2,715.23	570.39	491.49	78.90	7.229	
6,300.00	5,035.59	6,364.98	5,361.17	75.95	65.80	-157.19	1,285.61	2,771.74	579.42	498.86	80.56	7.192	
6,400.00	5,108.54	6,464.57	5,438.97	77.47	67.12	-157.10	1,311.54	2,828.25	588.46	506.23	82.23	7.157	
6,500.00	5,181.50	6,564.15	5,516.76	78.98	68.44	-157.02	1,337.47	2,884.75	597.50	513.60	83.89	7.122	
6,600.00	5,254.46	6,663.74	5,594.55	80.49	69.77	-156.94	1,363.40	2,941.26	606.53	520.97	85.56	7.089	
6,700.00	5,327.41	6,763.33	5,672.35	82.01	71.09	-156.86	1,389.33	2,997.77	615.57	528.34	87.23	7.057	
6,800.00	5,400.37	6,862.92	5,750.14	83.52	72.41	-156.78	1,415.26	3,054.28	624.61	535.71	88.90	7.026	
6,900.00	5,473.33	6,962.50	5,827.94	85.04	73.74	-156.71	1,441.19	3,110.79	633.66	543.08	90.58	6.996	
7,000.00	5,546.28	7,062.09	5,905.73	86.55	75.06	-156.64	1,467.12	3,167.30	642.70	550.45	92.25	6.967	
7,100.00	5,619.24	7,161.68	5,983.53	88.06	76.38	-156.57	1,493.05	3,223.81	651.74	557.81	93.93	6.939	
7,200.00	5,692.20	7,261.26	6,061.32	89.58	77.71	-156.50	1,518.98	3,280.32	660.79	565.18	95.61	6.912	
7,300.00	5,765.15	7,360.85	6,139.12	91.09	79.03	-156.43	1,544.91	3,336.83	669.83	572.55	97.28	6.885	
7,400.00	5,838.11	7,460.44	6,216.91	92.61	80.36	-156.37	1,570.84	3,393.33	678.88	579.91	98.96	6.860	
7,500.00	5,911.07	7,560.03	6,294.70	94.12	81.68	-156.30	1,596.77	3,449.84	687.93	587.28	100.64	6.835	
7,600.00	5,984.03	7,659.61	6,372.50	95.64	83.01	-156.24	1,622.70	3,506.35	696.97	594.65	102.33	6.811	
7,700.00	6,056.98	7,759.20	6,450.29	97.15	84.33	-156.18	1,648.63	3,562.86	706.02	602.01	104.01	6.788	
7,800.00	6,129.94	7,858.79	6,528.09	98.67	85.66	-156.13	1,674.56	3,619.37	715.07	609.38	105.69	6.765	
7,900.00	6,202.90	7,958.37	6,605.88	100.18	86.98	-156.07	1,700.49	3,675.88	724.12	616.74	107.38	6.744	
8,000.00	6,275.85	8,057.96	6,683.68	101.70	88.31	-156.01	1,726.42	3,732.39	733.17	624.11	109.06	6.722	
8,100.00	6,348.81	8,157.55	6,761.47	103.21	89.63	-155.96	1,752.35	3,788.90	742.22	631.47	110.75	6.702	
8,200.00	6,421.77	8,257.14	6,839.27	104.73	90.96	-155.91	1,778.28	3,845.40	751.27	638.84	112.44	6.682	
8,300.00	6,494.72	8,356.72	6,917.06	106.24	92.28	-155.86	1,804.21	3,901.91	760.33	646.20	114.13	6.662	
8,400.00	6,567.68	8,456.31	6,994.85	107.76	93.61	-155.81	1,830.14	3,958.42	769.38	653.56	115.82	6.643	
8,500.00	6,640.64	8,555.90	7,072.65	109.27	94.93	-155.76	1,856.07	4,014.93	778.43	660.93	117.51	6.625	
8,600.00	6,713.59	8,657.12	7,151.74	110.79	96.28	-155.71	1,882.35	4,072.38	787.48	668.28	119.20	6.606	
8,700.00	6,786.55	8,776.52	7,247.20	112.30	97.79	-156.68	1,899.36	4,141.67	795.06	676.18	118.89	6.688	
8,800.00	6,859.51	8,886.45	7,335.92	113.82	99.02	-159.08	1,893.10	4,206.00	801.06	685.59	115.47	6.937	
8,900.00	6,932.46	8,981.25	7,410.49	115.33	99.90	-162.23	1,871.00	4,260.01	807.72	697.06	110.66	7.299	
9,000.00	7,005.42	9,059.75	7,469.35	116.85	100.48	-165.51	1,841.40	4,302.59	817.62	711.71	105.91	7.720	
9,104.89	7,081.95	9,126.37	7,516.35	118.44	100.87	-168.70	1,808.69	4,336.57	833.83	732.16	101.67	8.201	
9,150.00	7,115.15	9,151.83	7,533.45	119.12	101.00	-175.65	1,794.45	4,348.92	842.89	742.71	100.18	8.414	
9,200.00	7,152.46	9,179.77	7,551.61	119.86	101.11	176.36	1,777.75	4,362.04	854.04	755.22	98.82	8.643	
9,250.00	7,190.04	9,207.47	7,568.94	120.57	101.22	168.23	1,760.14	4,374.55	866.11	768.42	97.69	8.866	
9,300.00	7,227.59	9,234.97	7,585.45	121.25	101.30	160.14	1,741.66	4,386.46	878.85	782.12	96.73	9.085	
9,350.00	7,264.83	9,262.29	7,601.13	121.89	101.37	152.28	1,722.35	4,397.76	892.02	796.12	95.90	9.301	
9,400.00	7,301.48	9,289.47	7,615.96	122.48	101.42	144.78	1,702.25	4,408.45	905.40	810.23	95.17	9.514	
9,450.00	7,337.26	9,316.53	7,629.95	123.01	101.46	137.78	1,681.40	4,418.53	918.78	824.26	94.52	9.720	
9,500.00	7,371.90	9,343.48	7,643.08	123.49	101.49	131.35	1,659.84	4,427.98	931.96	838.00	93.96	9.919	
9,550.00	7,405.13	9,370.35	7,655.34	123.91	101.50	125.52	1,637.62	4,436.79	944.77	851.28	93.49	10.106	
9,600.00	7,436.70	9,400.00	7,667.87	124.27	101.51	120.23	1,612.30	4,445.79	957.05	864.02	93.03	10.288	
9,650.00	7,466.36	9,423.87	7,677.18	124.57	101.50	115.67	1,591.37	4,452.47	968.63	875.72	92.91	10.426	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,700.00	7,493.91	9,450.00	7,686.55	124.81	101.48	111.63	1,567.92	4,459.19	979.41	886.54	92.88	10.545	
9,750.00	7,519.11	9,477.17	7,695.37	125.00	101.45	108.11	1,543.01	4,465.51	989.28	896.29	92.99	10.639	
9,800.00	7,541.79	9,500.00	7,702.04	125.12	101.42	105.16	1,521.70	4,470.27	998.13	904.56	93.57	10.667	
9,850.00	7,561.77	9,530.33	7,709.82	125.20	101.36	102.59	1,492.92	4,475.81	1,005.85	911.91	93.94	10.708	
9,900.00	7,578.90	9,550.00	7,714.20	125.23	101.33	100.58	1,474.00	4,478.93	1,012.45	917.14	95.30	10.623	
9,950.00	7,593.04	9,583.39	7,720.43	125.22	101.24	98.88	1,441.50	4,483.33	1,017.72	921.83	95.89	10.614	
10,000.00	7,604.09	9,609.89	7,724.28	125.17	101.18	97.65	1,415.42	4,486.04	1,021.75	924.49	97.26	10.506	
10,050.00	7,611.97	9,636.39	7,727.15	125.08	101.10	96.81	1,389.16	4,488.03	1,024.46	925.58	98.88	10.361	
10,100.00	7,616.61	9,662.88	7,729.03	124.97	101.02	96.35	1,362.77	4,489.30	1,025.83	925.10	100.74	10.183	
10,145.95	7,618.00	9,687.22	7,729.89	124.84	100.94	96.26	1,338.45	4,489.84	1,025.90	923.27	102.63	9.996	
10,160.14	7,618.00	9,709.84	7,730.00	124.80	100.86	96.27	1,335.57	4,489.92	1,025.77	922.09	103.67	9.894	
10,200.00	7,618.00	9,729.96	7,730.00	124.69	100.79	96.27	1,295.71	4,489.78	1,025.77	922.38	103.39	9.921	
10,300.00	7,618.00	9,829.96	7,730.00	124.41	100.46	96.27	1,195.71	4,489.44	1,025.77	923.27	102.50	10.007	
10,400.00	7,618.00	9,929.96	7,730.00	124.14	100.14	96.27	1,095.71	4,489.10	1,025.77	924.04	101.73	10.083	
10,500.00	7,618.00	10,029.96	7,730.00	123.88	99.84	96.27	995.71	4,488.76	1,025.77	924.70	101.07	10.149	
10,600.00	7,618.00	10,129.96	7,730.00	123.63	99.55	96.27	895.71	4,488.43	1,025.78	925.24	100.54	10.203	
10,700.00	7,618.00	10,229.96	7,730.00	123.40	99.28	96.27	795.71	4,488.09	1,025.78	925.66	100.12	10.245	
10,800.00	7,618.00	10,329.96	7,730.00	123.18	99.02	96.27	695.71	4,487.75	1,025.78	925.95	99.83	10.276	
10,900.00	7,618.00	10,429.96	7,730.00	122.96	98.77	96.27	595.71	4,487.41	1,025.78	926.13	99.66	10.293	
11,000.00	7,618.00	10,529.96	7,730.00	122.76	98.54	96.27	495.71	4,487.07	1,025.78	926.17	99.61	10.298	
11,100.00	7,618.00	10,629.96	7,730.00	122.57	98.32	96.27	395.71	4,486.73	1,025.79	926.10	99.69	10.290	
11,200.00	7,618.00	10,729.96	7,730.00	122.39	98.12	96.27	295.71	4,486.39	1,025.79	925.90	99.89	10.269	
11,300.00	7,618.00	10,829.96	7,730.00	122.23	97.93	96.27	195.71	4,486.05	1,025.79	925.57	100.22	10.236	
11,400.00	7,618.00	10,929.96	7,730.00	122.07	97.76	96.27	95.72	4,485.71	1,025.79	925.13	100.67	10.190	
11,500.00	7,618.00	11,029.96	7,730.00	121.93	97.60	96.27	-4.28	4,485.38	1,025.79	924.56	101.23	10.133	
11,600.00	7,618.00	11,129.96	7,730.00	121.79	97.45	96.27	-104.28	4,485.04	1,025.80	923.88	101.92	10.065	
11,700.00	7,618.00	11,229.96	7,730.00	121.67	97.32	96.27	-204.28	4,484.70	1,025.80	923.07	102.72	9.986	
11,800.00	7,618.00	11,329.96	7,730.00	121.56	97.21	96.27	-304.28	4,484.36	1,025.80	922.16	103.64	9.898	
11,900.00	7,618.00	11,429.96	7,730.00	121.46	97.11	96.27	-404.28	4,484.02	1,025.80	921.14	104.67	9.801	
12,000.00	7,618.00	11,529.96	7,730.00	121.38	97.03	96.27	-504.28	4,483.68	1,025.80	920.00	105.80	9.696	
12,100.00	7,618.00	11,629.96	7,730.00	121.30	96.97	96.27	-604.28	4,483.34	1,025.81	918.77	107.04	9.584	
12,200.00	7,618.00	11,729.96	7,730.00	121.24	96.92	96.27	-704.28	4,483.00	1,025.81	917.43	108.37	9.465	
12,300.00	7,618.00	11,829.96	7,730.00	121.19	96.89	96.27	-804.28	4,482.66	1,025.81	916.00	109.81	9.342	
12,400.00	7,618.00	11,929.96	7,730.00	121.16	96.87	96.27	-904.28	4,482.33	1,025.81	914.48	111.33	9.214	
12,500.00	7,618.00	12,029.96	7,730.00	121.14	96.88	96.27	-1,004.28	4,481.99	1,025.81	912.86	112.95	9.082	
12,600.00	7,618.00	12,129.96	7,730.00	121.13	96.91	96.27	-1,104.28	4,481.65	1,025.82	911.16	114.65	8.947	
12,700.00	7,618.00	12,229.96	7,730.00	121.13	96.95	96.27	-1,204.28	4,481.31	1,025.82	909.38	116.43	8.810	
12,800.00	7,618.00	12,329.96	7,730.00	121.15	97.02	96.27	-1,304.28	4,480.97	1,025.82	907.53	118.29	8.672	
12,900.00	7,618.00	12,429.96	7,730.00	121.18	97.11	96.27	-1,404.28	4,480.63	1,025.82	905.59	120.23	8.532	
13,000.00	7,618.00	12,529.96	7,730.00	121.23	97.22	96.27	-1,504.28	4,480.29	1,025.82	903.59	122.23	8.392	
13,100.00	7,618.00	12,629.96	7,730.00	121.29	97.35	96.27	-1,604.28	4,479.95	1,025.83	901.52	124.30	8.253	
13,200.00	7,618.00	12,729.96	7,730.00	121.37	97.51	96.27	-1,704.27	4,479.62	1,025.83	899.39	126.44	8.113	
13,300.00	7,618.00	12,829.96	7,730.00	121.46	97.70	96.27	-1,804.27	4,479.28	1,025.83	897.19	128.64	7.975	
13,400.00	7,618.00	12,929.96	7,730.00	121.57	97.92	96.27	-1,904.27	4,478.94	1,025.83	894.94	130.89	7.837	
13,500.00	7,618.00	13,029.96	7,730.00	121.70	98.16	96.27	-2,004.27	4,478.60	1,025.83	892.63	133.20	7.701	
13,600.00	7,618.00	13,129.96	7,730.00	121.84	98.44	96.27	-2,104.27	4,478.26	1,025.83	890.27	135.56	7.567	
13,700.00	7,618.00	13,229.96	7,730.00	122.01	98.74	96.27	-2,204.27	4,477.92	1,025.84	887.87	137.97	7.435	
13,800.00	7,618.00	13,329.96	7,730.00	122.19	99.08	96.27	-2,304.27	4,477.58	1,025.84	885.41	140.43	7.305	
13,900.00	7,618.00	13,429.96	7,730.00	122.39	99.45	96.27	-2,404.27	4,477.24	1,025.84	882.91	142.93	7.177	
14,000.00	7,618.00	13,529.96	7,730.00	122.62	99.86	96.27	-2,504.27	4,476.90	1,025.84	880.37	145.47	7.052	
14,100.00	7,618.00	13,629.96	7,730.00	122.86	100.31	96.27	-2,604.27	4,476.57	1,025.84	877.79	148.06	6.929	
14,200.00	7,618.00	13,729.96	7,730.00	123.12	100.79	96.27	-2,704.27	4,476.23	1,025.85	875.17	150.68	6.808	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	13,829.96	7,730.00	123.41	101.32	96.27	-2,804.27	4,475.89	1,025.85	872.51	153.33	6.690	
14,400.00	7,618.00	13,929.96	7,730.00	123.72	101.88	96.27	-2,904.27	4,475.55	1,025.85	869.83	156.02	6.575	
14,500.00	7,618.00	14,029.96	7,730.00	124.06	102.48	96.27	-3,004.27	4,475.21	1,025.85	867.10	158.75	6.462	
14,600.00	7,618.00	14,129.96	7,730.00	124.42	103.13	96.27	-3,104.27	4,474.87	1,025.85	864.35	161.50	6.352	
14,700.00	7,618.00	14,229.96	7,730.00	124.80	103.81	96.27	-3,204.27	4,474.53	1,025.86	861.57	164.28	6.244	
14,800.00	7,618.00	14,329.96	7,730.00	125.21	104.54	96.27	-3,304.27	4,474.19	1,025.86	858.76	167.10	6.139	
14,900.00	7,618.00	14,429.96	7,730.00	125.65	105.30	96.27	-3,404.26	4,473.85	1,025.86	855.93	169.93	6.037	
15,000.00	7,618.00	14,529.96	7,730.00	126.11	106.11	96.27	-3,504.26	4,473.52	1,025.86	853.07	172.79	5.937	
15,100.00	7,618.00	14,629.96	7,730.00	126.61	106.96	96.27	-3,604.26	4,473.18	1,025.86	850.18	175.68	5.839	
15,200.00	7,618.00	14,729.96	7,730.00	127.13	107.84	96.27	-3,704.26	4,472.84	1,025.87	847.28	178.59	5.744	
15,300.00	7,618.00	14,829.96	7,730.00	127.68	108.76	96.27	-3,804.26	4,472.50	1,025.87	844.35	181.52	5.652	
15,400.00	7,618.00	14,929.96	7,730.00	128.26	109.72	96.27	-3,904.26	4,472.16	1,025.87	841.40	184.47	5.561	
15,500.00	7,618.00	15,029.96	7,730.00	128.87	110.72	96.27	-4,004.26	4,471.82	1,025.87	838.43	187.44	5.473	
15,600.00	7,618.00	15,129.96	7,730.00	129.51	111.75	96.27	-4,104.26	4,471.48	1,025.87	835.44	190.43	5.387	
15,700.00	7,618.00	15,229.96	7,730.00	130.18	112.81	96.27	-4,204.26	4,471.14	1,025.88	832.44	193.44	5.303	
15,800.00	7,618.00	15,329.96	7,730.00	130.88	113.90	96.27	-4,304.26	4,470.80	1,025.88	829.42	196.46	5.222	
15,900.00	7,618.00	15,429.96	7,730.00	131.61	115.02	96.27	-4,404.26	4,470.47	1,025.88	826.38	199.50	5.142	
16,000.00	7,618.00	15,529.96	7,730.00	132.37	116.17	96.27	-4,504.26	4,470.13	1,025.88	823.33	202.55	5.065	
16,100.00	7,618.00	15,629.96	7,730.00	133.17	117.35	96.27	-4,604.26	4,469.79	1,025.88	820.26	205.62	4.989	
16,200.00	7,618.00	15,729.96	7,730.00	133.99	118.55	96.27	-4,704.26	4,469.45	1,025.89	817.18	208.71	4.915	
16,300.00	7,618.00	15,829.96	7,730.00	134.84	119.78	96.27	-4,804.26	4,469.11	1,025.89	814.08	211.81	4.844	
16,400.00	7,618.00	15,929.96	7,730.00	135.72	121.02	96.27	-4,904.26	4,468.77	1,025.89	810.97	214.92	4.773	
16,500.00	7,618.00	16,029.96	7,730.00	136.63	122.30	96.27	-5,004.26	4,468.43	1,025.89	807.85	218.04	4.705	
16,600.00	7,618.00	16,129.96	7,730.00	137.57	123.59	96.27	-5,104.26	4,468.09	1,025.89	804.72	221.17	4.638	
16,700.00	7,618.00	16,229.96	7,730.00	138.54	124.89	96.27	-5,204.25	4,467.76	1,025.90	801.57	224.32	4.573	
16,800.00	7,618.00	16,329.96	7,730.00	139.53	126.22	96.27	-5,304.25	4,467.42	1,025.90	798.42	227.48	4.510	
16,900.00	7,618.00	16,429.96	7,730.00	140.55	127.57	96.27	-5,404.25	4,467.08	1,025.90	795.25	230.65	4.448	
17,000.00	7,618.00	16,529.96	7,730.00	141.60	128.93	96.27	-5,504.25	4,466.74	1,025.90	792.08	233.82	4.388	
17,100.00	7,618.00	16,629.96	7,730.00	142.67	130.30	96.27	-5,604.25	4,466.40	1,025.90	788.89	237.01	4.329	
17,200.00	7,618.00	16,729.96	7,730.00	143.77	131.69	96.27	-5,704.25	4,466.06	1,025.90	785.70	240.21	4.271	
17,300.00	7,618.00	16,829.96	7,730.00	144.88	133.10	96.27	-5,804.25	4,465.72	1,025.91	782.50	243.41	4.215	
17,400.00	7,618.00	16,929.96	7,730.00	146.02	134.51	96.27	-5,904.25	4,465.38	1,025.91	779.28	246.62	4.160	
17,500.00	7,618.00	17,029.96	7,730.00	147.19	135.94	96.27	-6,004.25	4,465.04	1,025.91	776.06	249.85	4.106	
17,600.00	7,618.00	17,129.96	7,730.00	148.37	137.38	96.27	-6,104.25	4,464.71	1,025.91	772.84	253.08	4.054	
17,700.00	7,618.00	17,229.96	7,730.00	149.57	138.83	96.27	-6,204.25	4,464.37	1,025.91	769.60	256.31	4.003	
17,800.00	7,618.00	17,329.96	7,730.00	150.79	140.29	96.27	-6,304.25	4,464.03	1,025.92	766.36	259.56	3.953	
17,900.00	7,618.00	17,429.96	7,730.00	152.03	141.76	96.27	-6,404.25	4,463.69	1,025.92	763.11	262.81	3.904	
18,000.00	7,618.00	17,529.96	7,730.00	153.29	143.24	96.27	-6,504.25	4,463.35	1,025.92	759.85	266.07	3.856	
18,100.00	7,618.00	17,629.96	7,730.00	154.57	144.73	96.27	-6,604.25	4,463.01	1,025.92	756.59	269.33	3.809	
18,200.00	7,618.00	17,729.96	7,730.00	155.86	146.23	96.27	-6,704.25	4,462.67	1,025.92	753.32	272.61	3.763	
18,300.00	7,618.00	17,829.96	7,730.00	157.17	147.73	96.27	-6,804.25	4,462.33	1,025.93	750.04	275.88	3.719	
18,400.00	7,618.00	17,929.96	7,730.00	158.49	149.25	96.27	-6,904.24	4,461.99	1,025.93	746.76	279.17	3.675	
18,500.00	7,618.00	18,029.96	7,730.00	159.82	150.77	96.27	-7,004.24	4,461.66	1,025.93	743.48	282.45	3.632	
18,600.00	7,618.00	18,129.96	7,730.00	161.17	152.29	96.27	-7,104.24	4,461.32	1,025.93	740.18	285.75	3.590	
18,700.00	7,618.00	18,229.96	7,730.00	162.54	153.83	96.27	-7,204.24	4,460.98	1,025.93	736.89	289.05	3.549	
18,800.00	7,618.00	18,329.96	7,730.00	163.91	155.37	96.27	-7,304.24	4,460.64	1,025.94	733.58	292.35	3.509	
18,900.00	7,618.00	18,429.96	7,730.00	165.30	156.91	96.27	-7,404.24	4,460.30	1,025.94	730.28	295.66	3.470	
19,000.00	7,618.00	18,529.96	7,730.00	166.70	158.46	96.27	-7,504.24	4,459.96	1,025.94	726.96	298.98	3.432	
19,100.00	7,618.00	18,629.96	7,730.00	168.10	160.02	96.27	-7,604.24	4,459.62	1,025.94	723.65	302.30	3.394	
19,200.00	7,618.00	18,729.96	7,730.00	169.52	161.58	96.27	-7,704.24	4,459.28	1,025.94	720.32	305.62	3.357	
19,300.00	7,618.00	18,829.96	7,730.00	170.95	163.15	96.27	-7,804.24	4,458.95	1,025.95	717.00	308.95	3.321	
19,400.00	7,618.00	18,929.96	7,730.00	172.39	164.72	96.27	-7,904.24	4,458.61	1,025.95	713.67	312.28	3.285	

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			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
19,500.00	7,618.00	19,029.96	7,730.00	173.84	166.30	96.27	-8,004.24	4,458.27	1,025.95	710.33	315.61	3.251	
19,600.00	7,618.00	19,129.96	7,730.00	175.30	167.88	96.27	-8,104.24	4,457.93	1,025.95	707.00	318.95	3.217	
19,700.00	7,618.00	19,229.96	7,730.00	176.76	169.47	96.27	-8,204.24	4,457.59	1,025.95	703.66	322.30	3.183	
19,800.00	7,618.00	19,329.96	7,730.00	178.24	171.06	96.27	-8,304.24	4,457.25	1,025.96	700.31	325.65	3.151	
19,896.19	7,618.00	19,426.15	7,730.00	179.66	172.59	96.27	-8,400.42	4,456.92	1,025.96	697.09	328.87	3.120	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	0.00	0.00	0.00	0.00	-90.00	0.00	-19.88	19.88				
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-19.88	19.88	19.61	0.27	73.944	
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-19.88	19.88	18.89	0.99	20.167	CC, ES
300.00	299.98	300.02	299.98	0.85	0.85	-160.95	0.00	-19.88	21.52	19.82	1.70	12.663	
400.00	399.84	399.84	399.84	1.21	1.21	-164.61	0.00	-19.88	26.52	24.11	2.42	10.971	
500.00	499.45	500.60	500.58	1.58	1.57	-167.66	0.70	-18.26	33.31	30.18	3.13	10.638	
600.00	598.70	601.62	601.45	1.97	1.93	-169.44	2.80	-13.37	40.17	36.32	3.85	10.444	
700.00	697.47	702.88	702.32	2.38	2.30	-170.50	6.32	-5.19	47.04	42.47	4.57	10.303	
800.00	795.62	804.40	803.06	2.83	2.68	-171.11	11.26	6.30	53.90	48.61	5.29	10.188	
900.00	893.06	906.16	903.53	3.31	3.09	-171.42	17.62	21.09	60.74	54.72	6.02	10.084	
1,000.00	989.64	1,008.17	1,003.61	3.83	3.53	-171.53	25.41	39.20	67.54	60.78	6.76	9.987	
1,100.00	1,085.27	1,110.43	1,103.17	4.40	4.01	-171.48	34.63	60.63	74.29	66.78	7.52	9.884	
1,200.00	1,179.82	1,212.93	1,202.06	5.02	4.53	-171.32	45.27	85.36	80.99	72.71	8.28	9.784	
1,300.00	1,273.17	1,315.67	1,300.16	5.70	5.10	-171.06	57.34	113.41	87.63	78.57	9.06	9.676	
1,400.00	1,365.21	1,418.66	1,397.33	6.43	5.72	-170.74	70.81	144.74	94.19	84.34	9.85	9.561	
1,500.00	1,455.84	1,521.88	1,493.43	7.23	6.40	-170.36	85.70	179.35	100.68	90.02	10.67	9.438	
1,600.00	1,544.94	1,625.34	1,588.32	8.09	7.15	-169.93	101.98	217.20	107.09	95.59	11.51	9.307	
1,700.00	1,632.39	1,729.03	1,681.87	9.01	7.96	-169.46	119.65	258.27	113.41	101.04	12.37	9.167	
1,800.00	1,718.11	1,832.95	1,773.94	10.00	8.85	-168.95	138.69	302.53	119.64	106.37	13.27	9.017	
1,900.00	1,801.97	1,937.10	1,864.40	11.07	9.81	-168.41	159.07	349.92	125.76	111.56	14.20	8.858	
2,000.00	1,883.88	2,041.46	1,953.11	12.20	10.84	-167.84	180.80	400.42	131.78	116.61	15.17	8.688	
2,100.00	1,963.74	2,146.04	2,039.93	13.41	11.96	-167.25	203.83	453.96	137.70	121.51	16.18	8.508	
2,200.00	2,041.45	2,250.82	2,124.73	14.69	13.15	-166.63	228.15	510.49	143.49	126.24	17.25	8.318	
2,300.00	2,116.92	2,355.81	2,207.38	16.05	14.43	-165.99	253.72	569.96	149.17	130.80	18.38	8.118	
2,357.48	2,159.25	2,416.25	2,253.87	16.86	15.20	-165.61	268.99	605.44	152.38	133.34	19.05	8.000	
2,400.00	2,190.27	2,458.96	2,286.38	17.47	15.76	-165.35	279.93	630.87	154.68	135.07	19.61	7.888	
2,500.00	2,263.22	2,558.80	2,362.39	18.92	17.07	-164.77	305.51	690.34	160.07	139.10	20.97	7.632	
2,600.00	2,336.18	2,658.64	2,438.39	20.37	18.40	-164.23	331.09	749.82	165.49	143.12	22.37	7.397	
2,700.00	2,409.14	2,758.48	2,514.40	21.84	19.74	-163.72	356.68	809.29	170.91	147.11	23.80	7.181	
2,800.00	2,482.09	2,858.32	2,590.41	23.31	21.09	-163.24	382.26	868.76	176.35	151.10	25.26	6.983	
2,900.00	2,555.05	2,958.16	2,666.41	24.78	22.44	-162.80	407.84	928.24	181.80	155.07	26.74	6.799	
3,000.00	2,628.01	3,058.01	2,742.42	26.27	23.80	-162.37	433.42	987.71	187.26	159.02	28.24	6.630	
3,100.00	2,700.96	3,157.85	2,818.42	27.75	25.17	-161.98	459.01	1,047.18	192.74	162.97	29.77	6.474	
3,200.00	2,773.92	3,257.69	2,894.43	29.24	26.53	-161.60	484.59	1,106.65	198.21	166.90	31.31	6.330	
3,300.00	2,846.88	3,357.53	2,970.43	30.73	27.91	-161.24	510.17	1,166.13	203.70	170.83	32.88	6.196	
3,400.00	2,919.83	3,457.37	3,046.44	32.23	29.28	-160.91	535.75	1,225.60	209.20	174.74	34.45	6.072	
3,500.00	2,992.79	3,557.21	3,122.44	33.72	30.66	-160.59	561.34	1,285.07	214.70	178.65	36.05	5.956	
3,600.00	3,065.75	3,657.06	3,198.45	35.22	32.04	-160.28	586.92	1,344.55	220.21	182.55	37.65	5.848	
3,700.00	3,138.71	3,756.90	3,274.45	36.72	33.42	-159.99	612.50	1,404.02	225.72	186.45	39.27	5.747	
3,800.00	3,211.66	3,856.74	3,350.46	38.22	34.80	-159.72	638.09	1,463.49	231.24	190.34	40.90	5.653	
3,900.00	3,284.62	3,956.58	3,426.47	39.72	36.19	-159.45	663.67	1,522.96	236.76	194.22	42.54	5.565	
4,000.00	3,357.58	4,056.42	3,502.47	41.22	37.57	-159.20	689.25	1,582.44	242.29	198.10	44.19	5.482	
4,100.00	3,430.53	4,156.26	3,578.48	42.73	38.96	-158.96	714.83	1,641.91	247.83	201.97	45.85	5.405	
4,200.00	3,503.49	4,256.10	3,654.48	44.23	40.35	-158.74	740.42	1,701.38	253.37	205.84	47.52	5.331	
4,300.00	3,576.45	4,355.95	3,730.49	45.74	41.74	-158.52	766.00	1,760.86	258.91	209.71	49.20	5.262	
4,400.00	3,649.40	4,455.79	3,806.49	47.25	43.13	-158.31	791.58	1,820.33	264.45	213.57	50.88	5.197	
4,500.00	3,722.36	4,555.63	3,882.50	48.75	44.52	-158.10	817.17	1,879.80	270.00	217.43	52.57	5.136	
4,600.00	3,795.32	4,655.47	3,958.50	50.26	45.91	-157.91	842.75	1,939.27	275.55	221.28	54.27	5.078	
4,700.00	3,868.27	4,755.31	4,034.51	51.77	47.30	-157.73	868.33	1,998.75	281.11	225.14	55.97	5.022	
4,800.00	3,941.23	4,855.15	4,110.52	53.28	48.69	-157.55	893.91	2,058.22	286.67	228.99	57.68	4.970	
4,900.00	4,014.19	4,955.00	4,186.52	54.79	50.09	-157.38	919.50	2,117.69	292.23	232.83	59.39	4.920	
5,000.00	4,087.15	5,054.84	4,262.53	56.30	51.48	-157.21	945.08	2,177.16	297.79	236.68	61.11	4.873	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	5,154.68	4,338.53	57.81	52.87	-157.05	970.66	2,236.64	303.35	240.52	62.84	4.828	
5,200.00	4,233.06	5,254.52	4,414.54	59.32	54.27	-156.90	996.24	2,296.11	308.92	244.36	64.56	4.785	
5,300.00	4,306.02	5,354.36	4,490.54	60.83	55.66	-156.75	1,021.83	2,355.58	314.49	248.20	66.30	4.744	
5,400.00	4,378.97	5,454.20	4,566.55	62.34	57.06	-156.61	1,047.41	2,415.06	320.06	252.03	68.03	4.705	
5,500.00	4,451.93	5,554.04	4,642.55	63.85	58.45	-156.47	1,072.99	2,474.53	325.64	255.86	69.77	4.667	
5,600.00	4,524.89	5,653.89	4,718.56	65.36	59.85	-156.34	1,098.58	2,534.00	331.21	259.70	71.51	4.631	
5,700.00	4,597.84	5,753.73	4,794.57	66.88	61.25	-156.21	1,124.16	2,593.47	336.79	263.53	73.26	4.597	
5,800.00	4,670.80	5,853.57	4,870.57	68.39	62.64	-156.08	1,149.74	2,652.95	342.37	267.36	75.01	4.564	
5,900.00	4,743.76	5,953.41	4,946.58	69.90	64.04	-155.96	1,175.32	2,712.42	347.95	271.18	76.76	4.533	
6,000.00	4,816.71	6,053.25	5,022.58	71.41	65.44	-155.84	1,200.91	2,771.89	353.53	275.01	78.52	4.503	
6,100.00	4,889.67	6,153.09	5,098.59	72.93	66.83	-155.73	1,226.49	2,831.37	359.11	278.84	80.28	4.473	
6,200.00	4,962.63	6,252.94	5,174.59	74.44	68.23	-155.62	1,252.07	2,890.84	364.70	282.66	82.04	4.445	
6,300.00	5,035.59	6,352.78	5,250.60	75.95	69.63	-155.52	1,277.65	2,950.31	370.28	286.48	83.80	4.419	
6,400.00	5,108.54	6,452.62	5,326.60	77.47	71.03	-155.41	1,303.24	3,009.78	375.87	290.30	85.57	4.393	
6,500.00	5,181.50	6,552.46	5,402.61	78.98	72.42	-155.31	1,328.82	3,069.26	381.46	294.12	87.33	4.368	
6,600.00	5,254.46	6,652.30	5,478.62	80.49	73.82	-155.21	1,354.40	3,128.73	387.05	297.94	89.10	4.344	
6,700.00	5,327.41	6,752.14	5,554.62	82.01	75.22	-155.12	1,379.99	3,188.20	392.64	301.76	90.88	4.321	
6,800.00	5,400.37	6,851.99	5,630.63	83.52	76.62	-155.03	1,405.57	3,247.68	398.23	305.58	92.65	4.298	
6,900.00	5,473.33	6,951.83	5,706.63	85.04	78.02	-154.94	1,431.15	3,307.15	403.82	309.40	94.43	4.277	
7,000.00	5,546.28	7,051.67	5,782.64	86.55	79.42	-154.85	1,456.73	3,366.62	409.42	313.21	96.20	4.256	
7,100.00	5,619.24	7,151.51	5,858.64	88.06	80.82	-154.77	1,482.32	3,426.09	415.01	317.03	97.98	4.236	
7,200.00	5,692.20	7,251.35	5,934.65	89.58	82.21	-154.68	1,507.90	3,485.57	420.61	320.84	99.76	4.216	
7,300.00	5,765.15	7,351.19	6,010.65	91.09	83.61	-154.60	1,533.48	3,545.04	426.20	324.66	101.55	4.197	
7,400.00	5,838.11	7,451.03	6,086.66	92.61	85.01	-154.53	1,559.07	3,604.51	431.80	328.47	103.33	4.179	
7,500.00	5,911.07	7,550.88	6,162.67	94.12	86.41	-154.45	1,584.65	3,663.98	437.40	332.28	105.12	4.161	
7,600.00	5,984.03	7,650.72	6,238.67	95.64	87.81	-154.38	1,610.23	3,723.46	442.99	336.09	106.90	4.144	
7,700.00	6,056.98	7,750.56	6,314.68	97.15	89.21	-154.30	1,635.81	3,782.93	448.59	339.90	108.69	4.127	
7,800.00	6,129.94	7,850.40	6,390.68	98.67	90.61	-154.23	1,661.40	3,842.40	454.19	343.71	110.48	4.111	
7,900.00	6,202.90	7,950.24	6,466.69	100.18	92.01	-154.16	1,686.98	3,901.88	459.79	347.52	112.27	4.095	
8,000.00	6,275.85	8,050.08	6,542.69	101.70	93.41	-154.10	1,712.56	3,961.35	465.40	351.33	114.06	4.080	
8,100.00	6,348.81	8,149.93	6,618.70	103.21	94.81	-154.03	1,738.14	4,020.82	471.00	355.14	115.86	4.065	
8,200.00	6,421.77	8,249.77	6,694.70	104.73	96.21	-153.97	1,763.73	4,080.29	476.60	358.95	117.65	4.051	
8,300.00	6,494.72	8,349.61	6,770.71	106.24	97.61	-153.90	1,789.31	4,139.77	482.20	362.76	119.44	4.037	
8,400.00	6,567.68	8,449.45	6,846.72	107.76	99.01	-153.84	1,814.89	4,199.24	487.81	366.57	121.24	4.023	
8,500.00	6,640.64	8,549.29	6,922.72	109.27	100.41	-153.78	1,840.48	4,258.71	493.41	370.37	123.04	4.010	
8,600.00	6,713.59	8,649.13	6,998.73	110.79	101.81	-153.72	1,866.06	4,318.19	499.02	374.18	124.84	3.997	
8,700.00	6,786.55	8,752.00	7,077.10	112.30	103.25	-153.70	1,892.08	4,379.51	504.57	377.99	126.58	3.986	
8,800.00	6,859.51	8,867.67	7,167.38	113.82	104.80	-155.37	1,906.31	4,450.10	507.99	383.39	124.60	4.077	
8,900.00	6,932.46	8,973.80	7,250.69	115.33	106.07	-159.11	1,898.90	4,515.17	509.76	391.59	118.16	4.314	
9,000.00	7,005.42	9,065.43	7,320.74	116.85	106.99	-163.93	1,876.91	4,569.83	513.29	403.11	110.18	4.659	
9,104.89	7,081.95	9,145.00	7,378.69	118.44	107.65	-169.16	1,846.54	4,615.00	523.06	420.21	102.85	5.086	
9,150.00	7,115.15	9,175.42	7,399.88	119.12	107.86	-176.73	1,832.28	4,631.51	529.86	429.37	100.49	5.273	
9,200.00	7,152.46	9,208.39	7,422.15	119.86	108.06	174.65	1,815.23	4,648.85	538.89	440.35	98.54	5.469	
9,250.00	7,190.04	9,240.70	7,443.19	120.57	108.24	165.95	1,796.98	4,665.23	549.19	452.13	97.06	5.658	
9,300.00	7,227.59	9,272.46	7,463.04	121.25	108.39	157.35	1,777.61	4,680.68	560.46	464.61	95.86	5.847	
9,350.00	7,264.83	9,303.74	7,481.75	121.89	108.53	149.03	1,757.19	4,695.23	572.41	477.63	94.79	6.039	
9,400.00	7,301.48	9,334.62	7,499.33	122.48	108.63	141.15	1,735.80	4,708.89	584.77	491.01	93.76	6.237	
9,450.00	7,337.26	9,365.15	7,515.79	123.01	108.71	133.82	1,713.50	4,721.68	597.28	504.57	92.72	6.442	
9,500.00	7,371.90	9,400.00	7,533.41	123.49	108.79	126.93	1,686.73	4,735.35	609.75	518.04	91.71	6.648	
9,550.00	7,405.13	9,425.36	7,545.41	123.91	108.82	121.04	1,666.43	4,744.66	621.90	531.28	90.62	6.863	
9,600.00	7,436.70	9,450.00	7,556.39	124.27	108.86	115.77	1,646.07	4,753.17	633.65	543.99	89.67	7.067	
9,650.00	7,466.36	9,484.68	7,570.64	124.57	108.87	110.86	1,616.45	4,764.21	644.73	555.94	88.79	7.261	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,700.00	7,493.91	9,514.08	7,581.60	124.81	108.87	106.69	1,590.52	4,772.68	655.10	566.95	88.14	7.432	
9,750.00	7,519.11	9,550.00	7,593.55	125.00	108.86	102.96	1,557.94	4,781.91	664.65	577.13	87.51	7.595	
9,800.00	7,541.79	9,572.50	7,600.21	125.12	108.83	100.02	1,537.07	4,787.04	673.12	585.37	87.75	7.671	
9,850.00	7,561.77	9,600.00	7,607.46	125.20	108.80	97.46	1,511.14	4,792.62	680.59	592.34	88.26	7.712	
9,900.00	7,578.90	9,630.52	7,614.35	125.23	108.74	95.33	1,481.89	4,797.91	686.93	597.95	88.98	7.720	
9,950.00	7,593.04	9,659.43	7,619.74	125.22	108.69	93.66	1,453.79	4,802.02	692.08	601.79	90.30	7.665	
10,000.00	7,604.09	9,688.29	7,624.00	125.17	108.62	92.40	1,425.43	4,805.25	696.00	603.90	92.10	7.557	
10,050.00	7,611.97	9,717.11	7,627.13	125.08	108.54	91.54	1,396.88	4,807.60	698.65	604.27	94.38	7.403	
10,100.00	7,616.61	9,750.00	7,629.30	124.97	108.45	91.07	1,364.10	4,809.19	700.02	603.61	96.41	7.261	
10,145.95	7,618.00	9,772.39	7,629.94	124.84	108.38	90.98	1,341.73	4,809.61	700.10	600.19	99.91	7.007	
10,160.65	7,618.00	9,783.46	7,630.00	124.80	108.35	90.98	1,333.97	4,809.63	700.02	599.05	100.97	6.933	
10,200.00	7,618.00	9,819.50	7,630.00	124.69	108.23	90.98	1,294.61	4,809.50	700.02	599.46	100.56	6.962	
10,300.00	7,618.00	9,919.50	7,630.00	124.41	107.91	90.98	1,194.61	4,809.16	700.02	600.49	99.53	7.033	
10,400.00	7,618.00	10,019.50	7,630.00	124.14	107.61	90.98	1,094.62	4,808.83	700.02	601.40	98.62	7.098	
10,500.00	7,618.00	10,119.50	7,630.00	123.88	107.33	90.98	994.62	4,808.49	700.02	602.20	97.82	7.156	
10,600.00	7,618.00	10,219.50	7,630.00	123.63	107.05	90.98	894.62	4,808.15	700.02	602.87	97.15	7.205	
10,700.00	7,618.00	10,319.50	7,630.00	123.40	106.79	90.98	794.62	4,807.81	700.02	603.41	96.61	7.246	
10,800.00	7,618.00	10,419.50	7,630.00	123.18	106.54	90.98	694.62	4,807.48	700.02	603.83	96.19	7.278	
10,900.00	7,618.00	10,519.50	7,630.00	122.96	106.31	90.98	594.62	4,807.14	700.02	604.12	95.90	7.300	
11,000.00	7,618.00	10,619.50	7,630.00	122.76	106.09	90.98	494.62	4,806.80	700.02	604.28	95.74	7.312	
11,100.00	7,618.00	10,719.50	7,630.00	122.57	105.88	90.98	394.62	4,806.46	700.02	604.31	95.71	7.314	
11,200.00	7,618.00	10,819.50	7,630.00	122.39	105.68	90.98	294.62	4,806.13	700.02	604.21	95.81	7.306	
11,300.00	7,618.00	10,919.50	7,630.00	122.23	105.50	90.98	194.62	4,805.79	700.02	603.98	96.04	7.289	
11,400.00	7,618.00	11,019.50	7,630.00	122.07	105.33	90.98	94.62	4,805.45	700.02	603.62	96.40	7.262	
11,500.00	7,618.00	11,119.50	7,630.00	121.93	105.18	90.98	-5.38	4,805.11	700.02	603.13	96.89	7.225	
11,600.00	7,618.00	11,219.50	7,630.00	121.79	105.04	90.98	-105.38	4,804.78	700.02	602.52	97.50	7.180	
11,700.00	7,618.00	11,319.50	7,630.00	121.67	104.91	90.98	-205.38	4,804.44	700.02	601.79	98.24	7.126	
11,800.00	7,618.00	11,419.50	7,630.00	121.56	104.80	90.98	-305.38	4,804.10	700.02	600.93	99.10	7.064	
11,900.00	7,618.00	11,519.50	7,630.00	121.46	104.70	90.98	-405.38	4,803.77	700.03	599.95	100.07	6.995	
12,000.00	7,618.00	11,619.50	7,630.00	121.38	104.61	90.98	-505.38	4,803.43	700.03	598.86	101.16	6.920	
12,100.00	7,618.00	11,719.50	7,630.00	121.30	104.54	90.98	-605.37	4,803.09	700.03	597.67	102.36	6.839	
12,200.00	7,618.00	11,819.50	7,630.00	121.24	104.49	90.98	-705.37	4,802.75	700.03	596.36	103.67	6.753	
12,300.00	7,618.00	11,919.50	7,630.00	121.19	104.45	90.98	-805.37	4,802.42	700.03	594.95	105.08	6.662	
12,400.00	7,618.00	12,019.50	7,630.00	121.16	104.42	90.98	-905.37	4,802.08	700.03	593.44	106.58	6.568	
12,500.00	7,618.00	12,119.50	7,630.00	121.14	104.42	90.98	-1,005.37	4,801.74	700.03	591.84	108.19	6.471	
12,600.00	7,618.00	12,219.50	7,630.00	121.13	104.42	90.98	-1,105.37	4,801.40	700.03	590.15	109.88	6.371	
12,700.00	7,618.00	12,319.50	7,630.00	121.13	104.45	90.98	-1,205.37	4,801.07	700.03	588.37	111.66	6.269	
12,800.00	7,618.00	12,419.50	7,630.00	121.15	104.50	90.98	-1,305.37	4,800.73	700.03	586.51	113.52	6.167	
12,900.00	7,618.00	12,519.50	7,630.00	121.18	104.56	90.98	-1,405.37	4,800.39	700.03	584.57	115.46	6.063	
13,000.00	7,618.00	12,619.50	7,630.00	121.23	104.64	90.98	-1,505.37	4,800.05	700.03	582.56	117.47	5.959	
13,100.00	7,618.00	12,719.50	7,630.00	121.29	104.75	90.98	-1,605.37	4,799.72	700.03	580.48	119.56	5.855	
13,200.00	7,618.00	12,819.50	7,630.00	121.37	104.87	90.98	-1,705.37	4,799.38	700.03	578.32	121.71	5.752	
13,300.00	7,618.00	12,919.50	7,630.00	121.46	105.02	90.98	-1,805.37	4,799.04	700.03	576.11	123.92	5.649	
13,400.00	7,618.00	13,019.50	7,630.00	121.57	105.19	90.98	-1,905.37	4,798.71	700.03	573.84	126.19	5.547	
13,500.00	7,618.00	13,119.50	7,630.00	121.70	105.38	90.98	-2,005.37	4,798.37	700.03	571.51	128.53	5.447	
13,600.00	7,618.00	13,219.50	7,630.00	121.84	105.60	90.98	-2,105.37	4,798.03	700.03	569.12	130.91	5.347	
13,700.00	7,618.00	13,319.50	7,630.00	122.01	105.85	90.98	-2,205.37	4,797.69	700.03	566.69	133.35	5.250	
13,800.00	7,618.00	13,419.50	7,630.00	122.19	106.12	90.98	-2,305.37	4,797.36	700.03	564.20	135.83	5.154	
13,900.00	7,618.00	13,519.50	7,630.00	122.39	106.42	90.98	-2,405.36	4,797.02	700.03	561.67	138.36	5.059	
14,000.00	7,618.00	13,619.50	7,630.00	122.62	106.74	90.98	-2,505.36	4,796.68	700.03	559.10	140.94	4.967	
14,100.00	7,618.00	13,719.50	7,630.00	122.86	107.10	90.98	-2,605.36	4,796.34	700.04	556.48	143.55	4.877	
14,200.00	7,618.00	13,819.50	7,630.00	123.12	107.49	90.98	-2,705.36	4,796.01	700.04	553.83	146.20	4.788	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	13,919.50	7,630.00	123.41	107.92	90.98	-2,805.36	4,795.67	700.04	551.14	148.89	4.702	
14,400.00	7,618.00	14,019.50	7,630.00	123.72	108.37	90.98	-2,905.36	4,795.33	700.04	548.42	151.62	4.617	
14,500.00	7,618.00	14,119.50	7,630.00	124.06	108.86	90.98	-3,005.36	4,794.99	700.04	545.66	154.37	4.535	
14,600.00	7,618.00	14,219.50	7,630.00	124.42	109.39	90.98	-3,105.36	4,794.66	700.04	542.87	157.16	4.454	
14,700.00	7,618.00	14,319.50	7,630.00	124.80	109.95	90.98	-3,205.36	4,794.32	700.04	540.06	159.98	4.376	
14,800.00	7,618.00	14,419.50	7,630.00	125.21	110.55	90.98	-3,305.36	4,793.98	700.04	537.21	162.83	4.299	
14,900.00	7,618.00	14,519.50	7,630.00	125.65	111.18	90.98	-3,405.36	4,793.64	700.04	534.34	165.70	4.225	
15,000.00	7,618.00	14,619.50	7,630.00	126.11	111.86	90.98	-3,505.36	4,793.31	700.04	531.44	168.60	4.152	
15,100.00	7,618.00	14,719.50	7,630.00	126.61	112.57	90.98	-3,605.36	4,792.97	700.04	528.52	171.52	4.081	
15,200.00	7,618.00	14,819.50	7,630.00	127.13	113.31	90.98	-3,705.36	4,792.63	700.04	525.58	174.46	4.013	
15,300.00	7,618.00	14,919.50	7,630.00	127.68	114.09	90.98	-3,805.36	4,792.30	700.04	522.61	177.43	3.946	
15,400.00	7,618.00	15,019.50	7,630.00	128.26	114.91	90.98	-3,905.36	4,791.96	700.04	519.63	180.41	3.880	
15,500.00	7,618.00	15,119.50	7,630.00	128.87	115.77	90.98	-4,005.36	4,791.62	700.04	516.62	183.42	3.817	
15,600.00	7,618.00	15,219.50	7,630.00	129.51	116.66	90.98	-4,105.35	4,791.28	700.04	513.60	186.44	3.755	
15,700.00	7,618.00	15,319.50	7,630.00	130.18	117.58	90.98	-4,205.35	4,790.95	700.04	510.56	189.48	3.695	
15,800.00	7,618.00	15,419.50	7,630.00	130.88	118.54	90.98	-4,305.35	4,790.61	700.04	507.50	192.54	3.636	
15,900.00	7,618.00	15,519.50	7,630.00	131.61	119.53	90.98	-4,405.35	4,790.27	700.04	504.43	195.61	3.579	
16,000.00	7,618.00	15,619.50	7,630.00	132.37	120.56	90.98	-4,505.35	4,789.93	700.04	501.34	198.70	3.523	
16,100.00	7,618.00	15,719.50	7,630.00	133.17	121.61	90.98	-4,605.35	4,789.60	700.04	498.24	201.81	3.469	
16,200.00	7,618.00	15,819.50	7,630.00	133.99	122.69	90.98	-4,705.35	4,789.26	700.04	495.12	204.93	3.416	
16,300.00	7,618.00	15,919.50	7,630.00	134.84	123.80	90.98	-4,805.35	4,788.92	700.04	491.99	208.06	3.365	
16,400.00	7,618.00	16,019.50	7,630.00	135.72	124.94	90.98	-4,905.35	4,788.58	700.05	488.84	211.20	3.315	
16,500.00	7,618.00	16,119.50	7,630.00	136.63	126.10	90.98	-5,005.35	4,788.25	700.05	485.69	214.36	3.266	
16,600.00	7,618.00	16,219.50	7,630.00	137.57	127.28	90.98	-5,105.35	4,787.91	700.05	482.52	217.53	3.218	
16,700.00	7,618.00	16,319.50	7,630.00	138.54	128.49	90.98	-5,205.35	4,787.57	700.05	479.34	220.71	3.172	
16,800.00	7,618.00	16,419.50	7,630.00	139.53	129.72	90.98	-5,305.35	4,787.24	700.05	476.15	223.90	3.127	
16,900.00	7,618.00	16,519.50	7,630.00	140.55	130.98	90.98	-5,405.35	4,786.90	700.05	472.95	227.10	3.083	
17,000.00	7,618.00	16,619.50	7,630.00	141.60	132.25	90.98	-5,505.35	4,786.56	700.05	469.74	230.31	3.040	
17,100.00	7,618.00	16,719.50	7,630.00	142.67	133.54	90.98	-5,605.35	4,786.22	700.05	466.52	233.52	2.998	
17,200.00	7,618.00	16,819.50	7,630.00	143.77	134.85	90.98	-5,705.35	4,785.89	700.05	463.30	236.75	2.957	
17,300.00	7,618.00	16,919.50	7,630.00	144.88	136.17	90.98	-5,805.35	4,785.55	700.05	460.06	239.99	2.917	
17,400.00	7,618.00	17,019.50	7,630.00	146.02	137.51	90.98	-5,905.34	4,785.21	700.05	456.82	243.23	2.878	
17,500.00	7,618.00	17,119.50	7,630.00	147.19	138.87	90.98	-6,005.34	4,784.87	700.05	453.56	246.49	2.840	
17,600.00	7,618.00	17,219.50	7,630.00	148.37	140.24	90.98	-6,105.34	4,784.54	700.05	450.30	249.75	2.803	
17,700.00	7,618.00	17,319.50	7,630.00	149.57	141.63	90.98	-6,205.34	4,784.20	700.05	447.04	253.02	2.767	
17,800.00	7,618.00	17,419.50	7,630.00	150.79	143.03	90.98	-6,305.34	4,783.86	700.05	443.76	256.29	2.731	
17,900.00	7,618.00	17,519.50	7,630.00	152.03	144.44	90.98	-6,405.34	4,783.52	700.05	440.48	259.57	2.697	
18,000.00	7,618.00	17,619.50	7,630.00	153.29	145.86	90.98	-6,505.34	4,783.19	700.05	437.19	262.86	2.663	
18,100.00	7,618.00	17,719.50	7,630.00	154.57	147.29	90.98	-6,605.34	4,782.85	700.05	433.90	266.15	2.630	
18,200.00	7,618.00	17,819.50	7,630.00	155.86	148.74	90.98	-6,705.34	4,782.51	700.05	430.60	269.46	2.598	
18,300.00	7,618.00	17,919.50	7,630.00	157.17	150.19	90.98	-6,805.34	4,782.18	700.05	427.29	272.76	2.567	
18,400.00	7,618.00	18,019.50	7,630.00	158.49	151.66	90.98	-6,905.34	4,781.84	700.05	423.98	276.07	2.536	
18,500.00	7,618.00	18,119.50	7,630.00	159.82	153.13	90.98	-7,005.34	4,781.50	700.05	420.66	279.39	2.506	
18,600.00	7,618.00	18,219.50	7,630.00	161.17	154.61	90.98	-7,105.34	4,781.16	700.05	417.34	282.71	2.476	
18,700.00	7,618.00	18,319.50	7,630.00	162.54	156.10	90.98	-7,205.34	4,780.83	700.06	414.01	286.04	2.447	
18,800.00	7,618.00	18,419.50	7,630.00	163.91	157.60	90.98	-7,305.34	4,780.49	700.06	410.68	289.38	2.419	
18,900.00	7,618.00	18,519.50	7,630.00	165.30	159.10	90.98	-7,405.34	4,780.15	700.06	407.34	292.71	2.392	
19,000.00	7,618.00	18,619.50	7,630.00	166.70	160.62	90.98	-7,505.34	4,779.81	700.06	404.00	296.06	2.365	
19,100.00	7,618.00	18,719.50	7,630.00	168.10	162.14	90.98	-7,605.34	4,779.48	700.06	400.66	299.40	2.338	
19,200.00	7,618.00	18,819.50	7,630.00	169.52	163.66	90.98	-7,705.33	4,779.14	700.06	397.31	302.75	2.312	
19,300.00	7,618.00	18,919.50	7,630.00	170.95	165.20	90.98	-7,805.33	4,778.80	700.06	393.95	306.11	2.287	
19,400.00	7,618.00	19,019.50	7,630.00	172.39	166.74	90.98	-7,905.33	4,778.46	700.06	390.59	309.47	2.262	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,500.00	7,618.00	19,119.50	7,630.00	173.84	168.28	90.98	-8,005.33	4,778.13	700.06	387.23	312.83	2.238	
19,600.00	7,618.00	19,219.50	7,630.00	175.30	169.83	90.98	-8,105.33	4,777.79	700.06	383.86	316.20	2.214	
19,700.00	7,618.00	19,319.50	7,630.00	176.76	171.39	90.98	-8,205.33	4,777.45	700.06	380.49	319.57	2.191	
19,800.00	7,618.00	19,419.50	7,630.00	178.24	172.95	90.98	-8,305.33	4,777.12	700.06	377.12	322.94	2.168	
19,896.19	7,618.00	19,515.69	7,630.00	179.66	174.45	90.98	-8,401.52	4,776.79	700.06	373.87	326.19	2.146	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	0.00	0.00	0.00	0.00	-90.00	0.00	-9.80	9.80				
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-9.80	9.80	9.53	0.27	36.451	
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-9.80	9.80	8.81	0.99	9.941	CC, ES
300.00	299.98	299.98	299.98	0.85	0.85	-162.39	0.00	-9.80	11.45	9.75	1.70	6.737	
400.00	399.84	400.36	400.34	1.21	1.21	-166.34	0.65	-8.17	14.82	12.41	2.41	6.147	
500.00	499.45	500.86	500.70	1.58	1.57	-168.59	2.62	-3.27	18.23	15.11	3.12	5.839	
600.00	598.70	601.49	600.93	1.97	1.94	-169.93	5.90	4.91	21.65	17.82	3.84	5.642	
700.00	697.47	702.24	700.92	2.38	2.32	-170.73	10.49	16.37	25.07	20.52	4.56	5.501	
800.00	795.62	803.11	800.52	2.83	2.74	-171.19	16.40	31.10	28.48	23.20	5.28	5.390	
900.00	893.06	904.10	899.63	3.31	3.18	-171.41	23.62	49.10	31.87	25.85	6.02	5.296	
1,000.00	989.64	1,005.21	998.11	3.83	3.66	-171.47	32.15	70.35	35.24	28.47	6.76	5.211	
1,100.00	1,085.27	1,106.44	1,095.83	4.40	4.18	-171.40	41.97	94.85	38.57	31.06	7.51	5.133	
1,200.00	1,179.82	1,207.79	1,192.67	5.02	4.74	-171.24	53.09	122.58	41.87	33.59	8.28	5.057	
1,300.00	1,273.17	1,309.25	1,288.50	5.70	5.36	-171.00	65.50	153.50	45.14	36.08	9.06	4.982	
1,400.00	1,365.21	1,410.83	1,383.20	6.43	6.05	-170.71	79.17	187.59	48.36	38.50	9.86	4.905	
1,500.00	1,455.84	1,512.52	1,476.64	7.23	6.79	-170.36	94.10	224.82	51.54	40.86	10.68	4.827	
1,600.00	1,544.94	1,614.33	1,568.70	8.09	7.59	-169.97	110.28	265.16	54.68	43.16	11.52	4.747	
1,700.00	1,632.39	1,716.24	1,659.25	9.01	8.46	-169.55	127.68	308.54	57.76	45.38	12.38	4.664	
1,800.00	1,718.11	1,818.26	1,748.18	10.00	9.41	-169.10	146.29	354.95	60.79	47.51	13.28	4.578	
1,900.00	1,801.97	1,920.38	1,835.35	11.07	10.42	-168.62	166.09	404.31	63.77	49.56	14.21	4.489	
2,000.00	1,883.88	2,022.61	1,920.67	12.20	11.51	-168.12	187.05	456.58	66.69	51.52	15.17	4.396	
2,100.00	1,963.74	2,124.94	2,003.99	13.41	12.68	-167.59	209.16	511.69	69.55	53.38	16.18	4.299	
2,200.00	2,041.45	2,227.36	2,085.22	14.69	13.92	-167.04	232.38	569.59	72.35	55.12	17.23	4.200	
2,300.00	2,116.92	2,329.88	2,164.24	16.05	15.23	-166.48	256.69	630.20	75.08	56.76	18.33	4.096	
2,357.48	2,159.25	2,387.27	2,207.84	16.86	16.00	-166.27	270.58	664.83	77.24	58.18	19.06	4.053	
2,400.00	2,190.27	2,429.74	2,240.11	17.47	16.56	-166.20	280.86	690.46	79.25	59.66	19.59	4.045	
2,500.00	2,263.22	2,529.63	2,316.00	18.92	17.91	-166.06	305.04	750.74	83.97	63.12	20.85	4.027	
2,600.00	2,336.18	2,629.52	2,391.90	20.37	19.26	-165.93	329.21	811.02	88.69	66.56	22.13	4.008	
2,700.00	2,409.14	2,729.40	2,467.79	21.84	20.62	-165.82	353.39	871.30	93.41	69.99	23.42	3.988	
2,800.00	2,482.09	2,829.29	2,543.68	23.31	21.99	-165.72	377.56	931.58	98.14	73.41	24.72	3.969	
2,900.00	2,555.05	2,929.18	2,619.57	24.78	23.37	-165.62	401.74	991.86	102.86	76.83	26.03	3.951	
3,000.00	2,628.01	3,029.07	2,695.46	26.27	24.75	-165.54	425.92	1,052.13	107.58	80.23	27.35	3.933	
3,100.00	2,700.96	3,128.96	2,771.36	27.75	26.13	-165.46	450.09	1,112.41	112.31	83.63	28.68	3.916	
3,200.00	2,773.92	3,228.85	2,847.25	29.24	27.52	-165.39	474.27	1,172.69	117.03	87.02	30.01	3.899	
3,300.00	2,846.88	3,328.73	2,923.14	30.73	28.90	-165.32	498.45	1,232.97	121.76	90.40	31.35	3.884	
3,400.00	2,919.83	3,428.62	2,999.03	32.23	30.30	-165.26	522.62	1,293.25	126.48	93.78	32.69	3.868	
3,500.00	2,992.79	3,528.51	3,074.93	33.72	31.69	-165.20	546.80	1,353.53	131.20	97.16	34.04	3.854	
3,600.00	3,065.75	3,628.40	3,150.82	35.22	33.08	-165.15	570.98	1,413.81	135.93	100.53	35.39	3.840	
3,700.00	3,138.71	3,728.29	3,226.71	36.72	34.48	-165.10	595.15	1,474.08	140.65	103.90	36.75	3.827	
3,800.00	3,211.66	3,828.18	3,302.60	38.22	35.88	-165.05	619.33	1,534.36	145.38	107.27	38.11	3.815	
3,900.00	3,284.62	3,928.06	3,378.50	39.72	37.28	-165.01	643.50	1,594.64	150.10	110.63	39.47	3.803	
4,000.00	3,357.58	4,027.95	3,454.39	41.22	38.68	-164.97	667.68	1,654.92	154.83	114.00	40.83	3.792	
4,100.00	3,430.53	4,127.84	3,530.28	42.73	40.08	-164.93	691.86	1,715.20	159.55	117.36	42.20	3.781	
4,200.00	3,503.49	4,227.73	3,606.17	44.23	41.48	-164.89	716.03	1,775.48	164.28	120.71	43.57	3.771	
4,300.00	3,576.45	4,327.62	3,682.07	45.74	42.88	-164.86	740.21	1,835.76	169.00	124.07	44.94	3.761	
4,400.00	3,649.40	4,427.50	3,757.96	47.25	44.29	-164.83	764.39	1,896.03	173.73	127.42	46.31	3.752	
4,500.00	3,722.36	4,527.39	3,833.85	48.75	45.69	-164.80	788.56	1,956.31	178.45	130.77	47.68	3.743	
4,600.00	3,795.32	4,627.28	3,909.74	50.26	47.10	-164.77	812.74	2,016.59	183.18	134.12	49.05	3.734	
4,700.00	3,868.27	4,727.17	3,985.64	51.77	48.50	-164.74	836.91	2,076.87	187.90	137.47	50.43	3.726	
4,800.00	3,941.23	4,827.06	4,061.53	53.28	49.91	-164.71	861.09	2,137.15	192.63	140.82	51.81	3.718	
4,900.00	4,014.19	4,926.95	4,137.42	54.79	51.32	-164.69	885.27	2,197.43	197.36	144.17	53.19	3.711	
5,000.00	4,087.15	5,026.83	4,213.31	56.30	52.72	-164.67	909.44	2,257.71	202.08	147.52	54.57	3.703	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	5,126.72	4,289.21	57.81	54.13	-164.64	933.62	2,317.98	206.81	150.86	55.95	3.697	
5,200.00	4,233.06	5,226.61	4,365.10	59.32	55.54	-164.62	957.80	2,378.26	211.53	154.21	57.33	3.690	
5,300.00	4,306.02	5,326.50	4,440.99	60.83	56.95	-164.60	981.97	2,438.54	216.26	157.55	58.71	3.684	
5,400.00	4,378.97	5,426.39	4,516.88	62.34	58.36	-164.58	1,006.15	2,498.82	220.98	160.89	60.09	3.677	
5,500.00	4,451.93	5,526.28	4,592.78	63.85	59.77	-164.56	1,030.33	2,559.10	225.71	164.23	61.48	3.672	
5,600.00	4,524.89	5,626.16	4,668.67	65.36	61.17	-164.54	1,054.50	2,619.38	230.43	167.57	62.86	3.666	
5,700.00	4,597.84	5,726.05	4,744.56	66.88	62.58	-164.53	1,078.68	2,679.66	235.16	170.91	64.25	3.660	
5,800.00	4,670.80	5,825.94	4,820.45	68.39	63.99	-164.51	1,102.85	2,739.93	239.89	174.25	65.63	3.655	
5,900.00	4,743.76	5,925.83	4,896.35	69.90	65.40	-164.49	1,127.03	2,800.21	244.61	177.59	67.02	3.650	
6,000.00	4,816.71	6,025.72	4,972.24	71.41	66.81	-164.48	1,151.21	2,860.49	249.34	180.93	68.40	3.645	
6,100.00	4,889.67	6,125.61	5,048.13	72.93	68.22	-164.46	1,175.38	2,920.77	254.06	184.27	69.79	3.640	
6,200.00	4,962.63	6,225.49	5,124.02	74.44	69.63	-164.45	1,199.56	2,981.05	258.79	187.61	71.18	3.636	
6,300.00	5,035.59	6,325.38	5,199.92	75.95	71.04	-164.43	1,223.74	3,041.33	263.51	190.95	72.57	3.631	
6,400.00	5,108.54	6,425.27	5,275.81	77.47	72.45	-164.42	1,247.91	3,101.61	268.24	194.28	73.96	3.627	
6,500.00	5,181.50	6,525.16	5,351.70	78.98	73.87	-164.41	1,272.09	3,161.88	272.97	197.62	75.35	3.623	
6,600.00	5,254.46	6,625.05	5,427.59	80.49	75.28	-164.40	1,296.26	3,222.16	277.69	200.96	76.74	3.619	
6,700.00	5,327.41	6,724.93	5,503.49	82.01	76.69	-164.38	1,320.44	3,282.44	282.42	204.29	78.13	3.615	
6,800.00	5,400.37	6,824.82	5,579.38	83.52	78.10	-164.37	1,344.62	3,342.72	287.14	207.63	79.52	3.611	
6,900.00	5,473.33	6,924.71	5,655.27	85.04	79.51	-164.36	1,368.79	3,403.00	291.87	210.96	80.91	3.608	
7,000.00	5,546.28	7,024.60	5,731.16	86.55	80.92	-164.35	1,392.97	3,463.28	296.60	214.30	82.30	3.604	
7,100.00	5,619.24	7,124.49	5,807.05	88.06	82.33	-164.34	1,417.15	3,523.56	301.32	217.63	83.69	3.601	
7,200.00	5,692.20	7,224.38	5,882.95	89.58	83.75	-164.33	1,441.32	3,583.83	306.05	220.97	85.08	3.597	
7,300.00	5,765.15	7,324.26	5,958.84	91.09	85.16	-164.32	1,465.50	3,644.11	310.77	224.30	86.47	3.594	
7,400.00	5,838.11	7,424.15	6,034.73	92.61	86.57	-164.31	1,489.68	3,704.39	315.50	227.64	87.86	3.591	
7,500.00	5,911.07	7,524.04	6,110.62	94.12	87.98	-164.30	1,513.85	3,764.67	320.23	230.97	89.26	3.588	
7,600.00	5,984.03	7,623.93	6,186.52	95.64	89.39	-164.29	1,538.03	3,824.95	324.95	234.30	90.65	3.585	
7,700.00	6,056.98	7,723.82	6,262.41	97.15	90.81	-164.28	1,562.20	3,885.23	329.68	237.64	92.04	3.582	
7,800.00	6,129.94	7,823.71	6,338.30	98.67	92.22	-164.27	1,586.38	3,945.51	334.40	240.97	93.43	3.579	
7,900.00	6,202.90	7,923.59	6,414.19	100.18	93.63	-164.26	1,610.56	4,005.78	339.13	244.30	94.83	3.576	
8,000.00	6,275.85	8,023.48	6,490.09	101.70	95.04	-164.26	1,634.73	4,066.06	343.86	247.63	96.22	3.574	
8,100.00	6,348.81	8,123.37	6,565.98	103.21	96.45	-164.25	1,658.91	4,126.34	348.58	250.97	97.62	3.571	
8,200.00	6,421.77	8,223.26	6,641.87	104.73	97.87	-164.24	1,683.09	4,186.62	353.31	254.30	99.01	3.568	
8,300.00	6,494.72	8,323.15	6,717.76	106.24	99.28	-164.23	1,707.26	4,246.90	358.03	257.63	100.40	3.566	
8,400.00	6,567.68	8,423.03	6,793.66	107.76	100.69	-164.23	1,731.44	4,307.18	362.76	260.96	101.80	3.564	
8,500.00	6,640.64	8,522.92	6,869.55	109.27	102.11	-164.22	1,755.62	4,367.46	367.49	264.29	103.19	3.561	
8,600.00	6,713.59	8,622.81	6,945.44	110.79	103.52	-164.21	1,779.79	4,427.73	372.21	267.63	104.59	3.559	
8,700.00	6,786.55	8,722.70	7,021.33	112.30	104.93	-164.21	1,803.97	4,488.01	376.94	270.96	105.98	3.557	
8,800.00	6,859.51	8,822.59	7,097.23	113.82	106.34	-164.20	1,828.14	4,548.29	381.66	274.29	107.38	3.554	
8,900.00	6,932.46	8,922.48	7,173.12	115.33	107.76	-164.19	1,852.32	4,608.57	386.39	277.62	108.77	3.552	
9,000.00	7,005.42	9,022.36	7,249.01	116.85	109.17	-164.19	1,876.50	4,668.85	391.12	280.95	110.17	3.550	
9,104.89	7,081.95	9,127.02	7,328.60	118.44	110.65	-164.24	1,901.40	4,732.06	396.08	284.57	111.51	3.552	
9,150.00	7,115.15	9,171.72	7,363.12	119.12	111.27	-169.48	1,908.81	4,759.47	398.24	286.58	111.66	3.567	
9,200.00	7,152.46	9,221.11	7,401.66	119.86	111.93	-175.53	1,912.97	4,790.05	400.69	288.90	111.79	3.584	
9,250.00	7,190.04	9,270.35	7,440.23	120.57	112.56	178.28	1,912.88	4,820.64	403.16	291.26	111.90	3.603	
9,300.00	7,227.59	9,319.44	7,478.53	121.25	113.16	172.12	1,908.59	4,851.01	405.63	293.65	111.98	3.622	
9,350.00	7,264.83	9,368.40	7,516.32	121.89	113.71	166.15	1,900.17	4,880.95	408.09	296.03	112.06	3.642	
9,400.00	7,301.48	9,417.22	7,553.31	122.48	114.21	160.48	1,887.69	4,910.25	410.51	298.37	112.14	3.661	
9,450.00	7,337.26	9,465.93	7,589.26	123.01	114.66	155.23	1,871.29	4,938.71	412.87	300.65	112.22	3.679	
9,500.00	7,371.90	9,514.53	7,623.91	123.49	115.06	150.45	1,851.11	4,966.13	415.17	302.85	112.32	3.696	
9,550.00	7,405.13	9,563.03	7,657.05	123.91	115.40	146.16	1,827.30	4,992.34	417.36	304.94	112.43	3.712	
9,600.00	7,436.70	9,611.46	7,688.44	124.27	115.69	142.36	1,800.05	5,017.15	419.45	306.89	112.56	3.727	
9,650.00	7,466.36	9,659.81	7,717.89	124.57	115.92	139.04	1,769.58	5,040.40	421.41	308.70	112.71	3.739	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,700.00	7,493.91	9,708.10	7,745.18	124.81	116.11	136.16	1,736.09	5,061.94	423.23	310.34	112.89	3.749	
9,750.00	7,519.11	9,756.34	7,770.16	125.00	116.24	133.70	1,699.83	5,081.63	424.89	311.80	113.09	3.757	
9,800.00	7,541.79	9,804.54	7,792.64	125.12	116.33	131.62	1,661.06	5,099.33	426.38	313.07	113.31	3.763	
9,850.00	7,561.77	9,852.72	7,812.49	125.20	116.38	129.89	1,620.04	5,114.94	427.68	314.13	113.55	3.766	
9,900.00	7,578.90	9,900.89	7,829.57	125.23	116.38	128.49	1,577.06	5,128.34	428.80	314.98	113.82	3.767	
9,950.00	7,593.04	9,949.06	7,843.76	125.22	116.35	127.39	1,532.40	5,139.44	429.71	315.61	114.10	3.766	
10,000.00	7,604.09	9,997.24	7,854.97	125.17	116.28	126.58	1,486.38	5,148.18	430.42	316.02	114.40	3.762	
10,050.00	7,611.97	10,045.44	7,863.11	125.08	116.19	126.05	1,439.31	5,154.48	430.91	316.20	114.72	3.756	
10,100.00	7,616.61	10,093.68	7,868.13	124.97	116.07	125.77	1,391.50	5,158.31	431.19	316.15	115.04	3.748	
10,145.95	7,618.00	10,138.05	7,869.96	124.84	115.95	125.75	1,347.20	5,159.60	431.25	315.92	115.33	3.739	
10,167.71	7,618.00	10,159.53	7,870.00	124.78	115.88	125.76	1,325.71	5,159.56	431.25	315.85	115.39	3.737	
10,200.00	7,618.00	10,208.18	7,870.00	124.69	115.73	125.76	1,293.43	5,159.46	431.25	315.83	115.42	3.736	
10,300.00	7,618.00	10,291.82	7,870.00	124.41	115.49	125.76	1,193.43	5,159.12	431.25	315.73	115.52	3.733	
10,400.00	7,618.00	10,408.18	7,870.00	124.14	115.16	125.76	1,093.43	5,158.78	431.24	315.52	115.72	3.727	
10,500.00	7,618.00	10,508.18	7,870.00	123.88	114.89	125.76	993.43	5,158.45	431.24	315.25	115.99	3.718	
10,600.00	7,618.00	10,608.18	7,870.00	123.63	114.63	125.76	893.43	5,158.11	431.24	314.90	116.34	3.707	
10,700.00	7,618.00	10,708.18	7,870.00	123.40	114.39	125.76	793.43	5,157.78	431.24	314.48	116.76	3.693	
10,800.00	7,618.00	10,808.18	7,870.00	123.18	114.16	125.76	693.43	5,157.44	431.24	313.98	117.27	3.677	
10,900.00	7,618.00	10,908.18	7,870.00	122.96	113.94	125.76	593.43	5,157.11	431.24	313.40	117.84	3.660	
11,000.00	7,618.00	11,008.18	7,870.00	122.76	113.73	125.76	493.43	5,156.77	431.24	312.75	118.49	3.639	
11,100.00	7,618.00	11,108.18	7,870.00	122.57	113.53	125.76	393.43	5,156.43	431.24	312.03	119.21	3.617	
11,200.00	7,618.00	11,208.18	7,870.00	122.39	113.35	125.76	293.43	5,156.10	431.24	311.23	120.00	3.593	
11,300.00	7,618.00	11,308.18	7,870.00	122.23	113.18	125.76	193.43	5,155.76	431.24	310.37	120.87	3.568	
11,400.00	7,618.00	11,408.18	7,870.00	122.07	113.02	125.76	93.43	5,155.43	431.23	309.44	121.80	3.541	
11,500.00	7,618.00	11,508.18	7,870.00	121.93	112.88	125.76	-6.56	5,155.09	431.23	308.44	122.80	3.512	
11,600.00	7,618.00	11,608.18	7,870.00	121.79	112.75	125.76	-106.56	5,154.76	431.23	307.37	123.86	3.482	
11,700.00	7,618.00	11,708.18	7,870.00	121.67	112.63	125.76	-206.56	5,154.42	431.23	306.24	124.99	3.450	
11,800.00	7,618.00	11,808.18	7,870.00	121.56	112.52	125.76	-306.56	5,154.09	431.23	305.05	126.18	3.418	
11,900.00	7,618.00	11,908.18	7,870.00	121.46	112.43	125.76	-406.56	5,153.75	431.23	303.80	127.43	3.384	
12,000.00	7,618.00	12,008.18	7,870.00	121.38	112.35	125.76	-506.56	5,153.41	431.23	302.49	128.73	3.350	
12,100.00	7,618.00	12,108.18	7,870.00	121.30	112.28	125.76	-606.56	5,153.08	431.23	301.13	130.10	3.315	
12,200.00	7,618.00	12,208.18	7,870.00	121.24	112.23	125.76	-706.56	5,152.74	431.23	299.71	131.52	3.279	
12,300.00	7,618.00	12,308.18	7,870.00	121.19	112.19	125.76	-806.56	5,152.41	431.23	298.24	132.99	3.243	
12,400.00	7,618.00	12,408.18	7,870.00	121.16	112.17	125.76	-906.56	5,152.07	431.23	296.71	134.51	3.206	
12,500.00	7,618.00	12,508.18	7,870.00	121.14	112.16	125.76	-1,006.56	5,151.74	431.22	295.14	136.09	3.169	
12,600.00	7,618.00	12,608.18	7,870.00	121.13	112.17	125.76	-1,106.56	5,151.40	431.22	293.51	137.71	3.131	
12,700.00	7,618.00	12,708.18	7,870.00	121.13	112.19	125.76	-1,206.56	5,151.06	431.22	291.85	139.38	3.094	
12,800.00	7,618.00	12,791.82	7,870.00	121.15	112.23	125.76	-1,306.56	5,150.73	431.22	290.28	140.95	3.059	
12,900.00	7,618.00	12,908.18	7,870.00	121.18	112.29	125.76	-1,406.56	5,150.39	431.22	288.38	142.84	3.019	
13,000.00	7,618.00	13,008.18	7,870.00	121.23	112.36	125.76	-1,506.56	5,150.06	431.22	286.58	144.64	2.981	
13,100.00	7,618.00	13,108.18	7,870.00	121.29	112.45	125.76	-1,606.56	5,149.72	431.22	284.74	146.48	2.944	
13,200.00	7,618.00	13,208.18	7,870.00	121.37	112.56	125.76	-1,706.56	5,149.39	431.22	282.87	148.35	2.907	
13,300.00	7,618.00	13,291.82	7,870.00	121.46	112.67	125.76	-1,806.55	5,149.05	431.22	281.11	150.10	2.873	
13,400.00	7,618.00	13,408.18	7,870.00	121.57	112.84	125.76	-1,906.55	5,148.71	431.22	279.00	152.21	2.833	
13,500.00	7,618.00	13,508.18	7,870.00	121.70	113.01	125.76	-2,006.55	5,148.38	431.21	277.02	154.19	2.797	
13,600.00	7,618.00	13,591.82	7,870.00	121.84	113.17	125.76	-2,106.55	5,148.04	431.21	275.17	156.04	2.763	
13,700.00	7,618.00	13,708.18	7,870.00	122.01	113.42	125.76	-2,206.55	5,147.71	431.21	272.96	158.25	2.725	
13,800.00	7,618.00	13,791.82	7,870.00	122.19	113.61	125.76	-2,306.55	5,147.37	431.21	271.05	160.16	2.692	
13,900.00	7,618.00	13,908.18	7,870.00	122.39	113.91	125.76	-2,406.55	5,147.04	431.21	268.77	162.44	2.655	
14,000.00	7,618.00	14,008.18	7,870.00	122.62	114.20	125.76	-2,506.55	5,146.70	431.21	266.64	164.57	2.620	
14,100.00	7,618.00	14,108.18	7,870.00	122.86	114.51	125.76	-2,606.55	5,146.36	431.21	264.48	166.73	2.586	
14,200.00	7,618.00	14,208.18	7,870.00	123.12	114.85	125.76	-2,706.55	5,146.03	431.21	262.29	168.92	2.553	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	14,308.18	7,870.00	123.41	115.21	125.76	-2,806.55	5,145.69	431.21	260.07	171.13	2.520	
14,400.00	7,618.00	14,408.18	7,870.00	123.72	115.61	125.76	-2,906.55	5,145.36	431.21	257.84	173.37	2.487	
14,500.00	7,618.00	14,508.18	7,870.00	124.06	116.03	125.76	-3,006.55	5,145.02	431.20	255.57	175.63	2.455	
14,600.00	7,618.00	14,608.18	7,870.00	124.42	116.48	125.76	-3,106.55	5,144.69	431.20	253.29	177.91	2.424	
14,700.00	7,618.00	14,708.18	7,870.00	124.80	116.97	125.76	-3,206.55	5,144.35	431.20	250.99	180.22	2.393	
14,800.00	7,618.00	14,808.18	7,870.00	125.21	117.48	125.76	-3,306.55	5,144.01	431.20	248.66	182.54	2.362	
14,900.00	7,618.00	14,908.18	7,870.00	125.65	118.03	125.76	-3,406.55	5,143.68	431.20	246.32	184.88	2.332	
15,000.00	7,618.00	15,008.18	7,870.00	126.11	118.60	125.76	-3,506.54	5,143.34	431.20	243.95	187.25	2.303	
15,100.00	7,618.00	15,108.18	7,870.00	126.61	119.22	125.76	-3,606.54	5,143.01	431.20	241.57	189.63	2.274	
15,200.00	7,618.00	15,208.18	7,870.00	127.13	119.86	125.76	-3,706.54	5,142.67	431.20	239.17	192.03	2.245	
15,300.00	7,618.00	15,308.18	7,870.00	127.68	120.54	125.76	-3,806.54	5,142.34	431.20	236.75	194.45	2.218	
15,400.00	7,618.00	15,408.18	7,870.00	128.26	121.25	125.76	-3,906.54	5,142.00	431.20	234.32	196.88	2.190	
15,500.00	7,618.00	15,508.18	7,870.00	128.87	122.00	125.76	-4,006.54	5,141.66	431.19	231.87	199.33	2.163	
15,600.00	7,618.00	15,608.18	7,870.00	129.51	122.78	125.76	-4,106.54	5,141.33	431.19	229.40	201.79	2.137	
15,700.00	7,618.00	15,708.18	7,870.00	130.18	123.59	125.76	-4,206.54	5,140.99	431.19	226.92	204.27	2.111	
15,800.00	7,618.00	15,808.18	7,870.00	130.88	124.43	125.76	-4,306.54	5,140.66	431.19	224.43	206.76	2.085	
15,900.00	7,618.00	15,908.18	7,870.00	131.61	125.31	125.76	-4,406.54	5,140.32	431.19	221.92	209.27	2.060	
16,000.00	7,618.00	16,008.18	7,870.00	132.37	126.21	125.76	-4,506.54	5,139.99	431.19	219.40	211.79	2.036	
16,100.00	7,618.00	16,108.18	7,870.00	133.17	127.15	125.76	-4,606.54	5,139.65	431.19	216.87	214.32	2.012	
16,200.00	7,618.00	16,208.18	7,870.00	133.99	128.12	125.76	-4,706.54	5,139.31	431.19	214.32	216.87	1.988	
16,300.00	7,618.00	16,308.18	7,870.00	134.84	129.12	125.76	-4,806.54	5,138.98	431.19	211.76	219.42	1.965	
16,400.00	7,618.00	16,408.18	7,870.00	135.72	130.14	125.76	-4,906.54	5,138.64	431.19	209.19	221.99	1.942	
16,500.00	7,618.00	16,508.18	7,870.00	136.63	131.20	125.76	-5,006.54	5,138.31	431.18	206.61	224.57	1.920	
16,600.00	7,618.00	16,608.18	7,870.00	137.57	132.28	125.76	-5,106.54	5,137.97	431.18	204.02	227.16	1.898	
16,700.00	7,618.00	16,708.18	7,870.00	138.54	133.38	125.76	-5,206.54	5,137.64	431.18	201.42	229.76	1.877	
16,800.00	7,618.00	16,808.18	7,870.00	139.53	134.51	125.76	-5,306.53	5,137.30	431.18	198.81	232.37	1.856	
16,900.00	7,618.00	16,908.18	7,870.00	140.55	135.67	125.76	-5,406.53	5,136.96	431.18	196.19	234.99	1.835	
17,000.00	7,618.00	17,008.18	7,870.00	141.60	136.84	125.76	-5,506.53	5,136.63	431.18	193.56	237.62	1.815	
17,100.00	7,618.00	17,108.18	7,870.00	142.67	138.04	125.76	-5,606.53	5,136.29	431.18	190.92	240.26	1.795	
17,200.00	7,618.00	17,208.18	7,870.00	143.77	139.26	125.76	-5,706.53	5,135.96	431.18	188.28	242.90	1.775	
17,300.00	7,618.00	17,308.18	7,870.00	144.88	140.50	125.76	-5,806.53	5,135.62	431.18	185.62	245.56	1.756	
17,400.00	7,618.00	17,408.18	7,870.00	146.02	141.75	125.76	-5,906.53	5,135.29	431.18	182.96	248.22	1.737	
17,500.00	7,618.00	17,508.18	7,870.00	147.19	143.03	125.76	-6,006.53	5,134.95	431.18	180.28	250.89	1.719	
17,600.00	7,618.00	17,608.18	7,870.00	148.37	144.32	125.76	-6,106.53	5,134.62	431.17	177.60	253.57	1.700	
17,700.00	7,618.00	17,708.18	7,870.00	149.57	145.63	125.76	-6,206.53	5,134.28	431.17	174.92	256.26	1.683	
17,800.00	7,618.00	17,808.18	7,870.00	150.79	146.95	125.76	-6,306.53	5,133.94	431.17	172.22	258.95	1.665	
17,900.00	7,618.00	17,908.18	7,870.00	152.03	148.29	125.76	-6,406.53	5,133.61	431.17	169.52	261.65	1.648	
18,000.00	7,618.00	18,008.18	7,870.00	153.29	149.65	125.76	-6,506.53	5,133.27	431.17	166.81	264.36	1.631	
18,100.00	7,618.00	18,108.18	7,870.00	154.57	151.01	125.76	-6,606.53	5,132.94	431.17	164.10	267.07	1.614	
18,200.00	7,618.00	18,208.18	7,870.00	155.86	152.39	125.76	-6,706.53	5,132.60	431.17	161.38	269.79	1.598	
18,300.00	7,618.00	18,308.18	7,870.00	157.17	153.79	125.76	-6,806.53	5,132.27	431.17	158.65	272.52	1.582	
18,400.00	7,618.00	18,408.18	7,870.00	158.49	155.19	125.76	-6,906.53	5,131.93	431.17	155.92	275.25	1.566	
18,500.00	7,618.00	18,508.18	7,870.00	159.82	156.60	125.77	-7,006.53	5,131.59	431.17	153.18	277.99	1.551	
18,600.00	7,618.00	18,608.18	7,870.00	161.17	158.03	125.77	-7,106.52	5,131.26	431.16	150.43	280.73	1.536	
18,700.00	7,618.00	18,708.18	7,870.00	162.54	159.47	125.77	-7,206.52	5,130.92	431.16	147.68	283.48	1.521	
18,800.00	7,618.00	18,808.18	7,870.00	163.91	160.91	125.77	-7,306.52	5,130.59	431.16	144.93	286.23	1.506	
18,900.00	7,618.00	18,908.18	7,870.00	165.30	162.37	125.77	-7,406.52	5,130.25	431.16	142.17	288.99	1.492	Level 3
19,000.00	7,618.00	19,008.18	7,870.00	166.70	163.83	125.77	-7,506.52	5,129.92	431.16	139.40	291.76	1.478	Level 3
19,100.00	7,618.00	19,091.82	7,870.00	168.10	165.06	125.77	-7,606.52	5,129.58	431.16	136.86	294.30	1.465	Level 3
19,200.00	7,618.00	19,208.18	7,870.00	169.52	166.78	125.77	-7,706.52	5,129.24	431.16	133.86	297.30	1.450	Level 3
19,300.00	7,618.00	19,308.18	7,870.00	170.95	168.27	125.77	-7,806.52	5,128.91	431.16	131.08	300.08	1.437	Level 3
19,400.00	7,618.00	19,408.18	7,870.00	172.39	169.77	125.77	-7,906.52	5,128.57	431.16	128.30	302.86	1.424	Level 3

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

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

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

Reference		Offset		Semi Major Axis			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
19,500.00	7,618.00	19,508.18	7,870.00	173.84	171.27	125.77	-8,006.52	5,128.24	431.16	125.51	305.65	1.411	Level 3
19,600.00	7,618.00	19,608.18	7,870.00	175.30	172.78	125.77	-8,106.52	5,127.90	431.15	122.72	308.44	1.398	Level 3
19,700.00	7,618.00	19,708.18	7,870.00	176.76	174.30	125.77	-8,206.52	5,127.57	431.15	119.92	311.23	1.385	Level 3
19,800.00	7,618.00	19,808.18	7,870.00	178.24	175.82	125.77	-8,306.52	5,127.23	431.15	117.12	314.03	1.373	Level 3
19,896.19	7,618.00	19,888.01	7,870.00	179.66	177.04	125.77	-8,402.71	5,126.91	431.15	114.65	316.50	1.362	Level 3, SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	0.00	0.00	0.00	0.00	92.07	-0.36	10.08	10.09				
100.00	100.00	100.00	100.00	0.13	0.13	92.07	-0.36	10.08	10.09	9.82	0.27	37.517	CC, ES
200.00	200.00	199.63	199.61	0.49	0.49	88.95	0.22	11.71	11.72	10.73	0.99	11.852	
300.00	299.98	299.13	298.97	0.85	0.86	15.56	1.95	16.60	15.06	13.36	1.70	8.854	
400.00	399.84	398.50	397.96	1.21	1.23	13.20	4.83	24.72	18.44	16.03	2.41	7.652	
500.00	499.45	497.76	496.48	1.58	1.62	11.76	8.86	36.06	21.84	18.71	3.12	6.991	
600.00	598.70	596.90	594.41	1.97	2.04	10.87	14.02	50.59	25.23	21.38	3.84	6.567	
700.00	697.47	695.92	691.64	2.38	2.49	10.33	20.30	68.28	28.60	24.03	4.57	6.265	
800.00	795.62	794.84	788.04	2.83	2.97	10.04	27.69	89.10	31.95	26.65	5.30	6.033	
900.00	893.06	893.63	883.52	3.31	3.50	9.91	36.18	113.01	35.27	29.24	6.04	5.844	
1,000.00	989.64	992.32	977.96	3.83	4.07	9.92	45.76	139.99	38.56	31.78	6.78	5.684	
1,100.00	1,085.27	1,090.90	1,071.26	4.40	4.69	10.02	56.40	169.97	41.82	34.27	7.55	5.540	
1,200.00	1,179.82	1,189.38	1,163.31	5.02	5.37	10.19	68.10	202.93	45.03	36.71	8.32	5.409	
1,300.00	1,273.17	1,287.75	1,254.01	5.70	6.09	10.43	80.84	238.81	48.20	39.09	9.12	5.287	
1,400.00	1,365.21	1,386.01	1,343.26	6.43	6.88	10.71	94.60	277.56	51.33	41.40	9.93	5.169	
1,500.00	1,455.84	1,484.18	1,430.95	7.23	7.73	11.04	109.36	319.12	54.41	43.64	10.76	5.055	
1,600.00	1,544.94	1,582.25	1,517.00	8.09	8.64	11.40	125.09	363.45	57.43	45.81	11.62	4.943	
1,700.00	1,632.39	1,680.23	1,601.30	9.01	9.61	11.79	141.79	410.48	60.41	47.90	12.50	4.831	
1,800.00	1,718.11	1,778.11	1,683.77	10.00	10.65	12.20	159.43	460.16	63.32	49.91	13.42	4.720	
1,900.00	1,801.97	1,875.90	1,764.32	11.07	11.76	12.64	177.98	512.40	66.18	51.82	14.36	4.608	
2,000.00	1,883.88	1,973.60	1,842.86	12.20	12.94	13.10	197.42	567.16	68.98	53.63	15.35	4.495	
2,100.00	1,963.74	2,071.22	1,919.31	13.41	14.18	13.58	217.73	624.36	71.71	55.34	16.37	4.381	
2,200.00	2,041.45	2,168.76	1,993.59	14.69	15.49	14.08	238.88	683.93	74.38	56.94	17.44	4.265	
2,300.00	2,116.92	2,266.22	2,065.61	16.05	16.87	14.60	260.84	745.80	76.99	58.42	18.56	4.147	
2,357.48	2,159.25	2,323.01	2,106.65	16.86	17.70	14.93	273.97	782.79	78.29	59.00	19.30	4.058	
2,400.00	2,190.27	2,365.52	2,137.31	17.47	18.33	15.25	283.82	810.54	78.94	59.04	19.90	3.967	
2,500.00	2,263.22	2,465.50	2,209.42	18.92	19.82	15.97	307.00	875.80	80.46	59.11	21.35	3.768	
2,600.00	2,336.18	2,565.48	2,281.54	20.37	21.31	16.66	330.17	941.07	82.00	59.15	22.85	3.588	
2,700.00	2,409.14	2,665.47	2,353.65	21.84	22.81	17.33	353.34	1,006.33	83.55	59.15	24.40	3.425	
2,800.00	2,482.09	2,765.45	2,425.76	23.31	24.32	17.97	376.51	1,071.60	85.11	59.13	25.98	3.276	
2,900.00	2,555.05	2,865.43	2,497.88	24.78	25.83	18.59	399.68	1,136.86	86.68	59.08	27.60	3.141	
3,000.00	2,628.01	2,965.42	2,569.99	26.27	27.35	19.19	422.85	1,202.13	88.26	59.00	29.25	3.017	
3,100.00	2,700.96	3,065.40	2,642.10	27.75	28.87	19.77	446.02	1,267.39	89.85	58.90	30.94	2.904	
3,200.00	2,773.92	3,165.38	2,714.22	29.24	30.39	20.32	469.19	1,332.66	91.44	58.78	32.66	2.799	
3,300.00	2,846.88	3,265.37	2,786.33	30.73	31.92	20.86	492.36	1,397.92	93.05	58.63	34.42	2.704	
3,400.00	2,919.83	3,365.35	2,858.44	32.23	33.45	21.38	515.54	1,463.18	94.66	58.46	36.20	2.615	
3,500.00	2,992.79	3,465.33	2,930.55	33.72	34.98	21.88	538.71	1,528.45	96.28	58.28	38.00	2.533	
3,600.00	3,065.75	3,565.32	3,002.67	35.22	36.51	22.37	561.88	1,593.71	97.91	58.07	39.84	2.458	
3,700.00	3,138.71	3,665.30	3,074.78	36.72	38.04	22.84	585.05	1,658.98	99.55	57.85	41.70	2.387	
3,800.00	3,211.66	3,765.28	3,146.89	38.22	39.57	23.29	608.22	1,724.24	101.19	57.61	43.58	2.322	
3,900.00	3,284.62	3,865.27	3,219.01	39.72	41.11	23.73	631.39	1,789.51	102.84	57.36	45.48	2.261	
4,000.00	3,357.58	3,965.25	3,291.12	41.22	42.64	24.15	654.56	1,854.77	104.49	57.09	47.40	2.204	
4,100.00	3,430.53	4,065.23	3,363.23	42.73	44.18	24.57	677.73	1,920.04	106.15	56.80	49.35	2.151	
4,200.00	3,503.49	4,165.22	3,435.35	44.23	45.72	24.97	700.90	1,985.30	107.81	56.50	51.31	2.101	
4,300.00	3,576.45	4,265.20	3,507.46	45.74	47.26	25.35	724.08	2,050.57	109.48	56.19	53.29	2.055	
4,400.00	3,649.40	4,365.19	3,579.57	47.25	48.79	25.73	747.25	2,115.83	111.16	55.87	55.28	2.011	
4,500.00	3,722.36	4,465.17	3,651.68	48.75	50.33	26.09	770.42	2,181.10	112.83	55.54	57.30	1.969	
4,600.00	3,795.32	4,565.15	3,723.80	50.26	51.87	26.45	793.59	2,246.36	114.52	55.19	59.32	1.930	
4,700.00	3,868.27	4,665.14	3,795.91	51.77	53.41	26.79	816.76	2,311.63	116.21	54.84	61.36	1.894	
4,800.00	3,941.23	4,765.12	3,868.02	53.28	54.96	27.13	839.93	2,376.89	117.90	54.48	63.42	1.859	
4,900.00	4,014.19	4,865.10	3,940.14	54.79	56.50	27.45	863.10	2,442.16	119.59	54.10	65.49	1.826	
5,000.00	4,087.15	4,965.09	4,012.25	56.30	58.04	27.77	886.27	2,507.42	121.29	53.72	67.57	1.795	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	5,065.07	4,084.36	57.81	59.58	28.07	909.44	2,572.69	123.00	53.33	69.66	1.766	
5,200.00	4,233.06	5,165.05	4,156.48	59.32	61.12	28.37	932.62	2,637.95	124.70	52.94	71.77	1.738	
5,300.00	4,306.02	5,265.04	4,228.59	60.83	62.67	28.66	955.79	2,703.21	126.41	52.53	73.88	1.711	
5,400.00	4,378.97	5,365.02	4,300.70	62.34	64.21	28.94	978.96	2,768.48	128.12	52.12	76.01	1.686	
5,500.00	4,451.93	5,465.00	4,372.81	63.85	65.75	29.22	1,002.13	2,833.74	129.84	51.70	78.14	1.662	
5,600.00	4,524.89	5,564.99	4,444.93	65.36	67.29	29.48	1,025.30	2,899.01	131.56	51.27	80.28	1.639	
5,700.00	4,597.84	5,664.97	4,517.04	66.88	68.84	29.75	1,048.47	2,964.27	133.28	50.84	82.44	1.617	
5,800.00	4,670.80	5,764.95	4,589.15	68.39	70.38	30.00	1,071.64	3,029.54	135.00	50.40	84.60	1.596	
5,900.00	4,743.76	5,864.94	4,661.27	69.90	71.93	30.25	1,094.81	3,094.80	136.73	49.96	86.77	1.576	
6,000.00	4,816.71	5,964.92	4,733.38	71.41	73.47	30.49	1,117.99	3,160.07	138.46	49.51	88.95	1.557	
6,100.00	4,889.67	6,064.90	4,805.49	72.93	75.01	30.72	1,141.16	3,225.33	140.19	49.06	91.13	1.538	
6,200.00	4,962.63	6,164.89	4,877.61	74.44	76.56	30.95	1,164.33	3,290.60	141.93	48.60	93.32	1.521	
6,300.00	5,035.59	6,264.87	4,949.72	75.95	78.10	31.18	1,187.50	3,355.86	143.66	48.14	95.52	1.504	
6,400.00	5,108.54	6,364.85	5,021.83	77.47	79.65	31.40	1,210.67	3,421.13	145.40	47.67	97.73	1.488	Level 3
6,500.00	5,181.50	6,464.84	5,093.94	78.98	81.19	31.61	1,233.84	3,486.39	147.14	47.20	99.94	1.472	Level 3
6,600.00	5,254.46	6,564.82	5,166.06	80.49	82.74	31.82	1,257.01	3,551.66	148.88	46.72	102.16	1.457	Level 3
6,700.00	5,327.41	6,664.80	5,238.17	82.01	84.28	32.02	1,280.18	3,616.92	150.63	46.24	104.38	1.443	Level 3
6,800.00	5,400.37	6,764.79	5,310.28	83.52	85.83	32.22	1,303.35	3,682.19	152.37	45.76	106.61	1.429	Level 3
6,900.00	5,473.33	6,864.77	5,382.40	85.04	87.38	32.42	1,326.53	3,747.45	154.12	45.27	108.85	1.416	Level 3
7,000.00	5,546.28	6,964.75	5,454.51	86.55	88.92	32.61	1,349.70	3,812.72	155.87	44.78	111.09	1.403	Level 3
7,100.00	5,619.24	7,064.74	5,526.62	88.06	90.47	32.79	1,372.87	3,877.98	157.62	44.29	113.33	1.391	Level 3
7,200.00	5,692.20	7,164.72	5,598.74	89.58	92.01	32.98	1,396.04	3,943.25	159.38	43.79	115.58	1.379	Level 3
7,300.00	5,765.15	7,264.70	5,670.85	91.09	93.56	33.15	1,419.21	4,008.51	161.13	43.29	117.84	1.367	Level 3
7,400.00	5,838.11	7,364.69	5,742.96	92.61	95.10	33.33	1,442.38	4,073.77	162.89	42.79	120.09	1.356	Level 3
7,500.00	5,911.07	7,464.67	5,815.07	94.12	96.65	33.50	1,465.55	4,139.04	164.64	42.29	122.36	1.346	Level 3
7,600.00	5,984.03	7,564.65	5,887.19	95.64	98.20	33.67	1,488.72	4,204.30	166.40	41.78	124.62	1.335	Level 3
7,700.00	6,056.98	7,664.64	5,959.30	97.15	99.74	33.83	1,511.89	4,269.57	168.16	41.27	126.89	1.325	Level 3
7,800.00	6,129.94	7,764.62	6,031.41	98.67	101.29	33.99	1,535.07	4,334.83	169.92	40.76	129.17	1.316	Level 3
7,900.00	6,202.90	7,864.60	6,103.53	100.18	102.83	34.15	1,558.24	4,400.10	171.69	40.24	131.45	1.306	Level 3
8,000.00	6,275.85	7,964.59	6,175.64	101.70	104.38	34.30	1,581.41	4,465.36	173.45	39.72	133.73	1.297	Level 3
8,100.00	6,348.81	8,064.57	6,247.75	103.21	105.93	34.45	1,604.58	4,530.63	175.22	39.20	136.01	1.288	Level 3
8,200.00	6,421.77	8,164.55	6,319.87	104.73	107.47	34.60	1,627.75	4,595.89	176.98	38.68	138.30	1.280	Level 3
8,300.00	6,494.72	8,264.54	6,391.98	106.24	109.02	34.74	1,650.92	4,661.16	178.75	38.16	140.59	1.271	Level 3
8,400.00	6,567.68	8,364.52	6,464.09	107.76	110.57	34.88	1,674.09	4,726.42	180.52	37.63	142.89	1.263	Level 3
8,500.00	6,640.64	8,464.50	6,536.20	109.27	112.11	35.02	1,697.26	4,791.69	182.29	37.10	145.19	1.256	Level 3
8,600.00	6,713.59	8,564.49	6,608.32	110.79	113.66	35.16	1,720.43	4,856.95	184.06	36.57	147.49	1.248	Level 2
8,700.00	6,786.55	8,664.47	6,680.43	112.30	115.21	35.29	1,743.61	4,922.22	185.83	36.04	149.79	1.241	Level 2
8,800.00	6,859.51	8,764.45	6,752.54	113.82	116.75	35.42	1,766.78	4,987.48	187.61	35.51	152.10	1.233	Level 2
8,900.00	6,932.46	8,864.44	6,824.66	115.33	118.30	35.55	1,789.95	5,052.75	189.38	34.98	154.41	1.227	Level 2
9,000.00	7,005.42	8,964.42	6,896.77	116.85	119.85	35.68	1,813.12	5,118.01	191.16	34.44	156.72	1.220	Level 2
9,104.89	7,081.95	9,069.30	6,972.41	118.44	121.47	35.81	1,837.42	5,186.47	193.02	33.88	159.14	1.213	Level 2, SF
9,150.00	7,115.15	9,114.37	7,004.92	119.12	122.17	30.62	1,847.87	5,215.89	193.21	34.27	158.94	1.216	Level 2
9,200.00	7,152.46	9,164.03	7,040.74	119.86	122.94	23.32	1,859.38	5,248.31	192.10	36.36	155.74	1.233	Level 2
9,250.00	7,190.04	9,213.02	7,076.07	120.57	123.69	14.57	1,870.73	5,280.28	189.96	40.71	149.26	1.273	Level 3
9,300.00	7,227.59	9,260.95	7,110.64	121.25	124.44	4.59	1,881.84	5,311.57	187.46	48.01	139.44	1.344	Level 3
9,350.00	7,264.83	9,307.47	7,144.20	121.89	125.16	-6.32	1,892.62	5,341.94	185.54	58.69	126.85	1.463	Level 3
9,378.09	7,285.51	9,332.85	7,162.50	122.22	125.55	-12.69	1,898.50	5,358.51	185.17	65.95	119.22	1.553	
9,400.00	7,301.48	9,352.23	7,176.47	122.48	125.85	-17.70	1,902.99	5,371.15	185.44	71.92	113.51	1.634	
9,450.00	7,337.26	9,395.00	7,207.33	123.01	126.51	-29.05	1,912.90	5,399.07	188.55	84.64	103.91	1.815	
9,500.00	7,371.90	9,439.92	7,240.03	123.49	127.20	-40.13	1,921.40	5,428.66	195.64	92.15	103.49	1.890	
9,550.00	7,405.13	9,487.14	7,274.83	123.91	127.91	-50.38	1,926.57	5,460.14	206.40	94.90	111.49	1.851	
9,600.00	7,436.70	9,537.11	7,311.87	124.27	128.64	-59.70	1,927.83	5,493.62	220.29	97.29	123.01	1.791	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	9,590.35	7,351.27	124.57	129.38	-68.07	1,924.37	5,529.24	236.68	102.88	133.79	1.769	
9,700.00	7,493.91	9,647.54	7,393.14	124.81	130.13	-75.54	1,915.19	5,567.05	254.85	113.45	141.40	1.802	
9,750.00	7,519.11	9,709.44	7,437.46	125.00	130.86	-82.16	1,898.96	5,607.06	274.12	129.55	144.57	1.896	
9,800.00	7,541.79	9,776.98	7,484.04	125.12	131.56	-88.00	1,874.04	5,649.08	293.77	151.16	142.62	2.060	
9,850.00	7,561.77	9,851.15	7,532.31	125.20	132.22	-93.08	1,838.38	5,692.59	313.09	177.95	135.14	2.317	
9,900.00	7,578.90	9,932.97	7,581.10	125.23	132.77	-97.45	1,789.69	5,736.53	331.29	209.33	121.96	2.716	
9,950.00	7,593.04	10,023.23	7,628.37	125.22	133.19	-101.08	1,725.76	5,779.05	347.55	243.96	103.59	3.355	
10,000.00	7,604.09	10,122.17	7,670.95	125.17	133.45	-103.93	1,645.19	5,817.26	361.00	278.51	82.50	4.376	
10,050.00	7,611.97	10,229.04	7,704.68	125.08	133.51	-105.95	1,548.54	5,847.43	370.80	304.36	66.44	5.581	
10,100.00	7,616.61	10,341.74	7,725.22	124.97	133.38	-107.06	1,439.41	5,865.62	376.21	306.56	69.65	5.402	
10,145.95	7,618.00	10,436.38	7,730.00	124.84	133.16	-107.28	1,345.08	5,869.63	377.05	290.89	86.16	4.376	
10,200.00	7,618.00	10,490.43	7,730.00	124.69	133.01	-107.28	1,291.04	5,869.44	377.05	291.68	85.37	4.417	
10,300.00	7,618.00	10,609.57	7,730.00	124.41	132.69	-107.28	1,191.04	5,869.11	377.05	293.18	83.88	4.495	
10,400.00	7,618.00	10,690.43	7,730.00	124.14	132.49	-107.28	1,091.04	5,868.77	377.05	294.31	82.74	4.557	
10,500.00	7,618.00	10,809.57	7,730.00	123.88	132.20	-107.28	991.04	5,868.43	377.05	295.54	81.51	4.626	
10,600.00	7,618.00	10,909.57	7,730.00	123.63	131.97	-107.28	891.04	5,868.09	377.05	296.53	80.52	4.683	
10,700.00	7,618.00	11,009.57	7,730.00	123.40	131.75	-107.28	791.04	5,867.75	377.05	297.39	79.66	4.733	
10,800.00	7,618.00	11,090.43	7,730.00	123.18	131.58	-107.28	691.04	5,867.41	377.05	298.05	79.00	4.773	
10,900.00	7,618.00	11,209.57	7,730.00	122.96	131.34	-107.28	591.04	5,867.08	377.05	298.69	78.36	4.812	
11,000.00	7,618.00	11,309.57	7,730.00	122.76	131.15	-107.28	491.04	5,866.74	377.04	299.12	77.92	4.839	
11,100.00	7,618.00	11,409.57	7,730.00	122.57	130.97	-107.28	391.04	5,866.40	377.04	299.41	77.63	4.857	
11,200.00	7,618.00	11,509.57	7,730.00	122.39	130.80	-107.28	291.04	5,866.06	377.04	299.55	77.49	4.865	
11,300.00	7,618.00	11,609.57	7,730.00	122.23	130.64	-107.28	191.04	5,865.72	377.04	299.54	77.51	4.865	
11,400.00	7,618.00	11,709.57	7,730.00	122.07	130.49	-107.28	91.04	5,865.39	377.04	299.37	77.67	4.855	
11,500.00	7,618.00	11,809.57	7,730.00	121.93	130.36	-107.28	-8.96	5,865.05	377.04	299.06	77.97	4.835	
11,600.00	7,618.00	11,909.57	7,730.00	121.79	130.23	-107.28	-108.96	5,864.71	377.04	298.61	78.43	4.807	
11,700.00	7,618.00	12,009.57	7,730.00	121.67	130.12	-107.28	-208.96	5,864.37	377.04	298.01	79.03	4.771	
11,800.00	7,618.00	12,109.57	7,730.00	121.56	130.01	-107.28	-308.95	5,864.03	377.04	297.26	79.77	4.727	
11,900.00	7,618.00	12,209.57	7,730.00	121.46	129.92	-107.28	-408.95	5,863.70	377.03	296.39	80.65	4.675	
12,000.00	7,618.00	12,309.57	7,730.00	121.38	129.84	-107.28	-508.95	5,863.36	377.03	295.37	81.66	4.617	
12,100.00	7,618.00	12,409.57	7,730.00	121.30	129.77	-107.28	-608.95	5,863.02	377.03	294.23	82.80	4.554	
12,200.00	7,618.00	12,509.57	7,730.00	121.24	129.71	-107.28	-708.95	5,862.68	377.03	292.97	84.06	4.485	
12,300.00	7,618.00	12,609.57	7,730.00	121.19	129.66	-107.28	-808.95	5,862.34	377.03	291.59	85.44	4.413	
12,400.00	7,618.00	12,709.57	7,730.00	121.16	129.62	-107.28	-908.95	5,862.01	377.03	290.10	86.93	4.337	
12,500.00	7,618.00	12,809.57	7,730.00	121.14	129.60	-107.28	-1,008.95	5,861.67	377.03	288.50	88.53	4.259	
12,600.00	7,618.00	12,909.57	7,730.00	121.13	129.59	-107.28	-1,108.95	5,861.33	377.03	286.80	90.22	4.179	
12,700.00	7,618.00	13,009.57	7,730.00	121.13	129.59	-107.28	-1,208.95	5,860.99	377.03	285.01	92.01	4.097	
12,800.00	7,618.00	13,109.57	7,730.00	121.15	129.60	-107.28	-1,308.95	5,860.65	377.02	283.13	93.90	4.015	
12,900.00	7,618.00	13,209.57	7,730.00	121.18	129.63	-107.28	-1,408.95	5,860.32	377.02	281.16	95.86	3.933	
13,000.00	7,618.00	13,309.57	7,730.00	121.23	129.67	-107.28	-1,508.95	5,859.98	377.02	279.12	97.91	3.851	
13,100.00	7,618.00	13,409.57	7,730.00	121.29	129.72	-107.28	-1,608.95	5,859.64	377.02	277.00	100.02	3.769	
13,200.00	7,618.00	13,509.57	7,730.00	121.37	129.79	-107.28	-1,708.95	5,859.30	377.02	274.81	102.21	3.689	
13,300.00	7,618.00	13,609.57	7,730.00	121.46	129.87	-107.28	-1,808.95	5,858.96	377.02	272.55	104.47	3.609	
13,400.00	7,618.00	13,709.57	7,730.00	121.57	129.97	-107.28	-1,908.95	5,858.63	377.02	270.24	106.78	3.531	
13,500.00	7,618.00	13,809.57	7,730.00	121.70	130.08	-107.28	-2,008.95	5,858.29	377.02	267.86	109.15	3.454	
13,600.00	7,618.00	13,909.57	7,730.00	121.84	130.21	-107.28	-2,108.94	5,857.95	377.02	265.44	111.58	3.379	
13,700.00	7,618.00	13,990.43	7,730.00	122.01	130.32	-107.28	-2,208.94	5,857.61	377.01	263.20	113.82	3.312	
13,800.00	7,618.00	14,109.57	7,730.00	122.19	130.51	-107.28	-2,308.94	5,857.27	377.01	260.44	116.58	3.234	
13,900.00	7,618.00	14,209.57	7,730.00	122.39	130.69	-107.28	-2,408.94	5,856.93	377.01	257.87	119.14	3.164	
14,000.00	7,618.00	14,309.57	7,730.00	122.62	130.88	-107.28	-2,508.94	5,856.60	377.01	255.26	121.75	3.097	
14,100.00	7,618.00	14,409.57	7,730.00	122.86	131.09	-107.28	-2,608.94	5,856.26	377.01	252.61	124.40	3.031	
14,200.00	7,618.00	14,509.57	7,730.00	123.12	131.32	-107.28	-2,708.94	5,855.92	377.01	249.93	127.08	2.967	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	14,609.57	7,730.00	123.41	131.58	-107.28	-2,808.94	5,855.58	377.01	247.21	129.80	2.905	
14,400.00	7,618.00	14,709.57	7,730.00	123.72	131.85	-107.28	-2,908.94	5,855.24	377.01	244.46	132.54	2.844	
14,500.00	7,618.00	14,809.57	7,730.00	124.06	132.14	-107.28	-3,008.94	5,854.91	377.01	241.68	135.32	2.786	
14,600.00	7,618.00	14,909.57	7,730.00	124.42	132.45	-107.28	-3,108.94	5,854.57	377.00	238.87	138.13	2.729	
14,700.00	7,618.00	15,009.57	7,730.00	124.80	132.78	-107.28	-3,208.94	5,854.23	377.00	236.04	140.96	2.674	
14,800.00	7,618.00	15,109.57	7,730.00	125.21	133.14	-107.28	-3,308.94	5,853.89	377.00	233.18	143.82	2.621	
14,900.00	7,618.00	15,190.43	7,730.00	125.65	133.44	-107.28	-3,408.94	5,853.55	377.00	230.57	146.43	2.575	
15,000.00	7,618.00	15,309.57	7,730.00	126.11	133.92	-107.28	-3,508.94	5,853.22	377.00	227.39	149.60	2.520	
15,100.00	7,618.00	15,409.57	7,730.00	126.61	134.35	-107.28	-3,608.94	5,852.88	377.00	224.47	152.53	2.472	
15,200.00	7,618.00	15,509.57	7,730.00	127.13	134.80	-107.28	-3,708.94	5,852.54	377.00	221.52	155.47	2.425	
15,300.00	7,618.00	15,609.57	7,730.00	127.68	135.28	-107.28	-3,808.93	5,852.20	377.00	218.56	158.43	2.380	
15,400.00	7,618.00	15,709.57	7,730.00	128.26	135.78	-107.28	-3,908.93	5,851.86	376.99	215.58	161.41	2.336	
15,500.00	7,618.00	15,809.57	7,730.00	128.87	136.31	-107.28	-4,008.93	5,851.53	376.99	212.58	164.41	2.293	
15,600.00	7,618.00	15,909.57	7,730.00	129.51	136.86	-107.28	-4,108.93	5,851.19	376.99	209.57	167.42	2.252	
15,700.00	7,618.00	16,009.57	7,730.00	130.18	137.45	-107.28	-4,208.93	5,850.85	376.99	206.54	170.45	2.212	
15,800.00	7,618.00	16,109.57	7,730.00	130.88	138.06	-107.28	-4,308.93	5,850.51	376.99	203.50	173.49	2.173	
15,900.00	7,618.00	16,209.57	7,730.00	131.61	138.69	-107.28	-4,408.93	5,850.17	376.99	200.44	176.55	2.135	
16,000.00	7,618.00	16,309.57	7,730.00	132.37	139.36	-107.28	-4,508.93	5,849.84	376.99	197.38	179.61	2.099	
16,100.00	7,618.00	16,409.57	7,730.00	133.17	140.05	-107.28	-4,608.93	5,849.50	376.99	194.30	182.69	2.064	
16,200.00	7,618.00	16,509.57	7,730.00	133.99	140.77	-107.28	-4,708.93	5,849.16	376.99	191.20	185.78	2.029	
16,300.00	7,618.00	16,609.57	7,730.00	134.84	141.52	-107.28	-4,808.93	5,848.82	376.98	188.10	188.88	1.996	
16,400.00	7,618.00	16,709.57	7,730.00	135.72	142.30	-107.28	-4,908.93	5,848.48	376.98	184.99	191.99	1.964	
16,500.00	7,618.00	16,809.57	7,730.00	136.63	143.10	-107.28	-5,008.93	5,848.15	376.98	181.87	195.12	1.932	
16,600.00	7,618.00	16,909.57	7,730.00	137.57	143.94	-107.28	-5,108.93	5,847.81	376.98	178.74	198.25	1.902	
16,700.00	7,618.00	17,009.57	7,730.00	138.54	144.80	-107.28	-5,208.93	5,847.47	376.98	175.59	201.39	1.872	
16,800.00	7,618.00	17,109.57	7,730.00	139.53	145.68	-107.28	-5,308.93	5,847.13	376.98	172.44	204.53	1.843	
16,900.00	7,618.00	17,209.57	7,730.00	140.55	146.59	-107.28	-5,408.93	5,846.79	376.98	169.29	207.69	1.815	
17,000.00	7,618.00	17,309.57	7,730.00	141.60	147.53	-107.28	-5,508.93	5,846.45	376.98	166.12	210.86	1.788	
17,100.00	7,618.00	17,409.57	7,730.00	142.67	148.50	-107.28	-5,608.92	5,846.12	376.98	162.95	214.03	1.761	
17,200.00	7,618.00	17,509.57	7,730.00	143.77	149.49	-107.28	-5,708.92	5,845.78	376.97	159.77	217.21	1.736	
17,300.00	7,618.00	17,609.57	7,730.00	144.88	150.50	-107.28	-5,808.92	5,845.44	376.97	156.58	220.39	1.710	
17,400.00	7,618.00	17,709.57	7,730.00	146.02	151.54	-107.28	-5,908.92	5,845.10	376.97	153.39	223.58	1.686	
17,500.00	7,618.00	17,809.57	7,730.00	147.19	152.60	-107.28	-6,008.92	5,844.76	376.97	150.19	226.78	1.662	
17,600.00	7,618.00	17,890.43	7,730.00	148.37	153.47	-107.28	-6,108.92	5,844.43	376.97	147.29	229.68	1.641	
17,700.00	7,618.00	18,009.57	7,730.00	149.57	154.79	-107.28	-6,208.92	5,844.09	376.97	143.77	233.20	1.617	
17,800.00	7,618.00	18,109.57	7,730.00	150.79	155.91	-107.28	-6,308.92	5,843.75	376.97	140.56	236.41	1.595	
17,900.00	7,618.00	18,209.57	7,730.00	152.03	157.06	-107.28	-6,408.92	5,843.41	376.97	137.34	239.63	1.573	
18,000.00	7,618.00	18,309.57	7,730.00	153.29	158.22	-107.28	-6,508.92	5,843.07	376.97	134.11	242.86	1.552	
18,100.00	7,618.00	18,409.57	7,730.00	154.57	159.41	-107.28	-6,608.92	5,842.74	376.96	130.88	246.09	1.532	
18,200.00	7,618.00	18,509.57	7,730.00	155.86	160.61	-107.28	-6,708.92	5,842.40	376.96	127.64	249.32	1.512	
18,300.00	7,618.00	18,609.57	7,730.00	157.17	161.84	-107.28	-6,808.92	5,842.06	376.96	124.40	252.56	1.493	Level 3
18,400.00	7,618.00	18,709.57	7,730.00	158.49	163.07	-107.28	-6,908.92	5,841.72	376.96	121.15	255.81	1.474	Level 3
18,500.00	7,618.00	18,790.43	7,730.00	159.82	164.09	-107.28	-7,008.92	5,841.38	376.96	118.22	258.74	1.457	Level 3
18,600.00	7,618.00	18,909.57	7,730.00	161.17	165.60	-107.28	-7,108.92	5,841.05	376.96	114.65	262.31	1.437	Level 3
18,700.00	7,618.00	19,009.57	7,730.00	162.54	166.89	-107.28	-7,208.92	5,840.71	376.96	111.39	265.56	1.419	Level 3
18,800.00	7,618.00	19,090.43	7,730.00	163.91	167.94	-107.28	-7,308.91	5,840.37	376.96	108.44	268.51	1.404	Level 3
18,900.00	7,618.00	19,190.43	7,730.00	165.30	169.25	-107.28	-7,408.91	5,840.03	376.96	105.18	271.78	1.387	Level 3
19,000.00	7,618.00	19,309.57	7,730.00	166.70	170.83	-107.28	-7,508.91	5,839.69	376.95	101.60	275.35	1.369	Level 3
19,100.00	7,618.00	19,409.57	7,730.00	168.10	172.17	-107.28	-7,608.91	5,839.36	376.95	98.33	278.62	1.353	Level 3
19,200.00	7,618.00	19,509.57	7,730.00	169.52	173.53	-107.28	-7,708.91	5,839.02	376.95	95.05	281.90	1.337	Level 3
19,300.00	7,618.00	19,590.43	7,730.00	170.95	174.63	-107.28	-7,808.91	5,838.68	376.95	92.09	284.86	1.323	Level 3
19,400.00	7,618.00	19,709.57	7,730.00	172.39	176.27	-107.28	-7,908.91	5,838.34	376.95	88.50	288.45	1.307	Level 3

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

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

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

Reference		Offset		Semi Major Axis			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
19,500.00	7,618.00	19,809.57	7,730.00	173.84	177.66	-107.28	-8,008.91	5,838.00	376.95	85.21	291.74	1.292	Level 3
19,600.00	7,618.00	19,909.57	7,730.00	175.30	179.06	-107.28	-8,108.91	5,837.67	376.95	81.93	295.02	1.278	Level 3
19,700.00	7,618.00	20,009.57	7,730.00	176.76	180.47	-107.28	-8,208.91	5,837.33	376.95	78.64	298.31	1.264	Level 3
19,800.00	7,618.00	20,090.43	7,730.00	178.24	181.61	-107.28	-8,308.91	5,836.99	376.95	75.66	301.29	1.251	Level 3
19,896.19	7,618.00	20,186.62	7,730.00	179.66	182.98	-107.29	-8,405.10	5,836.66	376.94	72.49	304.45	1.238	Level 2

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	2.00	2.00	0.00	0.00	-89.65	0.73	-120.12	120.12				
100.00	100.00	102.00	102.00	0.13	0.14	-89.65	0.73	-120.12	120.12	119.85	0.28	435.193	
200.00	200.00	202.00	202.00	0.49	0.50	-89.65	0.73	-120.12	120.12	119.13	0.99	120.974	CC, ES
300.00	299.98	301.98	301.98	0.85	0.86	-159.25	0.73	-120.12	121.75	120.05	1.71	71.344	
400.00	399.84	401.84	401.84	1.21	1.22	-160.06	0.73	-120.12	126.66	124.24	2.42	52.244	
500.00	499.45	501.45	501.45	1.58	1.57	-161.27	0.73	-120.12	134.89	131.74	3.15	42.876	
600.00	598.70	600.70	600.70	1.97	1.93	-162.73	0.73	-120.12	146.49	142.62	3.87	37.851	
700.00	697.47	700.53	699.47	2.38	2.29	-164.29	0.73	-120.12	161.50	156.90	4.60	35.110	
800.00	795.62	802.38	797.62	2.83	2.65	-165.84	0.73	-120.12	179.96	174.62	5.34	33.699	
900.00	893.06	904.94	895.06	3.31	3.02	-167.30	0.73	-120.12	201.87	195.79	6.09	33.165	
1,000.00	989.64	1,008.36	991.64	3.83	3.39	-168.63	0.73	-120.12	227.23	220.39	6.84	33.220	
1,100.00	1,085.27	1,087.27	1,087.27	4.40	3.67	-169.82	0.73	-120.12	255.99	248.48	7.51	34.091	
1,200.00	1,179.82	1,181.82	1,181.82	5.02	4.01	-170.85	0.73	-120.12	288.13	279.89	8.24	34.977	
1,300.00	1,273.17	1,275.17	1,275.17	5.70	4.35	-171.75	0.73	-120.12	323.61	314.64	8.97	36.094	
1,400.00	1,365.21	1,367.21	1,367.21	6.43	4.68	-172.53	0.73	-120.12	362.37	352.68	9.69	37.385	
1,500.00	1,455.84	1,465.11	1,465.10	7.23	5.03	-173.19	1.31	-119.67	403.84	393.39	10.45	38.630	
1,600.00	1,544.94	1,567.79	1,567.70	8.09	5.39	-173.50	4.61	-117.11	446.09	434.85	11.24	39.672	
1,700.00	1,632.39	1,671.65	1,671.24	9.01	5.76	-173.51	10.90	-112.23	488.90	476.86	12.05	40.580	
1,800.00	1,718.11	1,776.66	1,775.58	10.00	6.14	-173.28	20.26	-104.96	532.22	519.36	12.87	41.363	
1,900.00	1,801.97	1,882.82	1,880.54	11.07	6.54	-172.85	32.80	-95.24	576.03	562.33	13.70	42.031	
2,000.00	1,883.88	1,990.12	1,985.96	12.20	6.95	-172.26	48.58	-82.99	620.32	605.75	14.57	42.586	
2,100.00	1,963.74	2,098.55	2,091.65	13.41	7.39	-171.54	67.68	-68.17	665.08	649.62	15.46	43.027	
2,200.00	2,041.45	2,208.08	2,197.41	14.69	7.86	-170.70	90.18	-50.72	710.30	693.92	16.38	43.351	
2,300.00	2,116.92	2,318.71	2,303.05	16.05	8.37	-169.75	116.12	-30.59	756.00	738.64	17.36	43.545	
2,357.48	2,159.25	2,382.80	2,363.64	16.86	8.69	-169.17	132.62	-17.79	782.48	764.53	17.95	43.598	
2,400.00	2,190.27	2,430.60	2,408.52	17.47	8.94	-168.80	145.62	-7.70	801.89	783.50	18.39	43.594	
2,500.00	2,263.22	2,545.07	2,514.82	18.92	9.56	-167.85	179.14	18.30	845.70	826.20	19.50	43.371	
2,600.00	2,336.18	2,662.17	2,621.73	20.37	10.26	-166.77	216.87	47.58	886.88	866.19	20.69	42.855	
2,700.00	2,409.14	2,752.66	2,703.60	21.84	10.84	-165.94	247.33	71.21	926.87	905.05	21.82	42.476	
2,800.00	2,482.09	2,843.51	2,785.79	23.31	11.44	-165.18	277.91	94.93	967.01	944.03	22.98	42.079	
2,900.00	2,555.05	2,934.35	2,867.98	24.78	12.05	-164.48	308.48	118.66	1,007.28	983.11	24.17	41.675	
3,000.00	2,628.01	3,025.20	2,950.17	26.27	12.68	-163.82	339.06	142.38	1,047.68	1,022.29	25.39	41.268	
3,100.00	2,700.96	3,116.04	3,032.36	27.75	13.32	-163.22	369.63	166.10	1,088.18	1,061.55	26.63	40.866	
3,200.00	2,773.92	3,206.88	3,114.55	29.24	13.97	-162.66	400.21	189.83	1,128.77	1,100.88	27.89	40.470	
3,300.00	2,846.88	3,302.27	3,196.74	30.73	14.66	-162.14	430.78	213.55	1,169.45	1,140.25	29.20	40.047	
3,400.00	2,919.83	3,388.57	3,278.93	32.23	15.29	-161.65	461.36	237.27	1,210.21	1,179.73	30.48	39.709	
3,500.00	2,992.79	3,479.42	3,361.12	33.72	15.97	-161.20	491.93	260.99	1,251.04	1,219.24	31.80	39.346	
3,600.00	3,065.75	3,570.26	3,443.31	35.22	16.65	-160.77	522.51	284.72	1,291.93	1,258.80	33.13	38.997	
3,700.00	3,138.71	3,661.11	3,525.50	36.72	17.33	-160.37	553.08	308.44	1,332.87	1,298.40	34.47	38.662	
3,800.00	3,211.66	3,751.95	3,607.68	38.22	18.02	-159.99	583.66	332.16	1,373.87	1,338.03	35.83	38.341	
3,900.00	3,284.62	3,842.79	3,689.87	39.72	18.71	-159.64	614.24	355.88	1,414.91	1,377.71	37.20	38.032	
4,000.00	3,357.58	3,933.64	3,772.06	41.22	19.41	-159.30	644.81	379.61	1,456.00	1,417.41	38.58	37.737	
4,100.00	3,430.53	4,024.48	3,854.25	42.73	20.11	-158.98	675.39	403.33	1,497.12	1,457.15	39.97	37.455	
4,200.00	3,503.49	4,115.33	3,936.44	44.23	20.81	-158.68	705.96	427.05	1,538.28	1,496.92	41.37	37.184	
4,300.00	3,576.45	4,206.17	4,018.63	45.74	21.52	-158.40	736.54	450.77	1,579.48	1,536.71	42.77	36.926	
4,400.00	3,649.40	4,297.02	4,100.82	47.25	22.22	-158.13	767.11	474.50	1,620.71	1,576.52	44.19	36.678	
4,500.00	3,722.36	4,387.86	4,183.01	48.75	22.93	-157.87	797.69	498.22	1,661.96	1,616.36	45.61	36.442	
4,600.00	3,795.32	4,478.71	4,265.20	50.26	23.64	-157.62	828.26	521.94	1,703.24	1,656.21	47.03	36.215	
4,700.00	3,868.27	4,569.55	4,347.39	51.77	24.36	-157.39	858.84	545.66	1,744.55	1,696.09	48.46	35.998	
4,800.00	3,941.23	4,660.39	4,429.58	53.28	25.07	-157.17	889.41	569.39	1,785.88	1,735.98	49.90	35.790	
4,900.00	4,014.19	4,751.24	4,511.77	54.79	25.79	-156.96	919.99	593.11	1,827.23	1,775.89	51.34	35.591	
5,000.00	4,087.15	4,842.08	4,593.96	56.30	26.51	-156.75	950.56	616.83	1,868.60	1,815.82	52.79	35.400	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	4,932.93	4,676.15	57.81	27.23	-156.56	981.14	640.55	1,909.99	1,855.76	54.24	35.217	
5,200.00	4,233.06	5,023.77	4,758.34	59.32	27.95	-156.37	1,011.71	664.28	1,951.40	1,895.71	55.69	35.041	
5,300.00	4,306.02	5,114.62	4,840.52	60.83	28.67	-156.19	1,042.29	688.00	1,992.83	1,935.68	57.15	34.872	
5,400.00	4,378.97	5,205.46	4,922.71	62.34	29.39	-156.02	1,072.86	711.72	2,034.26	1,975.66	58.61	34.710	
5,500.00	4,451.93	5,303.70	5,004.90	63.85	30.17	-155.86	1,103.44	735.44	2,075.72	2,015.60	60.12	34.525	
5,600.00	4,524.89	5,387.15	5,087.09	65.36	30.84	-155.70	1,134.01	759.17	2,117.19	2,055.65	61.54	34.404	
5,700.00	4,597.84	5,477.99	5,169.28	66.88	31.57	-155.55	1,164.59	782.89	2,158.67	2,095.66	63.01	34.260	
5,800.00	4,670.80	5,568.84	5,251.47	68.39	32.29	-155.40	1,195.17	806.61	2,200.16	2,135.68	64.48	34.121	
5,900.00	4,743.76	5,659.68	5,333.66	69.90	33.02	-155.26	1,225.74	830.33	2,241.66	2,175.71	65.96	33.987	
6,000.00	4,816.71	5,750.53	5,415.85	71.41	33.75	-155.13	1,256.32	854.06	2,283.18	2,215.74	67.43	33.858	
6,100.00	4,889.67	5,841.37	5,498.04	72.93	34.47	-154.99	1,286.89	877.78	2,324.70	2,255.79	68.91	33.734	
6,200.00	4,962.63	5,932.21	5,580.23	74.44	35.20	-154.87	1,317.47	901.50	2,366.24	2,295.84	70.40	33.614	
6,300.00	5,035.59	6,023.06	5,662.42	75.95	35.93	-154.75	1,348.04	925.22	2,407.78	2,335.90	71.88	33.498	
6,400.00	5,108.54	6,113.90	5,744.61	77.47	36.66	-154.63	1,378.62	948.95	2,449.33	2,375.97	73.36	33.386	
6,500.00	5,181.50	6,204.75	5,826.80	78.98	37.39	-154.51	1,409.19	972.67	2,490.89	2,416.04	74.85	33.278	
6,600.00	5,254.46	6,295.59	5,908.99	80.49	38.12	-154.40	1,439.77	996.39	2,532.46	2,456.12	76.34	33.173	
6,700.00	5,327.41	6,386.44	5,991.18	82.01	38.85	-154.30	1,470.34	1,020.12	2,574.04	2,496.21	77.83	33.072	
6,800.00	5,400.37	6,477.28	6,073.36	83.52	39.58	-154.19	1,500.92	1,043.84	2,615.62	2,536.30	79.32	32.974	
6,900.00	5,473.33	6,568.12	6,155.55	85.04	40.32	-154.09	1,531.49	1,067.56	2,657.21	2,576.40	80.82	32.879	
7,000.00	5,546.28	6,658.97	6,237.74	86.55	41.05	-154.00	1,562.07	1,091.28	2,698.81	2,616.50	82.31	32.787	
7,100.00	5,619.24	6,749.81	6,319.93	88.06	41.78	-153.90	1,592.64	1,115.01	2,740.41	2,656.60	83.81	32.698	
7,200.00	5,692.20	6,840.66	6,402.12	89.58	42.51	-153.81	1,623.22	1,138.73	2,782.02	2,696.71	85.31	32.612	
7,300.00	5,765.15	6,931.50	6,484.31	91.09	43.25	-153.72	1,653.79	1,162.45	2,823.64	2,736.83	86.81	32.528	
7,400.00	5,838.11	7,022.35	6,566.50	92.61	43.98	-153.64	1,684.37	1,186.17	2,865.26	2,776.95	88.31	32.447	
7,500.00	5,911.07	7,113.19	6,648.69	94.12	44.71	-153.55	1,714.94	1,209.90	2,906.88	2,817.07	89.81	32.368	
7,600.00	5,984.03	7,204.04	6,730.88	95.64	45.45	-153.47	1,745.52	1,233.62	2,948.51	2,857.20	91.31	32.291	
7,700.00	6,056.98	7,294.88	6,813.07	97.15	46.18	-153.39	1,776.10	1,257.34	2,990.15	2,897.33	92.81	32.217	
7,800.00	6,129.94	7,386.94	6,896.36	98.67	46.93	-153.32	1,807.07	1,281.38	3,031.79	2,937.45	94.33	32.139	
7,900.00	6,202.90	7,534.36	7,034.55	100.18	47.91	-153.60	1,837.59	1,321.20	3,072.55	2,976.60	95.94	32.026	
8,000.00	6,275.85	7,668.78	7,163.36	101.70	48.41	-154.48	1,832.65	1,358.20	3,111.91	3,015.69	96.22	32.341	
8,100.00	6,348.81	7,779.99	7,266.76	103.21	48.56	-155.62	1,805.05	1,387.82	3,150.71	3,055.02	95.70	32.924	
8,200.00	6,421.77	7,867.33	7,343.21	104.73	48.52	-156.73	1,769.12	1,409.67	3,189.86	3,094.97	94.89	33.617	
8,300.00	6,494.72	7,934.82	7,398.18	106.24	48.40	-157.71	1,733.32	1,425.34	3,230.06	3,135.99	94.07	34.337	
8,400.00	6,567.68	7,987.18	7,437.82	107.76	48.27	-158.52	1,701.06	1,436.62	3,271.77	3,178.44	93.33	35.056	
8,500.00	6,640.64	8,028.35	7,466.90	109.27	48.14	-159.20	1,673.13	1,444.89	3,315.25	3,222.57	92.68	35.769	
8,600.00	6,713.59	8,061.26	7,488.72	110.79	48.02	-159.75	1,649.29	1,451.08	3,360.65	3,268.54	92.12	36.482	
8,700.00	6,786.55	8,087.99	7,505.46	112.30	47.92	-160.21	1,628.98	1,455.82	3,408.03	3,316.42	91.61	37.202	
8,800.00	6,859.51	8,110.06	7,518.57	113.82	47.83	-160.60	1,611.63	1,459.53	3,457.39	3,366.25	91.14	37.935	
8,900.00	6,932.46	8,128.53	7,529.05	115.33	47.74	-160.93	1,596.71	1,462.49	3,508.71	3,418.01	90.69	38.687	
9,000.00	7,005.42	8,150.00	7,540.64	116.85	47.65	-161.31	1,578.94	1,465.76	3,561.96	3,471.81	90.15	39.511	
9,104.89	7,081.95	8,150.00	7,540.64	118.44	47.65	-161.31	1,578.94	1,465.76	3,619.83	3,529.83	90.00	40.220	
9,150.00	7,115.15	8,164.38	7,548.04	119.12	47.58	-169.44	1,566.78	1,467.84	3,645.35	3,555.70	89.64	40.664	
9,200.00	7,152.46	8,172.47	7,552.07	119.86	47.54	-178.63	1,559.87	1,468.98	3,674.05	3,584.61	89.44	41.079	
9,250.00	7,190.04	8,181.73	7,556.58	120.57	47.49	172.01	1,551.87	1,470.25	3,702.91	3,613.68	89.23	41.497	
9,300.00	7,227.59	8,200.00	7,565.09	121.25	47.40	162.59	1,535.89	1,472.64	3,731.72	3,642.86	88.87	41.993	
9,350.00	7,264.83	8,200.00	7,565.09	121.89	47.40	153.70	1,535.89	1,472.64	3,760.18	3,671.27	88.90	42.295	
9,400.00	7,301.48	8,215.34	7,571.86	122.48	47.32	145.06	1,522.26	1,474.54	3,788.10	3,699.45	88.64	42.734	
9,450.00	7,337.26	8,228.14	7,577.24	123.01	47.26	137.03	1,510.74	1,476.04	3,815.25	3,726.79	88.46	43.128	
9,500.00	7,371.90	8,250.00	7,585.85	123.49	47.14	129.60	1,490.79	1,478.45	3,841.44	3,753.33	88.11	43.596	
9,550.00	7,405.13	8,250.00	7,585.85	123.91	47.14	123.08	1,490.79	1,478.45	3,866.41	3,778.15	88.26	43.806	
9,600.00	7,436.70	8,270.20	7,593.15	124.27	47.03	117.10	1,472.07	1,480.49	3,890.01	3,802.00	88.01	44.202	
9,650.00	7,466.36	8,285.22	7,598.16	124.57	46.95	111.86	1,457.98	1,481.88	3,912.06	3,824.17	87.89	44.509	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,700.00	7,493.91	8,300.00	7,602.75	124.81	46.86	107.30	1,443.99	1,483.15	3,932.41	3,844.59	87.82	44.778	
9,750.00	7,519.11	8,316.44	7,607.44	125.00	46.77	103.35	1,428.28	1,484.45	3,950.90	3,863.15	87.75	45.025	
9,800.00	7,541.79	8,332.54	7,611.62	125.12	46.68	99.99	1,412.78	1,485.59	3,967.40	3,879.67	87.72	45.226	
9,850.00	7,561.77	8,350.00	7,615.67	125.20	46.58	97.18	1,395.83	1,486.70	3,981.79	3,894.08	87.71	45.397	
9,900.00	7,578.90	8,365.48	7,618.84	125.23	46.48	94.88	1,380.71	1,487.56	3,993.99	3,906.20	87.79	45.496	
9,950.00	7,593.04	8,382.24	7,621.84	125.22	46.39	93.06	1,364.24	1,488.37	4,003.90	3,916.02	87.88	45.561	
10,000.00	7,604.09	8,400.00	7,624.51	125.17	46.28	91.69	1,346.69	1,489.07	4,011.45	3,923.46	87.99	45.588	
10,050.00	7,611.97	8,416.13	7,626.47	125.08	46.18	90.75	1,330.69	1,489.58	4,016.61	3,928.41	88.20	45.541	
10,100.00	7,616.61	8,433.18	7,628.08	124.97	46.08	90.24	1,313.73	1,489.99	4,019.32	3,930.90	88.43	45.455	
10,145.95	7,618.00	8,450.00	7,629.19	124.84	45.98	90.13	1,296.94	1,490.25	4,019.66	3,931.01	88.64	45.346	
10,200.00	7,618.00	8,467.34	7,629.84	124.69	45.88	90.14	1,279.62	1,490.38	4,019.06	3,930.07	88.99	45.163	
10,239.59	7,618.00	8,481.32	7,630.00	124.57	45.79	90.14	1,266.27	1,490.38	4,018.93	3,929.70	89.23	45.039	
10,300.00	7,618.00	8,541.10	7,630.00	124.41	45.44	90.14	1,205.86	1,490.17	4,018.93	3,930.33	88.61	45.355	
10,400.00	7,618.00	8,641.10	7,630.00	124.14	44.88	90.14	1,105.86	1,489.84	4,018.94	3,931.26	87.68	45.837	
10,500.00	7,618.00	8,741.10	7,630.00	123.88	44.35	90.14	1,005.86	1,489.50	4,018.94	3,932.06	86.88	46.257	
10,600.00	7,618.00	8,841.10	7,630.00	123.63	43.85	90.14	905.86	1,489.16	4,018.94	3,932.71	86.23	46.608	
10,700.00	7,618.00	8,941.10	7,630.00	123.40	43.39	90.14	805.86	1,488.82	4,018.94	3,933.22	85.72	46.885	
10,800.00	7,618.00	9,041.10	7,630.00	123.18	42.95	90.14	705.86	1,488.48	4,018.94	3,933.59	85.35	47.085	
10,900.00	7,618.00	9,141.10	7,630.00	122.96	42.54	90.14	605.86	1,488.14	4,018.95	3,933.81	85.14	47.204	
11,000.00	7,618.00	9,241.10	7,630.00	122.76	42.15	90.14	505.87	1,487.80	4,018.95	3,933.87	85.07	47.241	
11,100.00	7,618.00	9,341.10	7,630.00	122.57	41.79	90.14	405.87	1,487.47	4,018.95	3,933.79	85.16	47.195	
11,200.00	7,618.00	9,441.10	7,630.00	122.39	41.45	90.14	305.87	1,487.13	4,018.95	3,933.56	85.39	47.067	
11,300.00	7,618.00	9,541.10	7,630.00	122.23	41.14	90.14	205.87	1,486.79	4,018.95	3,933.18	85.77	46.858	
11,400.00	7,618.00	9,641.10	7,630.00	122.07	40.84	90.14	105.87	1,486.45	4,018.95	3,932.66	86.29	46.574	
11,500.00	7,618.00	9,741.10	7,630.00	121.93	40.56	90.14	5.87	1,486.11	4,018.96	3,932.00	86.96	46.216	
11,600.00	7,618.00	9,841.10	7,630.00	121.79	40.31	90.14	-94.13	1,485.77	4,018.96	3,931.19	87.76	45.792	
11,700.00	7,618.00	9,941.10	7,630.00	121.67	40.07	90.14	-194.13	1,485.43	4,018.96	3,930.25	88.70	45.307	
11,800.00	7,618.00	10,041.10	7,630.00	121.56	39.84	90.14	-294.13	1,485.10	4,018.96	3,929.19	89.77	44.767	
11,900.00	7,618.00	10,141.10	7,630.00	121.46	40.37	90.14	-394.13	1,484.76	4,018.96	3,927.99	90.97	44.179	
12,000.00	7,618.00	10,241.10	7,630.00	121.38	41.34	90.14	-494.13	1,484.42	4,018.96	3,926.68	92.28	43.550	
12,100.00	7,618.00	10,341.10	7,630.00	121.30	42.36	90.14	-594.13	1,484.08	4,018.97	3,925.25	93.71	42.885	
12,200.00	7,618.00	10,441.10	7,630.00	121.24	43.42	90.14	-694.13	1,483.74	4,018.97	3,923.71	95.25	42.193	
12,300.00	7,618.00	10,541.10	7,630.00	121.19	44.51	90.14	-794.13	1,483.40	4,018.97	3,922.07	96.90	41.477	
12,400.00	7,618.00	10,641.10	7,630.00	121.16	45.64	90.14	-894.13	1,483.06	4,018.97	3,920.33	98.64	40.745	
12,500.00	7,618.00	10,741.10	7,630.00	121.14	46.80	90.14	-994.13	1,482.73	4,018.97	3,918.50	100.47	40.001	
12,600.00	7,618.00	10,841.10	7,630.00	121.13	47.99	90.14	-1,094.13	1,482.39	4,018.97	3,916.58	102.39	39.250	
12,700.00	7,618.00	10,941.10	7,630.00	121.13	49.21	90.14	-1,194.13	1,482.05	4,018.98	3,914.58	104.40	38.496	
12,800.00	7,618.00	11,041.10	7,630.00	121.15	50.45	90.14	-1,294.12	1,481.71	4,018.98	3,912.49	106.48	37.742	
12,900.00	7,618.00	11,141.10	7,630.00	121.18	51.72	90.14	-1,394.12	1,481.37	4,018.98	3,910.34	108.64	36.992	
13,000.00	7,618.00	11,241.10	7,630.00	121.23	53.02	90.14	-1,494.12	1,481.03	4,018.98	3,908.11	110.87	36.249	
13,100.00	7,618.00	11,341.10	7,630.00	121.29	54.33	90.14	-1,594.12	1,480.69	4,018.98	3,905.82	113.17	35.514	
13,200.00	7,618.00	11,441.10	7,630.00	121.37	55.67	90.14	-1,694.12	1,480.36	4,018.98	3,903.46	115.52	34.790	
13,300.00	7,618.00	11,541.10	7,630.00	121.46	57.03	90.14	-1,794.12	1,480.02	4,018.99	3,901.05	117.94	34.078	
13,400.00	7,618.00	11,641.10	7,630.00	121.57	58.40	90.14	-1,894.12	1,479.68	4,018.99	3,898.58	120.40	33.379	
13,500.00	7,618.00	11,741.10	7,630.00	121.70	59.80	90.14	-1,994.12	1,479.34	4,018.99	3,896.06	122.92	32.695	
13,600.00	7,618.00	11,841.10	7,630.00	121.84	61.21	90.14	-2,094.12	1,479.00	4,018.99	3,893.50	125.49	32.026	
13,700.00	7,618.00	11,941.10	7,630.00	122.01	62.63	90.14	-2,194.12	1,478.66	4,018.99	3,890.89	128.11	31.372	
13,800.00	7,618.00	12,041.10	7,630.00	122.19	64.07	90.14	-2,294.12	1,478.32	4,018.99	3,888.23	130.76	30.735	
13,900.00	7,618.00	12,141.10	7,630.00	122.39	65.53	90.14	-2,394.12	1,477.99	4,019.00	3,885.54	133.46	30.114	
14,000.00	7,618.00	12,241.10	7,630.00	122.62	67.00	90.14	-2,494.12	1,477.65	4,019.00	3,882.80	136.19	29.510	
14,100.00	7,618.00	12,341.10	7,630.00	122.86	68.48	90.14	-2,594.12	1,477.31	4,019.00	3,880.04	138.96	28.921	
14,200.00	7,618.00	12,441.10	7,630.00	123.12	69.97	90.14	-2,694.12	1,476.97	4,019.00	3,877.23	141.77	28.349	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	12,541.10	7,630.00	123.41	71.47	90.14	-2,794.12	1,476.63	4,019.00	3,874.40	144.60	27.794	
14,400.00	7,618.00	12,641.10	7,630.00	123.72	72.98	90.14	-2,894.12	1,476.29	4,019.00	3,871.54	147.47	27.254	
14,500.00	7,618.00	12,741.10	7,630.00	124.06	74.51	90.14	-2,994.11	1,475.95	4,019.01	3,868.65	150.36	26.729	
14,600.00	7,618.00	12,841.10	7,630.00	124.42	76.04	90.14	-3,094.11	1,475.62	4,019.01	3,865.73	153.28	26.220	
14,700.00	7,618.00	12,941.10	7,630.00	124.80	77.58	90.14	-3,194.11	1,475.28	4,019.01	3,862.78	156.22	25.726	
14,800.00	7,618.00	13,041.10	7,630.00	125.21	79.13	90.14	-3,294.11	1,474.94	4,019.01	3,859.82	159.19	25.246	
14,900.00	7,618.00	13,141.10	7,630.00	125.65	80.69	90.14	-3,394.11	1,474.60	4,019.01	3,856.83	162.18	24.780	
15,000.00	7,618.00	13,241.10	7,630.00	126.11	82.26	90.14	-3,494.11	1,474.26	4,019.01	3,853.82	165.20	24.329	
15,100.00	7,618.00	13,341.10	7,630.00	126.61	83.83	90.14	-3,594.11	1,473.92	4,019.02	3,850.79	168.23	23.890	
15,200.00	7,618.00	13,441.10	7,630.00	127.13	85.41	90.14	-3,694.11	1,473.58	4,019.02	3,847.74	171.28	23.464	
15,300.00	7,618.00	13,541.10	7,630.00	127.68	87.00	90.14	-3,794.11	1,473.25	4,019.02	3,844.67	174.35	23.051	
15,400.00	7,618.00	13,641.10	7,630.00	128.26	88.59	90.14	-3,894.11	1,472.91	4,019.02	3,841.58	177.44	22.650	
15,500.00	7,618.00	13,741.10	7,630.00	128.87	90.19	90.14	-3,994.11	1,472.57	4,019.02	3,838.48	180.54	22.261	
15,600.00	7,618.00	13,841.10	7,630.00	129.51	91.79	90.14	-4,094.11	1,472.23	4,019.02	3,835.36	183.66	21.883	
15,700.00	7,618.00	13,941.10	7,630.00	130.18	93.40	90.14	-4,194.11	1,471.89	4,019.03	3,832.23	186.79	21.516	
15,800.00	7,618.00	14,041.10	7,630.00	130.88	95.02	90.14	-4,294.11	1,471.55	4,019.03	3,829.09	189.94	21.159	
15,900.00	7,618.00	14,141.10	7,630.00	131.61	96.64	90.14	-4,394.11	1,471.21	4,019.03	3,825.93	193.10	20.813	
16,000.00	7,618.00	14,241.10	7,630.00	132.37	98.26	90.14	-4,494.11	1,470.88	4,019.03	3,822.76	196.27	20.477	
16,100.00	7,618.00	14,341.10	7,630.00	133.17	99.89	90.14	-4,594.11	1,470.54	4,019.03	3,819.57	199.46	20.150	
16,200.00	7,618.00	14,441.10	7,630.00	133.99	101.53	90.14	-4,694.11	1,470.20	4,019.03	3,816.38	202.66	19.832	
16,300.00	7,618.00	14,541.10	7,630.00	134.84	103.16	90.14	-4,794.10	1,469.86	4,019.04	3,813.17	205.86	19.523	
16,400.00	7,618.00	14,641.10	7,630.00	135.72	104.80	90.14	-4,894.10	1,469.52	4,019.04	3,809.96	209.08	19.222	
16,500.00	7,618.00	14,741.10	7,630.00	136.63	106.45	90.14	-4,994.10	1,469.18	4,019.04	3,806.73	212.31	18.930	
16,600.00	7,618.00	14,841.10	7,630.00	137.57	108.10	90.14	-5,094.10	1,468.84	4,019.04	3,803.49	215.55	18.646	
16,700.00	7,618.00	14,941.10	7,630.00	138.54	109.75	90.14	-5,194.10	1,468.51	4,019.04	3,800.25	218.79	18.369	
16,800.00	7,618.00	15,041.10	7,630.00	139.53	111.41	90.14	-5,294.10	1,468.17	4,019.04	3,796.99	222.05	18.100	
16,900.00	7,618.00	15,141.10	7,630.00	140.55	113.06	90.14	-5,394.10	1,467.83	4,019.05	3,793.73	225.31	17.837	
17,000.00	7,618.00	15,241.10	7,630.00	141.60	114.73	90.14	-5,494.10	1,467.49	4,019.05	3,790.46	228.59	17.582	
17,100.00	7,618.00	15,341.10	7,630.00	142.67	116.39	90.14	-5,594.10	1,467.15	4,019.05	3,787.18	231.87	17.333	
17,200.00	7,618.00	15,441.10	7,630.00	143.77	118.06	90.14	-5,694.10	1,466.81	4,019.05	3,783.90	235.15	17.091	
17,300.00	7,618.00	15,541.10	7,630.00	144.88	119.73	90.14	-5,794.10	1,466.47	4,019.05	3,780.61	238.45	16.855	
17,400.00	7,618.00	15,641.10	7,630.00	146.02	121.40	90.14	-5,894.10	1,466.14	4,019.05	3,777.31	241.75	16.625	
17,500.00	7,618.00	15,741.10	7,630.00	147.19	123.07	90.14	-5,994.10	1,465.80	4,019.06	3,774.00	245.06	16.401	
17,600.00	7,618.00	15,841.10	7,630.00	148.37	124.75	90.14	-6,094.10	1,465.46	4,019.06	3,770.69	248.37	16.182	
17,700.00	7,618.00	15,941.10	7,630.00	149.57	126.43	90.14	-6,194.10	1,465.12	4,019.06	3,767.37	251.69	15.968	
17,800.00	7,618.00	16,041.10	7,630.00	150.79	128.11	90.14	-6,294.10	1,464.78	4,019.06	3,764.05	255.01	15.760	
17,900.00	7,618.00	16,141.10	7,630.00	152.03	129.80	90.14	-6,394.10	1,464.44	4,019.06	3,760.72	258.35	15.557	
18,000.00	7,618.00	16,241.10	7,630.00	153.29	131.48	90.14	-6,494.09	1,464.10	4,019.06	3,757.38	261.68	15.359	
18,100.00	7,618.00	16,341.10	7,630.00	154.57	133.17	90.14	-6,594.09	1,463.77	4,019.07	3,754.04	265.02	15.165	
18,200.00	7,618.00	16,441.10	7,630.00	155.86	134.86	90.14	-6,694.09	1,463.43	4,019.07	3,750.70	268.37	14.976	
18,300.00	7,618.00	16,541.10	7,630.00	157.17	136.55	90.14	-6,794.09	1,463.09	4,019.07	3,747.35	271.72	14.791	
18,400.00	7,618.00	16,641.10	7,630.00	158.49	138.25	90.14	-6,894.09	1,462.75	4,019.07	3,744.00	275.08	14.611	
18,500.00	7,618.00	16,741.10	7,630.00	159.82	139.94	90.14	-6,994.09	1,462.41	4,019.07	3,740.64	278.44	14.434	
18,600.00	7,618.00	16,841.10	7,630.00	161.17	141.64	90.14	-7,094.09	1,462.07	4,019.07	3,737.27	281.80	14.262	
18,700.00	7,618.00	16,941.10	7,630.00	162.54	143.34	90.14	-7,194.09	1,461.73	4,019.08	3,733.91	285.17	14.094	
18,800.00	7,618.00	17,041.10	7,630.00	163.91	145.04	90.14	-7,294.09	1,461.40	4,019.08	3,730.54	288.54	13.929	
18,900.00	7,618.00	17,141.10	7,630.00	165.30	146.74	90.14	-7,394.09	1,461.06	4,019.08	3,727.16	291.92	13.768	
19,000.00	7,618.00	17,241.10	7,630.00	166.70	148.44	90.14	-7,494.09	1,460.72	4,019.08	3,723.78	295.30	13.610	
19,100.00	7,618.00	17,341.10	7,630.00	168.10	150.15	90.14	-7,594.09	1,460.38	4,019.08	3,720.40	298.68	13.456	
19,200.00	7,618.00	17,441.10	7,630.00	169.52	151.85	90.14	-7,694.09	1,460.04	4,019.08	3,717.02	302.07	13.305	
19,300.00	7,618.00	17,541.10	7,630.00	170.95	153.56	90.14	-7,794.09	1,459.70	4,019.09	3,713.63	305.46	13.158	
19,400.00	7,618.00	17,641.10	7,630.00	172.39	155.27	90.14	-7,894.09	1,459.36	4,019.09	3,710.24	308.85	13.013	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,500.00	7,618.00	17,741.10	7,630.00	173.84	156.98	90.14	-7,994.09	1,459.03	4,019.09	3,706.84	312.25	12.871	
19,600.00	7,618.00	17,841.10	7,630.00	175.30	158.69	90.14	-8,094.09	1,458.69	4,019.09	3,703.44	315.65	12.733	
19,700.00	7,618.00	17,941.10	7,630.00	176.76	160.40	90.14	-8,194.09	1,458.35	4,019.09	3,700.04	319.05	12.597	
19,800.00	7,618.00	18,041.10	7,630.00	178.24	162.11	90.14	-8,294.08	1,458.01	4,019.09	3,696.64	322.46	12.464	
19,896.19	7,618.00	18,137.29	7,630.00	179.66	163.76	90.14	-8,390.27	1,457.68	4,019.10	3,693.36	325.73	12.339	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	47.99	1,788.18	1,985.44	8,170.03				
100.00	100.00	16,236.00	7,569.74	0.13	158.98	47.99	1,788.18	1,985.44	8,075.59	7,996.55	79.04	102.171	
200.00	200.00	16,236.00	7,569.74	0.49	158.98	47.99	1,788.18	1,985.44	7,981.29	7,902.10	79.20	100.776	
300.00	299.98	16,236.00	7,569.74	0.85	158.98	-23.57	1,788.18	1,985.44	7,886.60	7,807.23	79.37	99.361	
400.00	399.84	16,236.00	7,569.74	1.21	158.98	-26.31	1,788.18	1,985.44	7,791.05	7,711.50	79.55	97.940	
500.00	499.45	16,236.00	7,569.74	1.58	158.98	-29.68	1,788.18	1,985.44	7,694.72	7,615.00	79.71	96.533	
600.00	598.70	16,236.00	7,569.74	1.97	158.98	-33.90	1,788.18	1,985.44	7,597.69	7,517.84	79.86	95.143	
700.00	697.47	16,236.00	7,569.74	2.38	158.98	-39.26	1,788.18	1,985.44	7,500.08	7,420.10	79.98	93.774	
800.00	795.62	16,236.00	7,569.74	2.83	158.98	-46.14	1,788.18	1,985.44	7,401.96	7,321.88	80.08	92.428	
900.00	893.06	16,236.00	7,569.74	3.31	158.98	-54.98	1,788.18	1,985.44	7,303.45	7,223.29	80.16	91.106	
1,000.00	989.64	16,236.00	7,569.74	3.83	158.98	-66.10	1,788.18	1,985.44	7,204.66	7,124.44	80.22	89.812	
1,100.00	1,085.27	16,236.00	7,569.74	4.40	158.98	-79.31	1,788.18	1,985.44	7,105.68	7,025.43	80.25	88.545	
1,200.00	1,179.82	16,236.00	7,569.74	5.02	158.98	-93.56	1,788.18	1,985.44	7,006.64	6,926.39	80.25	87.308	
1,300.00	1,273.17	16,236.00	7,569.74	5.70	158.98	-107.21	1,788.18	1,985.44	6,907.66	6,827.43	80.23	86.099	
1,400.00	1,365.21	16,236.00	7,569.74	6.43	158.98	-118.95	1,788.18	1,985.44	6,808.86	6,728.68	80.18	84.921	
1,500.00	1,455.84	16,236.00	7,569.74	7.23	158.98	-128.39	1,788.18	1,985.44	6,710.38	6,630.28	80.10	83.771	
1,600.00	1,544.94	16,236.00	7,569.74	8.09	158.98	-135.76	1,788.18	1,985.44	6,612.35	6,532.35	80.01	82.649	
1,700.00	1,632.39	16,236.00	7,569.74	9.01	158.98	-141.49	1,788.18	1,985.44	6,514.92	6,435.03	79.89	81.553	
1,800.00	1,718.11	16,236.00	7,569.74	10.00	158.98	-145.98	1,788.18	1,985.44	6,418.22	6,338.48	79.75	80.482	
1,900.00	1,801.97	16,236.00	7,569.74	11.07	158.98	-149.54	1,788.18	1,985.44	6,322.43	6,242.83	79.60	79.432	
2,000.00	1,883.88	16,236.00	7,569.74	12.20	158.98	-152.41	1,788.18	1,985.44	6,227.69	6,148.26	79.43	78.400	
2,100.00	1,963.74	16,236.00	7,569.74	13.41	158.98	-154.76	1,788.18	1,985.44	6,134.18	6,054.91	79.27	77.383	
2,200.00	2,041.45	16,236.00	7,569.74	14.69	158.98	-156.71	1,788.18	1,985.44	6,042.07	5,962.96	79.11	76.378	
2,300.00	2,116.92	16,236.00	7,569.74	16.05	158.98	-158.34	1,788.18	1,985.44	5,951.53	5,872.58	78.95	75.379	
2,357.48	2,159.25	16,236.00	7,569.74	16.86	158.98	-159.16	1,788.18	1,985.44	5,900.28	5,821.41	78.87	74.810	
2,400.00	2,190.27	16,236.00	7,569.74	17.47	158.98	-159.16	1,788.18	1,985.44	5,862.62	5,783.81	78.82	74.383	
2,500.00	2,263.22	16,236.00	7,569.74	18.92	158.98	-159.16	1,788.18	1,985.44	5,774.33	5,695.60	78.72	73.351	
2,600.00	2,336.18	16,236.00	7,569.74	20.37	158.98	-159.16	1,788.18	1,985.44	5,686.42	5,607.76	78.66	72.294	
2,700.00	2,409.14	16,236.00	7,569.74	21.84	158.98	-159.16	1,788.18	1,985.44	5,598.92	5,520.30	78.62	71.216	
2,800.00	2,482.09	16,236.00	7,569.74	23.31	158.98	-159.16	1,788.18	1,985.44	5,511.84	5,433.23	78.61	70.117	
2,900.00	2,555.05	16,236.00	7,569.74	24.78	158.98	-159.16	1,788.18	1,985.44	5,425.21	5,346.58	78.63	68.999	
3,000.00	2,628.01	16,236.00	7,569.74	26.27	158.98	-159.16	1,788.18	1,985.44	5,339.05	5,260.37	78.68	67.861	
3,100.00	2,700.96	16,236.00	7,569.74	27.75	158.98	-159.16	1,788.18	1,985.44	5,253.37	5,174.62	78.76	66.704	
3,200.00	2,773.92	16,236.00	7,569.74	29.24	158.98	-159.16	1,788.18	1,985.44	5,168.22	5,089.35	78.87	65.528	
3,300.00	2,846.88	16,236.00	7,569.74	30.73	158.98	-159.16	1,788.18	1,985.44	5,083.60	5,004.58	79.02	64.333	
3,400.00	2,919.83	16,236.00	7,569.74	32.23	158.98	-159.16	1,788.18	1,985.44	4,999.55	4,920.34	79.21	63.119	
3,500.00	2,992.79	16,236.00	7,569.74	33.72	158.98	-159.16	1,788.18	1,985.44	4,916.10	4,836.66	79.44	61.886	
3,600.00	3,065.75	16,236.00	7,569.74	35.22	158.98	-159.16	1,788.18	1,985.44	4,833.27	4,753.56	79.71	60.632	
3,700.00	3,138.71	16,236.00	7,569.74	36.72	158.98	-159.16	1,788.18	1,985.44	4,751.11	4,671.07	80.04	59.359	
3,800.00	3,211.66	16,236.00	7,569.74	38.22	158.98	-159.16	1,788.18	1,985.44	4,669.64	4,589.22	80.42	58.064	
3,900.00	3,284.62	16,236.00	7,569.74	39.72	158.98	-159.16	1,788.18	1,985.44	4,588.91	4,508.04	80.86	56.749	
4,000.00	3,357.58	16,236.00	7,569.74	41.22	158.98	-159.16	1,788.18	1,985.44	4,508.94	4,427.58	81.37	55.414	
4,100.00	3,430.53	16,236.00	7,569.74	42.73	158.98	-159.16	1,788.18	1,985.44	4,429.80	4,347.85	81.95	54.057	
4,200.00	3,503.49	16,236.00	7,569.74	44.23	158.98	-159.16	1,788.18	1,985.44	4,351.51	4,268.90	82.60	52.679	
4,300.00	3,576.45	16,236.00	7,569.74	45.74	158.98	-159.16	1,788.18	1,985.44	4,274.12	4,190.78	83.34	51.282	
4,400.00	3,649.40	16,236.00	7,569.74	47.25	158.98	-159.16	1,788.18	1,985.44	4,197.69	4,113.52	84.18	49.866	
4,500.00	3,722.36	16,236.00	7,569.74	48.75	158.98	-159.16	1,788.18	1,985.44	4,122.28	4,037.16	85.11	48.433	
4,600.00	3,795.32	16,236.00	7,569.74	50.26	158.98	-159.16	1,788.18	1,985.44	4,047.92	3,961.76	86.16	46.983	
4,700.00	3,868.27	16,236.00	7,569.74	51.77	158.98	-159.16	1,788.18	1,985.44	3,974.69	3,887.38	87.32	45.520	
4,800.00	3,941.23	16,236.00	7,569.74	53.28	158.98	-159.16	1,788.18	1,985.44	3,902.65	3,814.05	88.60	44.047	
4,900.00	4,014.19	16,236.00	7,569.74	54.79	158.98	-159.16	1,788.18	1,985.44	3,831.87	3,741.85	90.02	42.566	
5,000.00	4,087.15	16,236.00	7,569.74	56.30	158.98	-159.16	1,788.18	1,985.44	3,762.41	3,670.83	91.58	41.082	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	16,236.00	7,569.74	57.81	158.98	-159.16	1,788.18	1,985.44	3,694.35	3,601.06	93.29	39.600	
5,200.00	4,233.06	16,236.00	7,569.74	59.32	158.98	-159.16	1,788.18	1,985.44	3,627.78	3,532.62	95.16	38.123	
5,300.00	4,306.02	16,236.00	7,569.74	60.83	158.98	-159.16	1,788.18	1,985.44	3,562.76	3,465.57	97.19	36.657	
5,400.00	4,378.97	16,236.00	7,569.74	62.34	158.98	-159.16	1,788.18	1,985.44	3,499.40	3,400.01	99.39	35.207	
5,500.00	4,451.93	16,236.00	7,569.74	63.85	158.98	-159.16	1,788.18	1,985.44	3,437.78	3,336.01	101.77	33.780	
5,600.00	4,524.89	16,236.00	7,569.74	65.36	158.98	-159.16	1,788.18	1,985.44	3,377.99	3,273.67	104.32	32.381	
5,700.00	4,597.84	16,236.00	7,569.74	66.88	158.98	-159.16	1,788.18	1,985.44	3,320.14	3,213.09	107.05	31.014	
5,800.00	4,670.80	16,236.00	7,569.74	68.39	158.98	-159.16	1,788.18	1,985.44	3,264.33	3,154.37	109.96	29.686	
5,900.00	4,743.76	16,236.00	7,569.74	69.90	158.98	-159.16	1,788.18	1,985.44	3,210.66	3,097.62	113.05	28.401	
6,000.00	4,816.71	16,236.00	7,569.74	71.41	158.98	-159.16	1,788.18	1,985.44	3,159.25	3,042.95	116.31	27.163	
6,100.00	4,889.67	16,236.00	7,569.74	72.93	158.98	-159.16	1,788.18	1,985.44	3,110.21	2,990.48	119.73	25.977	
6,200.00	4,962.63	16,236.00	7,569.74	74.44	158.98	-159.16	1,788.18	1,985.44	3,063.64	2,940.33	123.31	24.845	
6,300.00	5,035.59	16,236.00	7,569.74	75.95	158.98	-159.16	1,788.18	1,985.44	3,019.67	2,892.64	127.03	23.771	
6,400.00	5,108.54	16,236.00	7,569.74	77.47	158.98	-159.16	1,788.18	1,985.44	2,978.41	2,847.53	130.89	22.755	
6,500.00	5,181.50	16,236.00	7,569.74	78.98	158.98	-159.16	1,788.18	1,985.44	2,939.98	2,805.12	134.86	21.801	
6,600.00	5,254.46	16,236.00	7,569.74	80.49	158.98	-159.16	1,788.18	1,985.44	2,904.48	2,765.55	138.92	20.907	
6,700.00	5,327.41	16,236.00	7,569.74	82.01	158.98	-159.16	1,788.18	1,985.44	2,872.02	2,728.96	143.06	20.075	
6,800.00	5,400.37	16,236.00	7,569.74	83.52	158.98	-159.16	1,788.18	1,985.44	2,842.71	2,695.45	147.26	19.304	
6,900.00	5,473.33	16,236.00	7,569.74	85.04	158.98	-159.16	1,788.18	1,985.44	2,816.65	2,665.17	151.48	18.594	
7,000.00	5,546.28	16,236.00	7,569.74	86.55	158.98	-159.16	1,788.18	1,985.44	2,793.93	2,638.22	155.70	17.944	
7,100.00	5,619.24	16,236.00	7,569.74	88.06	158.98	-159.16	1,788.18	1,985.44	2,774.63	2,614.72	159.91	17.351	
7,200.00	5,692.20	16,236.00	7,569.74	89.58	158.98	-159.16	1,788.18	1,985.44	2,758.82	2,594.75	164.06	16.816	
7,300.00	5,765.15	16,236.00	7,569.74	91.09	158.98	-159.16	1,788.18	1,985.44	2,746.56	2,578.42	168.14	16.335	
7,400.00	5,838.11	16,236.00	7,569.74	92.61	158.98	-159.16	1,788.18	1,985.44	2,737.90	2,565.78	172.12	15.907	
7,500.00	5,911.07	16,236.00	7,569.74	94.12	158.98	-159.16	1,788.18	1,985.44	2,732.88	2,556.90	175.97	15.530	
7,587.42	5,974.85	16,236.00	7,569.74	95.45	158.98	-159.16	1,788.18	1,985.44	2,731.48	2,552.25	179.22	15.241	CC
7,600.00	5,984.03	16,236.00	7,569.74	95.64	158.98	-159.16	1,788.18	1,985.44	2,731.51	2,551.82	179.68	15.202	
7,700.00	6,056.98	16,236.00	7,569.74	97.15	158.98	-159.16	1,788.18	1,985.44	2,733.80	2,550.57	183.22	14.921	ES
7,800.00	6,129.94	16,236.00	7,569.74	98.67	158.98	-159.16	1,788.18	1,985.44	2,739.74	2,553.16	186.58	14.684	
7,900.00	6,202.90	16,236.00	7,569.74	100.18	158.98	-159.16	1,788.18	1,985.44	2,749.30	2,559.57	189.74	14.490	
8,000.00	6,275.85	16,236.00	7,569.74	101.70	158.98	-159.16	1,788.18	1,985.44	2,762.46	2,569.78	192.68	14.337	
8,100.00	6,348.81	16,236.00	7,569.74	103.21	158.98	-159.16	1,788.18	1,985.44	2,779.16	2,583.75	195.41	14.222	
8,200.00	6,421.77	16,236.00	7,569.74	104.73	158.98	-159.16	1,788.18	1,985.44	2,799.32	2,601.41	197.91	14.144	
8,300.00	6,494.72	16,236.00	7,569.74	106.24	158.98	-159.16	1,788.18	1,985.44	2,822.89	2,622.70	200.19	14.101	
8,400.00	6,567.68	16,236.00	7,569.74	107.76	158.98	-159.16	1,788.18	1,985.44	2,849.78	2,647.54	202.24	14.091	SF
8,500.00	6,640.64	16,224.65	7,569.80	109.27	158.78	-158.93	1,799.52	1,985.64	2,879.87	2,675.74	204.13	14.108	
8,600.00	6,713.59	16,198.98	7,569.93	110.79	158.34	-158.42	1,825.19	1,986.10	2,912.89	2,707.01	205.88	14.148	
8,700.00	6,786.55	16,172.41	7,570.07	112.30	157.87	-157.88	1,851.75	1,986.57	2,948.70	2,741.26	207.45	14.214	
8,800.00	6,859.51	16,144.01	7,570.16	113.82	157.38	-157.31	1,880.16	1,987.09	2,987.20	2,778.37	208.84	14.304	
8,900.00	6,932.46	16,115.96	7,570.19	115.33	156.89	-156.75	1,908.20	1,987.60	3,028.28	2,818.23	210.05	14.417	
9,000.00	7,005.42	16,088.70	7,570.15	116.85	156.42	-156.20	1,935.45	1,988.11	3,071.83	2,860.74	211.10	14.552	
9,104.89	7,081.95	16,061.28	7,570.04	118.44	155.94	-155.65	1,962.87	1,988.61	3,120.08	2,908.06	212.01	14.716	
9,150.00	7,115.15	16,051.41	7,569.98	119.12	155.77	-162.69	1,972.73	1,988.79	3,141.82	2,929.46	212.37	14.794	
9,200.00	7,152.46	16,044.78	7,569.94	119.86	155.66	-170.98	1,979.36	1,988.91	3,166.89	2,954.15	212.73	14.887	
9,250.00	7,190.04	16,042.67	7,569.92	120.57	155.62	-179.65	1,981.47	1,988.95	3,192.77	2,979.70	213.07	14.984	
9,300.00	7,227.59	16,045.04	7,569.94	121.25	155.66	171.50	1,979.10	1,988.91	3,219.28	3,005.89	213.39	15.087	
9,350.00	7,264.83	16,051.82	7,569.98	121.89	155.78	162.66	1,972.32	1,988.78	3,246.18	3,032.51	213.67	15.193	
9,400.00	7,301.48	16,062.91	7,570.05	122.48	155.97	154.03	1,961.23	1,988.58	3,273.23	3,059.32	213.92	15.301	
9,450.00	7,337.26	16,078.19	7,570.11	123.01	156.24	145.76	1,945.96	1,988.30	3,300.20	3,086.05	214.15	15.411	
9,500.00	7,371.90	16,097.49	7,570.17	123.49	156.57	137.97	1,926.66	1,987.94	3,326.81	3,112.46	214.36	15.520	
9,550.00	7,405.13	16,121.77	7,570.19	123.91	156.99	130.73	1,902.39	1,987.49	3,352.81	3,138.27	214.55	15.628	
9,600.00	7,436.70	16,149.99	7,570.15	124.27	157.48	124.12	1,874.17	1,986.98	3,377.93	3,163.20	214.73	15.731	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	16,181.84	7,570.02	124.57	158.04	118.15	1,842.32	1,986.40	3,401.91	3,187.00	214.91	15.829	
9,700.00	7,493.91	16,215.33	7,569.85	124.81	158.62	112.87	1,808.84	1,985.81	3,424.51	3,209.39	215.12	15.919	
9,750.00	7,519.11	16,236.00	7,569.74	125.00	158.98	108.38	1,788.18	1,985.44	3,445.53	3,230.11	215.41	15.995	
9,800.00	7,541.79	16,236.00	7,569.74	125.12	158.98	104.68	1,788.18	1,985.44	3,465.08	3,249.25	215.83	16.055	
9,850.00	7,561.77	16,236.00	7,569.74	125.20	158.98	101.49	1,788.18	1,985.44	3,483.11	3,266.85	216.26	16.106	
9,900.00	7,578.90	16,236.00	7,569.74	125.23	158.98	98.78	1,788.18	1,985.44	3,499.50	3,282.79	216.71	16.148	
9,950.00	7,593.04	16,236.00	7,569.74	125.22	158.98	96.52	1,788.18	1,985.44	3,514.15	3,296.97	217.18	16.181	
10,000.00	7,604.09	16,236.00	7,569.74	125.17	158.98	94.70	1,788.18	1,985.44	3,526.96	3,309.30	217.66	16.204	
10,050.00	7,611.97	16,236.00	7,569.74	125.08	158.98	93.28	1,788.18	1,985.44	3,537.87	3,319.71	218.16	16.217	
10,100.00	7,616.61	16,236.00	7,569.74	124.97	158.98	92.26	1,788.18	1,985.44	3,546.81	3,328.13	218.68	16.219	
10,145.95	7,618.00	16,236.00	7,569.74	124.84	158.98	91.67	1,788.18	1,985.44	3,553.24	3,334.07	219.16	16.213	
10,200.00	7,618.00	16,236.00	7,569.74	124.69	158.98	91.67	1,788.18	1,985.44	3,560.18	3,340.45	219.73	16.203	
10,300.00	7,618.00	16,236.00	7,569.74	124.41	158.98	91.67	1,788.18	1,985.44	3,575.15	3,354.46	220.69	16.200	
10,400.00	7,618.00	16,236.00	7,569.74	124.14	158.98	91.67	1,788.18	1,985.44	3,592.84	3,371.30	221.54	16.217	
10,500.00	7,618.00	16,236.00	7,569.74	123.88	158.98	91.67	1,788.18	1,985.44	3,613.22	3,390.93	222.28	16.255	
10,600.00	7,618.00	16,236.00	7,569.74	123.63	158.98	91.67	1,788.18	1,985.44	3,636.23	3,413.32	222.91	16.313	
10,700.00	7,618.00	16,236.00	7,569.74	123.40	158.98	91.67	1,788.18	1,985.44	3,661.82	3,438.40	223.42	16.390	
10,800.00	7,618.00	16,236.00	7,569.74	123.18	158.98	91.67	1,788.18	1,985.44	3,689.95	3,466.14	223.81	16.487	
10,900.00	7,618.00	16,236.00	7,569.74	122.96	158.98	91.67	1,788.18	1,985.44	3,720.56	3,496.46	224.10	16.603	
11,000.00	7,618.00	16,236.00	7,569.74	122.76	158.98	91.67	1,788.18	1,985.44	3,753.58	3,529.31	224.27	16.737	
11,100.00	7,618.00	16,236.00	7,569.74	122.57	158.98	91.67	1,788.18	1,985.44	3,788.96	3,564.62	224.34	16.890	
11,200.00	7,618.00	16,236.00	7,569.74	122.39	158.98	91.67	1,788.18	1,985.44	3,826.62	3,602.31	224.30	17.060	
11,300.00	7,618.00	16,236.00	7,569.74	122.23	158.98	91.67	1,788.18	1,985.44	3,866.50	3,642.33	224.17	17.248	
11,400.00	7,618.00	16,236.00	7,569.74	122.07	158.98	91.67	1,788.18	1,985.44	3,908.53	3,684.58	223.95	17.453	
11,500.00	7,618.00	16,236.00	7,569.74	121.93	158.98	91.67	1,788.18	1,985.44	3,952.65	3,729.01	223.64	17.675	
11,600.00	7,618.00	16,236.00	7,569.74	121.79	158.98	91.67	1,788.18	1,985.44	3,998.78	3,775.53	223.24	17.912	
11,700.00	7,618.00	16,236.00	7,569.74	121.67	158.98	91.67	1,788.18	1,985.44	4,046.86	3,824.08	222.78	18.166	
11,800.00	7,618.00	16,236.00	7,569.74	121.56	158.98	91.67	1,788.18	1,985.44	4,096.81	3,874.57	222.24	18.434	
11,900.00	7,618.00	16,236.00	7,569.74	121.46	158.98	91.67	1,788.18	1,985.44	4,148.57	3,926.93	221.64	18.718	
12,000.00	7,618.00	16,236.00	7,569.74	121.38	158.98	91.67	1,788.18	1,985.44	4,202.08	3,981.10	220.98	19.016	
12,100.00	7,618.00	16,236.00	7,569.74	121.30	158.98	91.67	1,788.18	1,985.44	4,257.26	4,037.00	220.27	19.328	
12,200.00	7,618.00	16,236.00	7,569.74	121.24	158.98	91.67	1,788.18	1,985.44	4,314.06	4,094.55	219.51	19.654	
12,300.00	7,618.00	16,236.00	7,569.74	121.19	158.98	91.67	1,788.18	1,985.44	4,372.40	4,153.70	218.70	19.993	
12,400.00	7,618.00	16,236.00	7,569.74	121.16	158.98	91.67	1,788.18	1,985.44	4,432.23	4,214.37	217.86	20.344	
12,500.00	7,618.00	16,236.00	7,569.74	121.14	158.98	91.67	1,788.18	1,985.44	4,493.50	4,276.51	216.99	20.709	
12,600.00	7,618.00	16,236.00	7,569.74	121.13	158.98	91.67	1,788.18	1,985.44	4,556.13	4,340.05	216.08	21.085	
12,700.00	7,618.00	16,236.00	7,569.74	121.13	158.98	91.67	1,788.18	1,985.44	4,620.08	4,404.93	215.15	21.474	
12,800.00	7,618.00	16,236.00	7,569.74	121.15	158.98	91.67	1,788.18	1,985.44	4,685.29	4,471.09	214.20	21.873	
12,900.00	7,618.00	16,236.00	7,569.74	121.18	158.98	91.67	1,788.18	1,985.44	4,751.71	4,538.48	213.23	22.284	
13,000.00	7,618.00	16,236.00	7,569.74	121.23	158.98	91.67	1,788.18	1,985.44	4,819.29	4,607.04	212.25	22.706	
13,100.00	7,618.00	16,236.00	7,569.74	121.29	158.98	91.67	1,788.18	1,985.44	4,887.98	4,676.73	211.26	23.138	
13,200.00	7,618.00	16,236.00	7,569.74	121.37	158.98	91.67	1,788.18	1,985.44	4,957.74	4,747.49	210.25	23.580	
13,300.00	7,618.00	16,236.00	7,569.74	121.46	158.98	91.67	1,788.18	1,985.44	5,028.52	4,819.27	209.24	24.032	
13,400.00	7,618.00	16,236.00	7,569.74	121.57	158.98	91.67	1,788.18	1,985.44	5,100.27	4,892.04	208.23	24.493	
13,500.00	7,618.00	16,236.00	7,569.74	121.70	158.98	91.67	1,788.18	1,985.44	5,172.97	4,965.75	207.22	24.964	
13,600.00	7,618.00	16,236.00	7,569.74	121.84	158.98	91.67	1,788.18	1,985.44	5,246.56	5,040.36	206.20	25.444	
13,700.00	7,618.00	16,236.00	7,569.74	122.01	158.98	91.67	1,788.18	1,985.44	5,321.02	5,115.83	205.19	25.932	
13,800.00	7,618.00	16,236.00	7,569.74	122.19	158.98	91.67	1,788.18	1,985.44	5,396.30	5,192.12	204.18	26.429	
13,900.00	7,618.00	16,236.00	7,569.74	122.39	158.98	91.67	1,788.18	1,985.44	5,472.37	5,269.20	203.17	26.935	
14,000.00	7,618.00	16,236.00	7,569.74	122.62	158.98	91.67	1,788.18	1,985.44	5,549.20	5,347.03	202.17	27.448	
14,100.00	7,618.00	16,236.00	7,569.74	122.86	158.98	91.67	1,788.18	1,985.44	5,626.76	5,425.58	201.18	27.969	
14,200.00	7,618.00	16,236.00	7,569.74	123.12	158.98	91.67	1,788.18	1,985.44	5,705.02	5,504.82	200.20	28.497	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	16,236.00	7,569.74	123.41	158.98	91.67	1,788.18	1,985.44	5,783.95	5,584.73	199.22	29.033	
14,400.00	7,618.00	16,236.00	7,569.74	123.72	158.98	91.67	1,788.18	1,985.44	5,863.52	5,665.27	198.26	29.575	
14,500.00	7,618.00	16,236.00	7,569.74	124.06	158.98	91.67	1,788.18	1,985.44	5,943.71	5,746.41	197.30	30.125	
14,600.00	7,618.00	16,236.00	7,569.74	124.42	158.98	91.67	1,788.18	1,985.44	6,024.49	5,828.13	196.36	30.681	
14,700.00	7,618.00	16,236.00	7,569.74	124.80	158.98	91.67	1,788.18	1,985.44	6,105.84	5,910.42	195.43	31.244	
14,800.00	7,618.00	16,236.00	7,569.74	125.21	158.98	91.67	1,788.18	1,985.44	6,187.74	5,993.24	194.51	31.813	
14,900.00	7,618.00	16,236.00	7,569.74	125.65	158.98	91.67	1,788.18	1,985.44	6,270.16	6,076.57	193.60	32.388	
15,000.00	7,618.00	16,236.00	7,569.74	126.11	158.98	91.67	1,788.18	1,985.44	6,353.09	6,160.39	192.70	32.969	
15,100.00	7,618.00	16,236.00	7,569.74	126.61	158.98	91.67	1,788.18	1,985.44	6,436.50	6,244.68	191.82	33.555	
15,200.00	7,618.00	16,236.00	7,569.74	127.13	158.98	91.67	1,788.18	1,985.44	6,520.38	6,329.43	190.95	34.148	
15,300.00	7,618.00	16,236.00	7,569.74	127.68	158.98	91.67	1,788.18	1,985.44	6,604.71	6,414.62	190.09	34.745	
15,400.00	7,618.00	16,236.00	7,569.74	128.26	158.98	91.67	1,788.18	1,985.44	6,689.47	6,500.22	189.25	35.348	
15,500.00	7,618.00	16,236.00	7,569.74	128.87	158.98	91.67	1,788.18	1,985.44	6,774.64	6,586.23	188.42	35.956	
15,600.00	7,618.00	16,236.00	7,569.74	129.51	158.98	91.67	1,788.18	1,985.44	6,860.22	6,672.62	187.60	36.569	
15,700.00	7,618.00	16,236.00	7,569.74	130.18	158.98	91.67	1,788.18	1,985.44	6,946.18	6,759.39	186.79	37.186	
15,800.00	7,618.00	16,236.00	7,569.74	130.88	158.98	91.67	1,788.18	1,985.44	7,032.51	6,846.51	186.00	37.809	
15,900.00	7,618.00	16,236.00	7,569.74	131.61	158.98	91.67	1,788.18	1,985.44	7,119.20	6,933.98	185.22	38.436	
16,000.00	7,618.00	16,236.00	7,569.74	132.37	158.98	91.67	1,788.18	1,985.44	7,206.24	7,021.78	184.46	39.067	
16,100.00	7,618.00	16,236.00	7,569.74	133.17	158.98	91.67	1,788.18	1,985.44	7,293.60	7,109.90	183.71	39.702	
16,200.00	7,618.00	16,236.00	7,569.74	133.99	158.98	91.67	1,788.18	1,985.44	7,381.29	7,198.32	182.97	40.342	
16,300.00	7,618.00	16,236.00	7,569.74	134.84	158.98	91.67	1,788.18	1,985.44	7,469.29	7,287.05	182.24	40.985	
16,400.00	7,618.00	16,236.00	7,569.74	135.72	158.98	91.67	1,788.18	1,985.44	7,557.59	7,376.06	181.53	41.633	
16,500.00	7,618.00	16,236.00	7,569.74	136.63	158.98	91.67	1,788.18	1,985.44	7,646.17	7,465.34	180.83	42.284	
16,600.00	7,618.00	16,236.00	7,569.74	137.57	158.98	91.67	1,788.18	1,985.44	7,735.03	7,554.89	180.14	42.939	
16,700.00	7,618.00	16,236.00	7,569.74	138.54	158.98	91.67	1,788.18	1,985.44	7,824.16	7,644.70	179.46	43.597	
16,800.00	7,618.00	16,236.00	7,569.74	139.53	158.98	91.67	1,788.18	1,985.44	7,913.55	7,734.75	178.80	44.259	
16,900.00	7,618.00	16,236.00	7,569.74	140.55	158.98	91.67	1,788.18	1,985.44	8,003.20	7,825.05	178.15	44.925	
17,000.00	7,618.00	16,236.00	7,569.74	141.60	158.98	91.67	1,788.18	1,985.44	8,093.08	7,915.57	177.51	45.593	
17,100.00	7,618.00	16,236.00	7,569.74	142.67	158.98	91.67	1,788.18	1,985.44	8,183.20	8,006.32	176.88	46.265	
17,200.00	7,618.00	16,236.00	7,569.74	143.77	158.98	91.67	1,788.18	1,985.44	8,273.55	8,097.29	176.26	46.940	
17,300.00	7,618.00	16,236.00	7,569.74	144.88	158.98	91.67	1,788.18	1,985.44	8,364.11	8,188.46	175.65	47.617	
17,400.00	7,618.00	16,236.00	7,569.74	146.02	158.98	91.67	1,788.18	1,985.44	8,454.89	8,279.83	175.06	48.298	
17,500.00	7,618.00	16,236.00	7,569.74	147.19	158.98	91.67	1,788.18	1,985.44	8,545.88	8,371.40	174.47	48.981	
17,600.00	7,618.00	16,236.00	7,569.74	148.37	158.98	91.67	1,788.18	1,985.44	8,637.06	8,463.16	173.90	49.668	
17,700.00	7,618.00	16,236.00	7,569.74	149.57	158.98	91.67	1,788.18	1,985.44	8,728.44	8,555.10	173.33	50.356	
17,800.00	7,618.00	16,236.00	7,569.74	150.79	158.98	91.67	1,788.18	1,985.44	8,820.00	8,647.22	172.78	51.048	
17,900.00	7,618.00	16,236.00	7,569.74	152.03	158.98	91.67	1,788.18	1,985.44	8,911.75	8,739.51	172.24	51.741	
18,000.00	7,618.00	16,236.00	7,569.74	153.29	158.98	91.67	1,788.18	1,985.44	9,003.67	8,831.97	171.70	52.438	
18,100.00	7,618.00	16,236.00	7,569.74	154.57	158.98	91.67	1,788.18	1,985.44	9,095.76	8,924.58	171.18	53.136	
18,200.00	7,618.00	16,236.00	7,569.74	155.86	158.98	91.67	1,788.18	1,985.44	9,188.02	9,017.35	170.66	53.837	
18,300.00	7,618.00	16,236.00	7,569.74	157.17	158.98	91.67	1,788.18	1,985.44	9,280.44	9,110.28	170.16	54.540	
18,400.00	7,618.00	16,236.00	7,569.74	158.49	158.98	91.67	1,788.18	1,985.44	9,373.01	9,203.34	169.66	55.245	
18,500.00	7,618.00	16,236.00	7,569.74	159.82	158.98	91.67	1,788.18	1,985.44	9,465.73	9,296.56	169.18	55.952	
18,600.00	7,618.00	16,236.00	7,569.74	161.17	158.98	91.67	1,788.18	1,985.44	9,558.60	9,389.91	168.70	56.661	
18,700.00	7,618.00	16,236.00	7,569.74	162.54	158.98	91.67	1,788.18	1,985.44	9,651.62	9,483.39	168.23	57.372	
18,800.00	7,618.00	16,236.00	7,569.74	163.91	158.98	91.67	1,788.18	1,985.44	9,744.77	9,577.00	167.77	58.085	
18,900.00	7,618.00	16,236.00	7,569.74	165.30	158.98	91.67	1,788.18	1,985.44	9,838.06	9,670.74	167.32	58.799	
19,000.00	7,618.00	16,236.00	7,569.74	166.70	158.98	91.67	1,788.18	1,985.44	9,931.47	9,764.60	166.87	59.516	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	37.36	1,782.50	1,360.92	8,144.46				
100.00	100.00	16,659.00	7,678.61	0.13	161.70	37.36	1,782.50	1,360.92	8,048.37	7,969.91	78.46	102.577	
200.00	200.00	16,659.00	7,678.61	0.49	161.70	37.36	1,782.50	1,360.92	7,952.38	7,873.86	78.52	101.278	
300.00	299.98	16,659.00	7,678.61	0.85	161.70	-35.94	1,782.50	1,360.92	7,856.09	7,777.50	78.59	99.963	
400.00	399.84	16,659.00	7,678.61	1.21	161.70	-40.84	1,782.50	1,360.92	7,759.15	7,680.49	78.66	98.642	
500.00	499.45	16,659.00	7,678.61	1.58	161.70	-46.90	1,782.50	1,360.92	7,661.67	7,582.95	78.72	97.332	
600.00	598.70	16,659.00	7,678.61	1.97	161.70	-54.38	1,782.50	1,360.92	7,563.74	7,484.98	78.76	96.034	
700.00	697.47	16,659.00	7,678.61	2.38	161.70	-63.47	1,782.50	1,360.92	7,465.47	7,386.68	78.79	94.752	
800.00	795.62	16,659.00	7,678.61	2.83	161.70	-74.13	1,782.50	1,360.92	7,366.96	7,288.16	78.80	93.487	
900.00	893.06	16,659.00	7,678.61	3.31	161.70	-85.88	1,782.50	1,360.92	7,268.33	7,189.53	78.80	92.240	
1,000.00	989.64	16,659.00	7,678.61	3.83	161.70	-97.82	1,782.50	1,360.92	7,169.70	7,090.92	78.78	91.012	
1,100.00	1,085.27	16,659.00	7,678.61	4.40	161.70	-108.96	1,782.50	1,360.92	7,071.18	6,992.44	78.74	89.804	
1,200.00	1,179.82	16,659.00	7,678.61	5.02	161.70	-118.66	1,782.50	1,360.92	6,972.92	6,894.23	78.69	88.614	
1,300.00	1,273.17	16,659.00	7,678.61	5.70	161.70	-126.72	1,782.50	1,360.92	6,875.03	6,796.40	78.62	87.443	
1,400.00	1,365.21	16,659.00	7,678.61	6.43	161.70	-133.27	1,782.50	1,360.92	6,777.66	6,699.11	78.55	86.287	
1,500.00	1,455.84	16,659.00	7,678.61	7.23	161.70	-138.56	1,782.50	1,360.92	6,680.95	6,602.48	78.46	85.146	
1,600.00	1,544.94	16,659.00	7,678.61	8.09	161.70	-142.85	1,782.50	1,360.92	6,585.05	6,506.67	78.38	84.017	
1,700.00	1,632.39	16,659.00	7,678.61	9.01	161.70	-146.35	1,782.50	1,360.92	6,490.11	6,411.82	78.29	82.895	
1,800.00	1,718.11	16,659.00	7,678.61	10.00	161.70	-149.24	1,782.50	1,360.92	6,396.31	6,318.09	78.22	81.777	
1,900.00	1,801.97	16,659.00	7,678.61	11.07	161.70	-151.64	1,782.50	1,360.92	6,303.80	6,225.65	78.15	80.659	
2,000.00	1,883.88	16,659.00	7,678.61	12.20	161.70	-153.67	1,782.50	1,360.92	6,212.76	6,134.64	78.11	79.538	
2,100.00	1,963.74	16,659.00	7,678.61	13.41	161.70	-155.38	1,782.50	1,360.92	6,123.36	6,045.26	78.10	78.409	
2,200.00	2,041.45	16,659.00	7,678.61	14.69	161.70	-156.85	1,782.50	1,360.92	6,035.79	5,957.68	78.11	77.269	
2,300.00	2,116.92	16,659.00	7,678.61	16.05	161.70	-158.12	1,782.50	1,360.92	5,950.25	5,872.07	78.18	76.114	
2,357.48	2,159.25	16,659.00	7,678.61	16.86	161.70	-158.77	1,782.50	1,360.92	5,902.06	5,823.84	78.23	75.446	
2,400.00	2,190.27	16,659.00	7,678.61	17.47	161.70	-158.77	1,782.50	1,360.92	5,866.75	5,788.47	78.28	74.942	
2,500.00	2,263.22	16,659.00	7,678.61	18.92	161.70	-158.77	1,782.50	1,360.92	5,784.08	5,705.63	78.45	73.725	
2,600.00	2,336.18	16,659.00	7,678.61	20.37	161.70	-158.77	1,782.50	1,360.92	5,701.97	5,623.30	78.67	72.479	
2,700.00	2,409.14	16,659.00	7,678.61	21.84	161.70	-158.77	1,782.50	1,360.92	5,620.43	5,541.50	78.93	71.206	
2,800.00	2,482.09	16,659.00	7,678.61	23.31	161.70	-158.77	1,782.50	1,360.92	5,539.50	5,460.26	79.24	69.909	
2,900.00	2,555.05	16,659.00	7,678.61	24.78	161.70	-158.77	1,782.50	1,360.92	5,459.20	5,379.61	79.60	68.587	
3,000.00	2,628.01	16,659.00	7,678.61	26.27	161.70	-158.77	1,782.50	1,360.92	5,379.56	5,299.56	80.00	67.243	
3,100.00	2,700.96	16,659.00	7,678.61	27.75	161.70	-158.77	1,782.50	1,360.92	5,300.61	5,220.15	80.46	65.877	
3,200.00	2,773.92	16,659.00	7,678.61	29.24	161.70	-158.77	1,782.50	1,360.92	5,222.39	5,141.41	80.98	64.490	
3,300.00	2,846.88	16,659.00	7,678.61	30.73	161.70	-158.77	1,782.50	1,360.92	5,144.92	5,063.36	81.56	63.084	
3,400.00	2,919.83	16,659.00	7,678.61	32.23	161.70	-158.77	1,782.50	1,360.92	5,068.23	4,986.03	82.20	61.659	
3,500.00	2,992.79	16,659.00	7,678.61	33.72	161.70	-158.77	1,782.50	1,360.92	4,992.37	4,909.47	82.91	60.216	
3,600.00	3,065.75	16,659.00	7,678.61	35.22	161.70	-158.77	1,782.50	1,360.92	4,917.38	4,833.69	83.69	58.757	
3,700.00	3,138.71	16,659.00	7,678.61	36.72	161.70	-158.77	1,782.50	1,360.92	4,843.29	4,758.74	84.55	57.283	
3,800.00	3,211.66	16,659.00	7,678.61	38.22	161.70	-158.77	1,782.50	1,360.92	4,770.14	4,684.65	85.49	55.796	
3,900.00	3,284.62	16,659.00	7,678.61	39.72	161.70	-158.77	1,782.50	1,360.92	4,697.99	4,611.47	86.52	54.299	
4,000.00	3,357.58	16,659.00	7,678.61	41.22	161.70	-158.77	1,782.50	1,360.92	4,626.87	4,539.23	87.64	52.794	
4,100.00	3,430.53	16,659.00	7,678.61	42.73	161.70	-158.77	1,782.50	1,360.92	4,556.83	4,467.97	88.86	51.283	
4,200.00	3,503.49	16,659.00	7,678.61	44.23	161.70	-158.77	1,782.50	1,360.92	4,487.93	4,397.76	90.18	49.769	
4,300.00	3,576.45	16,659.00	7,678.61	45.74	161.70	-158.77	1,782.50	1,360.92	4,420.22	4,328.62	91.60	48.256	
4,400.00	3,649.40	16,659.00	7,678.61	47.25	161.70	-158.77	1,782.50	1,360.92	4,353.75	4,260.62	93.13	46.747	
4,500.00	3,722.36	16,659.00	7,678.61	48.75	161.70	-158.77	1,782.50	1,360.92	4,288.59	4,193.81	94.78	45.246	
4,600.00	3,795.32	16,659.00	7,678.61	50.26	161.70	-158.77	1,782.50	1,360.92	4,224.79	4,128.23	96.55	43.757	
4,700.00	3,868.27	16,659.00	7,678.61	51.77	161.70	-158.77	1,782.50	1,360.92	4,162.41	4,063.97	98.44	42.283	
4,800.00	3,941.23	16,659.00	7,678.61	53.28	161.70	-158.77	1,782.50	1,360.92	4,101.52	4,001.06	100.46	40.829	
4,900.00	4,014.19	16,659.00	7,678.61	54.79	161.70	-158.77	1,782.50	1,360.92	4,042.19	3,939.59	102.60	39.399	
5,000.00	4,087.15	16,659.00	7,678.61	56.30	161.70	-158.77	1,782.50	1,360.92	3,984.48	3,879.62	104.86	37.997	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	16,659.00	7,678.61	57.81	161.70	-158.77	1,782.50	1,360.92	3,928.48	3,821.22	107.26	36.626	
5,200.00	4,233.06	16,659.00	7,678.61	59.32	161.70	-158.77	1,782.50	1,360.92	3,874.24	3,764.46	109.78	35.290	
5,300.00	4,306.02	16,659.00	7,678.61	60.83	161.70	-158.77	1,782.50	1,360.92	3,821.85	3,709.42	112.43	33.993	
5,400.00	4,378.97	16,659.00	7,678.61	62.34	161.70	-158.77	1,782.50	1,360.92	3,771.39	3,656.19	115.20	32.737	
5,500.00	4,451.93	16,659.00	7,678.61	63.85	161.70	-158.77	1,782.50	1,360.92	3,722.93	3,604.83	118.09	31.525	
5,600.00	4,524.89	16,659.00	7,678.61	65.36	161.70	-158.77	1,782.50	1,360.92	3,676.55	3,555.45	121.10	30.360	
5,700.00	4,597.84	16,659.00	7,678.61	66.88	161.70	-158.77	1,782.50	1,360.92	3,632.33	3,508.12	124.21	29.243	
5,800.00	4,670.80	16,659.00	7,678.61	68.39	161.70	-158.77	1,782.50	1,360.92	3,590.36	3,462.93	127.42	28.176	
5,900.00	4,743.76	16,659.00	7,678.61	69.90	161.70	-158.77	1,782.50	1,360.92	3,550.70	3,419.97	130.73	27.161	
6,000.00	4,816.71	16,659.00	7,678.61	71.41	161.70	-158.77	1,782.50	1,360.92	3,513.45	3,379.33	134.11	26.197	
6,100.00	4,889.67	16,659.00	7,678.61	72.93	161.70	-158.77	1,782.50	1,360.92	3,478.67	3,341.10	137.57	25.286	
6,200.00	4,962.63	16,659.00	7,678.61	74.44	161.70	-158.77	1,782.50	1,360.92	3,446.44	3,305.35	141.09	24.428	
6,300.00	5,035.59	16,659.00	7,678.61	75.95	161.70	-158.77	1,782.50	1,360.92	3,416.84	3,272.19	144.65	23.622	
6,400.00	5,108.54	16,659.00	7,678.61	77.47	161.70	-158.77	1,782.50	1,360.92	3,389.92	3,241.69	148.24	22.868	
6,500.00	5,181.50	16,659.00	7,678.61	78.98	161.70	-158.77	1,782.50	1,360.92	3,365.77	3,213.92	151.84	22.166	
6,600.00	5,254.46	16,659.00	7,678.61	80.49	161.70	-158.77	1,782.50	1,360.92	3,344.43	3,188.98	155.45	21.514	
6,700.00	5,327.41	16,659.00	7,678.61	82.01	161.70	-158.77	1,782.50	1,360.92	3,325.97	3,166.91	159.05	20.911	
6,800.00	5,400.37	16,659.00	7,678.61	83.52	161.70	-158.77	1,782.50	1,360.92	3,310.42	3,147.80	162.62	20.357	
6,900.00	5,473.33	16,659.00	7,678.61	85.04	161.70	-158.77	1,782.50	1,360.92	3,297.83	3,131.69	166.14	19.850	
7,000.00	5,546.28	16,659.00	7,678.61	86.55	161.70	-158.77	1,782.50	1,360.92	3,288.24	3,118.63	169.60	19.388	
7,100.00	5,619.24	16,659.00	7,678.61	88.06	161.70	-158.77	1,782.50	1,360.92	3,281.67	3,108.67	172.99	18.970	
7,200.00	5,692.20	16,659.00	7,678.61	89.58	161.70	-158.77	1,782.50	1,360.92	3,278.13	3,101.84	176.29	18.595	
7,265.90	5,740.28	16,659.00	7,678.61	90.58	161.70	-158.77	1,782.50	1,360.92	3,277.47	3,099.06	178.41	18.370	CC
7,300.00	5,765.15	16,659.00	7,678.61	91.09	161.70	-158.77	1,782.50	1,360.92	3,277.65	3,098.16	179.49	18.261	
7,400.00	5,838.11	16,659.00	7,678.61	92.61	161.70	-158.77	1,782.50	1,360.92	3,280.21	3,097.64	182.57	17.966	ES
7,500.00	5,911.07	16,659.00	7,678.61	94.12	161.70	-158.77	1,782.50	1,360.92	3,285.82	3,100.28	185.53	17.710	
7,600.00	5,984.03	16,659.00	7,678.61	95.64	161.70	-158.77	1,782.50	1,360.92	3,294.45	3,106.09	188.36	17.490	
7,700.00	6,056.98	16,659.00	7,678.61	97.15	161.70	-158.77	1,782.50	1,360.92	3,306.09	3,115.04	191.05	17.305	
7,800.00	6,129.94	16,659.00	7,678.61	98.67	161.70	-158.77	1,782.50	1,360.92	3,320.70	3,127.11	193.59	17.153	
7,900.00	6,202.90	16,659.00	7,678.61	100.18	161.70	-158.77	1,782.50	1,360.92	3,338.25	3,142.27	195.98	17.034	
8,000.00	6,275.85	16,659.00	7,678.61	101.70	161.70	-158.77	1,782.50	1,360.92	3,358.68	3,160.47	198.21	16.945	
8,100.00	6,348.81	16,659.00	7,678.61	103.21	161.70	-158.77	1,782.50	1,360.92	3,381.94	3,181.66	200.28	16.886	
8,200.00	6,421.77	16,659.00	7,678.61	104.73	161.70	-158.77	1,782.50	1,360.92	3,407.98	3,205.78	202.20	16.854	
8,300.00	6,494.72	16,659.00	7,678.61	106.24	161.70	-158.77	1,782.50	1,360.92	3,436.74	3,232.77	203.97	16.849	SF
8,400.00	6,567.68	16,659.00	7,678.61	107.76	161.70	-158.77	1,782.50	1,360.92	3,468.14	3,262.56	205.58	16.870	
8,500.00	6,640.64	16,659.00	7,678.61	109.27	161.70	-158.77	1,782.50	1,360.92	3,502.12	3,295.08	207.04	16.915	
8,600.00	6,713.59	16,659.00	7,678.61	110.79	161.70	-158.77	1,782.50	1,360.92	3,538.59	3,330.24	208.35	16.984	
8,700.00	6,786.55	16,648.77	7,678.49	112.30	161.52	-158.59	1,792.73	1,360.84	3,577.48	3,367.91	209.56	17.071	
8,800.00	6,859.51	16,625.96	7,678.22	113.82	161.12	-158.21	1,815.54	1,360.67	3,618.59	3,407.90	210.69	17.175	
8,900.00	6,932.46	16,603.48	7,677.96	115.33	160.73	-157.83	1,838.02	1,360.51	3,661.83	3,450.13	211.70	17.298	
9,000.00	7,005.42	16,581.37	7,677.74	116.85	160.35	-157.46	1,860.12	1,360.35	3,707.12	3,494.54	212.58	17.438	
9,104.89	7,081.95	16,557.77	7,677.57	118.44	159.94	-157.06	1,883.72	1,360.19	3,756.76	3,543.36	213.40	17.604	
9,150.00	7,115.15	16,549.18	7,677.52	119.12	159.79	-164.22	1,892.31	1,360.13	3,778.94	3,565.21	213.72	17.681	
9,200.00	7,152.46	16,543.61	7,677.49	119.86	159.69	-172.61	1,897.88	1,360.10	3,804.28	3,590.20	214.08	17.771	
9,250.00	7,190.04	16,542.29	7,677.49	120.57	159.67	178.69	1,899.20	1,360.09	3,830.24	3,615.83	214.41	17.864	
9,300.00	7,227.59	16,545.28	7,677.50	121.25	159.72	169.86	1,896.21	1,360.11	3,856.63	3,641.89	214.74	17.960	
9,350.00	7,264.83	16,552.62	7,677.54	121.89	159.85	161.10	1,888.87	1,360.15	3,883.21	3,668.16	215.04	18.058	
9,400.00	7,301.48	16,564.32	7,677.61	122.48	160.05	152.59	1,877.17	1,360.23	3,909.76	3,694.43	215.33	18.157	
9,450.00	7,337.26	16,580.34	7,677.73	123.01	160.33	144.48	1,861.16	1,360.34	3,936.05	3,720.44	215.60	18.256	
9,500.00	7,371.90	16,600.60	7,677.92	123.49	160.68	136.89	1,840.89	1,360.48	3,961.82	3,745.95	215.87	18.353	
9,550.00	7,405.13	16,625.00	7,678.22	123.91	161.10	129.89	1,816.49	1,360.67	3,986.84	3,770.72	216.12	18.447	
9,600.00	7,436.70	16,652.63	7,678.54	124.27	161.58	123.53	1,788.87	1,360.87	4,010.86	3,794.48	216.38	18.536	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	16,659.00	7,678.61	124.57	161.70	118.09	1,782.50	1,360.92	4,033.72	3,817.00	216.73	18.612	
9,700.00	7,493.91	16,659.00	7,678.61	124.81	161.70	113.33	1,782.50	1,360.92	4,055.40	3,838.30	217.10	18.680	
9,750.00	7,519.11	16,659.00	7,678.61	125.00	161.70	109.14	1,782.50	1,360.92	4,075.75	3,858.28	217.48	18.741	
9,800.00	7,541.79	16,659.00	7,678.61	125.12	161.70	105.49	1,782.50	1,360.92	4,094.65	3,876.78	217.87	18.794	
9,850.00	7,561.77	16,659.00	7,678.61	125.20	161.70	102.36	1,782.50	1,360.92	4,111.97	3,893.69	218.27	18.839	
9,900.00	7,578.90	16,659.00	7,678.61	125.23	161.70	99.71	1,782.50	1,360.92	4,127.59	3,908.90	218.69	18.874	
9,950.00	7,593.04	16,659.00	7,678.61	125.22	161.70	97.51	1,782.50	1,360.92	4,141.43	3,922.30	219.12	18.900	
10,000.00	7,604.09	16,659.00	7,678.61	125.17	161.70	95.75	1,782.50	1,360.92	4,153.38	3,933.81	219.57	18.916	
10,050.00	7,611.97	16,659.00	7,678.61	125.08	161.70	94.40	1,782.50	1,360.92	4,163.39	3,943.36	220.03	18.922	
10,100.00	7,616.61	16,659.00	7,678.61	124.97	161.70	93.45	1,782.50	1,360.92	4,171.38	3,950.87	220.51	18.917	
10,145.95	7,618.00	16,659.00	7,678.61	124.84	161.70	92.92	1,782.50	1,360.92	4,176.91	3,955.95	220.96	18.903	
10,200.00	7,618.00	16,659.00	7,678.61	124.69	161.70	92.92	1,782.50	1,360.92	4,182.72	3,961.23	221.49	18.885	
10,300.00	7,618.00	16,659.00	7,678.61	124.41	161.70	92.92	1,782.50	1,360.92	4,195.28	3,972.87	222.41	18.863	
10,400.00	7,618.00	16,659.00	7,678.61	124.14	161.70	92.92	1,782.50	1,360.92	4,210.18	3,986.93	223.25	18.858	
10,500.00	7,618.00	16,659.00	7,678.61	123.88	161.70	92.92	1,782.50	1,360.92	4,227.40	4,003.38	224.02	18.871	
10,600.00	7,618.00	16,659.00	7,678.61	123.63	161.70	92.92	1,782.50	1,360.92	4,246.90	4,022.19	224.71	18.900	
10,700.00	7,618.00	16,659.00	7,678.61	123.40	161.70	92.92	1,782.50	1,360.92	4,268.65	4,043.34	225.31	18.945	
10,800.00	7,618.00	16,659.00	7,678.61	123.18	161.70	92.92	1,782.50	1,360.92	4,292.63	4,066.79	225.84	19.008	
10,900.00	7,618.00	16,659.00	7,678.61	122.96	161.70	92.92	1,782.50	1,360.92	4,318.78	4,092.50	226.28	19.086	
11,000.00	7,618.00	16,659.00	7,678.61	122.76	161.70	92.92	1,782.50	1,360.92	4,347.09	4,120.44	226.64	19.181	
11,100.00	7,618.00	16,659.00	7,678.61	122.57	161.70	92.92	1,782.50	1,360.92	4,377.49	4,150.57	226.92	19.291	
11,200.00	7,618.00	16,659.00	7,678.61	122.39	161.70	92.92	1,782.50	1,360.92	4,409.95	4,182.82	227.13	19.416	
11,300.00	7,618.00	16,659.00	7,678.61	122.23	161.70	92.92	1,782.50	1,360.92	4,444.42	4,217.17	227.25	19.557	
11,400.00	7,618.00	16,659.00	7,678.61	122.07	161.70	92.92	1,782.50	1,360.92	4,480.87	4,253.56	227.30	19.713	
11,500.00	7,618.00	16,659.00	7,678.61	121.93	161.70	92.92	1,782.50	1,360.92	4,519.23	4,291.94	227.28	19.884	
11,600.00	7,618.00	16,659.00	7,678.61	121.79	161.70	92.92	1,782.50	1,360.92	4,559.46	4,332.26	227.20	20.068	
11,700.00	7,618.00	16,659.00	7,678.61	121.67	161.70	92.92	1,782.50	1,360.92	4,601.51	4,374.47	227.04	20.267	
11,800.00	7,618.00	16,659.00	7,678.61	121.56	161.70	92.92	1,782.50	1,360.92	4,645.34	4,418.51	226.83	20.480	
11,900.00	7,618.00	16,659.00	7,678.61	121.46	161.70	92.92	1,782.50	1,360.92	4,690.89	4,464.34	226.55	20.706	
12,000.00	7,618.00	16,659.00	7,678.61	121.38	161.70	92.92	1,782.50	1,360.92	4,738.11	4,511.89	226.22	20.945	
12,100.00	7,618.00	16,659.00	7,678.61	121.30	161.70	92.92	1,782.50	1,360.92	4,786.95	4,561.12	225.83	21.197	
12,200.00	7,618.00	16,659.00	7,678.61	121.24	161.70	92.92	1,782.50	1,360.92	4,837.37	4,611.97	225.40	21.461	
12,300.00	7,618.00	16,659.00	7,678.61	121.19	161.70	92.92	1,782.50	1,360.92	4,889.32	4,664.40	224.92	21.738	
12,400.00	7,618.00	16,659.00	7,678.61	121.16	161.70	92.92	1,782.50	1,360.92	4,942.74	4,718.34	224.40	22.027	
12,500.00	7,618.00	16,659.00	7,678.61	121.14	161.70	92.92	1,782.50	1,360.92	4,997.59	4,773.76	223.84	22.327	
12,600.00	7,618.00	16,659.00	7,678.61	121.13	161.70	92.92	1,782.50	1,360.92	5,053.83	4,830.59	223.24	22.638	
12,700.00	7,618.00	16,659.00	7,678.61	121.13	161.70	92.92	1,782.50	1,360.92	5,111.40	4,888.79	222.61	22.961	
12,800.00	7,618.00	16,659.00	7,678.61	121.15	161.70	92.92	1,782.50	1,360.92	5,170.27	4,948.32	221.95	23.294	
12,900.00	7,618.00	16,659.00	7,678.61	121.18	161.70	92.92	1,782.50	1,360.92	5,230.39	5,009.12	221.27	23.638	
13,000.00	7,618.00	16,659.00	7,678.61	121.23	161.70	92.92	1,782.50	1,360.92	5,291.71	5,071.15	220.56	23.992	
13,100.00	7,618.00	16,659.00	7,678.61	121.29	161.70	92.92	1,782.50	1,360.92	5,354.20	5,134.38	219.83	24.357	
13,200.00	7,618.00	16,659.00	7,678.61	121.37	161.70	92.92	1,782.50	1,360.92	5,417.82	5,198.74	219.07	24.730	
13,300.00	7,618.00	16,659.00	7,678.61	121.46	161.70	92.92	1,782.50	1,360.92	5,482.52	5,264.21	218.31	25.114	
13,400.00	7,618.00	16,659.00	7,678.61	121.57	161.70	92.92	1,782.50	1,360.92	5,548.26	5,330.74	217.52	25.506	
13,500.00	7,618.00	16,659.00	7,678.61	121.70	161.70	92.92	1,782.50	1,360.92	5,615.02	5,398.29	216.73	25.908	
13,600.00	7,618.00	16,659.00	7,678.61	121.84	161.70	92.92	1,782.50	1,360.92	5,682.76	5,466.83	215.92	26.318	
13,700.00	7,618.00	16,659.00	7,678.61	122.01	161.70	92.92	1,782.50	1,360.92	5,751.43	5,536.32	215.11	26.737	
13,800.00	7,618.00	16,659.00	7,678.61	122.19	161.70	92.92	1,782.50	1,360.92	5,821.02	5,606.73	214.29	27.164	
13,900.00	7,618.00	16,659.00	7,678.61	122.39	161.70	92.92	1,782.50	1,360.92	5,891.48	5,678.01	213.46	27.600	
14,000.00	7,618.00	16,659.00	7,678.61	122.62	161.70	92.92	1,782.50	1,360.92	5,962.78	5,750.15	212.63	28.043	
14,100.00	7,618.00	16,659.00	7,678.61	122.86	161.70	92.92	1,782.50	1,360.92	6,034.90	5,823.10	211.80	28.494	
14,200.00	7,618.00	16,659.00	7,678.61	123.12	161.70	92.92	1,782.50	1,360.92	6,107.80	5,896.84	210.96	28.952	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	16,659.00	7,678.61	123.41	161.70	92.92	1,782.50	1,360.92	6,181.46	5,971.34	210.13	29.418	
14,400.00	7,618.00	16,659.00	7,678.61	123.72	161.70	92.92	1,782.50	1,360.92	6,255.86	6,046.56	209.29	29.890	
14,500.00	7,618.00	16,659.00	7,678.61	124.06	161.70	92.92	1,782.50	1,360.92	6,330.96	6,122.50	208.46	30.370	
14,600.00	7,618.00	16,659.00	7,678.61	124.42	161.70	92.92	1,782.50	1,360.92	6,406.74	6,199.11	207.63	30.856	
14,700.00	7,618.00	16,659.00	7,678.61	124.80	161.70	92.92	1,782.50	1,360.92	6,483.17	6,276.37	206.80	31.349	
14,800.00	7,618.00	16,659.00	7,678.61	125.21	161.70	92.92	1,782.50	1,360.92	6,560.24	6,354.26	205.98	31.849	
14,900.00	7,618.00	16,659.00	7,678.61	125.65	161.70	92.92	1,782.50	1,360.92	6,637.92	6,432.76	205.16	32.354	
15,000.00	7,618.00	16,659.00	7,678.61	126.11	161.70	92.92	1,782.50	1,360.92	6,716.20	6,511.84	204.35	32.866	
15,100.00	7,618.00	16,659.00	7,678.61	126.61	161.70	92.92	1,782.50	1,360.92	6,795.04	6,591.49	203.55	33.383	
15,200.00	7,618.00	16,659.00	7,678.61	127.13	161.70	92.92	1,782.50	1,360.92	6,874.43	6,671.68	202.75	33.906	
15,300.00	7,618.00	16,659.00	7,678.61	127.68	161.70	92.92	1,782.50	1,360.92	6,954.35	6,752.40	201.95	34.435	
15,400.00	7,618.00	16,659.00	7,678.61	128.26	161.70	92.92	1,782.50	1,360.92	7,034.79	6,833.62	201.17	34.970	
15,500.00	7,618.00	16,659.00	7,678.61	128.87	161.70	92.92	1,782.50	1,360.92	7,115.73	6,915.33	200.39	35.509	
15,600.00	7,618.00	16,659.00	7,678.61	129.51	161.70	92.92	1,782.50	1,360.92	7,197.14	6,997.52	199.62	36.054	
15,700.00	7,618.00	16,659.00	7,678.61	130.18	161.70	92.92	1,782.50	1,360.92	7,279.01	7,080.15	198.86	36.604	
15,800.00	7,618.00	16,659.00	7,678.61	130.88	161.70	92.92	1,782.50	1,360.92	7,361.34	7,163.23	198.11	37.158	
15,900.00	7,618.00	16,659.00	7,678.61	131.61	161.70	92.92	1,782.50	1,360.92	7,444.10	7,246.73	197.36	37.718	
16,000.00	7,618.00	16,659.00	7,678.61	132.37	161.70	92.92	1,782.50	1,360.92	7,527.27	7,330.64	196.63	38.282	
16,100.00	7,618.00	16,659.00	7,678.61	133.17	161.70	92.92	1,782.50	1,360.92	7,610.85	7,414.95	195.90	38.851	
16,200.00	7,618.00	16,659.00	7,678.61	133.99	161.70	92.92	1,782.50	1,360.92	7,694.82	7,499.64	195.18	39.424	
16,300.00	7,618.00	16,659.00	7,678.61	134.84	161.70	92.92	1,782.50	1,360.92	7,779.18	7,584.70	194.47	40.001	
16,400.00	7,618.00	16,659.00	7,678.61	135.72	161.70	92.92	1,782.50	1,360.92	7,863.89	7,670.12	193.77	40.583	
16,500.00	7,618.00	16,659.00	7,678.61	136.63	161.70	92.92	1,782.50	1,360.92	7,948.97	7,755.88	193.08	41.168	
16,600.00	7,618.00	16,659.00	7,678.61	137.57	161.70	92.92	1,782.50	1,360.92	8,034.38	7,841.98	192.40	41.758	
16,700.00	7,618.00	16,659.00	7,678.61	138.54	161.70	92.92	1,782.50	1,360.92	8,120.13	7,928.40	191.73	42.352	
16,800.00	7,618.00	16,659.00	7,678.61	139.53	161.70	92.92	1,782.50	1,360.92	8,206.21	8,015.14	191.07	42.949	
16,900.00	7,618.00	16,659.00	7,678.61	140.55	161.70	92.92	1,782.50	1,360.92	8,292.59	8,102.18	190.42	43.550	
17,000.00	7,618.00	16,659.00	7,678.61	141.60	161.70	92.92	1,782.50	1,360.92	8,379.28	8,189.51	189.77	44.155	
17,100.00	7,618.00	16,659.00	7,678.61	142.67	161.70	92.92	1,782.50	1,360.92	8,466.26	8,277.13	189.14	44.763	
17,200.00	7,618.00	16,659.00	7,678.61	143.77	161.70	92.92	1,782.50	1,360.92	8,553.53	8,365.02	188.51	45.374	
17,300.00	7,618.00	16,659.00	7,678.61	144.88	161.70	92.92	1,782.50	1,360.92	8,641.07	8,453.18	187.90	45.989	
17,400.00	7,618.00	16,659.00	7,678.61	146.02	161.70	92.92	1,782.50	1,360.92	8,728.88	8,541.59	187.29	46.607	
17,500.00	7,618.00	16,659.00	7,678.61	147.19	161.70	92.92	1,782.50	1,360.92	8,816.95	8,630.26	186.69	47.228	
17,600.00	7,618.00	16,659.00	7,678.61	148.37	161.70	92.92	1,782.50	1,360.92	8,905.27	8,719.17	186.10	47.852	
17,700.00	7,618.00	16,659.00	7,678.61	149.57	161.70	92.92	1,782.50	1,360.92	8,993.84	8,808.32	185.52	48.479	
17,800.00	7,618.00	16,659.00	7,678.61	150.79	161.70	92.92	1,782.50	1,360.92	9,082.64	8,897.69	184.95	49.109	
17,900.00	7,618.00	16,659.00	7,678.61	152.03	161.70	92.92	1,782.50	1,360.92	9,171.68	8,987.29	184.38	49.742	
18,000.00	7,618.00	16,659.00	7,678.61	153.29	161.70	92.92	1,782.50	1,360.92	9,260.93	9,077.10	183.83	50.378	
18,100.00	7,618.00	16,659.00	7,678.61	154.57	161.70	92.92	1,782.50	1,360.92	9,350.41	9,167.12	183.28	51.016	
18,200.00	7,618.00	16,659.00	7,678.61	155.86	161.70	92.92	1,782.50	1,360.92	9,440.09	9,257.35	182.75	51.657	
18,300.00	7,618.00	16,659.00	7,678.61	157.17	161.70	92.92	1,782.50	1,360.92	9,529.99	9,347.77	182.22	52.301	
18,400.00	7,618.00	16,659.00	7,678.61	158.49	161.70	92.92	1,782.50	1,360.92	9,620.08	9,438.38	181.69	52.946	
18,500.00	7,618.00	16,659.00	7,678.61	159.82	161.70	92.92	1,782.50	1,360.92	9,710.36	9,529.18	181.18	53.595	
18,600.00	7,618.00	16,659.00	7,678.61	161.17	161.70	92.92	1,782.50	1,360.92	9,800.84	9,620.16	180.68	54.245	
18,700.00	7,618.00	16,659.00	7,678.61	162.54	161.70	92.92	1,782.50	1,360.92	9,891.49	9,711.32	180.18	54.898	
18,800.00	7,618.00	16,659.00	7,678.61	163.91	161.70	92.92	1,782.50	1,360.92	9,982.33	9,802.64	179.69	55.554	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	41.32	1,780.16	1,564.91	8,287.14				
100.00	100.00	16,530.00	7,789.95	0.13	159.85	41.32	1,780.16	1,564.91	8,191.37	8,114.44	76.93	106.479	
200.00	200.00	16,530.00	7,789.95	0.49	159.85	41.32	1,780.16	1,564.91	8,095.70	8,018.68	77.01	105.120	
300.00	299.98	16,530.00	7,789.95	0.85	159.85	-31.40	1,780.16	1,564.91	7,999.69	7,922.58	77.11	103.743	
400.00	399.84	16,530.00	7,789.95	1.21	159.85	-35.59	1,780.16	1,564.91	7,902.99	7,825.78	77.21	102.359	
500.00	499.45	16,530.00	7,789.95	1.58	159.85	-40.83	1,780.16	1,564.91	7,805.67	7,728.37	77.29	100.988	
600.00	598.70	16,530.00	7,789.95	1.97	159.85	-47.40	1,780.16	1,564.91	7,707.83	7,630.47	77.36	99.632	
700.00	697.47	16,530.00	7,789.95	2.38	159.85	-55.65	1,780.16	1,564.91	7,609.58	7,532.17	77.42	98.293	
800.00	795.62	16,530.00	7,789.95	2.83	159.85	-65.79	1,780.16	1,564.91	7,511.03	7,433.58	77.45	96.974	
900.00	893.06	16,530.00	7,789.95	3.31	159.85	-77.68	1,780.16	1,564.91	7,412.28	7,334.81	77.47	95.677	
1,000.00	989.64	16,530.00	7,789.95	3.83	159.85	-90.57	1,780.16	1,564.91	7,313.44	7,235.97	77.47	94.402	
1,100.00	1,085.27	16,530.00	7,789.95	4.40	159.85	-103.23	1,780.16	1,564.91	7,214.65	7,137.19	77.45	93.150	
1,200.00	1,179.82	16,530.00	7,789.95	5.02	159.85	-114.55	1,780.16	1,564.91	7,116.01	7,038.60	77.41	91.921	
1,300.00	1,273.17	16,530.00	7,789.95	5.70	159.85	-124.01	1,780.16	1,564.91	7,017.67	6,940.31	77.36	90.715	
1,400.00	1,365.21	16,530.00	7,789.95	6.43	159.85	-131.63	1,780.16	1,564.91	6,919.75	6,842.46	77.29	89.531	
1,500.00	1,455.84	16,530.00	7,789.95	7.23	159.85	-137.69	1,780.16	1,564.91	6,822.40	6,745.19	77.21	88.366	
1,600.00	1,544.94	16,530.00	7,789.95	8.09	159.85	-142.52	1,780.16	1,564.91	6,725.76	6,648.64	77.11	87.217	
1,700.00	1,632.39	16,530.00	7,789.95	9.01	159.85	-146.39	1,780.16	1,564.91	6,629.98	6,552.96	77.02	86.083	
1,800.00	1,718.11	16,530.00	7,789.95	10.00	159.85	-149.54	1,780.16	1,564.91	6,535.23	6,458.31	76.92	84.959	
1,900.00	1,801.97	16,530.00	7,789.95	11.07	159.85	-152.13	1,780.16	1,564.91	6,441.66	6,364.82	76.83	83.842	
2,000.00	1,883.88	16,530.00	7,789.95	12.20	159.85	-154.28	1,780.16	1,564.91	6,349.44	6,272.68	76.75	82.727	
2,100.00	1,963.74	16,530.00	7,789.95	13.41	159.85	-156.09	1,780.16	1,564.91	6,258.74	6,182.05	76.69	81.609	
2,200.00	2,041.45	16,530.00	7,789.95	14.69	159.85	-157.62	1,780.16	1,564.91	6,169.76	6,093.10	76.66	80.485	
2,300.00	2,116.92	16,530.00	7,789.95	16.05	159.85	-158.93	1,780.16	1,564.91	6,082.67	6,006.01	76.65	79.352	
2,357.48	2,159.25	16,530.00	7,789.95	16.86	159.85	-159.60	1,780.16	1,564.91	6,033.54	5,956.87	76.67	78.698	
2,400.00	2,190.27	16,530.00	7,789.95	17.47	159.85	-159.60	1,780.16	1,564.91	5,997.50	5,920.81	76.69	78.204	
2,500.00	2,263.22	16,530.00	7,789.95	18.92	159.85	-159.60	1,780.16	1,564.91	5,913.09	5,836.30	76.78	77.011	
2,600.00	2,336.18	16,530.00	7,789.95	20.37	159.85	-159.60	1,780.16	1,564.91	5,829.17	5,752.25	76.91	75.788	
2,700.00	2,409.14	16,530.00	7,789.95	21.84	159.85	-159.60	1,780.16	1,564.91	5,745.76	5,668.68	77.09	74.538	
2,800.00	2,482.09	16,530.00	7,789.95	23.31	159.85	-159.60	1,780.16	1,564.91	5,662.89	5,585.60	77.30	73.262	
2,900.00	2,555.05	16,530.00	7,789.95	24.78	159.85	-159.60	1,780.16	1,564.91	5,580.59	5,503.04	77.55	71.962	
3,000.00	2,628.01	16,530.00	7,789.95	26.27	159.85	-159.60	1,780.16	1,564.91	5,498.86	5,421.02	77.85	70.638	
3,100.00	2,700.96	16,530.00	7,789.95	27.75	159.85	-159.60	1,780.16	1,564.91	5,417.76	5,339.57	78.19	69.292	
3,200.00	2,773.92	16,530.00	7,789.95	29.24	159.85	-159.60	1,780.16	1,564.91	5,337.29	5,258.71	78.58	67.924	
3,300.00	2,846.88	16,530.00	7,789.95	30.73	159.85	-159.60	1,780.16	1,564.91	5,257.50	5,178.48	79.02	66.534	
3,400.00	2,919.83	16,530.00	7,789.95	32.23	159.85	-159.60	1,780.16	1,564.91	5,178.40	5,098.89	79.52	65.124	
3,500.00	2,992.79	16,530.00	7,789.95	33.72	159.85	-159.60	1,780.16	1,564.91	5,100.04	5,019.97	80.07	63.693	
3,600.00	3,065.75	16,530.00	7,789.95	35.22	159.85	-159.60	1,780.16	1,564.91	5,022.45	4,941.76	80.69	62.243	
3,700.00	3,138.71	16,530.00	7,789.95	36.72	159.85	-159.60	1,780.16	1,564.91	4,945.66	4,864.29	81.38	60.775	
3,800.00	3,211.66	16,530.00	7,789.95	38.22	159.85	-159.60	1,780.16	1,564.91	4,869.72	4,787.59	82.13	59.289	
3,900.00	3,284.62	16,530.00	7,789.95	39.72	159.85	-159.60	1,780.16	1,564.91	4,794.66	4,711.69	82.97	57.788	
4,000.00	3,357.58	16,530.00	7,789.95	41.22	159.85	-159.60	1,780.16	1,564.91	4,720.52	4,636.64	83.89	56.273	
4,100.00	3,430.53	16,530.00	7,789.95	42.73	159.85	-159.60	1,780.16	1,564.91	4,647.36	4,562.47	84.89	54.747	
4,200.00	3,503.49	16,530.00	7,789.95	44.23	159.85	-159.60	1,780.16	1,564.91	4,575.21	4,489.22	85.98	53.210	
4,300.00	3,576.45	16,530.00	7,789.95	45.74	159.85	-159.60	1,780.16	1,564.91	4,504.12	4,416.94	87.18	51.667	
4,400.00	3,649.40	16,530.00	7,789.95	47.25	159.85	-159.60	1,780.16	1,564.91	4,434.15	4,345.68	88.47	50.120	
4,500.00	3,722.36	16,530.00	7,789.95	48.75	159.85	-159.60	1,780.16	1,564.91	4,365.35	4,275.47	89.87	48.573	
4,600.00	3,795.32	16,530.00	7,789.95	50.26	159.85	-159.60	1,780.16	1,564.91	4,297.77	4,206.38	91.39	47.028	
4,700.00	3,868.27	16,530.00	7,789.95	51.77	159.85	-159.60	1,780.16	1,564.91	4,231.48	4,138.46	93.02	45.491	
4,800.00	3,941.23	16,530.00	7,789.95	53.28	159.85	-159.60	1,780.16	1,564.91	4,166.53	4,071.76	94.77	43.964	
4,900.00	4,014.19	16,530.00	7,789.95	54.79	159.85	-159.60	1,780.16	1,564.91	4,103.00	4,006.35	96.65	42.453	
5,000.00	4,087.15	16,530.00	7,789.95	56.30	159.85	-159.60	1,780.16	1,564.91	4,040.94	3,942.28	98.65	40.961	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	16,530.00	7,789.95	57.81	159.85	-159.60	1,780.16	1,564.91	3,980.42	3,879.63	100.79	39.492	
5,200.00	4,233.06	16,530.00	7,789.95	59.32	159.85	-159.60	1,780.16	1,564.91	3,921.52	3,818.46	103.06	38.052	
5,300.00	4,306.02	16,530.00	7,789.95	60.83	159.85	-159.60	1,780.16	1,564.91	3,864.31	3,758.86	105.46	36.643	
5,400.00	4,378.97	16,530.00	7,789.95	62.34	159.85	-159.60	1,780.16	1,564.91	3,808.87	3,700.88	107.99	35.270	
5,500.00	4,451.93	16,530.00	7,789.95	63.85	159.85	-159.60	1,780.16	1,564.91	3,755.27	3,644.62	110.65	33.937	
5,600.00	4,524.89	16,530.00	7,789.95	65.36	159.85	-159.60	1,780.16	1,564.91	3,703.60	3,590.16	113.45	32.646	
5,700.00	4,597.84	16,530.00	7,789.95	66.88	159.85	-159.60	1,780.16	1,564.91	3,653.94	3,537.57	116.36	31.401	
5,800.00	4,670.80	16,530.00	7,789.95	68.39	159.85	-159.60	1,780.16	1,564.91	3,606.36	3,486.96	119.40	30.204	
5,900.00	4,743.76	16,530.00	7,789.95	69.90	159.85	-159.60	1,780.16	1,564.91	3,560.96	3,438.41	122.55	29.058	
6,000.00	4,816.71	16,530.00	7,789.95	71.41	159.85	-159.60	1,780.16	1,564.91	3,517.81	3,392.01	125.80	27.963	
6,100.00	4,889.67	16,530.00	7,789.95	72.93	159.85	-159.60	1,780.16	1,564.91	3,477.01	3,347.85	129.16	26.921	
6,200.00	4,962.63	16,530.00	7,789.95	74.44	159.85	-159.60	1,780.16	1,564.91	3,438.63	3,306.03	132.59	25.934	
6,300.00	5,035.59	16,530.00	7,789.95	75.95	159.85	-159.60	1,780.16	1,564.91	3,402.76	3,266.65	136.11	25.001	
6,400.00	5,108.54	16,530.00	7,789.95	77.47	159.85	-159.60	1,780.16	1,564.91	3,369.47	3,229.79	139.68	24.122	
6,500.00	5,181.50	16,530.00	7,789.95	78.98	159.85	-159.60	1,780.16	1,564.91	3,338.85	3,195.54	143.31	23.298	
6,600.00	5,254.46	16,530.00	7,789.95	80.49	159.85	-159.60	1,780.16	1,564.91	3,310.97	3,164.00	146.97	22.529	
6,700.00	5,327.41	16,530.00	7,789.95	82.01	159.85	-159.60	1,780.16	1,564.91	3,285.89	3,135.25	150.64	21.812	
6,800.00	5,400.37	16,530.00	7,789.95	83.52	159.85	-159.60	1,780.16	1,564.91	3,263.69	3,109.37	154.32	21.149	
6,900.00	5,473.33	16,530.00	7,789.95	85.04	159.85	-159.60	1,780.16	1,564.91	3,244.42	3,086.43	157.99	20.536	
7,000.00	5,546.28	16,530.00	7,789.95	86.55	159.85	-159.60	1,780.16	1,564.91	3,228.13	3,066.51	161.62	19.973	
7,100.00	5,619.24	16,530.00	7,789.95	88.06	159.85	-159.60	1,780.16	1,564.91	3,214.87	3,049.66	165.21	19.460	
7,200.00	5,692.20	16,530.00	7,789.95	89.58	159.85	-159.60	1,780.16	1,564.91	3,204.68	3,035.95	168.73	18.993	
7,300.00	5,765.15	16,530.00	7,789.95	91.09	159.85	-159.60	1,780.16	1,564.91	3,197.59	3,025.41	172.18	18.572	
7,400.00	5,838.11	16,530.00	7,789.95	92.61	159.85	-159.60	1,780.16	1,564.91	3,193.61	3,018.09	175.53	18.194	
7,477.09	5,894.35	16,530.00	7,789.95	93.78	159.85	-159.60	1,780.16	1,564.91	3,192.68	3,014.65	178.04	17.933	CC
7,500.00	5,911.07	16,530.00	7,789.95	94.12	159.85	-159.60	1,780.16	1,564.91	3,192.76	3,014.00	178.77	17.860	
7,600.00	5,984.03	16,530.00	7,789.95	95.64	159.85	-159.60	1,780.16	1,564.91	3,195.05	3,013.16	181.89	17.566	ES
7,700.00	6,056.98	16,530.00	7,789.95	97.15	159.85	-159.60	1,780.16	1,564.91	3,200.45	3,015.57	184.88	17.311	
7,800.00	6,129.94	16,530.00	7,789.95	98.67	159.85	-159.60	1,780.16	1,564.91	3,208.97	3,021.24	187.73	17.094	
7,900.00	6,202.90	16,530.00	7,789.95	100.18	159.85	-159.60	1,780.16	1,564.91	3,220.57	3,030.15	190.42	16.913	
8,000.00	6,275.85	16,530.00	7,789.95	101.70	159.85	-159.60	1,780.16	1,564.91	3,235.22	3,042.25	192.97	16.766	
8,100.00	6,348.81	16,530.00	7,789.95	103.21	159.85	-159.60	1,780.16	1,564.91	3,252.88	3,057.53	195.35	16.652	
8,200.00	6,421.77	16,530.00	7,789.95	104.73	159.85	-159.60	1,780.16	1,564.91	3,273.50	3,075.94	197.56	16.569	
8,300.00	6,494.72	16,530.00	7,789.95	106.24	159.85	-159.60	1,780.16	1,564.91	3,297.03	3,097.41	199.62	16.517	
8,400.00	6,567.68	16,530.00	7,789.95	107.76	159.85	-159.60	1,780.16	1,564.91	3,323.40	3,121.90	201.50	16.493	SF
8,500.00	6,640.64	16,530.00	7,789.95	109.27	159.85	-159.60	1,780.16	1,564.91	3,352.55	3,149.32	203.22	16.497	
8,600.00	6,713.59	16,530.00	7,789.95	110.79	159.85	-159.60	1,780.16	1,564.91	3,384.40	3,179.61	204.79	16.526	
8,700.00	6,786.55	16,530.00	7,789.95	112.30	159.85	-159.60	1,780.16	1,564.91	3,418.88	3,212.69	206.19	16.581	
8,800.00	6,859.51	16,530.00	7,789.95	113.82	159.85	-159.60	1,780.16	1,564.91	3,455.91	3,248.46	207.45	16.659	
8,900.00	6,932.46	16,530.00	7,789.95	115.33	159.85	-159.60	1,780.16	1,564.91	3,495.41	3,286.86	208.55	16.760	
9,000.00	7,005.42	16,530.00	7,789.95	116.85	159.85	-159.60	1,780.16	1,564.91	3,537.30	3,327.78	209.52	16.883	
9,104.89	7,081.95	16,530.00	7,789.95	118.44	159.85	-159.60	1,780.16	1,564.91	3,583.71	3,373.31	210.40	17.033	
9,150.00	7,115.15	16,530.00	7,789.95	119.12	159.85	-166.72	1,780.16	1,564.91	3,604.53	3,393.79	210.75	17.104	
9,200.00	7,152.46	16,530.00	7,789.95	119.86	159.85	-174.97	1,780.16	1,564.91	3,628.29	3,417.13	211.15	17.183	
9,250.00	7,190.04	16,530.00	7,789.95	120.57	159.85	176.57	1,780.16	1,564.91	3,652.55	3,440.99	211.57	17.264	
9,300.00	7,227.59	16,530.00	7,789.95	121.25	159.85	168.08	1,780.16	1,564.91	3,677.15	3,465.16	211.99	17.346	
9,350.00	7,264.83	16,530.00	7,789.95	121.89	159.85	159.74	1,780.16	1,564.91	3,701.87	3,489.46	212.41	17.428	
9,400.00	7,301.48	16,530.00	7,789.95	122.48	159.85	151.73	1,780.16	1,564.91	3,726.54	3,513.70	212.84	17.509	
9,450.00	7,337.26	16,530.00	7,789.95	123.01	159.85	144.17	1,780.16	1,564.91	3,750.96	3,537.70	213.27	17.588	
9,500.00	7,371.90	16,530.00	7,789.95	123.49	159.85	137.14	1,780.16	1,564.91	3,774.97	3,561.27	213.70	17.665	
9,550.00	7,405.13	16,530.00	7,789.95	123.91	159.85	130.69	1,780.16	1,564.91	3,798.38	3,584.25	214.13	17.739	
9,600.00	7,436.70	16,530.00	7,789.95	124.27	159.85	124.85	1,780.16	1,564.91	3,821.03	3,606.47	214.56	17.809	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	16,530.00	7,789.95	124.57	159.85	119.61	1,780.16	1,564.91	3,842.76	3,627.77	214.99	17.874	
9,700.00	7,493.91	16,530.00	7,789.95	124.81	159.85	114.94	1,780.16	1,564.91	3,863.43	3,647.99	215.43	17.933	
9,750.00	7,519.11	16,530.00	7,789.95	125.00	159.85	110.83	1,780.16	1,564.91	3,882.89	3,667.01	215.88	17.986	
9,800.00	7,541.79	16,530.00	7,789.95	125.12	159.85	107.24	1,780.16	1,564.91	3,901.02	3,684.69	216.33	18.033	
9,850.00	7,561.77	16,530.00	7,789.95	125.20	159.85	104.14	1,780.16	1,564.91	3,917.69	3,700.91	216.79	18.071	
9,900.00	7,578.90	16,530.00	7,789.95	125.23	159.85	101.51	1,780.16	1,564.91	3,932.81	3,715.55	217.26	18.102	
9,950.00	7,593.04	16,530.00	7,789.95	125.22	159.85	99.33	1,780.16	1,564.91	3,946.27	3,728.53	217.74	18.124	
10,000.00	7,604.09	16,530.00	7,789.95	125.17	159.85	97.56	1,780.16	1,564.91	3,957.99	3,739.76	218.23	18.137	
10,050.00	7,611.97	16,530.00	7,789.95	125.08	159.85	96.20	1,780.16	1,564.91	3,967.89	3,749.16	218.73	18.140	
10,100.00	7,616.61	16,530.00	7,789.95	124.97	159.85	95.23	1,780.16	1,564.91	3,975.91	3,756.67	219.24	18.135	
10,145.95	7,618.00	16,530.00	7,789.95	124.84	159.85	94.68	1,780.16	1,564.91	3,981.59	3,761.87	219.72	18.121	
10,200.00	7,618.00	16,530.00	7,789.95	124.69	159.85	94.68	1,780.16	1,564.91	3,987.66	3,767.39	220.28	18.103	
10,300.00	7,618.00	16,530.00	7,789.95	124.41	159.85	94.68	1,780.16	1,564.91	4,000.80	3,779.55	221.24	18.083	
10,400.00	7,618.00	16,530.00	7,789.95	124.14	159.85	94.68	1,780.16	1,564.91	4,016.38	3,794.26	222.12	18.082	
10,500.00	7,618.00	16,530.00	7,789.95	123.88	159.85	94.68	1,780.16	1,564.91	4,034.38	3,811.47	222.91	18.098	
10,600.00	7,618.00	16,530.00	7,789.95	123.63	159.85	94.68	1,780.16	1,564.91	4,054.77	3,831.15	223.62	18.133	
10,700.00	7,618.00	16,530.00	7,789.95	123.40	159.85	94.68	1,780.16	1,564.91	4,077.51	3,853.28	224.23	18.184	
10,800.00	7,618.00	16,530.00	7,789.95	123.18	159.85	94.68	1,780.16	1,564.91	4,102.56	3,877.81	224.75	18.254	
10,900.00	7,618.00	16,530.00	7,789.95	122.96	159.85	94.68	1,780.16	1,564.91	4,129.88	3,904.70	225.18	18.340	
11,000.00	7,618.00	16,530.00	7,789.95	122.76	159.85	94.68	1,780.16	1,564.91	4,159.43	3,933.90	225.53	18.443	
11,100.00	7,618.00	16,530.00	7,789.95	122.57	159.85	94.68	1,780.16	1,564.91	4,191.15	3,965.37	225.78	18.563	
11,200.00	7,618.00	16,530.00	7,789.95	122.39	159.85	94.68	1,780.16	1,564.91	4,225.01	3,999.06	225.95	18.699	
11,300.00	7,618.00	16,530.00	7,789.95	122.23	159.85	94.68	1,780.16	1,564.91	4,260.94	4,034.91	226.03	18.851	
11,400.00	7,618.00	16,530.00	7,789.95	122.07	159.85	94.68	1,780.16	1,564.91	4,298.90	4,072.86	226.04	19.018	
11,500.00	7,618.00	16,530.00	7,789.95	121.93	159.85	94.68	1,780.16	1,564.91	4,338.83	4,112.86	225.97	19.201	
11,600.00	7,618.00	16,530.00	7,789.95	121.79	159.85	94.68	1,780.16	1,564.91	4,380.68	4,154.86	225.82	19.399	
11,700.00	7,618.00	16,530.00	7,789.95	121.67	159.85	94.68	1,780.16	1,564.91	4,424.40	4,198.79	225.61	19.611	
11,800.00	7,618.00	16,530.00	7,789.95	121.56	159.85	94.68	1,780.16	1,564.91	4,469.93	4,244.59	225.33	19.837	
11,900.00	7,618.00	16,530.00	7,789.95	121.46	159.85	94.68	1,780.16	1,564.91	4,517.21	4,292.22	224.99	20.077	
12,000.00	7,618.00	16,530.00	7,789.95	121.38	159.85	94.68	1,780.16	1,564.91	4,566.19	4,341.60	224.59	20.331	
12,100.00	7,618.00	16,530.00	7,789.95	121.30	159.85	94.68	1,780.16	1,564.91	4,616.82	4,392.68	224.13	20.598	
12,200.00	7,618.00	16,530.00	7,789.95	121.24	159.85	94.68	1,780.16	1,564.91	4,669.04	4,445.41	223.63	20.878	
12,300.00	7,618.00	16,530.00	7,789.95	121.19	159.85	94.68	1,780.16	1,564.91	4,722.80	4,499.72	223.08	21.171	
12,400.00	7,618.00	16,530.00	7,789.95	121.16	159.85	94.68	1,780.16	1,564.91	4,778.05	4,555.56	222.49	21.476	
12,500.00	7,618.00	16,530.00	7,789.95	121.14	159.85	94.68	1,780.16	1,564.91	4,834.74	4,612.88	221.86	21.792	
12,600.00	7,618.00	16,530.00	7,789.95	121.13	159.85	94.68	1,780.16	1,564.91	4,892.81	4,671.62	221.19	22.120	
12,700.00	7,618.00	16,530.00	7,789.95	121.13	159.85	94.68	1,780.16	1,564.91	4,952.23	4,731.73	220.49	22.460	
12,800.00	7,618.00	16,530.00	7,789.95	121.15	159.85	94.68	1,780.16	1,564.91	5,012.93	4,793.16	219.77	22.810	
12,900.00	7,618.00	16,530.00	7,789.95	121.18	159.85	94.68	1,780.16	1,564.91	5,074.88	4,855.87	219.01	23.172	
13,000.00	7,618.00	16,530.00	7,789.95	121.23	159.85	94.68	1,780.16	1,564.91	5,138.03	4,919.79	218.24	23.543	
13,100.00	7,618.00	16,530.00	7,789.95	121.29	159.85	94.68	1,780.16	1,564.91	5,202.33	4,984.89	217.44	23.925	
13,200.00	7,618.00	16,530.00	7,789.95	121.37	159.85	94.68	1,780.16	1,564.91	5,267.75	5,051.11	216.63	24.316	
13,300.00	7,618.00	16,530.00	7,789.95	121.46	159.85	94.68	1,780.16	1,564.91	5,334.24	5,118.43	215.81	24.718	
13,400.00	7,618.00	16,530.00	7,789.95	121.57	159.85	94.68	1,780.16	1,564.91	5,401.76	5,186.79	214.97	25.128	
13,500.00	7,618.00	16,530.00	7,789.95	121.70	159.85	94.68	1,780.16	1,564.91	5,470.28	5,256.16	214.12	25.548	
13,600.00	7,618.00	16,530.00	7,789.95	121.84	159.85	94.68	1,780.16	1,564.91	5,539.75	5,326.49	213.26	25.976	
13,700.00	7,618.00	16,530.00	7,789.95	122.01	159.85	94.68	1,780.16	1,564.91	5,610.15	5,397.75	212.40	26.413	
13,800.00	7,618.00	16,530.00	7,789.95	122.19	159.85	94.68	1,780.16	1,564.91	5,681.44	5,469.90	211.53	26.859	
13,900.00	7,618.00	16,530.00	7,789.95	122.39	159.85	94.68	1,780.16	1,564.91	5,753.58	5,542.91	210.66	27.312	
14,000.00	7,618.00	16,530.00	7,789.95	122.62	159.85	94.68	1,780.16	1,564.91	5,826.54	5,616.75	209.79	27.773	
14,100.00	7,618.00	16,530.00	7,789.95	122.86	159.85	94.68	1,780.16	1,564.91	5,900.29	5,691.38	208.92	28.243	
14,200.00	7,618.00	16,530.00	7,789.95	123.12	159.85	94.68	1,780.16	1,564.91	5,974.81	5,766.77	208.04	28.719	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	16,530.00	7,789.95	123.41	159.85	94.68	1,780.16	1,564.91	6,050.07	5,842.90	207.17	29.203	
14,400.00	7,618.00	16,530.00	7,789.95	123.72	159.85	94.68	1,780.16	1,564.91	6,126.03	5,919.73	206.31	29.694	
14,500.00	7,618.00	16,530.00	7,789.95	124.06	159.85	94.68	1,780.16	1,564.91	6,202.67	5,997.23	205.44	30.192	
14,600.00	7,618.00	16,530.00	7,789.95	124.42	159.85	94.68	1,780.16	1,564.91	6,279.98	6,075.39	204.58	30.696	
14,700.00	7,618.00	16,530.00	7,789.95	124.80	159.85	94.68	1,780.16	1,564.91	6,357.91	6,154.18	203.73	31.207	
14,800.00	7,618.00	16,530.00	7,789.95	125.21	159.85	94.68	1,780.16	1,564.91	6,436.45	6,233.57	202.88	31.725	
14,900.00	7,618.00	16,530.00	7,789.95	125.65	159.85	94.68	1,780.16	1,564.91	6,515.59	6,313.54	202.04	32.248	
15,000.00	7,618.00	16,530.00	7,789.95	126.11	159.85	94.68	1,780.16	1,564.91	6,595.29	6,394.08	201.21	32.778	
15,100.00	7,618.00	16,530.00	7,789.95	126.61	159.85	94.68	1,780.16	1,564.91	6,675.53	6,475.15	200.39	33.313	
15,200.00	7,618.00	16,530.00	7,789.95	127.13	159.85	94.68	1,780.16	1,564.91	6,756.30	6,556.74	199.57	33.855	
15,300.00	7,618.00	16,530.00	7,789.95	127.68	159.85	94.68	1,780.16	1,564.91	6,837.58	6,638.83	198.76	34.401	
15,400.00	7,618.00	16,530.00	7,789.95	128.26	159.85	94.68	1,780.16	1,564.91	6,919.36	6,721.40	197.96	34.953	
15,500.00	7,618.00	16,530.00	7,789.95	128.87	159.85	94.68	1,780.16	1,564.91	7,001.60	6,804.43	197.17	35.511	
15,600.00	7,618.00	16,530.00	7,789.95	129.51	159.85	94.68	1,780.16	1,564.91	7,084.30	6,887.91	196.39	36.073	
15,700.00	7,618.00	16,530.00	7,789.95	130.18	159.85	94.68	1,780.16	1,564.91	7,167.44	6,971.83	195.62	36.640	
15,800.00	7,618.00	16,530.00	7,789.95	130.88	159.85	94.68	1,780.16	1,564.91	7,251.01	7,056.16	194.85	37.212	
15,900.00	7,618.00	16,530.00	7,789.95	131.61	159.85	94.68	1,780.16	1,564.91	7,334.99	7,140.89	194.10	37.789	
16,000.00	7,618.00	16,530.00	7,789.95	132.37	159.85	94.68	1,780.16	1,564.91	7,419.37	7,226.01	193.36	38.371	
16,100.00	7,618.00	16,530.00	7,789.95	133.17	159.85	94.68	1,780.16	1,564.91	7,504.13	7,311.50	192.63	38.957	
16,200.00	7,618.00	16,530.00	7,789.95	133.99	159.85	94.68	1,780.16	1,564.91	7,589.26	7,397.36	191.91	39.547	
16,300.00	7,618.00	16,530.00	7,789.95	134.84	159.85	94.68	1,780.16	1,564.91	7,674.75	7,483.56	191.19	40.141	
16,400.00	7,618.00	16,530.00	7,789.95	135.72	159.85	94.68	1,780.16	1,564.91	7,760.59	7,570.10	190.49	40.740	
16,500.00	7,618.00	16,530.00	7,789.95	136.63	159.85	94.68	1,780.16	1,564.91	7,846.76	7,656.96	189.80	41.342	
16,600.00	7,618.00	16,530.00	7,789.95	137.57	159.85	94.68	1,780.16	1,564.91	7,933.26	7,744.14	189.12	41.949	
16,700.00	7,618.00	16,530.00	7,789.95	138.54	159.85	94.68	1,780.16	1,564.91	8,020.07	7,831.62	188.45	42.559	
16,800.00	7,618.00	16,530.00	7,789.95	139.53	159.85	94.68	1,780.16	1,564.91	8,107.18	7,919.40	187.78	43.173	
16,900.00	7,618.00	16,530.00	7,789.95	140.55	159.85	94.68	1,780.16	1,564.91	8,194.59	8,007.46	187.13	43.790	
17,000.00	7,618.00	16,530.00	7,789.95	141.60	159.85	94.68	1,780.16	1,564.91	8,282.29	8,095.80	186.49	44.411	
17,100.00	7,618.00	16,530.00	7,789.95	142.67	159.85	94.68	1,780.16	1,564.91	8,370.26	8,184.40	185.86	45.035	
17,200.00	7,618.00	16,530.00	7,789.95	143.77	159.85	94.68	1,780.16	1,564.91	8,458.49	8,273.26	185.24	45.663	
17,300.00	7,618.00	16,530.00	7,789.95	144.88	159.85	94.68	1,780.16	1,564.91	8,546.99	8,362.37	184.62	46.294	
17,400.00	7,618.00	16,530.00	7,789.95	146.02	159.85	94.68	1,780.16	1,564.91	8,635.74	8,451.72	184.02	46.928	
17,500.00	7,618.00	16,530.00	7,789.95	147.19	159.85	94.68	1,780.16	1,564.91	8,724.73	8,541.30	183.43	47.565	
17,600.00	7,618.00	16,530.00	7,789.95	148.37	159.85	94.68	1,780.16	1,564.91	8,813.96	8,631.11	182.84	48.205	
17,700.00	7,618.00	16,530.00	7,789.95	149.57	159.85	94.68	1,780.16	1,564.91	8,903.41	8,721.14	182.27	48.848	
17,800.00	7,618.00	16,530.00	7,789.95	150.79	159.85	94.68	1,780.16	1,564.91	8,993.09	8,811.39	181.70	49.493	
17,900.00	7,618.00	16,530.00	7,789.95	152.03	159.85	94.68	1,780.16	1,564.91	9,082.98	8,901.84	181.15	50.141	
18,000.00	7,618.00	16,530.00	7,789.95	153.29	159.85	94.68	1,780.16	1,564.91	9,173.09	8,992.49	180.60	50.792	
18,100.00	7,618.00	16,530.00	7,789.95	154.57	159.85	94.68	1,780.16	1,564.91	9,263.39	9,083.33	180.06	51.446	
18,200.00	7,618.00	16,530.00	7,789.95	155.86	159.85	94.68	1,780.16	1,564.91	9,353.90	9,174.37	179.53	52.102	
18,300.00	7,618.00	16,530.00	7,789.95	157.17	159.85	94.68	1,780.16	1,564.91	9,444.59	9,265.58	179.01	52.760	
18,400.00	7,618.00	16,530.00	7,789.95	158.49	159.85	94.68	1,780.16	1,564.91	9,535.47	9,356.98	178.50	53.421	
18,500.00	7,618.00	16,530.00	7,789.95	159.82	159.85	94.68	1,780.16	1,564.91	9,626.53	9,448.54	177.99	54.084	
18,600.00	7,618.00	16,530.00	7,789.95	161.17	159.85	94.68	1,780.16	1,564.91	9,717.77	9,540.28	177.49	54.750	
18,700.00	7,618.00	16,530.00	7,789.95	162.54	159.85	94.68	1,780.16	1,564.91	9,809.18	9,632.17	177.01	55.417	
18,800.00	7,618.00	16,530.00	7,789.95	163.91	159.85	94.68	1,780.16	1,564.91	9,900.75	9,724.23	176.52	56.087	
18,900.00	7,618.00	16,530.00	7,789.95	165.30	159.85	94.68	1,780.16	1,564.91	9,992.49	9,816.44	176.05	56.759	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-55.86	787.25	-1,160.85	1,402.66				
100.00	100.00	85.39	85.39	0.13	0.13	-55.86	787.29	-1,161.00	1,402.77	1,402.50	0.27	5,220.876	ES
200.00	200.00	180.26	180.26	0.49	0.28	-55.87	787.39	-1,161.52	1,403.28	1,402.51	0.78	1,808.350	
300.00	299.98	277.31	277.31	0.85	0.62	-125.22	787.63	-1,162.30	1,405.09	1,403.62	1.47	954.921	
400.00	399.84	375.45	375.44	1.21	0.98	-125.33	788.06	-1,163.19	1,409.11	1,406.93	2.18	645.750	
500.00	499.45	481.20	481.18	1.58	1.35	-125.55	788.43	-1,163.96	1,414.98	1,412.05	2.93	483.176	
600.00	598.70	560.28	560.26	1.97	1.64	-125.73	788.73	-1,164.60	1,423.09	1,419.50	3.59	395.910	
700.00	697.47	613.26	613.21	2.38	1.83	-125.79	789.79	-1,166.00	1,435.76	1,431.57	4.18	343.099	
800.00	795.62	654.00	653.85	2.83	1.98	-125.71	791.93	-1,167.92	1,454.05	1,449.30	4.74	306.538	
900.00	893.06	719.30	718.77	3.31	2.22	-125.69	797.62	-1,171.88	1,477.29	1,471.88	5.41	273.288	
1,000.00	989.64	787.35	786.16	3.83	2.48	-125.62	805.77	-1,176.61	1,504.85	1,498.75	6.10	246.681	
1,100.00	1,085.27	863.69	861.61	4.40	2.77	-125.60	815.80	-1,182.59	1,535.84	1,528.99	6.85	224.165	
1,200.00	1,179.82	943.95	940.79	5.02	3.10	-125.61	827.08	-1,189.27	1,569.78	1,562.14	7.65	205.221	
1,300.00	1,273.17	1,032.82	1,028.36	5.70	3.47	-125.70	840.12	-1,197.02	1,606.46	1,597.95	8.52	188.572	
1,400.00	1,365.21	1,143.31	1,137.25	6.43	3.93	-125.98	857.01	-1,204.99	1,644.32	1,634.80	9.52	172.682	
1,500.00	1,455.84	1,233.90	1,226.60	7.23	4.32	-126.12	870.56	-1,211.25	1,684.02	1,673.55	10.47	160.768	
1,600.00	1,544.94	1,320.32	1,311.90	8.09	4.69	-126.27	882.97	-1,217.41	1,725.86	1,714.42	11.44	150.874	
1,700.00	1,632.39	1,459.31	1,449.30	9.01	5.28	-127.04	901.80	-1,226.55	1,769.54	1,756.85	12.69	139.475	
1,800.00	1,718.11	1,540.80	1,530.05	10.00	5.62	-127.21	912.05	-1,230.56	1,813.59	1,799.90	13.69	132.473	
1,900.00	1,801.97	1,620.99	1,609.50	11.07	5.95	-127.36	922.15	-1,234.58	1,860.12	1,845.40	14.71	126.418	
2,000.00	1,883.88	1,690.12	1,678.03	12.20	6.23	-127.38	930.38	-1,238.51	1,909.33	1,893.63	15.70	121.604	
2,100.00	1,963.74	1,757.03	1,744.38	13.41	6.51	-127.37	937.59	-1,243.13	1,961.49	1,944.80	16.69	117.522	
2,200.00	2,041.45	1,831.55	1,818.31	14.69	6.82	-127.47	945.10	-1,248.81	2,016.44	1,998.71	17.73	113.720	
2,300.00	2,116.92	1,926.99	1,912.99	16.05	7.21	-127.84	955.36	-1,254.93	2,073.12	2,054.22	18.90	109.662	
2,357.48	2,159.25	1,963.97	1,949.67	16.86	7.36	-127.77	959.55	-1,257.13	2,106.73	2,087.24	19.49	108.079	
2,400.00	2,190.27	1,991.02	1,976.49	17.47	7.47	-128.19	962.66	-1,258.78	2,132.00	2,112.08	19.92	107.007	
2,500.00	2,263.22	2,096.57	2,081.19	18.92	7.91	-129.76	974.83	-1,264.28	2,191.26	2,170.09	21.16	103.533	
2,600.00	2,336.18	2,169.36	2,153.40	20.37	8.20	-130.78	983.36	-1,267.51	2,250.65	2,228.44	22.21	101.323	
2,700.00	2,409.14	2,232.05	2,215.57	21.84	8.46	-131.62	990.87	-1,270.37	2,310.73	2,287.54	23.19	99.647	
2,800.00	2,482.09	2,299.05	2,282.01	23.31	8.74	-132.49	998.91	-1,273.68	2,371.55	2,347.38	24.17	98.103	
2,900.00	2,555.05	2,368.17	2,350.59	24.78	9.02	-133.36	1,006.73	-1,277.31	2,432.91	2,407.76	25.15	96.725	
3,000.00	2,628.01	2,439.72	2,421.60	26.27	9.31	-134.23	1,014.57	-1,281.22	2,494.81	2,468.68	26.13	95.477	
3,100.00	2,700.96	2,522.67	2,503.89	27.75	9.65	-135.18	1,024.10	-1,285.40	2,556.90	2,529.73	27.17	94.113	
3,200.00	2,773.92	2,602.79	2,583.40	29.24	9.98	-136.06	1,033.24	-1,289.16	2,619.10	2,590.92	28.18	92.943	
3,300.00	2,846.88	2,681.75	2,661.82	30.73	10.30	-136.90	1,041.78	-1,292.74	2,681.45	2,652.28	29.17	91.935	
3,400.00	2,919.83	2,765.93	2,745.42	32.23	10.64	-137.75	1,051.05	-1,296.23	2,743.88	2,713.70	30.18	90.919	
3,500.00	2,992.79	2,841.18	2,820.10	33.72	10.95	-138.47	1,059.74	-1,299.06	2,806.41	2,775.28	31.13	90.148	
3,600.00	3,065.75	2,921.28	2,899.66	35.22	11.27	-139.21	1,068.65	-1,302.02	2,869.12	2,837.01	32.10	89.379	
3,700.00	3,138.71	2,979.63	2,957.65	36.72	11.50	-139.74	1,074.61	-1,304.23	2,932.06	2,899.15	32.91	89.083	
3,800.00	3,211.66	3,026.07	3,003.80	38.22	11.69	-140.16	1,079.38	-1,306.38	2,995.85	2,962.22	33.64	89.068	
3,900.00	3,284.62	3,067.96	3,045.39	39.72	11.86	-140.52	1,083.83	-1,308.67	3,060.53	3,026.22	34.32	89.189	
4,000.00	3,357.58	3,108.12	3,085.20	41.22	12.03	-140.85	1,088.46	-1,311.23	3,126.15	3,091.18	34.97	89.390	
4,100.00	3,430.53	3,164.07	3,140.58	42.73	12.26	-141.30	1,095.34	-1,315.22	3,192.57	3,156.83	35.73	89.340	
4,200.00	3,503.49	3,241.69	3,217.40	44.23	12.59	-141.89	1,104.90	-1,320.80	3,259.24	3,222.59	36.65	88.930	
4,300.00	3,576.45	3,340.32	3,315.20	45.74	13.00	-142.63	1,115.89	-1,327.41	3,325.63	3,287.93	37.70	88.214	
4,400.00	3,649.40	3,477.47	3,451.42	47.25	13.55	-143.64	1,129.74	-1,335.13	3,391.47	3,352.47	39.00	86.964	
4,500.00	3,722.36	3,540.64	3,514.19	48.75	13.81	-144.07	1,136.27	-1,337.98	3,456.59	3,416.81	39.78	86.890	
4,600.00	3,795.32	3,595.46	3,568.61	50.26	14.03	-144.43	1,142.37	-1,340.62	3,522.15	3,481.64	40.50	86.958	
4,700.00	3,868.27	3,644.68	3,617.41	51.77	14.24	-144.74	1,148.16	-1,343.26	3,588.27	3,547.09	41.18	87.131	
4,800.00	3,941.23	3,702.61	3,674.82	53.28	14.48	-145.09	1,155.16	-1,346.67	3,654.92	3,613.00	41.92	87.185	
4,900.00	4,014.19	3,779.30	3,750.85	54.79	14.80	-145.55	1,164.02	-1,351.37	3,721.85	3,679.06	42.79	86.976	
5,000.00	4,087.15	3,874.39	3,845.29	56.30	15.18	-146.12	1,173.75	-1,356.68	3,788.39	3,744.61	43.78	86.532	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,160.10	3,941.25	3,911.72	57.81	15.45	-146.51	1,180.44	-1,360.31	3,854.98	3,810.42	44.56	86.521	
5,200.00	4,233.06	3,999.18	3,969.24	59.32	15.69	-146.83	1,186.49	-1,363.60	3,921.87	3,876.61	45.26	86.644	
5,300.00	4,306.02	4,142.60	4,111.86	60.83	16.25	-147.63	1,199.65	-1,370.70	3,988.26	3,941.68	46.58	85.629	
5,400.00	4,378.97	4,211.58	4,180.59	62.34	16.52	-148.01	1,204.80	-1,373.57	4,054.18	4,006.85	47.33	85.653	
5,500.00	4,451.93	4,264.20	4,232.97	63.85	16.72	-148.29	1,209.18	-1,375.93	4,120.46	4,072.49	47.98	85.884	
5,600.00	4,524.89	4,315.99	4,284.47	65.36	16.93	-148.55	1,214.02	-1,378.46	4,187.19	4,138.57	48.62	86.125	
5,700.00	4,597.84	4,373.00	4,341.14	66.88	17.15	-148.83	1,219.44	-1,381.53	4,254.37	4,205.07	49.29	86.304	
5,800.00	4,670.80	4,430.76	4,398.53	68.39	17.38	-149.11	1,225.05	-1,384.83	4,321.87	4,271.89	49.98	86.478	
5,900.00	4,743.76	4,494.61	4,461.95	69.90	17.64	-149.40	1,231.50	-1,388.56	4,389.55	4,338.85	50.70	86.572	
6,000.00	4,816.71	4,550.96	4,517.90	71.41	17.87	-149.65	1,237.25	-1,391.99	4,457.51	4,406.13	51.37	86.768	
6,100.00	4,889.67	4,610.53	4,577.03	72.93	18.12	-149.91	1,243.35	-1,395.80	4,525.75	4,473.69	52.06	86.926	
6,200.00	4,962.63	4,701.14	4,666.93	74.44	18.49	-150.28	1,253.10	-1,401.67	4,594.18	4,541.18	53.01	86.673	
6,300.00	5,035.59	4,863.74	4,828.03	75.95	19.17	-150.87	1,273.59	-1,409.59	4,661.34	4,606.78	54.56	85.438	
6,400.00	5,108.54	4,930.31	4,893.93	77.47	19.45	-151.09	1,282.59	-1,412.34	4,728.18	4,672.84	55.34	85.441	
6,500.00	5,181.50	4,976.80	4,939.93	78.98	19.64	-151.24	1,288.97	-1,414.42	4,795.32	4,739.36	55.95	85.703	
6,600.00	5,254.46	5,031.69	4,994.19	80.49	19.88	-151.41	1,296.82	-1,417.17	4,862.88	4,806.24	56.64	85.861	
6,700.00	5,327.41	5,138.35	5,099.83	82.01	20.33	-151.74	1,310.66	-1,422.19	4,930.25	4,872.51	57.74	85.389	
6,800.00	5,400.37	5,218.65	5,179.55	83.52	20.65	-152.01	1,319.62	-1,425.64	4,997.39	4,938.80	58.60	85.282	
6,900.00	5,473.33	5,290.83	5,251.23	85.04	20.94	-152.25	1,327.50	-1,428.72	5,064.56	5,005.17	59.39	85.279	
7,000.00	5,546.28	5,368.43	5,328.29	86.55	21.26	-152.50	1,336.11	-1,431.98	5,131.73	5,071.51	60.22	85.213	
7,100.00	5,619.24	5,425.93	5,385.34	88.06	21.50	-152.67	1,342.75	-1,434.45	5,199.01	5,138.11	60.90	85.370	
7,200.00	5,692.20	5,477.80	5,436.76	89.58	21.71	-152.82	1,349.16	-1,436.84	5,266.57	5,205.03	61.53	85.588	
7,300.00	5,765.15	5,521.59	5,480.14	91.09	21.89	-152.94	1,354.72	-1,439.08	5,334.51	5,272.41	62.10	85.900	
7,400.00	5,838.11	5,580.02	5,537.99	92.61	22.14	-153.10	1,362.19	-1,442.37	5,402.84	5,340.05	62.79	86.044	
7,500.00	5,911.07	5,662.10	5,619.35	94.12	22.48	-153.33	1,372.06	-1,446.86	5,471.11	5,407.44	63.67	85.925	
7,600.00	5,984.03	5,722.47	5,679.27	95.64	22.73	-153.50	1,378.71	-1,450.18	5,539.47	5,475.11	64.36	86.069	
7,700.00	6,056.98	5,756.77	5,713.31	97.15	22.87	-153.59	1,382.37	-1,452.20	5,608.15	5,543.32	64.83	86.507	
7,800.00	6,129.94	5,786.48	5,742.76	98.67	23.00	-153.67	1,385.73	-1,454.17	5,677.39	5,612.13	65.26	87.002	
7,900.00	6,202.90	5,820.00	5,775.95	100.18	23.14	-153.76	1,389.77	-1,456.66	5,747.17	5,681.46	65.71	87.457	
8,000.00	6,275.85	5,887.92	5,843.13	101.70	23.43	-153.93	1,398.21	-1,461.96	5,817.25	5,750.78	66.48	87.506	
8,100.00	6,348.81	6,022.96	5,976.91	103.21	23.99	-154.27	1,413.84	-1,471.55	5,886.88	5,819.07	67.81	86.812	
8,200.00	6,421.77	6,091.90	6,045.32	104.73	24.28	-154.45	1,421.08	-1,476.09	5,956.21	5,887.65	68.56	86.874	
8,300.00	6,494.72	6,134.80	6,087.88	106.24	24.45	-154.56	1,425.57	-1,479.02	6,025.76	5,956.67	69.09	87.216	
8,400.00	6,567.68	6,176.00	6,128.75	107.76	24.62	-154.66	1,429.91	-1,482.01	6,095.64	6,026.04	69.60	87.578	
8,500.00	6,640.64	6,227.99	6,180.28	109.27	24.84	-154.78	1,435.51	-1,485.99	6,165.82	6,095.61	70.21	87.821	
8,600.00	6,713.59	6,296.62	6,248.26	110.79	25.13	-154.94	1,443.14	-1,491.47	6,236.24	6,165.28	70.96	87.882	
8,700.00	6,786.55	6,452.30	6,402.71	112.30	25.77	-155.31	1,459.16	-1,502.64	6,306.18	6,233.73	72.45	87.044	
8,800.00	6,859.51	6,673.18	6,622.05	113.82	26.66	-155.80	1,482.44	-1,514.11	6,374.53	6,300.06	74.47	85.602	
8,900.00	6,932.46	6,734.56	6,683.15	115.33	26.90	-155.94	1,487.74	-1,516.61	6,442.35	6,367.21	75.13	85.744	
9,000.00	7,005.42	6,786.73	6,735.09	116.85	27.10	-156.07	1,492.01	-1,518.87	6,510.39	6,434.67	75.72	85.976	
9,104.89	7,081.95	6,843.66	6,791.78	118.44	27.32	-156.20	1,496.62	-1,521.50	6,582.02	6,505.67	76.36	86.202	
9,150.00	7,115.15	6,868.51	6,816.52	119.12	27.42	-165.27	1,498.63	-1,522.69	6,613.05	6,536.43	76.62	86.305	
9,200.00	7,152.46	6,901.69	6,849.55	119.86	27.55	-175.62	1,501.29	-1,524.32	6,647.68	6,570.73	76.95	86.391	
9,250.00	7,190.04	6,950.93	6,898.61	120.57	27.73	173.97	1,504.82	-1,526.66	6,682.23	6,604.86	77.37	86.363	
9,300.00	7,227.59	6,994.81	6,942.36	121.25	27.90	163.75	1,507.45	-1,528.64	6,716.41	6,638.68	77.73	86.408	
9,350.00	7,264.83	7,031.80	6,979.27	121.89	28.03	153.93	1,509.43	-1,530.28	6,750.03	6,672.02	78.01	86.532	
9,400.00	7,301.48	7,068.14	7,015.53	122.48	28.16	144.69	1,511.18	-1,531.86	6,782.84	6,704.59	78.26	86.675	
9,450.00	7,337.26	7,097.04	7,044.38	123.01	28.26	136.14	1,512.22	-1,533.11	6,814.66	6,736.24	78.42	86.898	
9,500.00	7,371.90	7,125.53	7,072.84	123.49	28.35	128.38	1,512.74	-1,534.33	6,845.28	6,766.71	78.56	87.130	
9,550.00	7,405.13	7,153.50	7,100.78	123.91	28.45	121.42	1,512.74	-1,535.52	6,874.49	6,795.80	78.69	87.364	
9,600.00	7,436.70	7,157.00	7,104.28	124.27	28.46	115.11	1,512.71	-1,535.67	6,902.15	6,823.51	78.64	87.768	
9,650.00	7,466.36	7,157.00	7,104.28	124.57	28.46	109.53	1,512.71	-1,535.67	6,928.15	6,849.59	78.57	88.181	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,700.00	7,493.91	7,157.00	7,104.28	124.81	28.46	104.66	1,512.71	-1,535.67	6,952.32	6,873.83	78.50	88.570	
9,750.00	7,519.11	7,157.00	7,104.28	125.00	28.46	100.46	1,512.71	-1,535.67	6,974.49	6,896.05	78.43	88.926	
9,800.00	7,541.79	7,157.00	7,104.28	125.12	28.46	96.88	1,512.71	-1,535.67	6,994.50	6,916.12	78.38	89.240	
9,850.00	7,561.77	7,157.00	7,104.28	125.20	28.46	93.87	1,512.71	-1,535.67	7,012.23	6,933.89	78.34	89.507	
9,900.00	7,578.90	7,157.00	7,104.28	125.23	28.46	91.39	1,512.71	-1,535.67	7,027.56	6,949.23	78.33	89.717	
9,950.00	7,593.04	7,192.80	7,140.01	125.22	28.56	89.70	1,511.36	-1,537.55	7,039.93	6,961.38	78.56	89.616	
10,000.00	7,604.09	7,195.52	7,142.71	125.17	28.56	88.20	1,511.18	-1,537.72	7,050.11	6,971.50	78.62	89.678	
10,050.00	7,611.97	7,197.71	7,144.89	125.08	28.57	87.13	1,511.03	-1,537.86	7,057.65	6,978.95	78.71	89.671	
10,100.00	7,616.61	7,199.35	7,146.52	124.97	28.57	86.49	1,510.91	-1,537.97	7,062.51	6,983.68	78.83	89.593	
10,145.95	7,618.00	7,200.34	7,147.51	124.84	28.58	86.26	1,510.83	-1,538.04	7,064.57	6,985.60	78.97	89.458	
10,200.00	7,618.00	7,201.21	7,148.38	124.69	28.58	86.27	1,510.77	-1,538.09	7,065.86	6,986.70	79.16	89.262	
10,300.00	7,618.00	7,202.91	7,150.07	124.41	28.58	86.28	1,510.63	-1,538.21	7,069.32	6,989.79	79.53	88.887	
10,400.00	7,618.00	7,204.73	7,151.87	124.14	28.59	86.30	1,510.49	-1,538.33	7,074.19	6,994.26	79.93	88.503	
10,500.00	7,618.00	7,206.67	7,153.80	123.88	28.59	86.31	1,510.33	-1,538.47	7,080.47	7,000.11	80.36	88.111	
10,600.00	7,618.00	7,208.75	7,155.87	123.63	28.60	86.33	1,510.15	-1,538.62	7,088.15	7,007.34	80.81	87.714	
10,700.00	7,618.00	7,210.99	7,158.10	123.40	28.61	86.35	1,509.94	-1,538.78	7,097.23	7,015.95	81.29	87.312	
10,800.00	7,618.00	8,620.96	7,928.80	123.18	30.45	92.59	523.77	-1,583.41	7,100.05	7,021.00	79.05	89.814	
10,900.00	7,618.00	8,671.00	7,928.59	122.96	30.73	92.59	473.74	-1,582.46	7,097.75	7,018.19	79.56	89.214	
11,000.00	7,618.00	8,671.00	7,928.59	122.76	30.73	92.59	473.74	-1,582.46	7,096.44	7,016.30	80.15	88.542	
11,081.76	7,618.00	8,710.37	7,928.13	122.61	30.98	92.59	434.38	-1,582.26	7,095.96	7,015.32	80.65	87.988	
11,100.00	7,618.00	8,714.66	7,928.06	122.57	31.01	92.59	430.09	-1,582.28	7,095.98	7,015.23	80.76	87.870	
11,200.00	7,618.00	8,760.00	7,927.22	122.39	31.29	92.58	384.76	-1,583.03	7,096.86	7,015.46	81.40	87.190	
11,300.00	7,618.00	8,760.00	7,927.22	122.23	31.29	92.58	384.76	-1,583.03	7,098.53	7,016.47	82.06	86.505	
11,400.00	7,618.00	8,793.36	7,926.72	122.07	31.53	92.57	351.42	-1,584.10	7,101.36	7,018.58	82.77	85.791	
11,500.00	7,618.00	9,102.28	7,937.87	121.93	34.06	92.66	42.91	-1,592.21	7,105.08	7,020.70	84.38	84.202	
11,600.00	7,618.00	9,225.60	7,940.59	121.79	35.25	92.68	-80.38	-1,592.79	7,105.33	7,019.57	85.76	82.852	
11,700.00	7,618.00	11,700.00	7,943.00	121.67	61.73	92.70	-227.27	-1,592.61	7,104.90	6,992.90	112.00	63.436	
11,800.00	7,618.00	9,514.78	7,945.61	121.56	38.38	92.72	-369.50	-1,591.54	7,103.86	7,014.49	89.37	79.489	
11,900.00	7,618.00	9,627.97	7,947.30	121.46	39.71	92.74	-482.68	-1,590.32	7,102.51	7,011.33	91.18	77.898	
12,000.00	7,618.00	9,740.00	7,948.00	121.38	41.07	92.74	-594.69	-1,588.73	7,100.76	7,007.67	93.09	76.280	
12,100.00	7,618.00	9,789.32	7,948.07	121.30	41.70	92.75	-644.01	-1,588.14	7,099.39	7,004.96	94.43	75.178	
12,199.85	7,618.00	9,829.00	7,948.24	121.24	42.20	92.75	-683.69	-1,588.15	7,099.02	7,003.32	95.70	74.179	
12,200.00	7,618.00	9,829.00	7,948.24	121.24	42.20	92.75	-683.69	-1,588.15	7,099.02	7,003.32	95.70	74.178	
12,300.00	7,618.00	9,899.42	7,948.95	121.19	43.10	92.75	-754.10	-1,588.59	7,099.32	7,001.97	97.35	72.929	
12,400.00	7,618.00	9,999.48	7,950.21	121.16	44.42	92.76	-854.15	-1,589.31	7,099.76	7,000.37	99.39	71.435	
12,500.00	7,618.00	10,125.97	7,950.48	121.14	46.12	92.76	-980.64	-1,589.90	7,099.88	6,998.04	101.84	69.716	
12,600.00	7,618.00	10,202.00	7,949.34	121.13	47.17	92.76	-1,056.66	-1,590.36	7,100.08	6,996.37	103.72	68.456	
12,700.00	7,618.00	10,275.00	7,948.79	121.13	48.18	92.75	-1,129.65	-1,591.09	7,100.69	6,995.09	105.60	67.243	
12,800.00	7,618.00	10,402.15	7,948.70	121.15	49.99	92.75	-1,256.79	-1,592.31	7,101.32	6,993.03	108.29	65.578	
12,900.00	7,618.00	10,533.88	7,947.70	121.18	51.89	92.74	-1,388.52	-1,592.99	7,101.46	6,990.32	111.14	63.899	
13,000.00	7,618.00	10,662.53	7,947.23	121.23	53.78	92.74	-1,517.17	-1,593.17	7,101.26	6,987.22	114.03	62.273	
13,100.00	7,618.00	10,839.84	7,951.38	121.29	56.44	92.77	-1,694.41	-1,591.39	7,099.87	6,982.04	117.84	60.252	
13,200.00	7,618.00	10,899.00	7,952.07	121.37	57.34	92.78	-1,753.57	-1,590.86	7,098.65	6,978.89	119.76	59.275	
13,300.00	7,618.00	13,300.00	7,951.20	121.46	94.35	92.77	-1,922.77	-1,588.87	7,097.08	6,939.08	158.00	44.919	
13,400.00	7,618.00	11,137.33	7,950.83	121.57	61.00	92.77	-1,991.86	-1,587.76	7,095.17	6,969.44	125.73	56.430	
13,500.00	7,618.00	11,296.71	7,953.93	121.70	63.49	92.80	-2,151.17	-1,584.33	7,092.51	6,962.96	129.55	54.746	
13,600.00	7,618.00	11,344.00	7,954.85	121.84	64.24	92.80	-2,198.45	-1,583.70	7,090.73	6,959.35	131.38	53.973	
13,700.00	7,618.00	11,426.26	7,955.82	122.01	65.54	92.81	-2,280.70	-1,583.06	7,089.59	6,955.74	133.85	52.966	
13,800.00	7,618.00	11,560.26	7,957.08	122.19	67.67	92.82	-2,414.68	-1,580.79	7,087.48	6,950.15	137.33	51.608	
13,900.00	7,618.00	11,611.00	7,958.33	122.39	68.48	92.83	-2,465.39	-1,580.17	7,086.02	6,946.76	139.26	50.882	
14,000.00	7,618.00	11,810.32	7,959.94	122.62	71.69	92.85	-2,664.67	-1,577.24	7,084.34	6,940.24	144.10	49.164	
14,100.00	7,618.00	11,879.00	7,958.45	122.86	72.80	92.84	-2,733.32	-1,575.80	7,081.86	6,935.45	146.41	48.370	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
14,200.00	7,618.00	11,945.74	7,956.17	123.12	73.88	92.82	-2,800.02	-1,574.75	7,079.85	6,931.16	148.70	47.613	
14,300.00	7,618.00	11,968.00	7,955.32	123.41	74.24	92.81	-2,822.25	-1,574.53	7,078.67	6,928.57	150.10	47.160	
14,370.42	7,618.00	12,000.09	7,954.11	123.63	74.76	92.80	-2,854.32	-1,574.48	7,078.35	6,926.94	151.41	46.749	
14,400.00	7,618.00	12,007.55	7,953.84	123.72	74.89	92.80	-2,861.78	-1,574.53	7,078.40	6,926.56	151.84	46.617	
14,500.00	7,618.00	12,057.00	7,952.25	124.06	75.69	92.79	-2,911.19	-1,575.44	7,079.40	6,925.62	153.79	46.034	
14,600.00	7,618.00	12,057.00	7,952.25	124.42	75.69	92.79	-2,911.19	-1,575.44	7,081.14	6,926.41	154.72	45.766	
14,700.00	7,618.00	12,127.08	7,950.16	124.80	76.83	92.77	-2,981.20	-1,577.62	7,083.77	6,926.68	157.08	45.096	
14,800.00	7,618.00	12,185.53	7,948.57	125.21	77.78	92.76	-3,039.60	-1,579.72	7,086.90	6,927.70	159.21	44.514	
14,900.00	7,618.00	12,365.06	7,946.03	125.65	80.71	92.73	-3,218.99	-1,585.94	7,090.10	6,926.22	163.87	43.265	
15,000.00	7,618.00	12,591.00	7,950.77	126.11	84.43	92.77	-3,444.82	-1,589.58	7,091.38	6,921.76	169.63	41.805	
15,100.00	7,618.00	12,646.30	7,953.41	126.61	85.35	92.79	-3,500.05	-1,589.83	7,091.96	6,920.19	171.77	41.288	
15,200.00	7,618.00	12,680.00	7,955.27	127.13	85.91	92.81	-3,533.70	-1,590.42	7,093.63	6,920.19	173.44	40.900	
15,300.00	7,618.00	12,728.87	7,957.54	127.68	86.72	92.82	-3,582.50	-1,591.70	7,096.12	6,920.70	175.43	40.451	
15,400.00	7,618.00	12,801.63	7,958.95	128.26	87.92	92.84	-3,655.20	-1,594.20	7,099.27	6,921.33	177.94	39.898	
15,500.00	7,618.00	12,920.41	7,958.65	128.87	89.89	92.83	-3,773.91	-1,598.20	7,102.27	6,920.81	181.46	39.139	
15,600.00	7,618.00	13,071.64	7,956.41	129.51	92.41	92.81	-3,925.05	-1,602.74	7,104.86	6,919.12	185.73	38.253	
15,700.00	7,618.00	13,268.96	7,952.57	130.18	95.71	92.78	-4,122.28	-1,606.25	7,106.00	6,914.94	191.06	37.192	
15,800.00	7,618.00	13,326.26	7,953.12	130.88	96.67	92.78	-4,179.57	-1,607.08	7,107.16	6,913.88	193.28	36.770	
15,900.00	7,618.00	13,637.92	7,957.45	131.61	101.93	92.82	-4,491.17	-1,607.89	7,107.18	6,905.89	201.30	35.307	
16,000.00	7,618.00	13,741.96	7,961.69	132.37	103.70	92.85	-4,595.11	-1,606.41	7,105.63	6,900.99	204.64	34.723	
16,100.00	7,618.00	13,960.70	7,966.96	133.17	107.43	92.90	-4,813.69	-1,600.61	7,102.21	6,891.60	210.61	33.721	
16,200.00	7,618.00	13,983.67	7,967.33	133.99	107.82	92.90	-4,836.65	-1,600.05	7,099.52	6,887.39	212.13	33.468	
16,300.00	7,618.00	14,017.00	7,968.03	134.84	108.39	92.91	-4,869.97	-1,599.67	7,097.94	6,884.08	213.86	33.189	
16,400.00	7,618.00	14,044.62	7,968.68	135.72	108.86	92.91	-4,897.58	-1,599.62	7,097.32	6,881.87	215.45	32.942	
16,427.63	7,618.00	14,058.51	7,969.01	135.97	109.10	92.92	-4,911.46	-1,599.64	7,097.30	6,881.26	216.03	32.853	
16,500.00	7,618.00	14,106.00	7,970.14	136.63	109.91	92.92	-4,958.94	-1,599.90	7,097.50	6,879.68	217.82	32.584	
16,600.00	7,618.00	14,164.09	7,971.44	137.57	110.90	92.94	-5,017.01	-1,600.50	7,098.24	6,878.13	220.10	32.249	
16,700.00	7,618.00	14,250.62	7,972.79	138.54	112.37	92.95	-5,103.52	-1,601.65	7,099.31	6,876.25	223.06	31.827	
16,800.00	7,618.00	14,326.27	7,973.11	139.53	113.66	92.95	-5,179.17	-1,602.83	7,100.56	6,874.80	225.76	31.452	
16,900.00	7,618.00	14,520.86	7,977.77	140.55	116.98	92.98	-5,373.67	-1,605.06	7,101.61	6,870.31	231.31	30.702	
17,000.00	7,618.00	14,640.00	7,980.33	141.60	119.02	93.01	-5,492.78	-1,604.97	7,101.26	6,866.18	235.07	30.209	
17,060.67	7,618.00	14,671.00	7,980.66	142.25	119.55	93.01	-5,523.78	-1,604.96	7,101.18	6,864.81	236.37	30.042	
17,100.00	7,618.00	14,681.20	7,980.81	142.67	119.73	93.01	-5,533.97	-1,605.03	7,101.37	6,864.40	236.97	29.967	
17,200.00	7,618.00	14,730.00	7,981.85	143.77	120.56	93.02	-5,582.76	-1,605.97	7,102.74	6,863.69	239.05	29.712	
17,300.00	7,618.00	15,025.41	7,989.49	144.88	125.63	93.08	-5,877.98	-1,607.99	7,104.08	6,857.00	247.07	28.753	
17,400.00	7,618.00	15,086.00	7,989.84	146.02	126.67	93.08	-5,938.57	-1,607.70	7,103.20	6,853.73	249.47	28.474	
17,500.00	7,618.00	17,500.00	7,992.94	147.19	168.36	93.11	-6,105.74	-1,606.14	7,102.08	6,808.86	293.22	24.221	
17,600.00	7,618.00	15,264.00	7,993.18	148.37	129.74	93.11	-6,116.52	-1,605.98	7,100.92	6,845.29	255.63	27.778	
17,700.00	7,618.00	15,315.16	7,993.83	149.57	130.62	93.11	-6,167.67	-1,605.59	7,100.34	6,842.55	257.79	27.543	
17,743.57	7,618.00	15,612.60	7,998.49	150.10	135.76	93.15	-6,464.98	-1,602.30	7,100.27	6,834.91	265.36	26.757	
17,800.00	7,618.00	15,655.01	7,999.50	150.79	136.49	93.16	-6,507.36	-1,601.01	7,098.44	6,831.50	266.93	26.592	
17,900.00	7,618.00	15,736.68	8,000.99	152.03	137.91	93.18	-6,588.98	-1,598.77	7,095.45	6,825.57	269.88	26.291	
18,000.00	7,618.00	15,823.73	8,004.45	153.29	139.42	93.21	-6,675.93	-1,596.38	7,092.60	6,819.65	272.95	25.985	
18,100.00	7,618.00	15,983.04	8,010.99	154.57	142.19	93.26	-6,835.05	-1,592.13	7,090.04	6,812.27	277.77	25.525	
18,200.00	7,618.00	16,066.00	8,013.49	155.86	143.63	93.28	-6,917.92	-1,589.23	7,086.42	6,805.67	280.75	25.241	
18,300.00	7,618.00	16,113.71	8,014.82	157.17	144.46	93.29	-6,965.59	-1,587.80	7,083.37	6,800.49	282.89	25.039	
18,400.00	7,618.00	16,155.00	8,016.36	158.49	145.18	93.31	-7,006.84	-1,587.00	7,081.27	6,796.41	284.86	24.859	
18,500.00	7,618.00	16,195.77	8,018.03	159.82	145.89	93.32	-7,047.58	-1,586.55	7,080.00	6,793.20	286.79	24.687	
18,600.00	7,618.00	18,600.00	8,021.60	161.17	187.64	93.35	-7,145.53	-1,585.98	7,079.29	6,749.13	330.16	21.442	
18,700.00	7,618.00	16,437.80	8,025.34	162.54	150.09	93.38	-7,289.48	-1,584.30	7,077.86	6,783.24	294.62	24.024	
18,800.00	7,618.00	16,528.47	8,026.04	163.91	151.67	93.39	-7,380.14	-1,583.25	7,076.41	6,778.62	297.79	23.763	
18,900.00	7,618.00	16,601.00	8,025.59	165.30	152.93	93.38	-7,452.66	-1,582.63	7,075.21	6,774.71	300.51	23.544	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
19,000.00	7,618.00	16,640.60	8,025.31	166.70	153.61	93.38	-7,492.26	-1,582.55	7,074.65	6,772.25	302.39	23.395	
19,012.79	7,618.00	16,645.34	8,025.31	166.87	153.70	93.38	-7,497.00	-1,582.56	7,074.64	6,772.01	302.63	23.377	
19,100.00	7,618.00	16,690.00	8,025.59	168.10	154.47	93.38	-7,541.66	-1,582.93	7,075.00	6,770.49	304.51	23.234	
19,200.00	7,618.00	16,723.99	8,026.01	169.52	155.06	93.39	-7,575.64	-1,583.46	7,076.15	6,769.92	306.23	23.108	
19,300.00	7,618.00	19,300.00	8,027.58	170.95	199.67	93.40	-7,684.96	-1,585.55	7,077.82	6,725.29	352.53	20.077	SF
19,400.00	7,618.00	17,016.55	8,033.08	172.39	160.13	93.44	-7,868.07	-1,587.20	7,078.50	6,763.11	315.39	22.444	
19,500.00	7,618.00	17,152.41	8,036.09	173.84	162.49	93.47	-8,003.89	-1,587.29	7,078.33	6,758.62	319.71	22.140	
19,600.00	7,618.00	17,224.00	8,036.77	175.30	163.74	93.47	-8,075.48	-1,587.32	7,078.14	6,755.74	322.40	21.954	
19,608.28	7,618.00	17,240.69	8,036.87	175.42	164.03	93.47	-8,092.17	-1,587.36	7,078.12	6,755.22	322.90	21.921	
19,700.00	7,618.00	17,292.38	8,036.88	176.76	164.93	93.47	-8,143.86	-1,587.68	7,078.38	6,753.37	325.01	21.779	
19,800.00	7,618.00	17,451.62	8,034.26	178.24	167.69	93.45	-8,303.07	-1,588.76	7,078.67	6,748.75	329.92	21.456	
19,896.19	7,618.00	17,546.00	8,031.39	179.66	169.33	93.43	-8,397.41	-1,588.88	7,078.30	6,745.14	333.16	21.246	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-55.62	787.25	-1,150.77	1,394.33				
100.00	100.00	97.26	97.26	0.13	0.15	-55.63	787.07	-1,150.60	1,394.06	1,393.78	0.28	4,965.597	
200.00	200.00	197.75	197.75	0.49	0.42	-55.63	786.58	-1,150.14	1,393.41	1,392.50	0.91	1,531.138	
223.96	223.96	220.64	220.64	0.58	0.50	-124.95	786.49	-1,150.06	1,393.35	1,392.27	1.08	1,293.600	CC, ES
300.00	299.98	293.26	293.26	0.85	0.76	-125.00	786.30	-1,149.88	1,394.02	1,392.41	1.61	867.620	
400.00	399.84	393.27	393.27	1.21	1.12	-125.13	786.18	-1,149.72	1,396.83	1,394.51	2.32	601.550	
500.00	499.45	494.68	494.68	1.58	1.48	-125.34	786.11	-1,149.39	1,401.56	1,398.51	3.05	459.320	
600.00	598.70	568.27	568.26	1.97	1.73	-125.51	786.38	-1,149.41	1,408.98	1,405.29	3.69	381.932	
700.00	697.47	633.91	633.88	2.38	1.95	-125.62	788.09	-1,150.36	1,420.78	1,416.47	4.31	329.757	
800.00	795.62	697.69	697.52	2.83	2.17	-125.65	792.02	-1,151.54	1,436.97	1,432.03	4.94	290.947	
900.00	893.06	763.00	762.50	3.31	2.40	-125.62	798.22	-1,153.40	1,457.71	1,452.12	5.60	260.465	
1,000.00	989.64	837.81	836.74	3.83	2.67	-125.60	807.01	-1,156.09	1,482.34	1,476.02	6.32	234.687	
1,100.00	1,085.27	928.34	926.47	4.40	3.01	-125.68	818.60	-1,159.36	1,509.67	1,502.54	7.13	211.780	
1,200.00	1,179.82	1,015.43	1,012.72	5.02	3.35	-125.76	830.25	-1,162.59	1,539.46	1,531.50	7.96	193.331	
1,300.00	1,273.17	1,097.79	1,094.18	5.70	3.68	-125.82	841.87	-1,165.82	1,571.92	1,563.11	8.81	178.369	
1,400.00	1,365.21	1,187.93	1,183.30	6.43	4.04	-125.96	854.91	-1,169.58	1,606.90	1,597.16	9.73	165.109	
1,500.00	1,455.84	1,284.15	1,278.55	7.23	4.43	-126.24	867.84	-1,173.97	1,643.93	1,633.22	10.71	153.477	
1,600.00	1,544.94	1,374.48	1,368.03	8.09	4.80	-126.50	879.45	-1,178.13	1,683.03	1,671.33	11.69	143.912	
1,700.00	1,632.39	1,456.79	1,449.38	9.01	5.14	-126.63	891.57	-1,181.21	1,724.51	1,711.83	12.68	135.981	
1,800.00	1,718.11	1,530.98	1,522.50	10.00	5.46	-126.62	903.87	-1,183.67	1,768.66	1,754.99	13.67	129.407	
1,900.00	1,801.97	1,646.71	1,636.52	11.07	5.96	-127.06	923.48	-1,186.62	1,814.62	1,799.71	14.91	121.726	
2,000.00	1,883.88	1,716.95	1,705.74	12.20	6.26	-127.00	935.30	-1,188.04	1,862.41	1,846.47	15.94	116.866	
2,100.00	1,963.74	1,779.71	1,767.56	13.41	6.54	-126.84	945.96	-1,189.81	1,913.16	1,896.21	16.95	112.904	
2,200.00	2,041.45	1,886.74	1,873.00	14.69	7.01	-127.24	964.06	-1,193.17	1,966.53	1,948.30	18.23	107.875	
2,300.00	2,116.92	2,012.23	1,997.19	16.05	7.53	-127.97	981.88	-1,194.89	2,019.92	2,000.30	19.62	102.938	
2,357.48	2,159.25	2,055.87	2,040.49	16.86	7.71	-128.02	987.23	-1,195.36	2,051.34	2,031.07	20.27	101.215	
2,400.00	2,190.27	2,087.81	2,072.20	17.47	7.84	-128.49	991.08	-1,195.72	2,074.94	2,054.19	20.74	100.042	
2,500.00	2,263.22	2,151.10	2,135.03	18.92	8.10	-129.41	998.66	-1,196.65	2,131.10	2,109.32	21.77	97.871	
2,600.00	2,336.18	2,215.28	2,198.73	20.37	8.36	-130.30	1,006.35	-1,197.91	2,188.21	2,165.41	22.80	95.994	
2,700.00	2,409.14	2,283.07	2,266.00	21.84	8.63	-131.21	1,014.63	-1,199.49	2,246.18	2,222.37	23.82	94.301	
2,800.00	2,482.09	2,357.14	2,339.52	23.31	8.93	-132.17	1,023.46	-1,201.33	2,304.72	2,279.85	24.86	92.698	
2,900.00	2,555.05	2,423.98	2,405.91	24.78	9.20	-133.01	1,030.99	-1,203.21	2,363.85	2,338.01	25.84	91.475	
3,000.00	2,628.01	2,498.85	2,480.29	26.27	9.50	-133.93	1,039.15	-1,205.49	2,423.53	2,396.68	26.85	90.263	
3,100.00	2,700.96	2,573.79	2,554.75	27.75	9.80	-134.81	1,047.30	-1,207.72	2,483.59	2,455.75	27.84	89.196	
3,200.00	2,773.92	2,640.53	2,621.10	29.24	10.07	-135.57	1,054.24	-1,209.86	2,544.15	2,515.38	28.77	88.430	
3,300.00	2,846.88	2,756.78	2,736.74	30.73	10.52	-136.85	1,065.66	-1,213.04	2,604.72	2,574.74	29.98	86.877	
3,400.00	2,919.83	2,904.02	2,883.13	32.23	11.10	-138.30	1,081.38	-1,213.09	2,663.70	2,632.31	31.39	84.864	
3,500.00	2,992.79	2,961.94	2,940.56	33.72	11.34	-138.81	1,088.83	-1,212.17	2,722.24	2,689.98	32.26	84.388	
3,600.00	3,065.75	3,010.26	2,988.44	35.22	11.54	-139.22	1,095.28	-1,211.88	2,781.81	2,748.75	33.05	84.158	
3,700.00	3,138.71	3,071.90	3,049.52	36.72	11.79	-139.72	1,103.63	-1,211.94	2,842.18	2,808.25	33.93	83.774	
3,800.00	3,211.66	3,143.11	3,120.10	38.22	12.09	-140.30	1,113.09	-1,212.32	2,903.06	2,868.21	34.85	83.297	
3,900.00	3,284.62	3,216.92	3,193.25	39.72	12.39	-140.87	1,122.89	-1,212.75	2,964.19	2,928.40	35.79	82.831	
4,000.00	3,357.58	3,321.26	3,296.74	41.22	12.82	-141.65	1,136.21	-1,212.95	3,025.17	2,988.25	36.92	81.940	
4,100.00	3,430.53	3,394.16	3,369.14	42.73	13.11	-142.19	1,144.65	-1,212.96	3,086.08	3,048.27	37.82	81.609	
4,200.00	3,503.49	3,440.42	3,415.12	44.23	13.30	-142.53	1,149.85	-1,213.18	3,147.52	3,109.00	38.52	81.712	
4,300.00	3,576.45	3,482.00	3,456.41	45.74	13.46	-142.83	1,154.62	-1,213.73	3,209.81	3,170.64	39.18	81.928	
4,400.00	3,649.40	3,524.30	3,498.37	47.25	13.64	-143.12	1,159.88	-1,214.66	3,273.03	3,233.19	39.84	82.159	
4,500.00	3,722.36	3,571.00	3,544.58	48.75	13.83	-143.41	1,166.51	-1,216.18	3,337.23	3,296.70	40.53	82.350	
4,600.00	3,795.32	3,642.06	3,614.85	50.26	14.14	-143.85	1,176.73	-1,218.78	3,401.94	3,360.54	41.40	82.178	
4,700.00	3,868.27	3,751.67	3,723.57	51.77	14.59	-144.54	1,190.17	-1,222.28	3,466.29	3,423.76	42.53	81.498	
4,800.00	3,941.23	3,824.91	3,796.34	53.28	14.88	-145.00	1,198.21	-1,224.32	3,530.37	3,486.99	43.38	81.390	
4,900.00	4,014.19	3,909.72	3,880.51	54.79	15.23	-145.50	1,208.30	-1,226.48	3,594.49	3,550.17	44.31	81.114	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,087.15	3,985.54	3,955.65	56.30	15.54	-145.91	1,218.32	-1,228.13	3,658.55	3,613.35	45.20	80.949	
5,100.00	4,160.10	4,060.36	4,029.90	57.81	15.84	-146.32	1,227.34	-1,229.85	3,722.73	3,676.68	46.05	80.839	
5,200.00	4,233.06	4,136.85	4,106.01	59.32	16.15	-146.76	1,234.72	-1,231.71	3,786.99	3,740.09	46.89	80.761	
5,300.00	4,306.02	4,214.69	4,183.42	60.83	16.45	-147.18	1,242.74	-1,233.48	3,851.29	3,803.55	47.74	80.669	
5,400.00	4,378.97	4,292.23	4,260.40	62.34	16.77	-147.57	1,251.85	-1,235.09	3,915.63	3,867.03	48.61	80.559	
5,500.00	4,451.93	4,349.04	4,316.83	63.85	17.00	-147.84	1,258.38	-1,236.40	3,980.22	3,930.91	49.31	80.725	
5,600.00	4,524.89	4,411.10	4,378.49	65.36	17.25	-148.15	1,265.16	-1,238.06	4,045.16	3,995.12	50.04	80.838	
5,700.00	4,597.84	4,475.99	4,442.83	66.88	17.52	-148.44	1,273.36	-1,239.88	4,110.36	4,059.55	50.81	80.902	
5,800.00	4,670.80	4,560.73	4,526.77	68.39	17.87	-148.79	1,284.75	-1,242.24	4,175.66	4,123.92	51.74	80.707	
5,900.00	4,743.76	4,652.40	4,617.77	69.90	18.24	-149.19	1,295.54	-1,244.51	4,240.73	4,188.03	52.70	80.464	
6,000.00	4,816.71	4,716.73	4,681.63	71.41	18.51	-149.45	1,303.15	-1,245.98	4,305.76	4,252.31	53.45	80.549	
6,100.00	4,889.67	4,781.00	4,745.23	72.93	18.78	-149.69	1,312.26	-1,247.63	4,371.12	4,316.90	54.22	80.614	
6,200.00	4,962.63	4,862.89	4,826.26	74.44	19.12	-149.98	1,323.89	-1,249.67	4,436.48	4,381.34	55.14	80.459	
6,300.00	5,035.59	4,932.78	4,895.53	75.95	19.41	-150.24	1,333.05	-1,251.42	4,501.89	4,445.95	55.94	80.474	
6,400.00	5,108.54	5,003.68	4,965.89	77.47	19.70	-150.50	1,341.64	-1,253.28	4,567.42	4,510.68	56.74	80.501	
6,500.00	5,181.50	5,082.69	5,044.37	78.98	20.02	-150.80	1,350.49	-1,255.35	4,633.00	4,575.42	57.58	80.456	
6,600.00	5,254.46	5,161.55	5,122.79	80.49	20.34	-151.10	1,358.60	-1,257.31	4,698.54	4,640.12	58.42	80.429	
6,700.00	5,327.41	5,233.94	5,194.72	82.01	20.62	-151.36	1,366.51	-1,259.07	4,764.09	4,704.89	59.21	80.465	
6,800.00	5,400.37	5,303.85	5,264.12	83.52	20.91	-151.60	1,374.79	-1,260.83	4,829.78	4,769.80	59.99	80.516	
6,900.00	5,473.33	5,412.15	5,371.63	85.04	21.35	-151.95	1,387.66	-1,263.28	4,895.38	4,834.30	61.08	80.150	
7,000.00	5,546.28	5,524.63	5,483.12	86.55	21.81	-152.28	1,402.45	-1,264.68	4,960.16	4,897.94	62.22	79.716	
7,100.00	5,619.24	5,602.42	5,560.32	88.06	22.13	-152.51	1,411.92	-1,265.48	5,024.90	4,961.83	63.07	79.674	
7,200.00	5,692.20	5,670.51	5,628.04	89.58	22.40	-152.73	1,418.98	-1,266.14	5,089.64	5,025.83	63.82	79.756	
7,300.00	5,765.15	5,720.47	5,677.70	91.09	22.60	-152.88	1,424.42	-1,266.81	5,154.72	5,090.30	64.42	80.018	
7,400.00	5,838.11	5,793.16	5,749.90	92.61	22.89	-153.09	1,432.80	-1,268.04	5,220.08	5,154.87	65.21	80.051	
7,500.00	5,911.07	5,853.41	5,809.79	94.12	23.13	-153.27	1,439.20	-1,269.01	5,285.46	5,219.57	65.89	80.216	
7,600.00	5,984.03	5,895.64	5,851.80	95.64	23.30	-153.40	1,443.43	-1,269.93	5,351.28	5,284.86	66.42	80.569	
7,700.00	6,056.98	5,980.08	5,935.76	97.15	23.63	-153.64	1,452.22	-1,272.07	5,417.44	5,350.14	67.29	80.508	
7,800.00	6,129.94	6,081.01	6,035.87	98.67	24.05	-153.90	1,464.91	-1,274.09	5,483.18	5,414.85	68.33	80.245	
7,900.00	6,202.90	6,137.38	6,091.79	100.18	24.28	-154.04	1,471.84	-1,275.16	5,548.90	5,479.91	68.99	80.430	
8,000.00	6,275.85	6,186.97	6,141.08	101.70	24.48	-154.17	1,477.25	-1,276.31	5,614.97	5,545.39	69.58	80.695	
8,100.00	6,348.81	6,276.88	6,230.45	103.21	24.83	-154.40	1,486.73	-1,278.43	5,681.14	5,610.64	70.50	80.586	
8,200.00	6,421.77	6,345.43	6,298.52	104.73	25.11	-154.57	1,494.77	-1,280.02	5,747.26	5,676.01	71.25	80.659	
8,300.00	6,494.72	6,400.06	6,352.68	106.24	25.34	-154.69	1,501.81	-1,281.38	5,813.55	5,741.65	71.90	80.855	
8,400.00	6,567.68	6,452.00	6,404.17	107.76	25.55	-154.80	1,508.42	-1,282.90	5,880.16	5,807.64	72.52	81.079	
8,500.00	6,640.64	6,488.99	6,440.86	109.27	25.70	-154.88	1,512.95	-1,284.16	5,947.15	5,874.14	73.01	81.459	
8,600.00	6,713.59	6,541.00	6,492.49	110.79	25.92	-155.00	1,518.87	-1,286.26	6,014.62	5,941.00	73.62	81.703	
8,700.00	6,786.55	6,587.63	6,538.83	112.30	26.10	-155.12	1,523.60	-1,288.29	6,082.38	6,008.22	74.16	82.016	
8,800.00	6,859.51	6,654.45	6,605.35	113.82	26.36	-155.29	1,529.25	-1,291.17	6,150.25	6,075.39	74.86	82.158	
8,900.00	6,932.46	6,714.32	6,665.01	115.33	26.58	-155.45	1,533.53	-1,293.81	6,218.27	6,142.79	75.48	82.379	
9,000.00	7,005.42	6,799.09	6,749.56	116.85	26.89	-155.69	1,538.41	-1,297.49	6,286.34	6,210.06	76.28	82.409	
9,104.89	7,081.95	9,104.89	6,917.23	118.44	33.75	-156.23	1,540.98	-1,303.19	6,357.38	6,273.53	83.86	75.814	
9,150.00	7,115.15	6,987.00	6,937.19	119.12	27.49	-165.16	1,540.51	-1,303.65	6,387.78	6,310.01	77.77	82.133	
9,200.00	7,152.46	6,987.00	6,937.19	119.86	27.49	-175.36	1,540.51	-1,303.65	6,421.86	6,344.03	77.83	82.511	
9,250.00	7,190.04	7,021.59	6,971.57	120.57	27.57	174.24	1,536.81	-1,304.14	6,455.61	6,377.60	78.02	82.744	
9,300.00	7,227.59	7,028.48	6,978.39	121.25	27.58	163.98	1,535.87	-1,304.32	6,489.56	6,411.50	78.07	83.130	
9,350.00	7,264.83	7,035.37	6,985.21	121.89	27.60	154.05	1,534.87	-1,304.53	6,523.13	6,445.04	78.09	83.532	
9,400.00	7,301.48	7,076.00	7,025.14	122.48	27.68	144.73	1,527.62	-1,306.32	6,556.53	6,478.31	78.22	83.821	
9,450.00	7,337.26	7,076.00	7,025.14	123.01	27.68	136.02	1,527.62	-1,306.32	6,588.43	6,510.25	78.18	84.268	
9,500.00	7,371.90	9,500.00	7,018.93	123.49	32.01	128.02	1,529.17	-1,306.08	6,619.27	6,537.26	82.01	80.713	
9,550.00	7,405.13	9,550.00	7,054.60	123.91	32.12	121.01	1,520.26	-1,307.48	6,648.77	6,566.70	82.07	81.018	
9,600.00	7,436.70	9,600.00	7,089.65	124.27	32.24	114.85	1,511.52	-1,308.85	6,676.59	6,594.47	82.12	81.305	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,650.00	7,466.36	7,198.70	7,143.58	124.57	27.87	109.58	1,496.13	-1,310.58	6,702.29	6,624.05	78.23	85.671	
9,700.00	7,493.91	7,208.83	7,153.16	124.81	27.88	104.80	1,492.86	-1,310.91	6,726.19	6,648.00	78.19	86.024	
9,750.00	7,519.11	7,218.78	7,162.53	125.00	27.89	100.69	1,489.53	-1,311.26	6,748.05	6,669.89	78.15	86.343	
9,800.00	7,541.79	7,255.00	7,196.25	125.12	27.93	97.36	1,476.40	-1,312.81	6,767.90	6,689.75	78.15	86.597	
9,850.00	7,561.77	7,255.00	7,196.25	125.20	27.93	94.38	1,476.40	-1,312.81	6,785.16	6,707.02	78.14	86.833	
9,900.00	7,578.90	7,255.00	7,196.25	125.23	27.93	91.93	1,476.40	-1,312.81	6,800.04	6,721.89	78.15	87.013	
9,950.00	7,593.04	7,255.00	7,196.25	125.22	27.93	89.97	1,476.40	-1,312.81	6,812.46	6,734.28	78.19	87.130	
10,000.00	7,604.09	7,255.00	7,196.25	125.17	27.93	88.47	1,476.40	-1,312.81	6,822.34	6,744.08	78.26	87.181	
10,050.00	7,611.97	7,255.00	7,196.25	125.08	27.93	87.41	1,476.40	-1,312.81	6,829.60	6,751.24	78.36	87.160	
10,100.00	7,616.61	7,255.00	7,196.25	124.97	27.93	86.77	1,476.40	-1,312.81	6,834.20	6,755.70	78.50	87.065	
10,145.95	7,618.00	7,255.00	7,196.25	124.84	27.93	86.55	1,476.40	-1,312.81	6,836.06	6,757.40	78.66	86.912	
10,200.00	7,618.00	7,255.00	7,196.25	124.69	27.93	86.55	1,476.40	-1,312.81	6,837.12	6,758.25	78.87	86.692	
10,300.00	7,618.00	7,255.00	7,196.25	124.41	27.93	86.55	1,476.40	-1,312.81	6,840.21	6,760.92	79.28	86.278	
10,400.00	7,618.00	8,057.00	7,660.81	124.14	28.37	90.44	880.00	-1,331.52	6,843.75	6,767.20	76.55	89.399	
10,500.00	7,618.00	10,500.00	7,666.35	123.88	35.89	90.49	828.70	-1,330.24	6,840.85	6,757.93	82.92	82.499	
10,600.00	7,618.00	8,199.50	7,674.19	123.63	28.77	90.55	738.21	-1,327.80	6,837.92	6,761.04	76.88	88.943	
10,700.00	7,618.00	8,247.63	7,675.13	123.40	28.95	90.56	690.10	-1,326.92	6,835.74	6,758.52	77.22	88.518	
10,800.00	7,618.00	8,324.00	7,675.31	123.18	29.27	90.56	613.74	-1,325.93	6,834.10	6,756.56	77.54	88.135	
10,900.00	7,618.00	8,402.26	7,675.41	122.96	29.66	90.57	535.48	-1,325.18	6,832.80	6,754.83	77.97	87.632	
11,000.00	7,618.00	11,000.00	7,676.05	122.76	47.55	90.57	385.54	-1,323.59	6,831.48	6,736.60	94.88	71.999	
11,100.00	7,618.00	8,710.72	7,676.15	122.57	31.77	90.57	227.08	-1,319.81	6,828.53	6,749.14	79.39	86.012	
11,200.00	7,618.00	8,769.00	7,675.72	122.39	32.25	90.57	168.81	-1,318.70	6,826.19	6,745.99	80.20	85.110	
11,300.00	7,618.00	8,797.80	7,675.56	122.23	32.51	90.57	140.01	-1,318.39	6,824.62	6,743.64	80.99	84.269	
11,400.00	7,618.00	8,858.00	7,676.16	122.07	33.04	90.57	79.82	-1,318.33	6,824.05	6,742.13	81.92	83.304	
11,500.00	7,618.00	9,051.68	7,678.92	121.93	34.95	90.60	-113.83	-1,317.30	6,823.53	6,739.86	83.66	81.559	
11,600.00	7,618.00	9,168.37	7,679.08	121.79	36.21	90.60	-230.50	-1,315.18	6,821.35	6,736.14	85.22	80.048	
11,700.00	7,618.00	9,233.97	7,679.60	121.67	36.95	90.60	-296.09	-1,314.13	6,819.43	6,732.95	86.48	78.853	
11,800.00	7,618.00	9,285.70	7,680.03	121.56	37.55	90.61	-347.82	-1,313.63	6,818.15	6,730.46	87.69	77.754	
11,900.00	7,618.00	9,388.18	7,680.46	121.46	38.76	90.61	-450.30	-1,313.14	6,817.34	6,727.95	89.40	76.260	
12,000.00	7,618.00	9,430.89	7,680.65	121.38	39.29	90.61	-493.00	-1,313.03	6,816.78	6,726.16	90.61	75.228	
12,013.13	7,618.00	9,436.05	7,680.71	121.37	39.35	90.61	-498.16	-1,313.04	6,816.77	6,725.99	90.78	75.095	
12,100.00	7,618.00	9,482.00	7,681.49	121.30	39.92	90.62	-544.10	-1,313.43	6,817.13	6,725.18	91.94	74.144	
12,200.00	7,618.00	9,560.78	7,683.64	121.24	40.91	90.64	-622.85	-1,314.43	6,818.05	6,724.44	93.61	72.833	
12,300.00	7,618.00	9,662.73	7,687.08	121.19	42.24	90.66	-724.73	-1,315.65	6,818.95	6,723.34	95.61	71.322	
12,400.00	7,618.00	9,798.17	7,692.03	121.16	44.05	90.71	-860.08	-1,316.81	6,819.50	6,721.38	98.12	69.505	
12,500.00	7,618.00	9,874.08	7,694.81	121.14	45.09	90.73	-935.93	-1,317.35	6,819.94	6,719.98	99.96	68.228	
12,600.00	7,618.00	9,927.00	7,695.66	121.13	45.82	90.74	-988.84	-1,318.06	6,820.98	6,719.46	101.53	67.184	
12,700.00	7,618.00	9,993.56	7,695.75	121.13	46.75	90.74	-1,055.39	-1,319.35	6,822.61	6,719.31	103.30	66.046	
12,800.00	7,618.00	10,120.82	7,694.63	121.15	48.55	90.73	-1,182.61	-1,322.13	6,824.48	6,718.52	105.96	64.405	
12,900.00	7,618.00	10,243.82	7,692.55	121.18	50.33	90.71	-1,305.58	-1,324.02	6,825.62	6,716.96	108.66	62.818	
13,000.00	7,618.00	10,399.21	7,688.38	121.23	52.62	90.67	-1,460.90	-1,325.83	6,826.44	6,714.50	111.94	60.984	
13,100.00	7,618.00	10,475.11	7,686.73	121.29	53.76	90.66	-1,536.78	-1,326.52	6,826.98	6,712.93	114.05	59.859	
13,200.00	7,618.00	10,574.45	7,688.22	121.37	55.26	90.67	-1,636.10	-1,327.56	6,827.71	6,711.11	116.60	58.556	
13,300.00	7,618.00	10,776.73	7,693.34	121.46	58.36	90.72	-1,838.28	-1,328.46	6,828.02	6,707.02	121.00	56.429	
13,400.00	7,618.00	10,959.51	7,688.63	121.57	61.21	90.68	-2,020.98	-1,326.54	6,826.58	6,701.41	125.17	54.538	
13,500.00	7,618.00	11,037.56	7,685.42	121.70	62.44	90.65	-2,098.96	-1,325.25	6,824.59	6,697.08	127.51	53.521	
13,600.00	7,618.00	11,094.64	7,683.93	121.84	63.35	90.64	-2,156.02	-1,324.72	6,823.27	6,693.78	129.49	52.695	
13,700.00	7,618.00	11,203.00	7,681.70	122.01	65.07	90.62	-2,264.35	-1,323.74	6,821.99	6,689.55	132.45	51.508	
13,800.00	7,618.00	11,264.00	7,680.65	122.19	66.04	90.61	-2,325.34	-1,323.43	6,821.13	6,686.60	134.53	50.704	
13,900.00	7,618.00	11,516.12	7,679.67	122.39	70.11	90.60	-2,577.41	-1,319.79	6,819.22	6,678.82	140.40	48.568	
14,000.00	7,618.00	11,531.00	7,679.87	122.62	70.35	90.60	-2,592.29	-1,319.41	6,816.92	6,675.29	141.63	48.133	
14,100.00	7,618.00	11,578.81	7,680.62	122.86	71.12	90.61	-2,640.09	-1,318.66	6,815.40	6,671.88	143.51	47.490	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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				Warning
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	
14,134.53	7,618.00	11,587.34	7,680.76	122.95	71.26	90.61	-2,648.61	-1,318.64	6,815.18	6,671.18	144.00	47.326	
14,200.00	7,618.00	11,620.00	7,681.37	123.12	71.79	90.62	-2,681.27	-1,318.84	6,815.22	6,669.95	145.27	46.916	
14,300.00	7,618.00	11,639.41	7,681.74	123.41	72.11	90.62	-2,700.67	-1,319.12	6,815.96	6,669.39	146.57	46.503	
14,400.00	7,618.00	11,709.00	7,682.98	123.72	73.24	90.63	-2,770.24	-1,320.45	6,817.51	6,668.61	148.90	45.785	
14,500.00	7,618.00	14,500.00	7,685.07	124.06	118.87	90.65	-2,924.97	-1,322.99	6,818.85	6,622.71	196.14	34.766	
14,600.00	7,618.00	11,936.96	7,686.15	124.42	76.96	90.66	-2,998.15	-1,323.85	6,819.76	6,664.29	155.48	43.863	
14,700.00	7,618.00	11,987.77	7,687.49	124.80	77.79	90.67	-3,048.93	-1,324.87	6,821.43	6,663.97	157.46	43.323	
14,800.00	7,618.00	12,077.62	7,690.62	125.21	79.27	90.69	-3,138.70	-1,326.99	6,823.50	6,663.22	160.28	42.572	
14,900.00	7,618.00	12,177.14	7,694.71	125.65	80.91	90.73	-3,238.10	-1,329.41	6,825.65	6,662.31	163.34	41.788	
15,000.00	7,618.00	12,281.16	7,699.35	126.11	82.63	90.77	-3,341.99	-1,331.92	6,827.79	6,661.27	166.51	41.004	
15,100.00	7,618.00	12,367.37	7,703.45	126.61	84.06	90.80	-3,428.08	-1,333.96	6,829.89	6,660.58	169.31	40.340	
15,200.00	7,618.00	12,449.39	7,706.38	127.13	85.42	90.83	-3,510.01	-1,336.29	6,832.43	6,660.41	172.02	39.719	
15,300.00	7,618.00	12,641.74	7,709.73	127.68	88.63	90.85	-3,702.28	-1,340.51	6,834.31	6,657.09	177.22	38.564	
15,400.00	7,618.00	12,762.29	7,711.83	128.26	90.65	90.87	-3,822.80	-1,342.03	6,835.23	6,654.39	180.84	37.797	
15,500.00	7,618.00	12,894.49	7,717.78	128.87	92.87	90.92	-3,954.86	-1,343.27	6,835.91	6,651.14	184.77	36.998	
15,600.00	7,618.00	13,014.96	7,724.02	129.51	94.90	90.97	-4,075.17	-1,343.95	6,836.23	6,647.78	188.45	36.277	
15,700.00	7,618.00	13,103.47	7,728.28	130.18	96.40	91.01	-4,163.57	-1,344.30	6,836.38	6,644.99	191.39	35.719	
15,800.00	7,618.00	13,193.44	7,731.23	130.88	97.92	91.03	-4,253.49	-1,344.94	6,836.81	6,642.43	194.38	35.173	
15,900.00	7,618.00	13,294.21	7,734.08	131.61	99.62	91.06	-4,354.22	-1,345.68	6,837.26	6,639.63	197.62	34.597	
16,000.00	7,618.00	13,466.09	7,738.13	132.37	102.54	91.09	-4,526.05	-1,346.14	6,837.28	6,634.72	202.56	33.755	
16,100.00	7,618.00	13,897.72	7,742.05	133.17	109.93	91.13	-4,957.37	-1,334.23	6,834.03	6,620.44	213.60	31.995	
16,200.00	7,618.00	13,937.00	7,741.78	133.99	110.60	91.12	-4,996.61	-1,332.53	6,829.15	6,613.67	215.48	31.692	
16,300.00	7,618.00	13,937.00	7,741.78	134.84	110.60	91.12	-4,996.61	-1,332.53	6,825.32	6,608.89	216.43	31.536	
16,400.00	7,618.00	13,972.28	7,741.34	135.72	111.21	91.12	-5,031.88	-1,331.59	6,822.54	6,604.36	218.18	31.270	
16,500.00	7,618.00	14,026.00	7,740.38	136.63	112.13	91.11	-5,085.59	-1,331.35	6,821.26	6,600.89	220.37	30.954	
16,600.00	7,618.00	14,026.00	7,740.38	137.57	112.13	91.11	-5,085.59	-1,331.35	6,820.52	6,599.26	221.25	30.827	
16,600.85	7,618.00	14,026.00	7,740.38	137.58	112.13	91.11	-5,085.59	-1,331.35	6,820.52	6,599.26	221.26	30.826	
16,700.00	7,618.00	14,078.20	7,739.24	138.54	113.02	91.10	-5,137.77	-1,331.86	6,820.99	6,597.62	223.37	30.536	
16,800.00	7,618.00	14,227.61	7,735.70	139.53	115.57	91.07	-5,287.14	-1,332.83	6,821.23	6,593.37	227.86	29.936	
16,804.60	7,618.00	14,229.80	7,735.66	139.58	115.61	91.07	-5,289.33	-1,332.83	6,821.23	6,593.27	227.95	29.924	
16,900.00	7,618.00	14,293.00	7,735.19	140.55	116.69	91.07	-5,352.52	-1,333.38	6,821.62	6,591.31	230.31	29.619	
17,000.00	7,618.00	14,372.77	7,735.73	141.60	118.06	91.07	-5,432.28	-1,334.35	6,822.46	6,589.34	233.12	29.265	
17,100.00	7,618.00	14,537.23	7,737.94	142.67	120.88	91.09	-5,596.72	-1,335.42	6,822.83	6,584.79	238.04	28.663	
17,200.00	7,618.00	14,686.24	7,740.34	143.77	123.44	91.11	-5,745.71	-1,334.71	6,821.93	6,579.35	242.58	28.122	
17,300.00	7,618.00	14,750.73	7,740.60	144.88	124.55	91.11	-5,810.20	-1,334.55	6,821.33	6,576.28	245.04	27.837	
17,400.00	7,618.00	14,856.20	7,739.06	146.02	126.37	91.10	-5,915.65	-1,334.51	6,820.93	6,572.41	248.51	27.447	
17,500.00	7,618.00	14,961.49	7,737.84	147.19	128.18	91.09	-6,020.93	-1,334.34	6,820.41	6,568.42	251.99	27.067	
17,600.00	7,618.00	15,111.53	7,737.61	148.37	130.77	91.09	-6,170.97	-1,333.52	6,819.53	6,562.95	256.58	26.578	
17,700.00	7,618.00	15,168.59	7,738.28	149.57	131.76	91.09	-6,228.03	-1,333.16	6,818.58	6,559.70	258.88	26.339	
17,800.00	7,618.00	15,257.79	7,740.77	150.79	133.30	91.12	-6,317.20	-1,332.98	6,818.09	6,556.11	261.98	26.026	
17,847.66	7,618.00	15,273.00	7,741.13	151.38	133.57	91.12	-6,332.40	-1,332.95	6,817.94	6,555.17	262.76	25.947	
17,900.00	7,618.00	15,273.00	7,741.13	152.03	133.57	91.12	-6,332.40	-1,332.95	6,818.14	6,554.94	263.20	25.905	
18,000.00	7,618.00	15,323.21	7,742.14	153.29	134.43	91.13	-6,382.60	-1,333.36	6,818.96	6,553.67	265.29	25.704	
18,100.00	7,618.00	15,362.00	7,742.70	154.57	135.10	91.13	-6,421.37	-1,334.35	6,821.03	6,553.96	267.07	25.540	
18,200.00	7,618.00	15,385.63	7,742.97	155.86	135.50	91.13	-6,444.98	-1,335.20	6,824.05	6,555.62	268.43	25.422	
18,300.00	7,618.00	15,427.00	7,743.42	157.17	136.21	91.14	-6,486.31	-1,336.96	6,828.00	6,557.76	270.24	25.266	
18,400.00	7,618.00	15,699.79	7,747.41	158.49	140.90	91.17	-6,758.86	-1,346.97	6,831.80	6,553.67	278.13	24.563	
18,500.00	7,618.00	15,872.34	7,752.14	159.82	143.88	91.21	-6,931.32	-1,349.80	6,833.19	6,549.80	283.40	24.112	
18,600.00	7,618.00	15,966.34	7,755.20	161.17	145.51	91.23	-7,025.26	-1,350.74	6,833.94	6,547.30	286.63	23.842	
18,700.00	7,618.00	16,099.53	7,759.54	162.54	147.82	91.27	-7,158.38	-1,351.91	6,834.54	6,543.65	290.89	23.495	
18,800.00	7,618.00	16,164.00	7,760.72	163.91	148.94	91.28	-7,222.83	-1,352.41	6,835.08	6,541.71	293.37	23.299	
18,900.00	7,618.00	16,221.73	7,761.98	165.30	149.94	91.29	-7,280.55	-1,353.19	6,836.20	6,540.54	295.66	23.122	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
19,000.00	7,618.00	16,331.81	7,766.87	166.70	151.84	91.33	-7,390.49	-1,355.34	6,837.96	6,538.62	299.33	22.844	
19,100.00	7,618.00	16,413.26	7,771.07	168.10	153.26	91.37	-7,471.82	-1,356.70	6,839.42	6,537.17	302.25	22.628	
19,200.00	7,618.00	16,508.09	7,775.46	169.52	154.90	91.40	-7,566.53	-1,358.55	6,841.15	6,535.62	305.53	22.391	
19,300.00	7,618.00	16,936.40	7,790.19	170.95	162.36	91.53	-7,994.50	-1,357.87	6,841.60	6,524.21	317.40	21.555	
19,400.00	7,618.00	17,109.38	7,793.25	172.39	165.39	91.55	-8,167.34	-1,351.80	6,837.66	6,515.01	322.65	21.192	
19,500.00	7,618.00	17,254.51	7,794.42	173.84	167.93	91.57	-8,312.36	-1,345.97	6,833.39	6,506.19	327.20	20.885	
19,600.00	7,618.00	17,340.00	7,795.17	175.30	169.43	91.57	-8,397.75	-1,342.03	6,828.50	6,498.21	330.29	20.674	
19,700.00	7,618.00	17,340.00	7,795.17	176.76	169.43	91.57	-8,397.75	-1,342.03	6,824.65	6,493.39	331.25	20.602	
19,800.00	7,618.00	17,340.00	7,795.17	178.24	169.43	91.57	-8,397.75	-1,342.03	6,822.26	6,490.10	332.16	20.539	
19,896.19	7,618.00	17,340.00	7,795.17	179.66	169.43	91.57	-8,397.75	-1,342.03	6,821.34	6,488.37	332.97	20.486	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-55.39	787.25	-1,140.97	1,386.24				
100.00	100.00	93.17	93.17	0.13	0.15	-55.40	787.10	-1,140.99	1,386.14	1,385.86	0.28	4,951.997	
200.00	200.00	195.55	195.55	0.49	0.31	-55.42	786.60	-1,141.04	1,385.90	1,385.10	0.80	1,736.289	
210.78	210.78	204.75	204.75	0.53	0.38	-124.74	786.55	-1,141.05	1,385.90	1,384.99	0.91	1,528.694	CC, ES
300.00	299.98	290.39	290.39	0.85	0.68	-124.80	786.11	-1,141.27	1,386.80	1,385.27	1.53	907.071	
400.00	399.84	388.91	388.91	1.21	1.03	-124.94	785.76	-1,141.65	1,389.92	1,387.68	2.23	622.165	
500.00	499.45	488.29	488.29	1.58	1.38	-125.16	785.69	-1,141.87	1,395.08	1,392.13	2.95	472.997	
600.00	598.70	582.62	582.61	1.97	1.71	-125.45	785.20	-1,142.55	1,402.48	1,398.81	3.66	382.886	
700.00	697.47	657.05	657.03	2.38	1.97	-125.68	785.45	-1,143.59	1,413.00	1,408.68	4.32	326.910	
800.00	795.62	733.25	733.16	2.83	2.23	-125.84	788.63	-1,144.28	1,427.32	1,422.32	5.00	285.364	
900.00	893.06	805.68	805.32	3.31	2.49	-125.87	794.67	-1,144.33	1,445.29	1,439.60	5.69	254.052	
1,000.00	989.64	884.01	883.13	3.83	2.77	-125.87	803.71	-1,144.42	1,467.01	1,460.58	6.43	228.228	
1,100.00	1,085.27	974.17	972.54	4.40	3.10	-125.94	815.28	-1,144.65	1,491.60	1,484.36	7.25	205.863	
1,200.00	1,179.82	1,064.09	1,061.61	5.02	3.44	-126.01	827.68	-1,144.57	1,518.50	1,510.40	8.10	187.437	
1,300.00	1,273.17	1,149.92	1,146.46	5.70	3.78	-126.05	840.60	-1,144.35	1,548.00	1,539.02	8.98	172.375	
1,400.00	1,365.21	1,234.27	1,229.72	6.43	4.12	-126.09	854.12	-1,144.20	1,580.15	1,570.26	9.89	159.748	
1,500.00	1,455.84	1,321.66	1,315.97	7.23	4.48	-126.19	868.16	-1,144.53	1,614.90	1,604.05	10.85	148.781	
1,600.00	1,544.94	1,404.66	1,397.86	8.09	4.83	-126.27	881.67	-1,144.87	1,651.99	1,640.15	11.83	139.617	
1,700.00	1,632.39	1,478.20	1,470.35	9.01	5.14	-126.27	894.05	-1,145.64	1,692.00	1,679.21	12.80	132.215	
1,800.00	1,718.11	1,553.97	1,544.90	10.00	5.47	-126.27	907.56	-1,146.76	1,734.98	1,721.17	13.81	125.664	
1,900.00	1,801.97	1,658.27	1,647.69	11.07	5.92	-126.62	925.08	-1,148.35	1,779.82	1,764.82	15.00	118.682	
2,000.00	1,883.88	1,737.51	1,725.96	12.20	6.25	-126.73	937.44	-1,149.64	1,826.63	1,810.56	16.07	113.633	
2,100.00	1,963.74	1,798.03	1,785.71	13.41	6.51	-126.59	946.92	-1,151.12	1,876.41	1,859.34	17.07	109.921	
2,200.00	2,041.45	2,200.00	1,878.38	14.69	8.21	-126.91	960.95	-1,153.58	1,928.42	1,908.89	19.53	98.750	
2,300.00	2,116.92	1,977.78	1,963.55	16.05	7.27	-127.14	972.60	-1,155.56	1,982.17	1,962.74	19.44	101.989	
2,357.48	2,159.25	2,014.59	2,000.04	16.86	7.42	-127.09	977.41	-1,156.62	2,014.34	1,994.30	20.04	100.520	
2,400.00	2,190.27	2,041.37	2,026.57	17.47	7.53	-127.50	980.93	-1,157.45	2,038.57	2,018.09	20.48	99.533	
2,500.00	2,263.22	2,122.66	2,107.10	18.92	7.86	-128.71	991.72	-1,160.09	2,096.16	2,074.54	21.62	96.970	
2,600.00	2,336.18	2,265.04	2,248.34	20.37	8.45	-130.70	1,009.49	-1,162.26	2,153.04	2,129.95	23.09	93.244	
2,700.00	2,409.14	2,355.86	2,338.54	21.84	8.81	-131.89	1,020.05	-1,161.96	2,208.86	2,184.61	24.25	91.081	
2,800.00	2,482.09	2,431.05	2,413.24	23.31	9.11	-132.84	1,028.59	-1,161.49	2,264.93	2,239.62	25.31	89.496	
2,900.00	2,555.05	2,506.25	2,487.97	24.78	9.41	-133.75	1,037.01	-1,161.07	2,321.51	2,295.16	26.35	88.113	
3,000.00	2,628.01	2,601.30	2,582.38	26.27	9.79	-134.84	1,047.98	-1,160.21	2,378.39	2,350.89	27.49	86.507	
3,100.00	2,700.96	2,686.34	2,666.66	27.75	10.14	-135.73	1,059.13	-1,158.09	2,434.76	2,406.17	28.59	85.169	
3,200.00	2,773.92	2,740.00	2,719.76	29.24	10.36	-136.25	1,066.77	-1,156.92	2,491.96	2,462.48	29.48	84.533	
3,300.00	2,846.88	2,777.90	2,757.22	30.73	10.53	-136.61	1,072.49	-1,156.50	2,550.43	2,520.17	30.25	84.303	
3,400.00	2,919.83	2,829.00	2,807.64	32.23	10.75	-137.07	1,080.75	-1,156.83	2,610.48	2,579.38	31.10	83.938	
3,500.00	2,992.79	2,861.65	2,839.83	33.72	10.89	-137.35	1,086.21	-1,157.43	2,671.63	2,639.83	31.80	84.019	
3,600.00	3,065.75	2,921.34	2,898.68	35.22	11.15	-137.86	1,096.05	-1,158.83	2,733.63	2,700.95	32.68	83.653	
3,700.00	3,138.71	3,000.91	2,977.20	36.72	11.50	-138.53	1,108.81	-1,160.89	2,795.96	2,762.27	33.69	82.984	
3,800.00	3,211.66	3,086.80	3,062.05	38.22	11.87	-139.23	1,121.93	-1,162.99	2,858.30	2,823.56	34.74	82.278	
3,900.00	3,284.62	3,171.84	3,146.21	39.72	12.23	-139.91	1,134.02	-1,164.88	2,920.55	2,884.79	35.76	81.670	
4,000.00	3,357.58	3,258.24	3,231.85	41.22	12.59	-140.60	1,145.27	-1,166.65	2,982.72	2,945.95	36.77	81.119	
4,100.00	3,430.53	3,347.24	3,320.21	42.73	12.95	-141.30	1,155.87	-1,168.22	3,044.78	3,007.00	37.78	80.599	
4,200.00	3,503.49	3,434.22	3,406.58	44.23	13.31	-141.96	1,166.09	-1,169.38	3,106.70	3,067.93	38.77	80.133	
4,300.00	3,576.45	3,522.22	3,493.75	45.74	13.67	-142.56	1,178.11	-1,169.95	3,168.51	3,128.73	39.78	79.651	
4,400.00	3,649.40	3,599.50	3,570.21	47.25	14.00	-143.05	1,189.35	-1,170.13	3,230.27	3,189.55	40.72	79.332	
4,500.00	3,722.36	3,684.78	3,654.77	48.75	14.35	-143.60	1,200.42	-1,170.45	3,292.14	3,250.44	41.69	78.959	
4,600.00	3,795.32	3,772.24	3,741.66	50.26	14.70	-144.17	1,210.28	-1,170.58	3,353.82	3,311.17	42.66	78.622	
4,700.00	3,868.27	3,832.70	3,801.82	51.77	14.94	-144.57	1,216.35	-1,170.68	3,415.61	3,372.20	43.41	78.678	
4,800.00	3,941.23	3,874.37	3,843.30	53.28	15.10	-144.84	1,220.32	-1,171.14	3,478.20	3,434.17	44.02	79.010	
4,900.00	4,014.19	3,920.17	3,888.89	54.79	15.27	-145.14	1,224.54	-1,172.09	3,541.61	3,496.96	44.65	79.324	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,087.15	3,971.96	3,940.45	56.30	15.47	-145.47	1,229.23	-1,173.50	3,605.67	3,560.36	45.30	79.589	
5,100.00	4,160.10	5,100.00	4,030.48	57.81	19.71	-146.05	1,236.54	-1,175.95	3,669.78	3,619.70	50.08	73.273	
5,200.00	4,233.06	4,128.88	4,096.84	59.32	16.06	-146.47	1,241.36	-1,177.62	3,733.89	3,686.95	46.95	79.535	
5,300.00	4,306.02	4,187.81	4,155.56	60.83	16.28	-146.83	1,245.82	-1,179.50	3,798.63	3,751.00	47.63	79.760	
5,400.00	4,378.97	4,408.28	4,374.30	62.34	17.18	-147.91	1,272.87	-1,181.22	3,861.75	3,812.16	49.59	77.876	
5,500.00	4,451.93	4,462.00	4,427.53	63.85	17.40	-148.15	1,280.08	-1,180.66	3,923.94	3,873.65	50.29	78.023	
5,600.00	4,524.89	4,513.17	4,478.23	65.36	17.62	-148.37	1,287.02	-1,180.42	3,986.68	3,935.71	50.97	78.215	
5,700.00	4,597.84	4,551.00	4,515.68	66.88	17.77	-148.52	1,292.39	-1,180.64	4,050.23	3,998.70	51.54	78.588	
5,800.00	4,670.80	4,602.01	4,566.18	68.39	17.99	-148.73	1,299.57	-1,181.31	4,114.42	4,062.22	52.20	78.814	
5,900.00	4,743.76	4,655.93	4,619.61	69.90	18.21	-148.95	1,306.69	-1,182.38	4,179.12	4,126.24	52.88	79.027	
6,000.00	4,816.71	4,723.42	4,686.61	71.41	18.49	-149.24	1,314.57	-1,183.95	4,244.10	4,190.45	53.65	79.108	
6,100.00	4,889.67	4,787.25	4,750.04	72.93	18.74	-149.52	1,321.61	-1,185.56	4,309.30	4,254.92	54.38	79.245	
6,200.00	4,962.63	4,871.58	4,833.63	74.44	19.10	-149.84	1,332.52	-1,187.72	4,374.65	4,319.35	55.30	79.109	
6,300.00	5,035.59	4,948.79	4,909.69	75.95	19.44	-150.08	1,345.68	-1,189.31	4,439.78	4,383.57	56.21	78.986	
6,400.00	5,108.54	5,014.23	4,973.96	77.47	19.74	-150.26	1,357.91	-1,190.76	4,505.10	4,448.06	57.03	78.991	
6,500.00	5,181.50	5,087.22	5,045.73	78.98	20.07	-150.45	1,371.08	-1,192.46	4,570.52	4,512.60	57.92	78.910	
6,600.00	5,254.46	5,165.67	5,123.14	80.49	20.41	-150.69	1,383.67	-1,194.30	4,635.96	4,577.14	58.83	78.805	
6,700.00	5,327.41	5,250.77	5,207.46	82.01	20.77	-150.97	1,395.00	-1,196.23	4,701.34	4,641.58	59.75	78.681	
6,800.00	5,400.37	5,328.39	5,284.62	83.52	21.07	-151.26	1,403.24	-1,197.88	4,766.63	4,706.06	60.57	78.691	
6,900.00	5,473.33	5,399.31	5,355.23	85.04	21.35	-151.52	1,409.70	-1,199.39	4,831.99	4,770.66	61.32	78.794	
7,000.00	5,546.28	5,465.32	5,420.86	86.55	21.61	-151.76	1,416.50	-1,200.86	4,897.48	4,835.43	62.05	78.927	
7,100.00	5,619.24	5,527.43	5,482.36	88.06	21.87	-151.94	1,425.10	-1,202.36	4,963.19	4,900.41	62.78	79.059	
7,200.00	5,692.20	5,590.76	5,544.90	89.58	22.14	-152.10	1,434.93	-1,204.03	5,029.09	4,965.56	63.54	79.154	
7,300.00	5,765.15	5,658.06	5,611.50	91.09	22.43	-152.29	1,444.44	-1,205.93	5,095.18	5,030.87	64.31	79.227	
7,400.00	5,838.11	7,400.00	5,911.18	92.61	29.56	-153.17	1,479.68	-1,207.90	5,159.69	5,086.79	72.90	70.782	
7,500.00	5,911.07	6,027.07	5,977.77	94.12	23.93	-153.34	1,488.62	-1,206.77	5,222.49	5,154.75	67.74	77.099	
7,600.00	5,984.03	6,065.00	6,015.35	95.64	24.08	-153.43	1,493.76	-1,206.35	5,285.79	5,217.53	68.27	77.429	
7,700.00	6,056.98	6,103.64	6,053.65	97.15	24.24	-153.53	1,498.85	-1,206.20	5,349.67	5,280.88	68.79	77.766	
7,800.00	6,129.94	6,154.00	6,103.62	98.67	24.45	-153.66	1,505.05	-1,206.51	5,414.24	5,344.83	69.41	78.006	
7,900.00	6,202.90	6,178.16	6,127.60	100.18	24.55	-153.72	1,507.93	-1,206.83	5,479.27	5,409.47	69.80	78.502	
8,000.00	6,275.85	6,227.29	6,176.35	101.70	24.75	-153.84	1,514.01	-1,207.65	5,544.76	5,474.37	70.39	78.767	
8,100.00	6,348.81	6,285.42	6,234.01	103.21	24.99	-153.99	1,521.31	-1,208.86	5,610.59	5,539.52	71.07	78.948	
8,200.00	6,421.77	6,435.13	6,382.67	104.73	25.59	-154.35	1,538.89	-1,211.53	5,676.47	5,603.97	72.50	78.294	
8,300.00	6,494.72	6,458.89	6,406.26	106.24	25.69	-154.41	1,541.61	-1,211.91	5,741.87	5,669.00	72.88	78.788	
8,400.00	6,567.68	6,511.00	6,458.05	107.76	25.90	-154.54	1,547.27	-1,213.04	5,807.84	5,734.36	73.48	79.036	
8,500.00	6,640.64	6,536.21	6,483.12	109.27	25.99	-154.61	1,549.81	-1,213.73	5,874.21	5,800.36	73.85	79.539	
8,600.00	6,713.59	6,581.33	6,528.04	110.79	26.17	-154.73	1,553.90	-1,215.12	5,941.02	5,866.65	74.38	79.876	
8,700.00	6,786.55	6,878.43	6,823.99	112.30	27.29	-155.50	1,578.90	-1,220.16	6,007.51	5,930.63	76.88	78.139	
8,800.00	6,859.51	6,909.85	6,855.33	113.82	27.41	-155.59	1,581.21	-1,220.16	6,072.13	5,994.83	77.30	78.555	
8,900.00	6,932.46	6,956.00	6,901.38	115.33	27.58	-155.71	1,584.15	-1,220.41	6,137.25	6,059.44	77.82	78.869	
9,000.00	7,005.42	6,995.37	6,940.72	116.85	27.70	-155.83	1,585.69	-1,220.79	6,202.78	6,124.53	78.25	79.268	
9,104.89	7,081.95	9,104.89	7,087.37	118.44	32.69	-156.43	1,576.19	-1,220.61	6,271.14	6,187.36	83.77	74.861	
9,150.00	7,115.15	7,135.00	7,079.84	119.12	28.07	-165.07	1,576.93	-1,220.67	6,300.74	6,221.53	79.21	79.545	
9,200.00	7,152.46	7,135.00	7,079.84	119.86	28.07	-175.07	1,576.93	-1,220.67	6,333.99	6,254.72	79.27	79.902	
9,250.00	7,190.04	7,175.62	7,119.65	120.57	28.13	174.68	1,568.94	-1,220.08	6,366.78	6,287.36	79.42	80.165	
9,300.00	7,227.59	7,182.91	7,126.75	121.25	28.14	164.60	1,567.25	-1,220.07	6,399.91	6,320.45	79.46	80.540	
9,350.00	7,264.83	7,224.00	7,166.32	121.89	28.21	154.84	1,556.23	-1,220.58	6,433.15	6,353.61	79.54	80.876	
9,400.00	7,301.48	7,224.00	7,166.32	122.48	28.21	145.60	1,556.23	-1,220.58	6,465.17	6,385.63	79.53	81.289	
9,450.00	7,337.26	7,224.00	7,166.32	123.01	28.21	137.00	1,556.23	-1,220.58	6,496.40	6,416.89	79.51	81.709	
9,500.00	7,371.90	7,224.00	7,166.32	123.49	28.21	129.12	1,556.23	-1,220.58	6,526.62	6,447.15	79.47	82.131	
9,550.00	7,405.13	7,224.00	7,166.32	123.91	28.21	122.00	1,556.23	-1,220.58	6,555.62	6,476.20	79.42	82.548	
9,600.00	7,436.70	7,224.00	7,166.32	124.27	28.21	115.66	1,556.23	-1,220.58	6,583.19	6,503.83	79.36	82.953	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,650.00	7,466.36	7,224.00	7,166.32	124.57	28.21	110.07	1,556.23	-1,220.58	6,609.14	6,529.83	79.30	83.339	
9,700.00	7,493.91	7,224.00	7,166.32	124.81	28.21	105.19	1,556.23	-1,220.58	6,633.30	6,554.04	79.25	83.698	
9,750.00	7,519.11	7,224.00	7,166.32	125.00	28.21	100.97	1,556.23	-1,220.58	6,655.50	6,576.29	79.21	84.023	
9,800.00	7,541.79	7,224.00	7,166.32	125.12	28.21	97.37	1,556.23	-1,220.58	6,675.59	6,596.41	79.18	84.306	
9,850.00	7,561.77	7,224.00	7,166.32	125.20	28.21	94.34	1,556.23	-1,220.58	6,693.44	6,614.27	79.18	84.540	
9,900.00	7,578.90	7,261.54	7,201.86	125.23	28.24	92.11	1,544.21	-1,221.96	6,708.33	6,629.09	79.23	84.665	
9,950.00	7,593.04	7,266.50	7,206.50	125.22	28.25	90.15	1,542.50	-1,222.21	6,721.20	6,641.92	79.28	84.775	
10,000.00	7,604.09	7,271.13	7,210.83	125.17	28.25	88.64	1,540.88	-1,222.46	6,731.52	6,652.16	79.36	84.819	
10,050.00	7,611.97	7,275.40	7,214.82	125.08	28.26	87.58	1,539.36	-1,222.71	6,739.23	6,659.76	79.48	84.794	
10,100.00	7,616.61	7,313.00	7,249.50	124.97	28.29	87.19	1,525.12	-1,225.40	6,744.76	6,665.12	79.64	84.687	
10,145.95	7,618.00	7,313.00	7,249.50	124.84	28.29	86.94	1,525.12	-1,225.40	6,746.96	6,667.14	79.81	84.534	
10,200.00	7,618.00	7,313.00	7,249.50	124.69	28.29	86.94	1,525.12	-1,225.40	6,748.42	6,668.39	80.04	84.317	
10,300.00	7,618.00	7,313.00	7,249.50	124.41	28.29	86.94	1,525.12	-1,225.40	6,752.28	6,671.81	80.47	83.910	
10,400.00	7,618.00	8,293.00	7,789.70	124.14	29.19	91.54	774.17	-1,233.96	6,752.61	6,675.58	77.03	87.661	
10,500.00	7,618.00	8,369.23	7,792.01	123.88	29.47	91.56	698.06	-1,230.47	6,747.77	6,670.54	77.23	87.373	
10,600.00	7,618.00	8,439.80	7,792.15	123.63	29.78	91.56	627.55	-1,227.53	6,743.28	6,665.74	77.54	86.971	
10,700.00	7,618.00	8,497.34	7,792.12	123.40	30.06	91.56	570.05	-1,225.41	6,739.29	6,661.34	77.95	86.458	
10,800.00	7,618.00	8,560.00	7,792.56	123.18	30.40	91.56	507.42	-1,223.65	6,736.07	6,657.65	78.42	85.892	
10,900.00	7,618.00	8,594.66	7,792.90	122.96	30.61	91.57	472.77	-1,222.93	6,733.56	6,654.56	79.00	85.235	
11,000.00	7,618.00	8,649.00	7,793.17	122.76	30.95	91.57	418.43	-1,222.18	6,731.82	6,652.22	79.60	84.570	
11,100.00	7,618.00	8,707.94	7,792.86	122.57	31.36	91.57	359.50	-1,221.77	6,730.74	6,650.46	80.28	83.841	
11,200.00	7,618.00	8,794.27	7,790.81	122.39	32.00	91.55	273.19	-1,221.56	6,730.09	6,649.03	81.06	83.023	
11,300.00	7,618.00	8,888.67	7,786.73	122.23	32.77	91.51	178.88	-1,221.42	6,729.49	6,647.51	81.98	82.092	
11,393.88	7,618.00	8,946.56	7,784.28	122.08	33.28	91.49	121.04	-1,221.46	6,729.17	6,646.35	82.83	81.243	
11,400.00	7,618.00	8,949.47	7,784.18	122.07	33.30	91.49	118.13	-1,221.48	6,729.18	6,646.29	82.88	81.191	
11,500.00	7,618.00	9,006.00	7,782.80	121.93	33.81	91.48	61.62	-1,221.99	6,729.62	6,645.80	83.83	80.281	
11,600.00	7,618.00	9,362.00	7,761.22	121.79	37.53	91.30	-293.49	-1,222.07	6,731.05	6,644.32	86.73	77.609	
11,700.00	7,618.00	9,362.00	7,761.22	121.67	37.53	91.30	-293.49	-1,222.07	6,728.69	6,641.21	87.48	76.913	
11,800.00	7,618.00	9,405.55	7,760.97	121.56	38.04	91.29	-337.03	-1,221.42	6,727.23	6,638.61	88.62	75.911	
11,853.59	7,618.00	9,418.16	7,761.17	121.51	38.18	91.30	-349.64	-1,221.40	6,726.98	6,637.82	89.16	75.452	
11,900.00	7,618.00	9,451.00	7,762.22	121.46	38.56	91.31	-382.46	-1,221.70	6,727.17	6,637.37	89.80	74.910	
12,000.00	7,618.00	9,451.00	7,762.22	121.38	38.56	91.31	-382.46	-1,221.70	6,727.96	6,637.35	90.61	74.253	
12,100.00	7,618.00	9,518.00	7,765.33	121.30	39.37	91.33	-449.37	-1,223.00	6,729.69	6,637.64	92.05	73.108	
12,200.00	7,618.00	9,600.63	7,769.05	121.24	40.38	91.36	-531.89	-1,225.02	6,731.89	6,638.19	93.70	71.847	
12,300.00	7,618.00	12,300.00	7,772.37	121.19	75.24	91.39	-698.20	-1,228.74	6,733.95	6,604.88	129.07	52.173	
12,400.00	7,618.00	9,967.94	7,776.04	121.16	45.15	91.42	-899.07	-1,229.85	6,733.93	6,634.33	99.60	67.612	
12,469.20	7,618.00	10,023.12	7,776.08	121.14	45.91	91.42	-954.25	-1,229.96	6,733.83	6,632.93	100.91	66.734	
12,500.00	7,618.00	10,045.34	7,776.31	121.14	46.21	91.42	-976.47	-1,230.04	6,733.85	6,632.40	101.46	66.371	
12,600.00	7,618.00	10,122.49	7,777.89	121.13	47.28	91.44	-1,053.60	-1,230.51	6,734.17	6,630.80	103.37	65.148	
12,700.00	7,618.00	10,231.99	7,779.70	121.13	48.83	91.45	-1,163.08	-1,231.37	6,734.67	6,628.89	105.78	63.667	
12,800.00	7,618.00	10,313.31	7,780.12	121.15	50.00	91.46	-1,244.40	-1,231.95	6,735.07	6,627.23	107.84	62.453	
12,900.00	7,618.00	10,386.32	7,781.81	121.18	51.06	91.47	-1,317.38	-1,232.75	6,735.88	6,626.06	109.83	61.333	
13,000.00	7,618.00	10,453.99	7,783.40	121.23	52.05	91.48	-1,385.02	-1,233.74	6,737.10	6,625.34	111.76	60.284	
13,100.00	7,618.00	10,520.00	7,783.61	121.29	53.02	91.49	-1,451.02	-1,235.18	6,738.91	6,625.23	113.68	59.281	
13,200.00	7,618.00	10,600.15	7,784.01	121.37	54.20	91.49	-1,531.14	-1,237.24	6,741.13	6,625.28	115.85	58.187	
13,300.00	7,618.00	10,666.76	7,785.43	121.46	55.20	91.50	-1,597.70	-1,239.09	6,743.64	6,625.80	117.84	57.226	
13,400.00	7,618.00	11,199.15	7,786.27	121.57	63.41	91.51	-2,129.54	-1,237.87	6,742.48	6,614.32	128.16	52.608	
13,500.00	7,618.00	11,233.00	7,787.01	121.70	63.95	91.51	-2,163.37	-1,236.94	6,739.38	6,609.67	129.71	51.958	
13,600.00	7,618.00	11,309.94	7,788.96	121.84	65.17	91.53	-2,240.27	-1,235.31	6,736.98	6,604.90	132.08	51.006	
13,700.00	7,618.00	11,375.60	7,790.08	122.01	66.22	91.54	-2,305.91	-1,234.14	6,734.91	6,600.65	134.25	50.165	
13,800.00	7,618.00	11,518.23	7,789.83	122.19	68.51	91.54	-2,448.52	-1,231.83	6,733.02	6,595.07	137.95	48.809	
13,900.00	7,618.00	11,598.95	7,793.25	122.39	69.81	91.57	-2,529.14	-1,230.16	6,730.72	6,590.25	140.47	47.914	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
14,000.00	7,618.00	11,671.34	7,798.23	122.62	70.99	91.61	-2,601.35	-1,228.87	6,728.79	6,585.93	142.86	47.101	
14,100.00	7,618.00	11,738.95	7,803.68	122.86	72.09	91.66	-2,668.72	-1,227.93	6,727.30	6,582.14	145.16	46.345	
14,200.00	7,618.00	11,812.05	7,809.79	123.12	73.28	91.71	-2,741.56	-1,227.26	6,726.28	6,578.70	147.58	45.576	
14,300.00	7,618.00	11,907.52	7,815.26	123.41	74.84	91.76	-2,836.88	-1,226.72	6,725.55	6,575.07	150.48	44.693	
14,400.00	7,618.00	12,084.61	7,819.48	123.72	77.75	91.79	-3,013.88	-1,224.84	6,724.23	6,569.11	155.12	43.347	
14,500.00	7,618.00	12,226.70	7,816.61	124.06	80.09	91.77	-3,155.91	-1,222.24	6,722.01	6,562.96	159.05	42.264	
14,600.00	7,618.00	12,213.00	7,817.20	124.42	79.87	91.78	-3,142.23	-1,222.52	6,720.42	6,560.77	159.65	42.094	
14,700.00	7,618.00	12,268.79	7,814.77	124.80	80.79	91.75	-3,197.96	-1,222.04	6,719.45	6,557.71	161.73	41.546	
14,708.69	7,618.00	12,271.10	7,814.66	124.83	80.83	91.75	-3,200.27	-1,222.04	6,719.43	6,557.57	161.86	41.514	
14,800.00	7,618.00	12,302.00	7,813.17	125.21	81.34	91.74	-3,231.13	-1,222.36	6,719.81	6,556.49	163.33	41.144	
14,900.00	7,618.00	12,422.40	7,808.46	125.65	83.33	91.70	-3,351.43	-1,223.59	6,720.36	6,553.55	166.82	40.285	
15,000.00	7,618.00	15,000.00	7,807.81	126.11	126.09	91.70	-3,457.85	-1,224.65	6,721.01	6,509.99	211.03	31.849	
15,100.00	7,618.00	12,715.68	7,805.17	126.61	88.20	91.67	-3,644.65	-1,224.21	6,720.08	6,544.99	175.09	38.380	
15,191.89	7,618.00	12,748.00	7,804.91	127.08	88.74	91.67	-3,676.98	-1,224.07	6,719.56	6,542.94	176.62	38.044	
15,200.00	7,618.00	12,748.00	7,804.91	127.13	88.74	91.67	-3,676.98	-1,224.07	6,719.57	6,542.87	176.69	38.029	
15,300.00	7,618.00	12,784.74	7,805.06	127.68	89.36	91.67	-3,713.71	-1,224.26	6,720.01	6,541.62	178.39	37.670	
15,400.00	7,618.00	12,837.00	7,806.04	128.26	90.23	91.68	-3,765.95	-1,225.61	6,721.89	6,541.45	180.44	37.254	
15,500.00	7,618.00	12,837.00	7,806.04	128.87	90.23	91.68	-3,765.95	-1,225.61	6,724.41	6,543.14	181.27	37.097	
15,600.00	7,618.00	12,897.04	7,807.63	129.51	91.23	91.69	-3,825.92	-1,227.99	6,728.05	6,544.57	183.48	36.670	
15,700.00	7,618.00	13,590.67	7,821.69	130.18	102.92	91.81	-4,518.74	-1,228.59	6,730.03	6,529.51	200.52	33.562	
15,800.00	7,618.00	13,639.00	7,823.71	130.88	103.75	91.83	-4,566.99	-1,226.69	6,725.67	6,523.08	202.59	33.199	
15,900.00	7,618.00	13,639.00	7,823.71	131.61	103.75	91.83	-4,566.99	-1,226.69	6,722.22	6,518.72	203.50	33.033	
16,000.00	7,618.00	13,676.94	7,824.93	132.37	104.39	91.84	-4,604.90	-1,225.81	6,719.86	6,514.57	205.29	32.734	
16,100.00	7,618.00	13,728.00	7,825.86	133.17	105.26	91.85	-4,655.95	-1,225.57	6,718.78	6,511.40	207.38	32.398	
16,170.86	7,618.00	13,728.00	7,825.86	133.75	105.26	91.85	-4,655.95	-1,225.57	6,718.40	6,510.42	207.99	32.302	
16,200.00	7,618.00	13,736.02	7,825.94	133.99	105.40	91.85	-4,663.97	-1,225.62	6,718.46	6,510.04	208.43	32.234	
16,300.00	7,618.00	13,946.77	7,825.23	134.84	108.99	91.84	-4,874.70	-1,225.05	6,717.72	6,503.38	214.35	31.341	
16,400.00	7,618.00	13,995.00	7,825.49	135.72	109.81	91.85	-4,922.93	-1,224.95	6,716.98	6,500.61	216.37	31.044	
16,500.00	7,618.00	14,109.34	7,825.94	136.63	111.76	91.85	-5,037.27	-1,224.78	6,716.53	6,496.54	220.00	30.530	
16,600.00	7,618.00	14,173.00	7,827.30	137.57	112.85	91.86	-5,100.91	-1,224.62	6,716.02	6,493.62	222.40	30.198	
16,615.81	7,618.00	14,173.00	7,827.30	137.72	112.85	91.86	-5,100.91	-1,224.62	6,716.00	6,493.47	222.53	30.180	
16,700.00	7,618.00	14,202.55	7,828.14	138.54	113.36	91.87	-5,130.45	-1,224.77	6,716.31	6,492.35	223.96	29.989	
16,800.00	7,618.00	14,462.88	7,825.81	139.53	117.80	91.85	-5,390.70	-1,226.43	6,717.62	6,486.45	231.18	29.058	
16,900.00	7,618.00	14,505.57	7,824.95	140.55	118.54	91.84	-5,433.38	-1,226.12	6,716.48	6,483.40	233.08	28.816	
17,000.00	7,618.00	14,646.62	7,825.65	141.60	120.96	91.85	-5,574.41	-1,225.00	6,715.33	6,477.91	237.41	28.286	
17,100.00	7,618.00	14,708.00	7,827.07	142.67	122.02	91.86	-5,635.77	-1,224.80	6,714.57	6,474.78	239.78	28.003	
17,150.68	7,618.00	14,708.00	7,827.07	143.22	122.02	91.86	-5,635.77	-1,224.80	6,714.38	6,474.17	240.21	27.953	
17,200.00	7,618.00	14,729.08	7,827.60	143.77	122.38	91.87	-5,656.85	-1,224.92	6,714.50	6,473.36	241.14	27.845	
17,300.00	7,618.00	14,797.00	7,828.95	144.88	123.54	91.88	-5,724.75	-1,225.66	6,715.27	6,471.61	243.66	27.560	
17,400.00	7,618.00	17,400.00	7,829.05	146.02	168.18	91.88	-5,816.94	-1,226.90	6,716.28	6,426.46	289.82	23.174	
17,500.00	7,618.00	14,934.03	7,828.69	147.19	125.89	91.87	-5,861.76	-1,227.67	6,717.67	6,468.96	248.70	27.011	
17,600.00	7,618.00	14,976.00	7,828.84	148.37	126.61	91.88	-5,903.71	-1,228.77	6,719.94	6,469.40	250.54	26.822	
17,700.00	7,618.00	15,088.42	7,829.83	149.57	128.53	91.88	-6,016.08	-1,232.16	6,722.66	6,468.48	254.19	26.448	
17,800.00	7,618.00	15,332.00	7,829.54	150.79	132.72	91.88	-6,259.62	-1,235.21	6,722.81	6,461.59	261.21	25.737	
17,900.00	7,618.00	15,385.97	7,829.88	152.03	133.65	91.88	-6,313.59	-1,235.48	6,723.24	6,459.85	263.39	25.526	
18,000.00	7,618.00	15,421.00	7,830.84	153.29	134.26	91.89	-6,348.60	-1,236.14	6,724.82	6,459.75	265.06	25.371	
18,100.00	7,618.00	15,524.79	7,834.32	154.57	136.04	91.92	-6,452.31	-1,238.48	6,726.85	6,458.33	268.52	25.051	
18,200.00	7,618.00	15,599.00	7,835.51	155.86	137.32	91.93	-6,526.48	-1,240.32	6,729.03	6,457.82	271.21	24.811	
18,300.00	7,618.00	15,765.68	7,839.21	157.17	140.19	91.96	-6,693.09	-1,243.28	6,730.32	6,454.00	276.32	24.357	
18,400.00	7,618.00	16,083.42	7,842.01	158.49	145.69	91.98	-7,010.74	-1,245.08	6,731.69	6,446.40	285.29	23.596	
18,500.00	7,618.00	16,134.00	7,843.38	159.82	146.57	92.00	-7,061.30	-1,244.51	6,730.26	6,442.83	287.43	23.415	
18,600.00	7,618.00	16,176.74	7,844.76	161.17	147.31	92.01	-7,104.01	-1,244.36	6,729.61	6,440.25	289.35	23.257	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
18,639.76	7,618.00	16,197.54	7,845.39	161.71	147.67	92.01	-7,124.81	-1,244.38	6,729.55	6,439.34	290.21	23.188	
18,700.00	7,618.00	16,223.00	7,846.14	162.54	148.11	92.02	-7,150.25	-1,244.49	6,729.69	6,438.33	291.35	23.098	
18,800.00	7,618.00	16,287.58	7,847.21	163.91	149.23	92.03	-7,214.82	-1,245.11	6,730.41	6,436.59	293.82	22.907	
18,900.00	7,618.00	16,357.61	7,847.16	165.30	150.44	92.03	-7,284.84	-1,246.28	6,731.71	6,435.30	296.41	22.710	
19,000.00	7,618.00	16,538.96	7,850.11	166.70	153.58	92.05	-7,466.15	-1,248.49	6,732.70	6,430.75	301.95	22.297	
19,100.00	7,618.00	16,685.17	7,856.28	168.10	156.12	92.10	-7,612.23	-1,248.66	6,732.63	6,426.06	306.57	21.961	
19,200.00	7,618.00	16,758.00	7,858.12	169.52	157.39	92.12	-7,685.03	-1,248.74	6,732.48	6,423.21	309.28	21.768	
19,250.49	7,618.00	16,865.75	7,860.32	170.24	159.26	92.14	-7,792.76	-1,248.53	6,732.23	6,419.74	312.50	21.543	
19,300.00	7,618.00	16,909.39	7,861.48	170.95	160.02	92.15	-7,836.38	-1,248.28	6,731.83	6,417.80	314.04	21.437	
19,400.00	7,618.00	16,968.25	7,862.99	172.39	161.05	92.16	-7,895.22	-1,248.09	6,731.31	6,414.93	316.38	21.276	
19,418.94	7,618.00	16,977.01	7,863.12	172.67	161.20	92.16	-7,903.97	-1,248.11	6,731.29	6,414.54	316.76	21.251	
19,500.00	7,618.00	17,025.00	7,863.27	173.84	162.03	92.16	-7,951.97	-1,248.46	6,731.58	6,412.92	318.65	21.125	
19,600.00	7,618.00	17,266.03	7,869.21	175.30	166.24	92.22	-8,192.89	-1,247.35	6,730.67	6,404.89	325.77	20.661	
19,700.00	7,618.00	17,353.46	7,869.70	176.76	167.76	92.22	-8,280.31	-1,246.31	6,729.16	6,400.28	328.87	20.461	
19,800.00	7,618.00	17,471.00	7,867.23	178.24	169.81	92.20	-8,397.81	-1,244.73	6,727.36	6,394.61	332.75	20.217	
19,896.19	7,618.00	17,471.00	7,867.23	179.66	169.81	92.20	-8,397.81	-1,244.73	6,726.44	6,392.90	333.54	20.167	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-55.16	787.25	-1,130.89	1,377.96				
100.00	100.00	89.96	89.96	0.13	0.15	-55.16	787.29	-1,130.91	1,377.96	1,377.68	0.28	4,851.968	
200.00	200.00	188.81	188.81	0.49	0.31	-55.15	787.42	-1,130.96	1,378.08	1,377.27	0.81	1,708.037	ES
300.00	299.98	287.65	287.65	0.85	0.48	-124.50	787.63	-1,131.06	1,379.27	1,377.94	1.33	1,040.295	
400.00	399.84	383.55	383.55	1.21	0.76	-124.61	788.01	-1,131.21	1,382.59	1,380.62	1.97	701.762	
500.00	499.45	477.97	477.96	1.58	1.10	-124.78	788.81	-1,131.47	1,388.28	1,385.61	2.68	518.545	
600.00	598.70	572.04	572.03	1.97	1.44	-125.00	790.04	-1,131.87	1,396.38	1,392.98	3.40	411.239	
700.00	697.47	673.86	673.83	2.38	1.80	-125.32	791.64	-1,132.26	1,406.66	1,402.50	4.16	338.405	
800.00	795.62	760.77	760.73	2.83	2.12	-125.63	793.00	-1,132.85	1,419.30	1,414.42	4.88	290.550	
900.00	893.06	858.41	858.34	3.31	2.47	-126.06	794.95	-1,133.75	1,434.56	1,428.89	5.67	252.858	
1,000.00	989.64	964.60	964.52	3.83	2.85	-126.62	796.82	-1,134.31	1,451.63	1,445.11	6.52	222.720	
1,100.00	1,085.27	1,061.48	1,061.33	4.40	3.19	-127.08	800.22	-1,133.47	1,470.75	1,463.39	7.36	199.954	
1,200.00	1,179.82	1,169.39	1,169.11	5.02	3.58	-127.65	805.02	-1,131.54	1,491.93	1,483.66	8.26	180.557	
1,300.00	1,273.17	1,271.48	1,271.07	5.70	3.94	-128.21	809.59	-1,128.69	1,514.65	1,505.47	9.18	164.998	
1,400.00	1,365.21	1,358.06	1,357.46	6.43	4.26	-128.61	814.44	-1,125.76	1,539.86	1,529.79	10.07	152.879	
1,500.00	1,455.84	1,449.43	1,448.42	7.23	4.59	-129.00	822.02	-1,121.71	1,567.85	1,556.83	11.02	142.264	
1,600.00	1,544.94	1,544.08	1,542.31	8.09	4.95	-129.34	832.55	-1,116.11	1,598.25	1,586.23	12.02	132.919	
1,700.00	1,632.39	1,636.20	1,633.32	9.01	5.31	-129.59	845.09	-1,109.45	1,630.97	1,617.91	13.06	124.862	
1,800.00	1,718.11	1,703.44	1,699.61	10.00	5.58	-129.59	855.31	-1,104.61	1,666.73	1,652.70	14.02	118.843	
1,900.00	1,801.97	1,770.99	1,766.17	11.07	5.85	-129.58	866.03	-1,100.54	1,706.07	1,691.06	15.01	113.639	
2,000.00	1,883.88	1,836.93	1,831.16	12.20	6.12	-129.54	876.70	-1,097.33	1,748.86	1,732.85	16.01	109.203	
2,100.00	1,963.74	1,902.00	1,895.31	13.41	6.39	-129.47	887.40	-1,094.97	1,795.08	1,778.05	17.03	105.406	
2,200.00	2,041.45	1,957.72	1,950.24	14.69	6.62	-129.27	896.65	-1,093.66	1,844.73	1,826.72	18.01	102.444	
2,300.00	2,116.92	2,028.01	2,019.54	16.05	6.91	-129.23	908.34	-1,092.87	1,897.69	1,878.61	19.08	99.462	
2,357.48	2,159.25	2,081.45	2,072.25	16.86	7.13	-129.38	917.14	-1,092.16	1,929.11	1,909.33	19.78	97.526	
2,400.00	2,190.27	2,178.82	2,168.15	17.47	7.54	-130.65	933.57	-1,088.75	1,952.07	1,931.42	20.65	94.538	
2,500.00	2,263.22	2,244.24	2,232.50	18.92	7.82	-131.44	944.98	-1,085.58	2,005.50	1,983.78	21.72	92.332	
2,600.00	2,336.18	2,321.33	2,308.29	20.37	8.16	-132.33	958.57	-1,081.95	2,059.55	2,036.70	22.85	90.126	
2,700.00	2,409.14	2,395.56	2,381.32	21.84	8.48	-133.15	971.46	-1,078.60	2,114.08	2,090.13	23.95	88.264	
2,800.00	2,482.09	2,468.90	2,453.55	23.31	8.80	-133.94	983.81	-1,075.62	2,169.22	2,144.19	25.03	86.666	
2,900.00	2,555.05	2,544.28	2,527.82	24.78	9.13	-134.73	996.32	-1,072.75	2,224.84	2,198.73	26.11	85.225	
3,000.00	2,628.01	3,000.00	2,689.85	26.27	11.13	-136.34	1,022.84	-1,063.65	2,279.44	2,250.40	29.04	78.504	
3,100.00	2,700.96	2,788.69	2,768.37	27.75	10.20	-137.05	1,036.35	-1,057.06	2,332.36	2,303.50	28.86	80.819	
3,200.00	2,773.92	2,830.00	2,808.95	29.24	10.39	-137.39	1,043.52	-1,054.16	2,386.61	2,356.91	29.69	80.372	
3,300.00	2,846.88	2,891.46	2,869.44	30.73	10.66	-137.92	1,053.84	-1,050.68	2,442.06	2,411.42	30.64	79.697	
3,400.00	2,919.83	2,954.26	2,931.40	32.23	10.93	-138.45	1,063.67	-1,047.82	2,498.39	2,466.81	31.57	79.129	
3,500.00	2,992.79	3,048.53	3,024.64	33.72	11.33	-139.27	1,077.07	-1,044.13	2,555.29	2,522.60	32.69	78.162	
3,600.00	3,065.75	3,218.90	3,193.20	35.22	12.05	-140.67	1,098.93	-1,032.84	2,609.65	2,575.36	34.29	76.114	
3,700.00	3,138.71	3,276.00	3,249.50	36.72	12.30	-141.09	1,107.34	-1,028.35	2,664.02	2,628.87	35.16	75.777	
3,800.00	3,211.66	3,336.86	3,309.54	38.22	12.56	-141.53	1,116.29	-1,024.07	2,719.24	2,683.21	36.04	75.457	
3,900.00	3,284.62	3,416.18	3,387.92	39.72	12.91	-142.09	1,127.39	-1,019.02	2,775.09	2,738.06	37.03	74.942	
4,000.00	3,357.58	3,491.11	3,461.77	41.22	13.23	-142.58	1,138.98	-1,013.88	2,830.94	2,792.95	38.00	74.506	
4,100.00	3,430.53	3,551.03	3,520.91	42.73	13.49	-142.97	1,147.86	-1,010.20	2,887.44	2,848.59	38.84	74.339	
4,200.00	3,503.49	3,611.06	3,580.29	44.23	13.75	-143.36	1,156.08	-1,007.02	2,944.63	2,904.96	39.66	74.239	
4,300.00	3,576.45	3,734.77	3,702.85	45.74	14.27	-144.18	1,171.47	-1,000.21	3,001.72	2,960.81	40.91	73.373	
4,400.00	3,649.40	3,787.79	3,755.28	47.25	14.50	-144.50	1,178.68	-997.01	3,058.66	3,016.99	41.67	73.399	
4,500.00	3,722.36	3,843.63	3,810.36	48.75	14.74	-144.81	1,187.36	-993.97	3,116.41	3,073.95	42.46	73.398	
4,600.00	3,795.32	3,899.00	3,864.86	50.26	14.99	-145.09	1,196.72	-991.25	3,174.82	3,131.58	43.24	73.416	
4,700.00	3,868.27	3,943.87	3,909.06	51.77	15.18	-145.32	1,204.24	-989.45	3,234.06	3,190.13	43.93	73.616	
4,800.00	3,941.23	3,988.00	3,952.65	53.28	15.38	-145.55	1,210.96	-988.26	3,294.26	3,249.66	44.59	73.873	
4,900.00	4,014.19	4,100.60	4,064.02	54.79	15.86	-146.14	1,227.27	-985.27	3,354.57	3,308.78	45.78	73.271	
5,000.00	4,087.15	4,244.90	4,206.15	56.30	16.50	-146.79	1,251.40	-979.17	3,414.04	3,366.77	47.27	72.225	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,160.10	4,302.29	4,262.62	57.81	16.76	-147.04	1,261.24	-976.15	3,472.73	3,424.67	48.05	72.269	
5,200.00	4,233.06	4,358.93	4,318.33	59.32	17.02	-147.27	1,271.12	-973.68	3,532.15	3,483.32	48.82	72.343	
5,300.00	4,306.02	4,457.33	4,415.09	60.83	17.46	-147.65	1,288.44	-969.28	3,591.61	3,541.66	49.95	71.906	
5,400.00	4,378.97	4,508.64	4,465.58	62.34	17.69	-147.85	1,297.32	-967.00	3,651.16	3,600.50	50.67	72.064	
5,500.00	4,451.93	4,556.00	4,512.28	63.85	17.91	-148.04	1,305.06	-965.38	3,711.49	3,660.15	51.33	72.300	
5,600.00	4,524.89	4,768.63	4,722.15	65.36	18.84	-148.88	1,337.44	-955.09	3,770.64	3,717.30	53.34	70.691	
5,700.00	4,597.84	4,964.60	4,914.35	66.88	19.75	-149.51	1,371.80	-938.45	3,826.83	3,771.58	55.26	69.254	
5,800.00	4,670.80	5,027.93	4,976.33	68.39	20.05	-149.70	1,383.31	-932.38	3,882.54	3,826.44	56.10	69.208	
5,900.00	4,743.76	5,090.00	5,037.21	69.90	20.34	-149.89	1,394.07	-926.87	3,938.82	3,881.90	56.92	69.203	
6,000.00	4,816.71	5,130.82	5,077.35	71.41	20.52	-150.02	1,400.71	-923.58	3,995.73	3,938.19	57.54	69.442	
6,100.00	4,889.67	6,100.00	5,176.87	72.93	24.82	-150.35	1,415.65	-915.86	4,053.06	3,990.68	62.37	64.980	
6,200.00	4,962.63	5,331.75	5,275.43	74.44	21.41	-150.68	1,430.07	-907.17	4,109.48	4,049.79	59.69	68.847	
6,300.00	5,035.59	5,392.65	5,335.51	75.95	21.69	-150.88	1,438.70	-902.16	4,166.39	4,105.94	60.45	68.924	
6,400.00	5,108.54	5,459.81	5,401.61	77.47	21.99	-151.08	1,449.32	-896.77	4,223.59	4,162.33	61.27	68.936	
6,500.00	5,181.50	5,511.55	5,452.52	78.98	22.22	-151.22	1,457.72	-892.90	4,281.28	4,219.32	61.96	69.094	
6,600.00	5,254.46	5,564.09	5,504.27	80.49	22.46	-151.37	1,466.00	-889.32	4,339.55	4,276.89	62.65	69.264	
6,700.00	5,327.41	5,625.00	5,564.43	82.01	22.73	-151.56	1,474.77	-885.59	4,398.36	4,334.97	63.39	69.381	
6,800.00	5,400.37	5,669.81	5,608.70	83.52	22.92	-151.69	1,481.22	-883.12	4,457.68	4,393.68	64.00	69.652	
6,900.00	5,473.33	5,714.00	5,652.27	85.04	23.12	-151.81	1,488.29	-880.89	4,517.54	4,452.94	64.60	69.930	
7,000.00	5,546.28	5,758.84	5,696.46	86.55	23.32	-151.92	1,495.64	-878.96	4,578.03	4,512.82	65.21	70.209	
7,100.00	5,619.24	5,803.00	5,740.06	88.06	23.51	-152.04	1,502.50	-877.52	4,639.26	4,573.46	65.79	70.511	
7,200.00	5,692.20	5,877.20	5,813.23	89.58	23.84	-152.23	1,514.60	-875.38	4,700.88	4,634.22	66.66	70.522	
7,300.00	5,765.15	5,931.49	5,866.66	91.09	24.08	-152.35	1,524.15	-873.85	4,762.61	4,695.26	67.35	70.716	
7,400.00	5,838.11	6,139.82	6,072.48	92.61	24.99	-152.88	1,555.01	-865.47	4,823.15	4,753.79	69.36	69.539	
7,500.00	5,911.07	6,184.81	6,116.98	94.12	25.18	-153.00	1,561.22	-863.27	4,883.32	4,813.38	69.94	69.823	
7,600.00	5,984.03	6,225.28	6,157.07	95.64	25.35	-153.11	1,566.50	-861.61	4,944.12	4,873.65	70.47	70.160	
7,700.00	6,056.98	6,286.63	6,217.92	97.15	25.60	-153.28	1,574.07	-859.52	5,005.49	4,934.32	71.17	70.336	
7,800.00	6,129.94	6,363.84	6,294.45	98.67	25.93	-153.48	1,583.88	-856.85	5,066.88	4,994.88	72.00	70.376	
7,900.00	6,202.90	6,426.00	6,355.95	100.18	26.19	-153.63	1,592.73	-854.86	5,128.49	5,055.77	72.72	70.527	
8,000.00	6,275.85	8,000.00	6,530.30	101.70	33.34	-153.98	1,621.75	-847.22	5,188.95	5,108.16	80.78	64.232	
8,100.00	6,348.81	7,140.00	7,060.46	103.21	29.04	-155.53	1,663.30	-800.06	5,248.77	5,170.41	78.35	66.988	
8,200.00	6,421.77	7,140.00	7,060.46	104.73	29.04	-155.53	1,663.30	-800.06	5,302.79	5,224.16	78.63	67.438	
8,300.00	6,494.72	7,140.00	7,060.46	106.24	29.04	-155.53	1,663.30	-800.06	5,358.13	5,279.25	78.89	67.921	
8,400.00	6,567.68	7,140.00	7,060.46	107.76	29.04	-155.53	1,663.30	-800.06	5,414.76	5,335.64	79.12	68.434	
8,500.00	6,640.64	7,185.77	7,105.27	109.27	29.12	-155.79	1,655.88	-794.57	5,470.98	5,391.55	79.43	68.879	
8,600.00	6,713.59	7,229.00	7,147.18	110.79	29.19	-156.07	1,645.66	-792.03	5,530.36	5,450.68	79.68	69.404	
8,700.00	6,786.55	7,229.00	7,147.18	112.30	29.19	-156.07	1,645.66	-792.03	5,589.46	5,509.58	79.88	69.974	
8,800.00	6,859.51	7,229.00	7,147.18	113.82	29.19	-156.07	1,645.66	-792.03	5,649.72	5,569.66	80.06	70.570	
8,900.00	6,932.46	7,229.00	7,147.18	115.33	29.19	-156.07	1,645.66	-792.03	5,711.09	5,630.86	80.22	71.192	
9,000.00	7,005.42	7,229.00	7,147.18	116.85	29.19	-156.07	1,645.66	-792.03	5,773.53	5,693.16	80.37	71.838	
9,104.89	7,081.95	7,229.00	7,147.18	118.44	29.19	-156.07	1,645.66	-792.03	5,840.16	5,759.65	80.51	72.540	
9,150.00	7,115.15	7,229.00	7,147.18	119.12	29.19	-164.64	1,645.66	-792.03	5,869.32	5,788.76	80.56	72.854	
9,200.00	7,152.46	7,229.00	7,147.18	119.86	29.19	-174.53	1,645.66	-792.03	5,902.13	5,821.52	80.61	73.218	
9,250.00	7,190.04	7,229.00	7,147.18	120.57	29.19	175.38	1,645.66	-792.03	5,935.18	5,854.54	80.64	73.599	
9,300.00	7,227.59	7,229.00	7,147.18	121.25	29.19	165.33	1,645.66	-792.03	5,968.24	5,887.58	80.66	73.993	
9,350.00	7,264.83	7,265.40	7,181.95	121.89	29.22	155.53	1,634.93	-791.46	6,000.43	5,919.74	80.69	74.368	
9,400.00	7,301.48	7,272.24	7,188.43	122.48	29.22	146.28	1,632.72	-791.46	6,032.49	5,951.81	80.68	74.772	
9,450.00	7,337.26	7,279.13	7,194.94	123.01	29.23	137.65	1,630.45	-791.49	6,063.78	5,983.12	80.66	75.177	
9,500.00	7,371.90	7,318.00	7,231.21	123.49	29.25	129.84	1,616.52	-792.28	6,094.54	6,013.91	80.63	75.587	
9,550.00	7,405.13	7,318.00	7,231.21	123.91	29.25	122.73	1,616.52	-792.28	6,123.43	6,042.83	80.60	75.975	
9,600.00	7,436.70	7,318.00	7,231.21	124.27	29.25	116.37	1,616.52	-792.28	6,150.96	6,070.39	80.57	76.347	
9,650.00	7,466.36	7,318.00	7,231.21	124.57	29.25	110.76	1,616.52	-792.28	6,176.92	6,096.38	80.54	76.697	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,700.00	7,493.91	7,318.00	7,231.21	124.81	29.25	105.85	1,616.52	-792.28	6,201.15	6,120.63	80.52	77.017	
9,750.00	7,519.11	7,318.00	7,231.21	125.00	29.25	101.61	1,616.52	-792.28	6,223.47	6,142.96	80.51	77.301	
9,800.00	7,541.79	7,318.00	7,231.21	125.12	29.25	97.97	1,616.52	-792.28	6,243.75	6,163.23	80.52	77.541	
9,850.00	7,561.77	7,348.59	7,259.26	125.20	29.26	95.12	1,604.38	-793.43	6,261.66	6,181.13	80.53	77.752	
9,900.00	7,578.90	7,361.62	7,271.09	125.23	29.26	92.68	1,598.94	-793.98	6,277.26	6,196.68	80.58	77.898	
9,950.00	7,593.04	7,374.26	7,282.49	125.22	29.26	90.74	1,593.51	-794.56	6,290.41	6,209.75	80.66	77.985	
10,000.00	7,604.09	7,408.00	7,312.55	125.17	29.26	89.41	1,578.29	-796.27	6,301.12	6,220.38	80.74	78.041	
10,050.00	7,611.97	7,586.00	7,456.15	125.08	29.15	89.48	1,474.48	-802.03	6,308.46	6,228.25	80.21	78.654	
10,100.00	7,616.61	7,586.00	7,456.15	124.97	29.15	88.84	1,474.48	-802.03	6,312.92	6,232.51	80.41	78.511	
10,145.95	7,618.00	7,622.42	7,480.86	124.84	29.10	88.84	1,447.75	-802.47	6,314.18	6,233.80	80.38	78.550	
10,200.00	7,618.00	7,629.71	7,485.59	124.69	29.09	88.88	1,442.21	-802.68	6,315.08	6,234.46	80.61	78.337	
10,300.00	7,618.00	7,675.00	7,513.28	124.41	29.03	89.13	1,406.45	-804.82	6,318.25	6,237.43	80.82	78.180	
10,400.00	7,618.00	8,222.48	7,699.25	124.14	28.89	90.82	898.09	-803.54	6,315.91	6,238.70	77.22	81.796	
10,500.00	7,618.00	10,500.00	7,698.51	123.88	51.40	90.81	641.29	-792.48	6,311.28	6,224.00	87.28	72.308	
10,600.00	7,618.00	8,540.53	7,698.35	123.63	30.03	90.81	580.55	-789.11	6,305.51	6,228.54	76.98	81.915	
10,700.00	7,618.00	8,566.00	7,698.30	123.40	30.16	90.81	555.11	-787.91	6,300.73	6,223.23	77.50	81.297	
10,800.00	7,618.00	8,612.71	7,698.50	123.18	30.45	90.81	508.43	-786.18	6,296.89	6,218.84	78.05	80.675	
10,900.00	7,618.00	8,655.00	7,699.12	122.96	30.70	90.82	466.16	-785.23	6,294.20	6,215.55	78.64	80.036	
11,000.00	7,618.00	11,000.00	7,701.35	122.76	49.52	90.84	377.95	-783.60	6,292.03	6,197.13	94.90	66.304	
11,100.00	7,618.00	8,779.81	7,702.55	122.57	31.60	90.85	341.41	-783.04	6,290.32	6,210.30	80.03	78.602	
11,200.00	7,618.00	8,833.00	7,704.58	122.39	32.00	90.87	288.26	-783.10	6,289.87	6,209.07	80.80	77.848	
11,225.18	7,618.00	8,833.00	7,704.58	122.35	32.00	90.87	288.26	-783.10	6,289.82	6,208.84	80.98	77.672	
11,300.00	7,618.00	8,833.00	7,704.58	122.23	32.00	90.87	288.26	-783.10	6,290.26	6,208.76	81.51	77.174	
11,400.00	7,618.00	8,877.28	7,706.19	122.07	32.37	90.89	244.02	-783.86	6,291.81	6,209.47	82.34	76.415	
11,500.00	7,618.00	8,922.00	7,707.41	121.93	32.74	90.90	199.34	-785.21	6,294.42	6,211.22	83.19	75.662	
11,600.00	7,618.00	8,995.21	7,709.30	121.79	33.39	90.91	126.20	-787.89	6,297.73	6,213.54	84.19	74.805	
11,700.00	7,618.00	9,300.76	7,713.56	121.67	36.45	90.95	-179.25	-793.37	6,298.66	6,212.08	86.58	72.746	
11,800.00	7,618.00	9,447.49	7,711.87	121.56	38.11	90.94	-325.96	-793.74	6,298.63	6,210.15	88.48	71.185	
11,900.00	7,618.00	9,574.62	7,708.85	121.46	39.63	90.91	-453.05	-792.46	6,297.10	6,206.69	90.41	69.654	
11,997.03	7,618.00	9,605.13	7,708.19	121.38	40.01	90.90	-483.55	-792.41	6,296.59	6,205.12	91.46	68.843	
12,000.00	7,618.00	9,606.07	7,708.17	121.38	40.02	90.90	-484.49	-792.42	6,296.59	6,205.09	91.49	68.819	
12,100.00	7,618.00	9,678.83	7,706.79	121.30	40.92	90.89	-557.23	-793.15	6,297.13	6,204.10	93.03	67.692	
12,200.00	7,618.00	12,200.00	7,704.12	121.24	74.27	90.87	-757.81	-792.87	6,296.46	6,169.68	126.78	49.665	
12,300.00	7,618.00	9,901.00	7,703.92	121.19	43.81	90.86	-779.38	-792.70	6,295.81	6,198.65	97.16	64.799	
12,328.81	7,618.00	9,932.93	7,703.68	121.18	44.24	90.86	-811.30	-792.57	6,295.57	6,197.77	97.79	64.376	
12,328.82	7,618.00	9,932.93	7,703.68	121.18	44.24	90.86	-811.31	-792.57	6,295.57	6,197.77	97.79	64.376	
12,400.00	7,618.00	9,949.69	7,703.56	121.16	44.46	90.86	-828.07	-792.71	6,295.92	6,197.34	98.58	63.868	
12,500.00	7,618.00	9,990.00	7,703.26	121.14	45.00	90.86	-868.36	-793.64	6,297.55	6,197.65	99.91	63.035	
12,600.00	7,618.00	10,032.50	7,702.89	121.13	45.58	90.85	-910.84	-795.02	6,300.12	6,198.84	101.28	62.204	
12,700.00	7,618.00	10,455.51	7,712.06	121.13	51.60	90.94	-1,333.62	-797.22	6,300.31	6,191.96	108.35	58.146	
12,800.00	7,618.00	10,525.00	7,713.22	121.15	52.63	90.95	-1,403.09	-796.14	6,298.37	6,188.07	110.30	57.100	
12,900.00	7,618.00	10,614.00	7,713.39	121.18	53.96	90.95	-1,492.08	-794.77	6,296.51	6,183.91	112.60	55.918	
13,000.00	7,618.00	10,668.20	7,713.40	121.23	54.78	90.95	-1,546.28	-794.06	6,295.02	6,180.67	114.34	55.053	
13,100.00	7,618.00	10,712.09	7,713.52	121.29	55.44	90.95	-1,590.17	-794.02	6,294.56	6,178.64	115.92	54.300	
13,200.00	7,618.00	10,882.00	7,715.10	121.37	58.03	90.97	-1,760.06	-793.50	6,293.92	6,174.16	119.76	52.553	
13,300.00	7,618.00	10,932.96	7,715.86	121.46	58.81	90.97	-1,811.02	-793.13	6,293.01	6,171.49	121.52	51.787	
13,333.23	7,618.00	10,945.66	7,716.00	121.49	59.01	90.97	-1,823.72	-793.14	6,292.93	6,170.90	122.03	51.570	
13,400.00	7,618.00	10,972.08	7,716.23	121.57	59.42	90.98	-1,850.13	-793.30	6,293.11	6,170.05	123.06	51.140	
13,500.00	7,618.00	11,085.06	7,717.17	121.70	61.17	90.98	-1,963.11	-793.87	6,293.25	6,167.25	126.00	49.948	
13,600.00	7,618.00	11,149.00	7,716.73	121.84	62.16	90.98	-2,027.04	-794.77	6,294.17	6,166.14	128.03	49.162	
13,700.00	7,618.00	11,238.00	7,715.42	122.01	63.56	90.97	-2,116.02	-796.06	6,295.25	6,164.69	130.56	48.218	
13,800.00	7,618.00	11,295.58	7,714.83	122.19	64.46	90.96	-2,173.59	-796.89	6,296.49	6,164.00	132.50	47.522	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
13,900.00	7,618.00	11,408.46	7,714.40	122.39	66.24	90.96	-2,286.43	-799.65	6,298.65	6,163.10	135.55	46.468	
14,000.00	7,618.00	11,506.00	7,714.74	122.62	67.79	90.96	-2,383.96	-800.96	6,299.67	6,161.34	138.34	45.539	
14,100.00	7,618.00	11,565.37	7,715.24	122.86	68.74	90.97	-2,443.32	-801.96	6,301.27	6,160.91	140.36	44.893	
14,200.00	7,618.00	11,612.83	7,715.72	123.12	69.50	90.97	-2,490.75	-803.48	6,304.05	6,161.91	142.14	44.351	
14,300.00	7,618.00	14,300.00	7,717.54	123.41	113.21	90.99	-2,804.04	-809.63	6,306.16	6,117.87	188.29	33.492	
14,400.00	7,618.00	12,040.00	7,716.00	123.72	76.41	90.97	-2,917.81	-809.36	6,305.54	6,152.64	152.90	41.239	
14,464.97	7,618.00	12,073.66	7,715.17	123.94	76.96	90.96	-2,951.46	-809.45	6,305.42	6,151.26	154.16	40.902	
14,500.00	7,618.00	12,097.90	7,714.65	124.06	77.35	90.96	-2,975.69	-809.56	6,305.45	6,150.48	154.97	40.688	
14,600.00	7,618.00	14,600.00	7,718.14	124.42	118.97	90.99	-3,246.14	-808.30	6,305.36	6,106.36	199.00	31.685	
14,700.00	7,618.00	12,452.27	7,720.27	124.80	83.22	91.01	-3,329.93	-806.22	6,302.64	6,138.05	164.59	38.293	
14,800.00	7,618.00	12,498.17	7,721.53	125.21	83.99	91.02	-3,375.81	-805.53	6,300.82	6,134.37	166.45	37.854	
14,900.00	7,618.00	12,563.18	7,723.20	125.65	85.07	91.04	-3,440.80	-804.98	6,299.68	6,130.93	168.75	37.332	
15,000.00	7,618.00	12,609.33	7,724.15	126.11	85.84	91.05	-3,486.93	-804.89	6,299.22	6,128.61	170.61	36.922	
15,000.74	7,618.00	12,609.64	7,724.16	126.12	85.84	91.05	-3,487.24	-804.89	6,299.22	6,128.60	170.62	36.920	
15,100.00	7,618.00	12,664.00	7,724.70	126.61	86.75	91.05	-3,541.60	-805.39	6,299.70	6,127.04	172.66	36.487	
15,200.00	7,618.00	12,894.14	7,726.33	127.13	90.60	91.07	-3,771.70	-803.80	6,297.78	6,118.90	178.88	35.207	
15,300.00	7,618.00	12,931.00	7,727.11	127.68	91.22	91.07	-3,808.55	-803.71	6,297.05	6,116.52	180.54	34.880	
15,322.04	7,618.00	12,931.00	7,727.11	127.80	91.22	91.07	-3,808.55	-803.71	6,297.01	6,116.31	180.71	34.847	
15,400.00	7,618.00	12,954.35	7,727.66	128.26	91.61	91.08	-3,831.89	-803.92	6,297.39	6,115.53	181.86	34.629	
15,500.00	7,618.00	12,994.14	7,728.53	128.87	92.28	91.09	-3,871.66	-804.57	6,298.73	6,115.17	183.56	34.314	
15,600.00	7,618.00	13,046.50	7,729.53	129.51	93.15	91.10	-3,923.99	-805.95	6,301.00	6,115.44	185.56	33.956	
15,700.00	7,618.00	13,128.72	7,730.53	130.18	94.52	91.11	-4,006.17	-808.48	6,303.76	6,115.47	188.29	33.479	
15,800.00	7,618.00	13,377.00	7,731.79	130.88	98.69	91.12	-4,254.38	-813.39	6,305.35	6,110.22	195.13	32.313	
15,900.00	7,618.00	13,430.37	7,732.39	131.61	99.59	91.12	-4,307.75	-813.80	6,306.00	6,108.81	197.19	31.979	
16,000.00	7,618.00	13,466.00	7,733.32	132.37	100.19	91.13	-4,343.36	-814.53	6,307.77	6,108.97	198.80	31.729	
16,100.00	7,618.00	16,100.00	7,729.44	133.17	145.05	91.09	-4,673.60	-818.36	6,309.39	6,062.36	247.03	25.541	
16,200.00	7,618.00	13,869.86	7,728.13	133.99	107.04	91.08	-4,747.09	-817.45	6,307.89	6,097.53	210.36	29.986	
16,300.00	7,618.00	13,911.00	7,727.44	134.84	107.74	91.08	-4,788.23	-817.48	6,307.48	6,095.34	212.14	29.732	
16,301.76	7,618.00	13,911.00	7,727.44	134.86	107.74	91.08	-4,788.23	-817.48	6,307.48	6,095.33	212.16	29.730	
16,400.00	7,618.00	13,937.01	7,727.00	135.72	108.18	91.07	-4,814.23	-817.78	6,308.09	6,094.57	213.52	29.543	
16,500.00	7,618.00	13,972.22	7,726.36	136.63	108.78	91.07	-4,849.43	-818.49	6,309.75	6,094.64	215.12	29.332	
16,600.00	7,618.00	14,058.27	7,724.76	137.57	110.24	91.05	-4,935.43	-821.09	6,312.35	6,094.34	218.01	28.954	
16,700.00	7,618.00	16,700.00	7,721.42	138.54	155.40	91.02	-5,199.38	-824.62	6,313.14	6,046.97	266.17	23.718	
16,800.00	7,618.00	14,446.00	7,720.47	139.53	116.85	91.01	-5,323.09	-823.98	6,312.16	6,082.75	229.41	27.515	
16,881.89	7,618.00	14,491.25	7,720.57	140.37	117.63	91.01	-5,368.33	-823.81	6,311.73	6,080.56	231.18	27.303	
16,900.00	7,618.00	14,497.33	7,720.62	140.55	117.73	91.01	-5,374.41	-823.84	6,311.75	6,080.29	231.46	27.269	
17,000.00	7,618.00	14,535.00	7,721.09	141.60	118.38	91.02	-5,412.08	-824.25	6,312.47	6,079.33	233.15	27.075	
17,100.00	7,618.00	14,643.54	7,722.74	142.67	120.23	91.03	-5,520.60	-825.79	6,313.58	6,076.89	236.69	26.675	
17,200.00	7,618.00	14,713.00	7,724.65	143.77	121.42	91.05	-5,590.02	-826.89	6,314.87	6,075.67	239.20	26.400	
17,300.00	7,618.00	14,802.00	7,727.99	144.88	122.95	91.08	-5,678.95	-828.25	6,316.17	6,073.93	242.24	26.074	
17,400.00	7,618.00	14,853.88	7,730.13	146.02	123.84	91.10	-5,730.77	-829.26	6,318.06	6,073.77	244.29	25.863	
17,500.00	7,618.00	14,892.00	7,731.86	147.19	124.49	91.11	-5,768.84	-830.51	6,321.04	6,075.09	245.95	25.701	
17,600.00	7,618.00	15,113.58	7,742.63	148.37	128.29	91.21	-5,990.07	-836.39	6,323.38	6,070.79	252.58	25.035	
17,700.00	7,618.00	15,159.00	7,744.76	149.57	129.07	91.23	-6,035.43	-837.17	6,325.12	6,070.65	254.46	24.857	
17,800.00	7,618.00	15,217.80	7,747.22	150.79	130.08	91.25	-6,094.16	-838.63	6,327.55	6,070.86	256.69	24.651	
17,900.00	7,618.00	17,900.00	7,750.20	152.03	176.04	91.28	-6,180.60	-841.73	6,330.85	6,026.68	304.17	20.814	
18,000.00	7,618.00	15,391.04	7,752.99	153.29	133.04	91.30	-6,267.20	-844.67	6,334.00	6,071.35	262.65	24.115	
18,100.00	7,618.00	15,450.01	7,754.27	154.57	134.05	91.31	-6,326.11	-847.11	6,337.83	6,072.96	264.87	23.928	
18,200.00	7,618.00	15,576.22	7,756.15	155.86	136.21	91.33	-6,452.18	-852.75	6,342.07	6,073.13	268.94	23.582	
18,300.00	7,618.00	15,918.96	7,759.07	157.17	142.12	91.36	-6,794.82	-858.96	6,342.87	6,063.94	278.93	22.740	
18,400.00	7,618.00	16,254.34	7,749.94	158.49	147.95	91.27	-7,129.95	-851.97	6,339.22	6,050.73	288.49	21.974	
18,500.00	7,618.00	16,280.38	7,749.79	159.82	148.40	91.27	-7,155.96	-851.21	6,335.96	6,045.99	289.97	21.851	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
18,600.00	7,618.00	16,312.00	7,749.86	161.17	148.95	91.27	-7,187.58	-850.70	6,333.88	6,042.31	291.57	21.724	
18,700.00	7,618.00	16,312.00	7,749.86	162.54	148.95	91.27	-7,187.58	-850.70	6,333.07	6,040.79	292.28	21.668	
18,754.32	7,618.00	16,343.75	7,750.14	163.28	149.50	91.28	-7,219.33	-850.65	6,332.96	6,039.45	293.51	21.577	
18,800.00	7,618.00	16,354.66	7,750.27	163.91	149.69	91.28	-7,230.24	-850.75	6,333.24	6,039.13	294.11	21.534	
18,900.00	7,618.00	16,401.00	7,751.02	165.30	150.49	91.28	-7,276.56	-851.84	6,334.89	6,038.87	296.02	21.400	
19,000.00	7,618.00	16,409.57	7,751.19	166.70	150.64	91.29	-7,285.12	-852.14	6,337.41	6,040.56	296.85	21.349	
19,100.00	7,618.00	16,585.61	7,755.72	168.10	153.68	91.33	-7,461.03	-857.29	6,340.11	6,037.73	302.39	20.967	
19,200.00	7,618.00	16,668.00	7,758.81	169.52	155.10	91.35	-7,543.35	-858.84	6,341.83	6,036.53	305.30	20.772	
19,300.00	7,618.00	16,726.81	7,761.14	170.95	156.12	91.37	-7,602.09	-860.21	6,344.12	6,036.58	307.54	20.629	
19,400.00	7,618.00	16,773.96	7,762.94	172.39	156.94	91.39	-7,649.17	-861.96	6,347.51	6,038.08	309.44	20.513	
19,500.00	7,618.00	16,886.29	7,767.18	173.84	158.87	91.43	-7,761.33	-866.39	6,351.22	6,038.03	313.19	20.279	
19,600.00	7,618.00	16,991.49	7,772.13	175.30	160.69	91.47	-7,866.35	-870.20	6,354.62	6,037.87	316.75	20.062	
19,700.00	7,618.00	17,076.02	7,774.16	176.76	162.15	91.49	-7,950.79	-873.46	6,358.20	6,038.49	319.71	19.887	
19,800.00	7,618.00	17,195.50	7,775.73	178.24	164.21	91.50	-8,070.17	-878.19	6,361.88	6,038.20	323.68	19.655	
19,896.19	7,618.00	17,364.41	7,778.53	179.66	167.13	91.53	-8,238.97	-883.35	6,364.50	6,035.46	329.04	19.343	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-54.02	785.71	-1,082.41	1,376.91				
100.00	100.00	318.00	317.99	0.13	0.00	-54.02	785.71	-1,082.41	1,356.65	1,356.24	0.41	3,332.470	
200.00	200.00	318.00	317.99	0.49	0.00	-54.02	785.71	-1,082.41	1,343.54	1,343.00	0.54	2,501.101	
300.00	299.98	318.00	317.99	0.85	0.00	-123.42	785.71	-1,082.41	1,338.76	1,337.91	0.85	1,579.426	
301.02	300.99	318.00	317.99	0.85	0.00	-123.42	785.71	-1,082.41	1,338.75	1,337.90	0.85	1,572.769	CC, ES
400.00	399.84	388.81	388.79	1.21	0.13	-123.56	785.05	-1,083.08	1,341.53	1,340.20	1.33	1,006.085	
500.00	499.45	491.20	491.17	1.58	0.31	-123.85	784.07	-1,083.85	1,346.43	1,344.55	1.89	714.205	
600.00	598.70	593.22	593.19	1.97	0.49	-124.22	783.06	-1,084.36	1,353.13	1,350.68	2.45	552.473	
700.00	697.47	679.37	679.33	2.38	0.80	-124.51	783.89	-1,084.07	1,362.30	1,359.14	3.16	431.708	
800.00	795.62	769.67	769.52	2.83	1.12	-124.73	787.92	-1,082.40	1,374.25	1,370.37	3.88	353.774	
900.00	893.06	862.99	862.46	3.31	1.46	-124.87	795.49	-1,078.92	1,388.72	1,384.06	4.66	297.706	
1,000.00	989.64	950.86	949.64	3.83	1.79	-124.92	805.41	-1,074.32	1,405.73	1,400.26	5.47	257.085	
1,100.00	1,085.27	1,037.90	1,035.76	4.40	2.14	-124.94	817.06	-1,069.51	1,425.62	1,419.31	6.32	225.743	
1,200.00	1,179.82	1,133.11	1,129.68	5.02	2.53	-124.98	831.50	-1,063.49	1,447.84	1,440.60	7.24	199.869	
1,300.00	1,273.17	1,224.37	1,219.62	5.70	2.93	-125.05	845.81	-1,057.66	1,472.32	1,464.12	8.20	179.570	
1,400.00	1,365.21	1,335.57	1,329.26	6.43	3.41	-125.31	863.07	-1,050.74	1,498.98	1,489.69	9.29	161.388	
1,500.00	1,455.84	1,436.17	1,428.39	7.23	3.85	-125.56	878.32	-1,042.99	1,526.31	1,515.94	10.37	147.180	
1,600.00	1,544.94	1,514.98	1,505.98	8.09	4.20	-125.66	890.80	-1,037.08	1,556.31	1,544.92	11.39	136.665	
1,700.00	1,632.39	1,616.48	1,605.73	9.01	4.66	-125.96	907.98	-1,029.50	1,589.05	1,576.48	12.56	126.496	
1,800.00	1,718.11	1,731.63	1,719.06	10.00	5.18	-126.46	925.99	-1,019.92	1,622.73	1,608.89	13.84	117.257	
1,900.00	1,801.97	1,800.66	1,787.09	11.07	5.49	-126.56	936.29	-1,014.45	1,658.72	1,643.83	14.90	111.327	
2,000.00	1,883.88	1,867.75	1,853.22	12.20	5.79	-126.63	946.59	-1,009.82	1,698.09	1,682.12	15.97	106.324	
2,100.00	1,963.74	1,959.89	1,944.06	13.41	6.20	-127.00	960.97	-1,004.21	1,740.59	1,723.39	17.20	101.186	
2,200.00	2,041.45	2,102.28	2,084.36	14.69	6.84	-128.01	982.11	-992.24	1,783.35	1,764.61	18.74	95.162	
2,300.00	2,116.92	2,175.12	2,156.02	16.05	7.17	-128.15	993.04	-985.12	1,827.71	1,807.79	19.92	91.760	
2,357.48	2,159.25	2,209.45	2,189.78	16.86	7.33	-128.12	998.39	-981.94	1,854.66	1,834.10	20.56	90.210	
2,400.00	2,190.27	2,234.50	2,214.41	17.47	7.44	-128.45	1,002.36	-979.76	1,875.16	1,854.13	21.03	89.172	
2,500.00	2,263.22	2,294.75	2,273.68	18.92	7.72	-129.23	1,012.12	-974.94	1,924.44	1,902.31	22.13	86.979	
2,600.00	2,336.18	2,355.68	2,333.59	20.37	8.00	-129.99	1,022.30	-970.62	1,975.07	1,951.86	23.21	85.113	
2,700.00	2,409.14	2,416.45	2,393.36	21.84	8.28	-130.72	1,032.60	-966.88	2,026.96	2,002.69	24.26	83.545	
2,800.00	2,482.09	2,483.95	2,459.79	23.31	8.58	-131.51	1,044.04	-963.37	2,080.00	2,054.66	25.34	82.080	
2,900.00	2,555.05	2,565.39	2,540.01	24.78	8.95	-132.43	1,057.48	-959.33	2,133.57	2,107.07	26.49	80.529	
3,000.00	2,628.01	2,625.74	2,599.58	26.27	9.21	-133.11	1,066.84	-956.78	2,187.84	2,160.37	27.47	79.635	
3,100.00	2,700.96	2,713.23	2,686.10	27.75	9.59	-134.09	1,079.45	-953.76	2,242.90	2,214.29	28.61	78.398	
3,200.00	2,773.92	2,865.96	2,836.79	29.24	10.27	-135.63	1,102.44	-944.40	2,296.20	2,266.01	30.19	76.057	
3,300.00	2,846.88	2,954.53	2,924.20	30.73	10.66	-136.48	1,115.21	-938.05	2,349.16	2,317.83	31.32	74.995	
3,400.00	2,919.83	3,055.47	3,024.10	32.23	11.08	-137.46	1,127.29	-930.16	2,401.38	2,368.88	32.49	73.909	
3,500.00	2,992.79	3,150.01	3,117.87	33.72	11.47	-138.38	1,137.03	-923.00	2,453.92	2,420.33	33.58	73.073	
3,600.00	3,065.75	3,267.74	3,234.33	35.22	11.97	-139.42	1,150.35	-912.18	2,505.68	2,470.86	34.82	71.959	
3,700.00	3,138.71	3,375.44	3,340.34	36.72	12.46	-140.26	1,165.14	-900.27	2,556.66	2,520.62	36.04	70.942	
3,800.00	3,211.66	3,440.30	3,404.10	38.22	12.76	-140.73	1,174.51	-892.95	2,607.85	2,570.87	36.98	70.528	
3,900.00	3,284.62	3,491.80	3,454.82	39.72	12.98	-141.10	1,181.64	-887.64	2,659.98	2,622.18	37.80	70.373	
4,000.00	3,357.58	3,543.00	3,505.40	41.22	13.21	-141.48	1,188.21	-883.15	2,713.36	2,674.76	38.59	70.308	
4,100.00	3,430.53	3,621.14	3,582.68	42.73	13.55	-142.06	1,197.94	-876.84	2,767.48	2,727.93	39.55	69.978	
4,200.00	3,503.49	3,784.27	3,743.30	44.23	14.28	-143.13	1,220.42	-859.49	2,819.35	2,778.23	41.11	68.575	
4,300.00	3,576.45	3,837.11	3,795.36	45.74	14.52	-143.46	1,227.42	-853.73	2,871.76	2,829.86	41.90	68.535	
4,400.00	3,649.40	3,880.95	3,838.68	47.25	14.71	-143.75	1,232.70	-849.61	2,925.37	2,882.77	42.60	68.667	
4,500.00	3,722.36	3,931.28	3,888.54	48.75	14.92	-144.09	1,238.28	-845.58	2,980.15	2,936.83	43.32	68.793	
4,600.00	3,795.32	3,988.00	3,944.76	50.26	15.16	-144.46	1,244.59	-841.51	3,035.80	2,991.74	44.07	68.892	
4,700.00	3,868.27	4,055.32	4,011.34	51.77	15.45	-144.86	1,253.37	-836.91	3,092.10	3,047.20	44.90	68.861	
4,800.00	3,941.23	4,107.55	4,062.80	53.28	15.68	-145.14	1,261.62	-833.40	3,148.96	3,103.32	45.64	68.994	
4,900.00	4,014.19	4,166.00	4,120.40	54.79	15.94	-145.44	1,271.01	-830.24	3,206.86	3,160.44	46.42	69.078	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
5,000.00	4,087.15	4,284.69	4,237.42	56.30	16.47	-146.03	1,289.48	-823.04	3,264.40	3,216.71	47.68	68.460	
5,100.00	4,160.10	4,344.00	4,296.07	57.81	16.73	-146.34	1,297.53	-819.43	3,321.85	3,273.41	48.44	68.576	
5,200.00	4,233.06	4,478.31	4,428.93	59.32	17.31	-147.03	1,315.11	-810.64	3,379.08	3,329.32	49.76	67.911	
5,300.00	4,306.02	4,530.01	4,479.99	60.83	17.53	-147.27	1,322.38	-807.07	3,436.11	3,385.66	50.46	68.101	
5,400.00	4,378.97	4,653.21	4,601.25	62.34	18.09	-147.79	1,342.22	-798.15	3,493.28	3,441.53	51.76	67.495	
5,500.00	4,451.93	4,707.24	4,654.35	63.85	18.34	-148.00	1,351.31	-794.02	3,550.12	3,497.62	52.50	67.627	
5,600.00	4,524.89	4,761.37	4,707.67	65.36	18.59	-148.21	1,359.81	-790.23	3,607.52	3,554.31	53.22	67.789	
5,700.00	4,597.84	5,700.00	4,804.99	66.88	22.81	-148.61	1,374.83	-783.86	3,665.47	3,607.47	58.00	63.202	
5,800.00	4,670.80	5,038.53	4,980.55	68.39	19.85	-149.27	1,402.37	-767.55	3,720.56	3,664.53	56.02	66.409	
5,900.00	4,743.76	5,088.00	5,029.32	69.90	20.08	-149.46	1,409.42	-763.15	3,776.47	3,719.77	56.70	66.607	
6,000.00	4,816.71	5,125.07	5,065.95	71.41	20.23	-149.61	1,414.30	-760.25	3,833.23	3,775.98	57.25	66.958	
6,100.00	4,889.67	5,182.82	5,123.16	72.93	20.48	-149.85	1,421.04	-756.13	3,890.67	3,832.74	57.94	67.151	
6,200.00	4,962.63	5,466.68	5,403.21	74.44	21.73	-150.91	1,456.64	-727.10	3,944.43	3,884.08	60.35	65.357	
6,300.00	5,035.59	5,511.77	5,447.56	75.95	21.94	-151.06	1,462.81	-721.81	3,998.41	3,937.42	60.99	65.562	
6,400.00	5,108.54	5,533.00	5,468.45	77.47	22.03	-151.13	1,465.77	-719.47	4,053.35	3,991.93	61.42	65.989	
6,500.00	5,181.50	5,585.86	5,520.50	78.98	22.27	-151.30	1,473.33	-714.20	4,109.09	4,046.98	62.10	66.164	
6,600.00	5,254.46	5,623.00	5,557.09	80.49	22.44	-151.41	1,478.83	-711.05	4,165.91	4,103.25	62.65	66.493	
6,700.00	5,327.41	5,659.66	5,593.27	82.01	22.60	-151.52	1,484.12	-708.33	4,223.62	4,160.45	63.18	66.853	
6,800.00	5,400.37	5,712.00	5,645.05	83.52	22.83	-151.70	1,490.94	-705.01	4,282.19	4,218.37	63.82	67.100	
6,900.00	5,473.33	5,745.71	5,678.46	85.04	22.97	-151.81	1,495.05	-703.17	4,341.44	4,277.15	64.29	67.530	
7,000.00	5,546.28	7,000.00	5,874.04	86.55	28.50	-152.43	1,520.67	-691.07	4,400.96	4,330.32	70.64	62.298	
7,100.00	5,619.24	6,068.00	5,996.77	88.06	24.38	-152.76	1,539.38	-680.03	4,457.62	4,390.23	67.39	66.150	
7,200.00	5,692.20	6,128.36	6,056.03	89.58	24.66	-152.89	1,549.47	-674.58	4,514.40	4,446.26	68.14	66.251	
7,300.00	5,765.15	6,157.00	6,084.12	91.09	24.80	-152.96	1,554.52	-672.20	4,571.94	4,503.33	68.61	66.637	
7,400.00	5,838.11	6,202.30	6,128.61	92.61	25.01	-153.05	1,562.37	-668.86	4,630.22	4,561.00	69.22	66.892	
7,500.00	5,911.07	6,246.00	6,171.66	94.12	25.21	-153.15	1,569.42	-666.27	4,689.44	4,619.64	69.80	67.183	
7,600.00	5,984.03	6,271.74	6,197.08	95.64	25.32	-153.22	1,573.32	-664.99	4,749.38	4,679.18	70.20	67.654	
7,700.00	6,056.98	6,311.80	6,236.69	97.15	25.49	-153.32	1,578.98	-663.25	4,810.05	4,739.33	70.72	68.019	
7,800.00	6,129.94	6,642.70	6,563.81	98.67	26.92	-154.17	1,622.59	-640.02	4,867.38	4,793.69	73.69	66.051	
7,900.00	6,202.90	6,692.00	6,612.37	100.18	27.14	-154.27	1,629.96	-635.72	4,924.60	4,850.28	74.32	66.265	
8,000.00	6,275.85	6,722.05	6,641.97	101.70	27.28	-154.34	1,634.53	-633.36	4,982.52	4,907.74	74.77	66.636	
8,100.00	6,348.81	7,097.78	7,012.57	103.21	28.65	-155.60	1,652.27	-594.63	5,038.75	4,961.44	77.31	65.174	
8,200.00	6,421.77	7,138.00	7,051.53	104.73	28.73	-155.86	1,643.40	-590.14	5,093.51	5,015.92	77.59	65.650	
8,300.00	6,494.72	7,138.00	7,051.53	106.24	28.73	-155.86	1,643.40	-590.14	5,148.71	5,070.90	77.81	66.170	
8,400.00	6,567.68	7,138.00	7,051.53	107.76	28.73	-155.86	1,643.40	-590.14	5,205.26	5,127.24	78.02	66.721	
8,500.00	6,640.64	7,138.00	7,051.53	109.27	28.73	-155.86	1,643.40	-590.14	5,263.09	5,184.89	78.20	67.303	
8,600.00	6,713.59	7,138.00	7,051.53	110.79	28.73	-155.86	1,643.40	-590.14	5,322.17	5,243.81	78.37	67.914	
8,700.00	6,786.55	7,138.00	7,051.53	112.30	28.73	-155.86	1,643.40	-590.14	5,382.47	5,303.95	78.52	68.553	
8,800.00	6,859.51	7,138.00	7,051.53	113.82	28.73	-155.86	1,643.40	-590.14	5,443.93	5,365.28	78.65	69.219	
8,900.00	6,932.46	7,138.00	7,051.53	115.33	28.73	-155.86	1,643.40	-590.14	5,506.53	5,427.76	78.77	69.910	
9,000.00	7,005.42	7,138.00	7,051.53	116.85	28.73	-155.86	1,643.40	-590.14	5,570.21	5,491.34	78.87	70.626	
9,104.89	7,081.95	7,180.10	7,092.01	118.44	28.76	-156.16	1,632.10	-587.86	5,636.39	5,557.38	79.00	71.343	
9,150.00	7,115.15	7,182.73	7,094.54	119.12	28.77	-164.83	1,631.35	-587.82	5,665.89	5,586.85	79.04	71.681	
9,200.00	7,152.46	7,185.77	7,097.44	119.86	28.77	-174.82	1,630.47	-587.79	5,699.04	5,619.96	79.08	72.069	
9,250.00	7,190.04	7,227.00	7,136.66	120.57	28.80	174.88	1,617.84	-589.01	5,733.86	5,654.73	79.13	72.465	
9,300.00	7,227.59	7,227.00	7,136.66	121.25	28.80	164.81	1,617.84	-589.01	5,766.97	5,687.83	79.14	72.873	
9,350.00	7,264.83	7,227.00	7,136.66	121.89	28.80	155.03	1,617.84	-589.01	5,799.81	5,720.67	79.14	73.288	
9,400.00	7,301.48	7,227.00	7,136.66	122.48	28.80	145.72	1,617.84	-589.01	5,832.13	5,753.01	79.12	73.708	
9,450.00	7,337.26	7,227.00	7,136.66	123.01	28.80	137.05	1,617.84	-589.01	5,863.71	5,784.60	79.10	74.127	
9,500.00	7,371.90	7,227.00	7,136.66	123.49	28.80	129.10	1,617.84	-589.01	5,894.31	5,815.23	79.08	74.539	
9,550.00	7,405.13	7,227.00	7,136.66	123.91	28.80	121.92	1,617.84	-589.01	5,923.72	5,844.67	79.05	74.939	
9,600.00	7,436.70	7,227.00	7,136.66	124.27	28.80	115.51	1,617.84	-589.01	5,951.73	5,872.71	79.02	75.319	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,650.00	7,466.36	7,227.00	7,136.66	124.57	28.80	109.86	1,617.84	-589.01	5,978.15	5,899.15	79.00	75.673	
9,700.00	7,493.91	7,227.00	7,136.66	124.81	28.80	104.92	1,617.84	-589.01	6,002.81	5,923.82	78.99	75.994	
9,750.00	7,519.11	7,227.00	7,136.66	125.00	28.80	100.66	1,617.84	-589.01	6,025.54	5,946.54	79.00	76.275	
9,800.00	7,541.79	7,227.00	7,136.66	125.12	28.80	97.01	1,617.84	-589.01	6,046.18	5,967.16	79.03	76.510	
9,850.00	7,561.77	7,227.00	7,136.66	125.20	28.80	93.93	1,617.84	-589.01	6,064.61	5,985.53	79.08	76.691	
9,900.00	7,578.90	7,227.00	7,136.66	125.23	28.80	91.39	1,617.84	-589.01	6,080.70	6,001.54	79.16	76.814	
9,950.00	7,593.04	7,227.00	7,136.66	125.22	28.80	89.34	1,617.84	-589.01	6,094.35	6,015.07	79.28	76.874	
10,000.00	7,604.09	7,227.00	7,136.66	125.17	28.80	87.75	1,617.84	-589.01	6,105.47	6,026.04	79.43	76.866	
10,050.00	7,611.97	7,227.00	7,136.66	125.08	28.80	86.60	1,617.84	-589.01	6,113.99	6,034.37	79.62	76.788	
10,100.00	7,616.61	7,227.00	7,136.66	124.97	28.80	85.88	1,617.84	-589.01	6,119.86	6,040.01	79.85	76.638	
10,145.95	7,618.00	7,227.00	7,136.66	124.84	28.80	85.57	1,617.84	-589.01	6,122.89	6,042.79	80.11	76.436	
10,200.00	7,618.00	7,227.00	7,136.66	124.69	28.80	85.57	1,617.84	-589.01	6,125.34	6,044.92	80.42	76.163	
10,300.00	7,618.00	7,982.67	7,618.86	124.41	28.08	90.09	1,093.78	-616.66	6,126.53	6,049.71	76.82	79.749	
10,400.00	7,618.00	8,029.00	7,629.35	124.14	28.03	90.19	1,048.66	-616.42	6,125.35	6,048.32	77.02	79.526	
10,500.00	7,618.00	8,363.67	7,666.26	123.88	28.44	90.54	716.90	-606.59	6,121.45	6,045.84	75.61	80.958	
10,600.00	7,618.00	8,453.84	7,667.89	123.63	28.82	90.55	626.84	-602.59	6,116.69	6,040.79	75.90	80.587	
10,700.00	7,618.00	8,552.13	7,669.45	123.40	29.35	90.57	528.65	-598.33	6,112.05	6,035.73	76.31	80.092	
10,800.00	7,618.00	8,617.37	7,670.09	123.18	29.77	90.57	463.47	-595.67	6,107.65	6,030.76	76.89	79.435	
10,900.00	7,618.00	8,675.47	7,670.87	122.96	30.18	90.58	405.41	-593.67	6,103.90	6,026.36	77.53	78.727	
11,000.00	7,618.00	8,741.00	7,671.90	122.76	30.67	90.59	339.91	-591.95	6,100.89	6,022.65	78.24	77.972	
11,100.00	7,618.00	8,786.84	7,672.63	122.57	31.05	90.60	294.08	-591.08	6,098.58	6,019.57	79.00	77.192	
11,200.00	7,618.00	8,849.20	7,673.49	122.39	31.58	90.61	231.73	-590.29	6,096.97	6,017.13	79.84	76.366	
11,300.00	7,618.00	8,927.67	7,673.33	122.23	32.29	90.60	153.27	-589.65	6,095.82	6,015.04	80.78	75.457	
11,400.00	7,618.00	9,017.37	7,672.21	122.07	33.15	90.59	63.58	-589.16	6,094.93	6,013.06	81.87	74.450	
11,500.00	7,618.00	9,106.56	7,670.80	121.93	34.05	90.58	-25.61	-588.88	6,094.26	6,011.21	83.05	73.381	
11,600.00	7,618.00	9,249.68	7,668.05	121.79	35.60	90.56	-168.69	-587.68	6,092.96	6,008.26	84.70	71.935	
11,700.00	7,618.00	9,396.57	7,668.63	121.67	37.31	90.56	-315.57	-585.68	6,091.28	6,004.65	86.63	70.314	
11,800.00	7,618.00	9,515.37	7,668.69	121.56	38.75	90.56	-434.34	-583.42	6,089.05	6,000.56	88.49	68.807	
11,900.00	7,618.00	9,632.00	7,668.80	121.46	40.23	90.56	-550.94	-580.56	6,086.22	5,995.75	90.47	67.272	
12,000.00	7,618.00	9,677.48	7,668.79	121.38	40.82	90.56	-596.41	-579.56	6,083.84	5,992.10	91.75	66.311	
12,100.00	7,618.00	9,721.00	7,668.62	121.30	41.39	90.56	-639.92	-579.23	6,082.62	5,989.60	93.02	65.392	
12,152.68	7,618.00	9,721.00	7,668.62	121.27	41.39	90.56	-639.92	-579.23	6,082.39	5,988.95	93.44	65.096	
12,200.00	7,618.00	9,721.00	7,668.62	121.24	41.39	90.56	-639.92	-579.23	6,082.58	5,988.77	93.81	64.842	
12,300.00	7,618.00	9,782.10	7,668.43	121.19	42.20	90.56	-701.02	-579.76	6,083.32	5,988.00	95.32	63.820	
12,400.00	7,618.00	9,810.00	7,668.45	121.16	42.56	90.56	-728.91	-580.36	6,085.28	5,988.82	96.46	63.088	
12,500.00	7,618.00	9,881.48	7,667.33	121.14	43.52	90.55	-800.35	-582.51	6,087.98	5,989.84	98.14	62.032	
12,600.00	7,618.00	10,218.97	7,650.14	121.13	48.25	90.39	-1,137.32	-587.87	6,089.40	5,985.85	103.55	58.805	
12,700.00	7,618.00	10,409.08	7,641.61	121.13	51.05	90.31	-1,327.21	-585.44	6,087.69	5,980.38	107.31	56.729	
12,800.00	7,618.00	12,800.00	7,635.55	121.15	87.08	90.25	-1,446.34	-582.82	6,085.11	5,940.83	144.28	42.177	
12,900.00	7,618.00	10,573.41	7,633.24	121.18	53.52	90.23	-1,491.30	-581.98	6,082.91	5,971.29	111.63	54.494	
13,000.00	7,618.00	10,612.00	7,631.39	121.23	54.11	90.21	-1,529.84	-581.62	6,081.68	5,968.60	113.08	53.783	
13,100.00	7,618.00	10,674.71	7,628.44	121.29	55.06	90.18	-1,592.48	-581.55	6,081.24	5,966.28	114.96	52.899	
13,112.41	7,618.00	10,681.89	7,628.10	121.30	55.17	90.18	-1,599.65	-581.57	6,081.24	5,966.05	115.19	52.795	
13,200.00	7,618.00	10,739.61	7,625.30	121.37	56.05	90.15	-1,657.31	-581.94	6,081.47	5,964.58	116.90	52.024	
13,300.00	7,618.00	10,815.58	7,621.49	121.46	57.22	90.12	-1,733.17	-582.76	6,082.19	5,963.14	119.05	51.089	
13,400.00	7,618.00	10,921.14	7,618.60	121.57	58.85	90.09	-1,838.68	-584.10	6,083.13	5,961.34	121.79	49.948	
13,500.00	7,618.00	11,024.72	7,615.83	121.70	60.46	90.06	-1,942.22	-585.14	6,083.79	5,959.25	124.54	48.851	
13,600.00	7,618.00	11,172.56	7,610.14	121.84	62.78	90.01	-2,089.94	-586.32	6,084.31	5,956.12	128.19	47.463	
13,700.00	7,618.00	11,292.06	7,603.94	122.01	64.68	89.95	-2,209.28	-586.39	6,084.01	5,952.67	131.35	46.320	
13,800.00	7,618.00	11,473.04	7,596.02	122.19	67.58	89.88	-2,390.07	-585.26	6,083.11	5,947.28	135.83	44.784	
13,900.00	7,618.00	11,643.62	7,589.72	122.39	70.35	89.82	-2,560.50	-581.94	6,080.84	5,940.62	140.22	43.368	
14,000.00	7,618.00	11,752.04	7,584.72	122.62	72.13	89.77	-2,668.76	-579.02	6,077.81	5,934.49	143.32	42.406	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
14,100.00	7,618.00	11,814.33	7,583.06	122.86	73.15	89.76	-2,731.01	-577.50	6,075.08	5,929.63	145.46	41.766	
14,200.00	7,618.00	11,895.05	7,582.86	123.12	74.47	89.75	-2,811.72	-576.17	6,073.05	5,925.04	148.02	41.030	
14,300.00	7,618.00	12,042.98	7,582.30	123.41	76.91	89.75	-2,959.61	-572.92	6,070.48	5,918.37	152.11	39.909	
14,400.00	7,618.00	12,117.17	7,582.30	123.72	78.14	89.75	-3,033.78	-571.24	6,067.87	5,913.31	154.56	39.259	
14,500.00	7,618.00	12,155.21	7,582.98	124.06	78.77	89.75	-3,071.81	-570.61	6,065.92	5,909.73	156.19	38.837	
14,600.00	7,618.00	12,187.60	7,583.85	124.42	79.31	89.76	-3,104.19	-570.45	6,065.09	5,907.40	157.69	38.463	
14,603.64	7,618.00	12,188.78	7,583.89	124.43	79.33	89.76	-3,105.36	-570.45	6,065.08	5,907.34	157.74	38.450	
14,700.00	7,618.00	12,228.28	7,585.30	124.80	79.98	89.78	-3,144.83	-570.74	6,065.36	5,905.99	159.37	38.058	
14,800.00	7,618.00	12,345.48	7,589.71	125.21	81.92	89.82	-3,261.95	-571.91	6,066.03	5,903.16	162.86	37.246	
14,900.00	7,618.00	12,466.05	7,593.51	125.65	83.93	89.85	-3,382.45	-572.50	6,066.15	5,899.69	166.46	36.442	
15,000.00	7,618.00	12,533.85	7,595.11	126.11	85.05	89.87	-3,450.24	-572.92	6,066.45	5,897.65	168.80	35.938	
15,100.00	7,618.00	12,636.54	7,596.57	126.61	86.76	89.88	-3,552.91	-574.09	6,067.25	5,895.26	171.99	35.276	
15,200.00	7,618.00	12,738.41	7,597.13	127.13	88.46	89.89	-3,654.78	-574.91	6,067.72	5,892.55	175.17	34.639	
15,300.00	7,618.00	12,822.51	7,596.85	127.68	89.87	89.89	-3,738.87	-575.75	6,068.38	5,890.46	177.93	34.106	
15,400.00	7,618.00	12,904.96	7,595.91	128.26	91.25	89.88	-3,821.31	-576.80	6,069.32	5,888.68	180.64	33.599	
15,500.00	7,618.00	12,999.72	7,594.25	128.87	92.84	89.86	-3,916.04	-578.22	6,070.48	5,886.81	183.67	33.051	
15,600.00	7,618.00	13,123.80	7,591.74	129.51	94.92	89.84	-4,040.09	-579.81	6,071.43	5,883.99	187.44	32.392	
15,700.00	7,618.00	13,223.89	7,589.33	130.18	96.61	89.81	-4,140.13	-581.04	6,072.33	5,881.71	190.62	31.855	
15,800.00	7,618.00	15,800.00	7,589.96	130.88	140.22	89.82	-4,291.19	-581.80	6,072.40	5,836.17	236.23	25.706	
15,834.38	7,618.00	13,405.40	7,590.21	131.13	99.67	89.82	-4,321.64	-581.85	6,072.34	5,876.20	196.14	30.959	
15,900.00	7,618.00	13,443.13	7,590.47	131.61	100.31	89.83	-4,359.37	-582.07	6,072.49	5,874.94	197.55	30.739	
16,000.00	7,618.00	13,464.00	7,590.58	132.37	100.67	89.83	-4,380.24	-582.26	6,073.50	5,874.75	198.75	30.559	
16,100.00	7,618.00	13,517.04	7,590.73	133.17	101.56	89.83	-4,433.27	-583.30	6,075.37	5,874.61	200.76	30.262	
16,200.00	7,618.00	13,553.00	7,590.69	133.99	102.17	89.83	-4,469.20	-584.55	6,078.46	5,876.14	202.32	30.044	
16,300.00	7,618.00	13,791.83	7,589.32	134.84	106.19	89.81	-4,707.91	-591.97	6,081.68	5,872.52	209.17	29.076	
16,400.00	7,618.00	14,032.16	7,590.42	135.72	110.29	89.82	-4,948.21	-593.09	6,081.77	5,865.68	216.10	28.144	
16,500.00	7,618.00	14,087.00	7,591.32	136.63	111.23	89.83	-5,003.05	-592.86	6,081.07	5,862.85	218.21	27.867	
16,515.79	7,618.00	14,087.00	7,591.32	136.78	111.23	89.83	-5,003.05	-592.86	6,081.05	5,862.73	218.32	27.854	
16,600.00	7,618.00	14,124.57	7,592.00	137.57	111.87	89.84	-5,040.61	-593.03	6,081.27	5,861.41	219.86	27.659	
16,700.00	7,618.00	14,176.00	7,593.23	138.54	112.75	89.85	-5,092.01	-594.06	6,082.69	5,860.82	221.87	27.416	
16,800.00	7,618.00	14,204.67	7,594.01	139.53	113.24	89.86	-5,120.66	-594.91	6,084.98	5,861.73	223.25	27.256	
16,900.00	7,618.00	14,281.11	7,596.06	140.55	114.53	89.88	-5,197.03	-597.45	6,087.95	5,862.04	225.91	26.949	
17,000.00	7,618.00	14,385.60	7,599.02	141.60	116.31	89.91	-5,301.41	-600.99	6,091.00	5,861.67	229.33	26.560	
17,100.00	7,618.00	14,652.39	7,603.84	142.67	120.87	89.95	-5,568.10	-605.39	6,091.69	5,854.52	237.17	25.685	
17,200.00	7,618.00	17,200.00	7,604.76	143.77	164.66	89.96	-5,667.60	-606.34	6,092.30	5,809.71	282.59	21.559	
17,300.00	7,618.00	15,005.11	7,606.98	144.88	126.95	89.98	-5,920.78	-604.00	6,090.54	5,842.60	247.94	24.565	
17,400.00	7,618.00	15,165.23	7,607.35	146.02	129.73	89.98	-6,080.85	-600.29	6,087.91	5,835.02	252.89	24.073	
17,500.00	7,618.00	15,193.30	7,607.44	147.19	130.21	89.99	-6,108.92	-599.71	6,085.37	5,831.03	254.35	23.926	
17,600.00	7,618.00	15,246.00	7,607.91	148.37	131.13	89.99	-6,161.61	-599.27	6,083.99	5,827.54	256.44	23.724	
17,700.00	7,618.00	15,282.60	7,608.38	149.57	131.76	89.99	-6,198.21	-599.29	6,083.44	5,825.35	258.09	23.571	
17,800.00	7,618.00	15,380.42	7,609.76	150.79	133.45	90.01	-6,296.02	-599.58	6,083.40	5,822.00	261.40	23.272	
17,900.00	7,618.00	15,540.65	7,611.81	152.03	136.22	90.03	-6,456.24	-599.03	6,082.69	5,816.27	266.42	22.831	
18,000.00	7,618.00	15,636.91	7,612.41	153.29	137.89	90.03	-6,552.49	-598.27	6,081.57	5,811.87	269.70	22.549	
18,100.00	7,618.00	15,749.14	7,612.50	154.57	139.84	90.03	-6,664.72	-597.44	6,080.50	5,807.09	273.42	22.239	
18,200.00	7,618.00	15,918.88	7,611.73	155.86	142.78	90.03	-6,834.44	-595.03	6,078.81	5,800.11	278.70	21.812	
18,300.00	7,618.00	16,047.00	7,610.55	157.17	145.02	90.01	-6,962.51	-591.65	6,075.74	5,792.89	282.85	21.480	
18,400.00	7,618.00	16,093.70	7,610.04	158.49	145.83	90.01	-7,009.19	-590.53	6,073.16	5,788.36	284.81	21.324	
18,500.00	7,618.00	16,137.00	7,609.72	159.82	146.58	90.01	-7,052.49	-590.09	6,071.71	5,785.06	286.65	21.181	
18,600.00	7,618.00	16,194.62	7,609.35	161.17	147.58	90.00	-7,110.10	-589.98	6,071.10	5,782.22	288.87	21.016	
18,700.00	7,618.00	16,284.52	7,608.59	162.54	149.14	90.00	-7,200.00	-590.07	6,070.85	5,778.86	291.99	20.791	
18,763.45	7,618.00	16,335.22	7,608.01	163.41	150.02	89.99	-7,250.69	-590.16	6,070.75	5,776.97	293.79	20.664	
18,800.00	7,618.00	16,357.63	7,607.97	163.91	150.41	89.99	-7,273.11	-590.26	6,070.79	5,776.16	294.63	20.605	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
18,900.00	7,618.00	16,422.62	7,608.87	165.30	151.54	90.00	-7,338.09	-590.84	6,071.34	5,774.29	297.05	20.439	
19,000.00	7,618.00	16,500.03	7,610.99	166.70	152.88	90.02	-7,415.46	-591.88	6,072.34	5,772.53	299.81	20.254	
19,100.00	7,618.00	16,592.27	7,614.13	168.10	154.48	90.05	-7,507.64	-593.35	6,073.60	5,770.60	303.01	20.044	
19,200.00	7,618.00	16,697.74	7,618.07	169.52	156.31	90.09	-7,613.02	-595.00	6,074.83	5,768.25	306.58	19.815	
19,300.00	7,618.00	16,790.93	7,621.91	170.95	157.92	90.12	-7,706.12	-596.51	6,076.13	5,766.32	309.81	19.612	
19,400.00	7,618.00	16,910.51	7,626.86	172.39	160.00	90.17	-7,825.58	-598.40	6,077.40	5,763.60	313.80	19.367	
19,500.00	7,618.00	16,988.57	7,628.68	173.84	161.35	90.19	-7,903.61	-599.48	6,078.48	5,761.89	316.59	19.200	
19,600.00	7,618.00	17,055.29	7,629.63	175.30	162.51	90.19	-7,970.31	-600.83	6,080.16	5,761.12	319.04	19.057	
19,700.00	7,618.00	17,132.76	7,630.61	176.76	163.85	90.20	-8,047.75	-602.73	6,082.28	5,760.47	321.80	18.901	
19,800.00	7,618.00	17,213.82	7,631.40	178.24	165.25	90.21	-8,128.78	-604.97	6,084.71	5,760.05	324.66	18.742	
19,896.19	7,618.00	17,281.70	7,631.80	179.66	166.43	90.21	-8,196.62	-607.13	6,087.44	5,760.33	327.11	18.610	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
0.00	0.00	0.00	0.00	0.00	0.00	-54.68	786.89	-1,110.74	1,361.25				
100.00	100.00	90.46	90.46	0.13	0.15	-54.69	786.88	-1,110.76	1,361.24	1,360.96	0.28	4,856.177	CC
200.00	200.00	189.87	189.87	0.49	0.31	-54.69	786.86	-1,110.85	1,361.30	1,360.50	0.80	1,703.565	ES
300.00	299.98	286.31	286.31	0.85	0.57	-124.05	786.88	-1,111.04	1,362.45	1,361.03	1.42	959.198	
400.00	399.84	380.69	380.69	1.21	0.91	-124.16	787.23	-1,111.42	1,365.93	1,363.81	2.11	645.941	
500.00	499.45	474.82	474.82	1.58	1.24	-124.34	787.92	-1,112.02	1,371.79	1,368.97	2.82	486.871	
600.00	598.70	568.57	568.55	1.97	1.57	-124.58	788.95	-1,112.83	1,380.06	1,376.53	3.53	390.778	
700.00	697.47	668.04	668.01	2.38	1.93	-124.92	790.14	-1,113.85	1,390.58	1,386.29	4.28	324.770	
800.00	795.62	762.46	762.41	2.83	2.26	-125.30	791.37	-1,114.85	1,403.29	1,398.26	5.03	278.724	
900.00	893.06	878.64	878.52	3.31	2.67	-125.79	795.11	-1,114.09	1,417.83	1,411.95	5.88	241.106	
1,000.00	989.64	988.78	988.31	3.83	3.06	-126.13	802.33	-1,109.11	1,433.05	1,426.32	6.73	212.777	
1,100.00	1,085.27	1,082.76	1,081.88	4.40	3.40	-126.39	809.51	-1,104.13	1,450.38	1,442.81	7.57	191.603	
1,200.00	1,179.82	1,203.18	1,201.69	5.02	3.84	-126.87	819.10	-1,096.79	1,469.44	1,460.90	8.54	172.075	
1,300.00	1,273.17	1,295.95	1,294.02	5.70	4.18	-127.24	825.82	-1,090.76	1,490.03	1,480.59	9.44	157.792	
1,400.00	1,365.21	1,402.11	1,399.36	6.43	4.59	-127.68	835.45	-1,081.86	1,512.22	1,501.78	10.44	144.830	
1,500.00	1,455.84	1,499.62	1,495.95	7.23	4.97	-128.06	845.64	-1,073.23	1,537.02	1,525.57	11.45	134.222	
1,600.00	1,544.94	1,596.14	1,591.05	8.09	5.36	-128.35	858.01	-1,062.37	1,563.21	1,550.70	12.51	124.980	
1,700.00	1,632.39	1,665.86	1,659.67	9.01	5.66	-128.43	867.83	-1,054.86	1,592.71	1,579.22	13.48	118.116	
1,800.00	1,718.11	1,731.55	1,724.33	10.00	5.93	-128.46	877.63	-1,048.80	1,626.14	1,611.67	14.47	112.390	
1,900.00	1,801.97	1,833.66	1,824.70	11.07	6.37	-128.82	893.86	-1,039.27	1,662.25	1,646.58	15.67	106.083	
2,000.00	1,883.88	1,919.88	1,909.36	12.20	6.75	-129.03	907.69	-1,030.63	1,700.26	1,683.44	16.82	101.065	
2,100.00	1,963.74	1,975.09	1,963.63	13.41	6.99	-128.92	916.62	-1,025.84	1,741.80	1,723.97	17.83	97.683	
2,200.00	2,041.45	2,074.86	2,061.69	14.69	7.43	-129.31	933.23	-1,017.88	1,786.54	1,767.43	19.11	93.502	
2,300.00	2,116.92	2,204.55	2,188.90	16.05	8.01	-130.05	954.32	-1,004.06	1,831.18	1,810.60	20.58	88.962	
2,357.48	2,159.25	2,241.29	2,224.92	16.86	8.18	-130.03	960.28	-1,000.01	1,857.96	1,836.73	21.23	87.525	
2,400.00	2,190.27	2,267.82	2,250.94	17.47	8.30	-130.35	964.67	-997.20	1,878.29	1,856.59	21.70	86.563	
2,500.00	2,263.22	2,328.36	2,310.31	18.92	8.58	-131.08	974.83	-991.25	1,927.12	1,904.34	22.78	84.594	
2,600.00	2,336.18	2,386.31	2,367.18	20.37	8.84	-131.74	984.77	-986.17	1,977.34	1,953.51	23.83	82.990	
2,700.00	2,409.14	2,443.33	2,423.14	21.84	9.10	-132.38	994.80	-981.84	2,028.98	2,004.13	24.84	81.667	
2,800.00	2,482.09	2,504.78	2,483.48	23.31	9.38	-133.05	1,005.70	-977.78	2,081.81	2,055.94	25.87	80.470	
2,900.00	2,555.05	2,562.58	2,540.28	24.78	9.64	-133.66	1,015.89	-974.58	2,135.82	2,108.97	26.85	79.547	
3,000.00	2,628.01	2,650.72	2,626.94	26.27	10.03	-134.56	1,031.45	-970.34	2,190.75	2,162.73	28.03	78.168	
3,100.00	2,700.96	2,791.19	2,764.62	27.75	10.68	-135.85	1,057.41	-960.33	2,244.34	2,214.75	29.58	75.866	
3,200.00	2,773.92	3,200.00	2,891.90	29.24	12.56	-136.99	1,079.27	-948.49	2,296.33	2,264.03	32.30	71.102	
3,300.00	2,846.88	3,016.32	2,985.73	30.73	11.71	-137.83	1,093.50	-938.49	2,347.08	2,314.87	32.22	72.848	
3,400.00	2,919.83	3,167.08	3,134.06	32.23	12.39	-139.12	1,113.70	-920.86	2,396.73	2,363.01	33.72	71.078	
3,500.00	2,992.79	3,220.38	3,186.58	33.72	12.63	-139.57	1,120.22	-914.46	2,446.40	2,411.80	34.60	70.707	
3,600.00	3,065.75	3,329.32	3,293.99	35.22	13.11	-140.48	1,133.10	-901.57	2,496.41	2,460.61	35.79	69.743	
3,700.00	3,138.71	3,417.23	3,380.39	36.72	13.51	-141.14	1,144.58	-890.13	2,545.95	2,509.08	36.87	69.052	
3,800.00	3,211.66	3,468.25	3,430.59	38.22	13.74	-141.52	1,151.19	-883.91	2,596.38	2,558.68	37.70	68.870	
3,900.00	3,284.62	3,546.18	3,507.36	39.72	14.09	-142.08	1,161.27	-875.13	2,647.79	2,609.10	38.69	68.438	
4,000.00	3,357.58	3,611.61	3,571.67	41.22	14.39	-142.52	1,170.68	-867.56	2,699.43	2,659.84	39.59	68.179	
4,100.00	3,430.53	3,665.00	3,624.33	42.73	14.63	-142.89	1,177.59	-862.13	2,752.15	2,711.75	40.39	68.134	
4,200.00	3,503.49	3,790.20	3,747.66	44.23	15.19	-143.69	1,194.64	-849.01	2,804.98	2,763.30	41.68	67.293	
4,300.00	3,576.45	3,871.17	3,827.09	45.74	15.57	-144.16	1,206.96	-839.22	2,856.81	2,814.12	42.68	66.928	
4,400.00	3,649.40	3,912.52	3,867.76	47.25	15.76	-144.40	1,212.93	-834.76	2,909.78	2,866.40	43.38	67.070	
4,500.00	3,722.36	3,963.00	3,917.58	48.75	15.99	-144.71	1,219.69	-830.21	2,964.09	2,919.96	44.13	67.173	
4,600.00	3,795.32	4,066.18	4,019.37	50.26	16.44	-145.30	1,233.74	-820.90	3,018.75	2,973.51	45.24	66.729	
4,700.00	3,868.27	4,142.70	4,094.68	51.77	16.79	-145.71	1,245.07	-813.49	3,073.07	3,026.90	46.17	66.558	
4,800.00	3,941.23	4,227.88	4,178.47	53.28	17.18	-146.14	1,257.95	-805.23	3,127.54	3,080.37	47.17	66.305	
4,900.00	4,014.19	4,317.09	4,266.14	54.79	17.60	-146.56	1,271.95	-796.36	3,181.99	3,133.78	48.20	66.011	
5,000.00	4,087.15	4,362.49	4,310.76	56.30	17.80	-146.77	1,279.07	-792.04	3,236.89	3,188.00	48.89	66.212	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,160.10	4,408.00	4,355.66	57.81	18.01	-147.00	1,285.49	-788.32	3,292.83	3,243.28	49.55	66.456	
5,200.00	4,233.06	4,536.66	4,482.38	59.32	18.59	-147.59	1,304.30	-776.57	3,347.83	3,296.97	50.86	65.826	
5,300.00	4,306.02	4,587.00	4,532.01	60.83	18.82	-147.82	1,311.61	-772.27	3,403.68	3,352.13	51.55	66.022	
5,400.00	4,378.97	4,749.26	4,692.02	62.34	19.54	-148.54	1,333.90	-757.28	3,459.17	3,406.08	53.09	65.155	
5,500.00	4,451.93	4,802.24	4,744.10	63.85	19.79	-148.75	1,341.87	-751.72	3,513.78	3,459.97	53.81	65.302	
5,600.00	4,524.89	5,600.00	4,838.16	65.36	23.45	-149.14	1,355.49	-742.61	3,569.18	3,511.26	57.93	61.616	
5,700.00	4,597.84	5,022.31	4,960.43	66.88	20.81	-149.59	1,374.83	-728.63	3,623.14	3,567.01	56.13	64.544	
5,800.00	4,670.80	5,068.26	5,005.54	68.39	21.02	-149.76	1,381.96	-723.58	3,677.55	3,620.76	56.79	64.753	
5,900.00	4,743.76	5,121.00	5,057.48	69.90	21.26	-149.95	1,389.54	-718.47	3,732.94	3,675.45	57.49	64.933	
6,000.00	4,816.71	5,236.74	5,171.32	71.41	21.79	-150.36	1,406.72	-706.62	3,787.99	3,729.30	58.69	64.546	
6,100.00	4,889.67	5,419.69	5,351.22	72.93	22.64	-150.98	1,432.81	-686.22	3,843.02	3,782.64	60.39	63.641	
6,200.00	4,962.63	5,477.00	5,407.46	74.44	22.91	-151.17	1,441.13	-678.95	3,896.21	3,835.08	61.12	63.742	
6,300.00	5,035.59	5,510.22	5,440.12	75.95	23.06	-151.28	1,445.80	-675.06	3,950.23	3,888.57	61.66	64.064	
6,400.00	5,108.54	5,566.00	5,495.11	77.47	23.31	-151.47	1,453.15	-669.37	4,005.42	3,943.06	62.36	64.235	
6,500.00	5,181.50	5,647.54	5,575.49	78.98	23.68	-151.73	1,464.20	-661.30	4,061.09	3,997.84	63.25	64.207	
6,600.00	5,254.46	5,690.70	5,618.00	80.49	23.87	-151.87	1,470.32	-656.92	4,116.67	4,052.83	63.84	64.484	
6,700.00	5,327.41	5,744.00	5,670.66	82.01	24.11	-152.04	1,477.10	-652.27	4,173.27	4,108.78	64.49	64.708	
6,800.00	5,400.37	5,814.27	5,740.17	83.52	24.41	-152.27	1,485.58	-646.46	4,230.38	4,165.11	65.27	64.818	
6,900.00	5,473.33	6,900.00	5,848.86	85.04	29.39	-152.58	1,501.83	-636.29	4,286.78	4,216.09	70.69	60.640	
7,000.00	5,546.28	5,966.45	5,889.82	86.55	25.11	-152.68	1,509.18	-632.46	4,343.48	4,276.48	67.00	64.826	
7,100.00	5,619.24	7,100.00	5,970.87	88.06	30.33	-152.88	1,522.42	-625.82	4,401.01	4,328.41	72.60	60.620	
7,200.00	5,692.20	6,135.97	6,056.53	89.58	25.89	-153.10	1,536.34	-618.15	4,457.94	4,389.04	68.90	64.700	
7,300.00	5,765.15	6,190.00	6,109.82	91.09	26.14	-153.23	1,544.24	-614.06	4,515.72	4,446.15	69.57	64.913	
7,400.00	5,838.11	7,400.00	6,165.30	92.61	31.49	-153.38	1,552.31	-609.86	4,573.76	4,498.57	75.19	60.831	
7,500.00	5,911.07	6,347.76	6,265.49	94.12	26.83	-153.64	1,566.68	-601.82	4,631.48	4,560.19	71.29	64.963	
7,600.00	5,984.03	6,502.33	6,418.17	95.64	27.52	-154.04	1,586.86	-588.57	4,688.88	4,616.12	72.77	64.438	
7,700.00	6,056.98	6,635.00	6,548.61	97.15	28.13	-154.34	1,606.51	-574.53	4,744.28	4,670.18	74.10	64.029	
7,800.00	6,129.94	6,689.67	6,602.33	98.67	28.38	-154.46	1,614.68	-568.52	4,799.85	4,725.08	74.77	64.193	
7,900.00	6,202.90	6,724.00	6,636.04	100.18	28.54	-154.53	1,620.30	-565.31	4,856.52	4,781.24	75.28	64.516	
8,000.00	6,275.85	6,749.14	6,660.75	101.70	28.66	-154.58	1,624.46	-563.22	4,914.07	4,838.38	75.69	64.926	
8,100.00	6,348.81	7,438.00	7,334.75	103.21	31.49	-156.58	1,674.58	-472.28	4,971.87	4,891.52	80.35	61.881	
8,200.00	6,421.77	7,438.00	7,334.75	104.73	31.49	-156.58	1,674.58	-472.28	5,020.65	4,939.99	80.66	62.245	
8,300.00	6,494.72	7,480.09	7,374.34	106.24	31.54	-156.87	1,662.79	-464.26	5,069.92	4,989.03	80.90	62.673	
8,400.00	6,567.68	7,527.00	7,417.87	107.76	31.60	-157.23	1,646.75	-457.43	5,121.70	5,040.62	81.08	63.170	
8,500.00	6,640.64	7,527.00	7,417.87	109.27	31.60	-157.23	1,646.75	-457.43	5,173.65	5,092.31	81.33	63.610	
8,600.00	6,713.59	7,527.00	7,417.87	110.79	31.60	-157.23	1,646.75	-457.43	5,226.99	5,145.43	81.57	64.082	
8,700.00	6,786.55	7,527.00	7,417.87	112.30	31.60	-157.23	1,646.75	-457.43	5,281.69	5,199.92	81.78	64.586	
8,800.00	6,859.51	7,527.00	7,417.87	113.82	31.60	-157.23	1,646.75	-457.43	5,337.71	5,255.74	81.97	65.119	
8,900.00	6,932.46	7,527.00	7,417.87	115.33	31.60	-157.23	1,646.75	-457.43	5,394.99	5,312.85	82.14	65.680	
9,000.00	7,005.42	7,527.00	7,417.87	116.85	31.60	-157.23	1,646.75	-457.43	5,453.51	5,371.22	82.29	66.269	
9,104.89	7,081.95	7,527.00	7,417.87	118.44	31.60	-157.23	1,646.75	-457.43	5,516.17	5,433.74	82.44	66.914	
9,150.00	7,115.15	7,527.00	7,417.87	119.12	31.60	-165.46	1,646.75	-457.43	5,543.66	5,461.17	82.49	67.203	
9,200.00	7,152.46	7,565.26	7,452.70	119.86	31.60	-175.17	1,631.37	-453.72	5,573.50	5,491.03	82.46	67.587	
9,250.00	7,190.04	7,569.43	7,456.45	120.57	31.60	175.18	1,629.57	-453.43	5,604.45	5,521.95	82.50	67.933	
9,300.00	7,227.59	7,573.75	7,460.33	121.25	31.60	165.57	1,627.68	-453.15	5,635.39	5,552.86	82.52	68.289	
9,350.00	7,264.83	7,616.00	7,497.58	121.89	31.61	156.11	1,607.83	-451.72	5,667.16	5,584.74	82.43	68.754	
9,400.00	7,301.48	7,616.00	7,497.58	122.48	31.61	147.26	1,607.83	-451.72	5,697.13	5,614.68	82.44	69.105	
9,450.00	7,337.26	7,616.00	7,497.58	123.01	31.61	138.99	1,607.83	-451.72	5,726.41	5,643.97	82.45	69.454	
9,500.00	7,371.90	7,616.00	7,497.58	123.49	31.61	131.37	1,607.83	-451.72	5,754.82	5,672.37	82.45	69.797	
9,550.00	7,405.13	7,616.00	7,497.58	123.91	31.61	124.47	1,607.83	-451.72	5,782.13	5,699.68	82.45	70.129	
9,600.00	7,436.70	7,616.00	7,497.58	124.27	31.61	118.29	1,607.83	-451.72	5,808.17	5,725.72	82.45	70.443	
9,650.00	7,466.36	7,616.00	7,497.58	124.57	31.61	112.81	1,607.83	-451.72	5,832.75	5,750.28	82.46	70.733	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,700.00	7,493.91	7,616.00	7,497.58	124.81	31.61	108.00	1,607.83	-451.72	5,855.70	5,773.22	82.48	70.995	
9,750.00	7,519.11	7,616.00	7,497.58	125.00	31.61	103.83	1,607.83	-451.72	5,876.87	5,794.35	82.52	71.221	
9,800.00	7,541.79	7,616.00	7,497.58	125.12	31.61	100.26	1,607.83	-451.72	5,896.12	5,813.54	82.57	71.406	
9,850.00	7,561.77	7,616.00	7,497.58	125.20	31.61	97.23	1,607.83	-451.72	5,913.32	5,830.66	82.65	71.544	
9,900.00	7,578.90	7,651.42	7,527.98	125.23	31.58	94.95	1,589.65	-451.73	5,928.02	5,845.38	82.64	71.729	
9,950.00	7,593.04	7,663.19	7,537.93	125.22	31.58	93.01	1,583.37	-451.83	5,940.55	5,857.81	82.74	71.794	
10,000.00	7,604.09	7,674.59	7,547.50	125.17	31.57	91.53	1,577.18	-451.97	5,950.69	5,867.81	82.88	71.799	
10,050.00	7,611.97	7,705.00	7,572.68	125.08	31.55	90.63	1,560.14	-452.58	5,958.47	5,875.49	82.97	71.812	
10,100.00	7,616.61	7,961.33	7,760.83	124.97	31.25	91.64	1,387.37	-452.21	5,962.72	5,880.96	81.76	72.934	
10,145.95	7,618.00	7,973.00	7,768.05	124.84	31.23	91.53	1,378.21	-452.02	5,963.82	5,881.88	81.93	72.790	
10,200.00	7,618.00	7,973.00	7,768.05	124.69	31.23	91.53	1,378.21	-452.02	5,964.17	5,881.91	82.26	72.503	
10,300.00	7,618.00	8,016.20	7,793.58	124.41	31.16	91.77	1,343.37	-451.72	5,965.56	5,883.00	82.57	72.250	
10,400.00	7,618.00	10,400.00	7,839.13	124.14	29.98	92.21	1,266.18	-452.69	5,968.41	5,886.55	81.86	72.910	
10,500.00	7,618.00	8,440.04	7,935.64	123.88	30.46	93.14	948.98	-451.74	5,969.24	5,888.77	80.48	74.172	
10,600.00	7,618.00	8,484.39	7,938.06	123.63	30.41	93.16	904.70	-451.50	5,968.65	5,887.85	80.80	73.866	
10,604.12	7,618.00	8,486.22	7,938.13	123.62	30.41	93.16	902.87	-451.50	5,968.65	5,887.83	80.82	73.852	
10,700.00	7,618.00	8,573.79	7,939.93	123.40	30.40	93.18	815.32	-451.85	5,968.80	5,887.92	80.88	73.798	
10,800.00	7,618.00	8,685.00	7,942.79	123.18	30.62	93.21	704.15	-451.75	5,968.49	5,887.51	80.99	73.698	
10,833.62	7,618.00	8,710.45	7,943.45	123.10	30.71	93.21	678.71	-451.72	5,968.40	5,887.28	81.13	73.569	
10,900.00	7,618.00	8,736.58	7,944.12	122.96	30.82	93.22	652.59	-451.86	5,968.63	5,887.15	81.48	73.250	
11,000.00	7,618.00	8,974.72	7,951.45	122.76	32.22	93.29	414.58	-452.33	5,969.38	5,887.61	81.77	72.999	
11,100.00	7,618.00	9,047.30	7,952.20	122.57	32.76	93.30	342.02	-451.53	5,968.00	5,885.50	82.49	72.344	
11,200.00	7,618.00	9,151.80	7,951.85	122.39	33.60	93.29	237.52	-450.45	5,966.60	5,883.24	83.36	71.578	
11,300.00	7,618.00	9,219.00	7,952.67	122.23	34.18	93.30	170.33	-450.13	5,965.78	5,881.54	84.25	70.814	
11,400.00	7,618.00	9,309.00	7,954.67	122.07	35.01	93.32	80.35	-449.29	5,964.70	5,879.39	85.30	69.922	
11,478.23	7,618.00	9,355.28	7,955.65	121.96	35.46	93.33	34.09	-448.92	5,964.14	5,878.04	86.10	69.273	
11,500.00	7,618.00	9,361.27	7,955.77	121.93	35.51	93.33	28.10	-448.94	5,964.17	5,877.89	86.28	69.125	
11,600.00	7,618.00	9,398.00	7,956.41	121.79	35.87	93.34	-8.62	-449.42	5,965.07	5,877.86	87.20	68.404	
11,700.00	7,618.00	11,700.00	7,964.24	121.67	62.54	93.42	-355.25	-447.30	5,964.07	5,851.22	112.85	52.847	
11,800.00	7,618.00	9,787.76	7,965.29	121.56	40.15	93.43	-398.22	-446.25	5,961.61	5,870.02	91.59	65.088	
11,900.00	7,618.00	9,843.00	7,967.16	121.46	40.80	93.45	-453.42	-445.95	5,960.58	5,867.70	92.87	64.179	
11,965.73	7,618.00	9,843.00	7,967.16	121.41	40.80	93.45	-453.42	-445.95	5,960.21	5,866.84	93.37	63.832	
12,000.00	7,618.00	9,847.99	7,967.36	121.38	40.87	93.45	-458.40	-445.98	5,960.31	5,866.63	93.68	63.625	
12,100.00	7,618.00	9,957.17	7,971.64	121.30	42.21	93.49	-567.50	-446.53	5,960.71	5,865.12	95.59	62.357	
12,200.00	7,618.00	10,147.15	7,973.80	121.24	44.63	93.51	-757.45	-446.11	5,960.16	5,861.60	98.57	60.467	
12,300.00	7,618.00	10,224.72	7,972.59	121.19	45.66	93.50	-835.02	-445.85	5,959.35	5,859.05	100.30	59.412	
12,400.00	7,618.00	10,416.37	7,967.23	121.16	48.27	93.45	-1,026.57	-442.90	5,956.86	5,853.19	103.68	57.455	
12,500.00	7,618.00	10,467.00	7,965.72	121.14	48.98	93.43	-1,077.17	-442.24	5,955.00	5,849.84	105.16	56.627	
12,600.00	7,618.00	10,510.27	7,964.73	121.13	49.59	93.43	-1,120.43	-442.05	5,954.02	5,847.47	106.56	55.877	
12,655.87	7,618.00	10,538.03	7,964.35	121.12	49.98	93.42	-1,148.19	-442.08	5,953.85	5,846.44	107.40	55.435	
12,700.00	7,618.00	10,556.00	7,964.22	121.13	50.23	93.42	-1,166.15	-442.16	5,953.90	5,845.90	108.00	55.128	
12,800.00	7,618.00	10,615.21	7,964.39	121.15	51.07	93.42	-1,225.35	-442.73	5,954.56	5,844.89	109.68	54.291	
12,900.00	7,618.00	10,866.50	7,972.29	121.18	54.71	93.50	-1,476.50	-442.71	5,954.52	5,839.90	114.62	51.951	
13,000.00	7,618.00	11,006.35	7,975.05	121.23	56.80	93.53	-1,616.30	-440.41	5,952.64	5,834.79	117.85	50.510	
13,100.00	7,618.00	11,077.53	7,974.12	121.29	57.88	93.52	-1,687.46	-439.27	5,950.66	5,830.78	119.88	49.637	
13,200.00	7,618.00	11,186.01	7,970.58	121.37	59.52	93.49	-1,795.88	-438.17	5,949.13	5,826.50	122.62	48.515	
13,300.00	7,618.00	11,313.31	7,966.60	121.46	61.48	93.45	-1,923.10	-436.11	5,946.96	5,821.18	125.78	47.279	
13,400.00	7,618.00	11,392.79	7,964.57	121.57	62.71	93.43	-2,002.55	-434.81	5,944.84	5,816.77	128.07	46.419	
13,500.00	7,618.00	11,469.00	7,962.95	121.70	63.90	93.41	-2,078.73	-433.90	5,943.17	5,812.86	130.31	45.608	
13,600.00	7,618.00	11,525.41	7,961.88	121.84	64.78	93.40	-2,135.13	-433.53	5,942.04	5,809.87	132.17	44.957	
13,700.00	7,618.00	11,585.13	7,960.81	122.01	65.71	93.39	-2,194.84	-433.52	5,941.57	5,807.47	134.11	44.304	
13,716.73	7,618.00	11,594.77	7,960.65	122.04	65.86	93.39	-2,204.48	-433.55	5,941.56	5,807.14	134.43	44.199	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
13,800.00	7,618.00	11,647.00	7,959.85	122.19	66.68	93.39	-2,256.70	-433.95	5,941.81	5,805.72	136.10	43.659	
13,900.00	7,618.00	11,694.64	7,959.26	122.39	67.43	93.38	-2,304.33	-434.63	5,942.81	5,805.01	137.80	43.127	
14,000.00	7,618.00	11,736.00	7,958.87	122.62	68.07	93.38	-2,345.68	-435.51	5,944.64	5,805.27	139.37	42.655	
14,100.00	7,618.00	11,795.51	7,958.31	122.86	69.01	93.37	-2,405.16	-437.27	5,947.27	5,805.95	141.32	42.084	
14,200.00	7,618.00	11,858.77	7,957.59	123.12	70.00	93.36	-2,468.37	-439.74	5,950.71	5,807.36	143.36	41.510	
14,300.00	7,618.00	11,937.61	7,956.76	123.41	71.24	93.35	-2,547.14	-443.08	5,954.55	5,808.82	145.74	40.858	
14,400.00	7,618.00	12,011.04	7,956.15	123.72	72.39	93.34	-2,620.48	-446.52	5,958.84	5,810.82	148.01	40.258	
14,500.00	7,618.00	12,194.72	7,956.84	124.06	75.31	93.35	-2,803.98	-454.44	5,963.00	5,810.22	152.78	39.029	
14,600.00	7,618.00	12,321.38	7,958.07	124.42	77.34	93.36	-2,930.57	-458.74	5,966.19	5,809.85	156.34	38.162	
14,700.00	7,618.00	12,413.14	7,958.99	124.80	78.82	93.36	-3,022.29	-461.25	5,968.65	5,809.53	159.13	37.509	
14,800.00	7,618.00	12,471.07	7,959.08	125.21	79.75	93.36	-3,080.18	-463.24	5,971.77	5,810.64	161.13	37.062	
14,900.00	7,618.00	12,538.00	7,959.18	125.65	80.83	93.36	-3,147.05	-466.10	5,975.64	5,812.30	163.34	36.583	
15,000.00	7,618.00	12,644.01	7,960.00	126.11	82.55	93.37	-3,252.95	-470.83	5,979.82	5,813.32	166.50	35.915	
15,100.00	7,618.00	12,744.20	7,960.71	126.61	84.17	93.37	-3,353.05	-475.12	5,983.80	5,814.26	169.54	35.295	
15,200.00	7,618.00	13,768.82	7,945.89	127.13	101.41	93.26	-4,374.84	-432.71	5,972.22	5,777.02	195.20	30.595	
15,300.00	7,618.00	13,813.98	7,946.54	127.68	102.19	93.26	-4,419.73	-427.80	5,961.14	5,764.02	197.13	30.240	
15,400.00	7,618.00	13,875.00	7,947.50	128.26	103.24	93.28	-4,480.46	-421.92	5,951.12	5,751.69	199.43	29.840	
15,500.00	7,618.00	13,875.00	7,947.50	128.87	103.24	93.28	-4,480.46	-421.92	5,941.99	5,741.78	200.21	29.678	
15,600.00	7,618.00	13,928.07	7,948.31	129.51	104.15	93.29	-4,533.35	-417.63	5,933.87	5,731.56	202.30	29.331	
15,700.00	7,618.00	13,964.00	7,948.77	130.18	104.77	93.29	-4,569.19	-415.22	5,926.90	5,722.95	203.95	29.060	
15,800.00	7,618.00	13,999.72	7,949.22	130.88	105.38	93.30	-4,604.85	-413.21	5,921.01	5,715.43	205.58	28.801	
15,900.00	7,618.00	14,053.00	7,950.00	131.61	106.29	93.31	-4,658.08	-410.91	5,916.26	5,708.61	207.65	28.491	
16,000.00	7,618.00	14,053.00	7,950.00	132.37	106.29	93.31	-4,658.08	-410.91	5,912.54	5,704.21	208.33	28.381	
16,100.00	7,618.00	14,102.24	7,950.70	133.17	107.13	93.32	-4,707.30	-409.61	5,909.87	5,699.61	210.26	28.107	
16,200.00	7,618.00	14,142.00	7,951.15	133.99	107.81	93.32	-4,747.05	-409.19	5,908.43	5,696.50	211.93	27.879	
16,259.21	7,618.00	14,142.00	7,951.15	134.49	107.81	93.32	-4,747.05	-409.19	5,908.14	5,695.85	212.29	27.830	
16,300.00	7,618.00	14,142.00	7,951.15	134.84	107.81	93.32	-4,747.05	-409.19	5,908.28	5,695.75	212.53	27.800	
16,400.00	7,618.00	14,193.80	7,951.55	135.72	108.68	93.32	-4,798.85	-409.58	5,909.04	5,694.56	214.48	27.550	
16,500.00	7,618.00	14,231.00	7,951.67	136.63	109.31	93.32	-4,836.03	-410.54	5,911.16	5,695.14	216.03	27.363	
16,600.00	7,618.00	14,287.04	7,951.71	137.57	110.25	93.32	-4,892.04	-412.50	5,914.23	5,696.16	218.07	27.121	
16,700.00	7,618.00	14,635.80	7,953.76	138.54	116.16	93.34	-5,240.69	-417.88	5,915.54	5,687.46	228.08	25.937	
16,800.00	7,618.00	14,700.98	7,955.19	139.53	117.27	93.36	-5,305.84	-417.57	5,914.89	5,684.46	230.43	25.669	
16,838.04	7,618.00	14,720.99	7,955.62	139.92	117.61	93.36	-5,325.85	-417.59	5,914.83	5,683.63	231.20	25.583	
16,900.00	7,618.00	14,766.00	7,956.51	140.55	118.38	93.37	-5,370.85	-417.84	5,915.01	5,682.23	232.78	25.410	
17,000.00	7,618.00	14,806.69	7,957.19	141.60	119.07	93.37	-5,411.53	-418.34	5,915.88	5,681.43	234.45	25.233	
17,100.00	7,618.00	14,855.00	7,957.78	142.67	119.89	93.38	-5,459.83	-419.26	5,917.57	5,681.26	236.31	25.042	
17,200.00	7,618.00	14,910.13	7,958.14	143.77	120.83	93.38	-5,514.93	-420.79	5,920.07	5,681.72	238.34	24.838	
17,300.00	7,618.00	14,970.96	7,958.20	144.88	121.86	93.38	-5,575.72	-423.03	5,923.37	5,682.85	240.53	24.627	
17,400.00	7,618.00	15,169.36	7,961.27	146.02	125.22	93.41	-5,773.98	-429.40	5,926.55	5,679.95	246.60	24.033	
17,500.00	7,618.00	15,299.34	7,966.50	147.19	127.44	93.46	-5,903.83	-431.70	5,928.21	5,677.44	250.77	23.640	
17,600.00	7,618.00	15,413.12	7,970.35	148.37	129.39	93.49	-6,017.54	-433.23	5,929.42	5,674.92	254.49	23.299	
17,700.00	7,618.00	15,502.32	7,973.03	149.57	130.92	93.52	-6,106.69	-434.59	5,930.78	5,673.25	257.53	23.030	
17,800.00	7,618.00	15,675.20	7,978.55	150.79	133.89	93.57	-6,279.47	-436.18	5,931.58	5,668.65	262.93	22.560	
17,900.00	7,618.00	15,746.06	7,980.82	152.03	135.11	93.59	-6,350.30	-436.65	5,932.06	5,666.59	265.46	22.346	
18,000.00	7,618.00	15,851.96	7,984.57	153.29	136.93	93.63	-6,456.13	-437.27	5,932.53	5,663.54	268.99	22.055	
18,100.00	7,618.00	15,910.97	7,986.54	154.57	137.94	93.65	-6,515.10	-437.86	5,933.41	5,662.22	271.18	21.880	
18,200.00	7,618.00	15,978.89	7,988.65	155.86	139.11	93.67	-6,582.97	-438.99	5,934.92	5,661.29	273.62	21.690	
18,300.00	7,618.00	16,049.54	7,991.00	157.17	140.32	93.69	-6,653.57	-440.50	5,936.93	5,660.80	276.13	21.500	
18,400.00	7,618.00	16,118.18	7,993.32	158.49	141.50	93.71	-6,722.15	-442.30	5,939.44	5,660.86	278.58	21.320	
18,500.00	7,618.00	16,191.00	7,995.68	159.82	142.75	93.73	-6,794.89	-444.70	5,942.56	5,661.42	281.14	21.137	
18,600.00	7,618.00	16,230.50	7,996.86	161.17	143.42	93.74	-6,834.34	-446.30	5,946.37	5,663.66	282.71	21.033	
18,700.00	7,618.00	16,280.00	7,998.20	162.54	144.27	93.75	-6,883.76	-448.72	5,951.07	5,666.52	284.56	20.914	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
18,800.00	7,618.00	16,373.28	8,000.86	163.91	145.86	93.78	-6,976.87	-453.71	5,956.27	5,668.56	287.71	20.703	
18,900.00	7,618.00	16,440.86	8,002.58	165.30	147.01	93.79	-7,044.32	-457.55	5,961.77	5,671.69	290.08	20.552	
19,000.00	7,618.00	16,527.05	8,004.08	166.70	148.47	93.80	-7,130.34	-462.86	5,967.68	5,674.67	293.01	20.367	
19,100.00	7,618.00	16,632.49	8,005.73	168.10	150.26	93.81	-7,235.56	-469.40	5,973.65	5,677.12	296.53	20.145	
19,200.00	7,618.00	17,110.47	7,998.66	169.52	158.46	93.74	-7,712.96	-487.40	5,979.20	5,668.19	311.01	19.225	
19,300.00	7,618.00	17,609.02	7,997.14	170.95	167.18	93.73	-8,210.68	-469.44	5,974.45	5,649.16	325.29	18.366	
19,400.00	7,618.00	17,738.00	8,002.59	172.39	169.45	93.79	-8,339.21	-460.01	5,967.08	5,637.58	329.50	18.109	
19,500.00	7,618.00	17,796.00	8,005.06	173.84	170.48	93.82	-8,396.99	-455.65	5,959.66	5,627.80	331.86	17.958	
19,600.00	7,618.00	17,796.00	8,005.06	175.30	170.48	93.82	-8,396.99	-455.65	5,953.63	5,620.98	332.64	17.898	
19,700.00	7,618.00	17,796.00	8,005.06	176.76	170.48	93.82	-8,396.99	-455.65	5,949.27	5,615.92	333.35	17.847	
19,800.00	7,618.00	17,796.00	8,005.06	178.24	170.48	93.82	-8,396.99	-455.65	5,946.59	5,612.61	333.99	17.805	
19,896.19	7,618.00	17,796.00	8,005.06	179.66	170.48	93.82	-8,396.99	-455.65	5,945.60	5,611.08	334.52	17.774	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-54.44	786.89	-1,100.94	1,353.27				
100.00	100.00	89.71	89.71	0.13	0.15	-54.45	786.86	-1,100.97	1,353.25	1,352.96	0.28	4,770.852	CC
200.00	200.00	189.38	189.38	0.49	0.32	-54.45	786.77	-1,101.07	1,353.28	1,352.47	0.81	1,675.017	ES
300.00	299.98	289.03	289.03	0.85	0.48	-123.82	786.62	-1,101.25	1,354.31	1,352.98	1.33	1,019.599	
400.00	399.84	386.59	386.59	1.21	0.77	-123.96	786.54	-1,101.47	1,357.37	1,355.39	1.97	687.545	
500.00	499.45	483.13	483.13	1.58	1.10	-124.16	786.88	-1,101.64	1,362.61	1,359.93	2.68	508.582	
600.00	598.70	579.36	579.36	1.97	1.44	-124.42	787.67	-1,101.77	1,370.09	1,366.69	3.40	403.461	
700.00	697.47	681.99	681.98	2.38	1.80	-124.79	788.40	-1,101.97	1,379.61	1,375.46	4.15	332.307	
800.00	795.62	787.61	787.53	2.83	2.17	-125.15	791.48	-1,100.03	1,390.79	1,385.85	4.94	281.648	
900.00	893.06	888.34	888.10	3.31	2.52	-125.47	795.99	-1,096.77	1,403.76	1,398.03	5.73	244.867	
1,000.00	989.64	993.89	993.35	3.83	2.90	-125.82	802.16	-1,092.04	1,418.59	1,412.01	6.58	215.604	
1,100.00	1,085.27	1,087.74	1,086.67	4.40	3.25	-126.05	810.13	-1,085.95	1,435.29	1,427.86	7.42	193.328	
1,200.00	1,179.82	1,234.31	1,232.20	5.02	3.80	-126.65	822.20	-1,073.53	1,452.21	1,443.70	8.51	170.679	
1,300.00	1,273.17	1,319.21	1,316.48	5.70	4.13	-126.95	828.55	-1,065.52	1,470.37	1,460.97	9.40	156.440	
1,400.00	1,365.21	1,398.00	1,394.42	6.43	4.45	-127.14	837.07	-1,057.81	1,492.07	1,481.77	10.31	144.743	
1,500.00	1,455.84	1,481.91	1,476.71	7.23	4.80	-127.22	850.15	-1,047.98	1,516.71	1,505.42	11.29	134.288	
1,600.00	1,544.94	1,558.82	1,551.69	8.09	5.14	-127.20	864.55	-1,038.69	1,544.66	1,532.36	12.30	125.592	
1,700.00	1,632.39	1,648.74	1,639.56	9.01	5.54	-127.31	880.74	-1,028.62	1,575.20	1,561.79	13.41	117.507	
1,800.00	1,718.11	1,714.33	1,703.90	10.00	5.84	-127.31	891.91	-1,022.43	1,609.00	1,594.59	14.41	111.660	
1,900.00	1,801.97	1,823.53	1,811.10	11.07	6.32	-127.73	910.35	-1,012.79	1,645.56	1,629.89	15.67	104.989	
2,000.00	1,883.88	1,934.34	1,919.98	12.20	6.82	-128.24	927.37	-1,001.28	1,682.45	1,665.48	16.97	99.114	
2,100.00	1,963.74	2,001.76	1,986.31	13.41	7.12	-128.32	937.59	-994.88	1,722.50	1,704.43	18.07	95.348	
2,200.00	2,041.45	2,170.66	2,152.38	14.69	7.88	-129.62	962.19	-976.53	1,764.18	1,744.45	19.72	89.441	
2,300.00	2,116.92	2,237.21	2,217.74	16.05	8.18	-129.72	971.30	-967.91	1,806.04	1,785.17	20.86	86.578	
2,357.48	2,159.25	2,275.34	2,255.19	16.86	8.36	-129.76	976.68	-963.21	1,831.62	1,810.10	21.52	85.124	
2,400.00	2,190.27	2,302.99	2,282.35	17.47	8.48	-130.12	980.68	-959.90	1,851.08	1,829.08	22.00	84.148	
2,500.00	2,263.22	2,366.67	2,344.89	18.92	8.77	-130.90	990.19	-952.63	1,897.80	1,874.70	23.11	82.130	
2,600.00	2,336.18	2,427.72	2,404.87	20.37	9.05	-131.63	999.64	-946.23	1,945.92	1,921.74	24.18	80.473	
2,700.00	2,409.14	2,494.40	2,470.42	21.84	9.36	-132.40	1,010.05	-939.89	1,995.29	1,970.03	25.26	78.975	
2,800.00	2,482.09	2,561.16	2,536.15	23.31	9.66	-133.16	1,020.20	-934.13	2,045.69	2,019.36	26.33	77.705	
2,900.00	2,555.05	2,627.92	2,601.96	24.78	9.96	-133.91	1,030.15	-928.93	2,097.09	2,069.72	27.37	76.631	
3,000.00	2,628.01	2,700.18	2,673.14	26.27	10.28	-134.67	1,041.44	-923.60	2,149.37	2,120.95	28.43	75.610	
3,100.00	2,700.96	2,811.41	2,782.35	27.75	10.79	-135.73	1,060.39	-914.35	2,201.64	2,171.88	29.76	73.971	
3,200.00	2,773.92	2,993.15	2,960.25	29.24	11.66	-137.31	1,090.99	-893.40	2,251.46	2,219.88	31.58	71.295	
3,300.00	2,846.88	3,068.42	3,033.78	30.73	12.02	-137.92	1,103.29	-883.16	2,299.92	2,267.26	32.67	70.409	
3,400.00	2,919.83	3,132.00	3,096.17	32.23	12.32	-138.45	1,112.91	-875.48	2,349.57	2,315.92	33.65	69.832	
3,500.00	2,992.79	3,283.33	3,244.59	33.72	13.04	-139.67	1,134.33	-855.22	2,398.17	2,363.00	35.17	68.185	
3,600.00	3,065.75	3,348.00	3,307.96	35.22	13.34	-140.17	1,143.23	-845.88	2,446.27	2,410.14	36.13	67.708	
3,700.00	3,138.71	3,399.00	3,358.14	36.72	13.57	-140.57	1,149.56	-839.35	2,495.68	2,458.71	36.97	67.504	
3,800.00	3,211.66	3,461.63	3,419.83	38.22	13.86	-141.06	1,157.44	-831.98	2,546.23	2,508.36	37.87	67.243	
3,900.00	3,284.62	3,527.21	3,484.32	39.72	14.16	-141.53	1,166.73	-824.54	2,597.61	2,558.83	38.78	66.981	
4,000.00	3,357.58	3,600.81	3,556.58	41.22	14.51	-142.02	1,178.15	-816.43	2,649.66	2,609.91	39.75	66.650	
4,100.00	3,430.53	3,688.14	3,642.32	42.73	14.92	-142.59	1,191.57	-806.76	2,701.84	2,661.02	40.82	66.188	
4,200.00	3,503.49	3,797.23	3,749.23	44.23	15.44	-143.24	1,209.38	-794.34	2,754.17	2,712.12	42.06	65.489	
4,300.00	3,576.45	3,880.40	3,830.64	45.74	15.84	-143.71	1,222.66	-783.68	2,805.33	2,762.24	43.09	65.103	
4,400.00	3,649.40	3,922.32	3,871.77	47.25	16.03	-143.95	1,229.19	-778.90	2,857.75	2,813.95	43.80	65.242	
4,500.00	3,722.36	3,964.00	3,912.75	48.75	16.23	-144.19	1,235.58	-774.76	2,911.49	2,867.00	44.49	65.439	
4,600.00	3,795.32	4,071.73	4,018.79	50.26	16.73	-144.81	1,251.42	-764.33	2,965.49	2,919.83	45.66	64.943	
4,700.00	3,868.27	4,149.46	4,095.21	51.77	17.08	-145.23	1,263.27	-756.53	3,019.41	2,972.80	46.61	64.780	
4,800.00	3,941.23	4,234.18	4,178.35	53.28	17.48	-145.64	1,277.14	-747.91	3,073.47	3,025.84	47.63	64.534	
4,900.00	4,014.19	4,288.74	4,231.89	54.79	17.74	-145.91	1,286.13	-742.58	3,127.97	3,079.58	48.39	64.636	
5,000.00	4,087.15	5,000.00	4,328.67	56.30	21.04	-146.38	1,301.58	-733.18	3,182.69	3,130.45	52.25	60.917	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,160.10	4,571.18	4,508.48	57.81	19.10	-147.14	1,333.54	-711.00	3,235.09	3,183.75	51.33	63.023	
5,200.00	4,233.06	4,618.41	4,554.56	59.32	19.34	-147.33	1,341.88	-704.93	3,287.53	3,235.47	52.06	63.151	
5,300.00	4,306.02	4,654.26	4,589.62	60.83	19.51	-147.46	1,348.18	-700.87	3,341.22	3,288.55	52.67	63.431	
5,400.00	4,378.97	4,729.59	4,663.42	62.34	19.88	-147.76	1,361.28	-693.28	3,395.97	3,342.37	53.61	63.350	
5,500.00	4,451.93	4,899.64	4,830.02	63.85	20.70	-148.42	1,388.82	-673.33	3,449.23	3,393.95	55.29	62.386	
5,600.00	4,524.89	4,969.49	4,898.35	65.36	21.04	-148.68	1,400.20	-664.35	3,501.82	3,445.65	56.16	62.351	
5,700.00	4,597.84	5,016.13	4,944.03	66.88	21.26	-148.84	1,407.79	-658.79	3,555.21	3,498.37	56.84	62.544	
5,800.00	4,670.80	5,061.61	4,988.66	68.39	21.48	-149.01	1,415.01	-653.84	3,609.53	3,552.04	57.50	62.778	
5,900.00	4,743.76	5,106.00	5,032.35	69.90	21.68	-149.18	1,421.56	-649.50	3,664.77	3,606.65	58.12	63.055	
6,000.00	4,816.71	5,247.32	5,171.70	71.41	22.32	-149.74	1,440.37	-635.45	3,719.90	3,660.41	59.48	62.536	
6,100.00	4,889.67	5,359.40	5,282.20	72.93	22.83	-150.18	1,454.49	-623.17	3,774.27	3,713.67	60.60	62.279	
6,200.00	4,962.63	5,498.39	5,418.62	74.44	23.48	-150.66	1,474.33	-605.49	3,827.08	3,765.11	61.97	61.761	
6,300.00	5,035.59	5,535.99	5,455.51	75.95	23.66	-150.78	1,479.86	-600.78	3,880.35	3,817.80	62.54	62.045	
6,400.00	5,108.54	5,582.18	5,500.95	77.47	23.88	-150.94	1,486.33	-595.57	3,934.63	3,871.46	63.17	62.288	
6,500.00	5,181.50	5,680.06	5,597.22	78.98	24.33	-151.26	1,500.27	-584.65	3,989.15	3,924.95	64.20	62.132	
6,600.00	5,254.46	5,780.62	5,696.11	80.49	24.80	-151.58	1,514.23	-572.93	4,043.30	3,978.04	65.25	61.963	
6,700.00	5,327.41	5,884.08	5,797.85	82.01	25.28	-151.90	1,528.37	-560.56	4,097.27	4,030.95	66.32	61.779	
6,800.00	5,400.37	5,923.00	5,836.05	83.52	25.46	-152.02	1,533.99	-555.69	4,151.16	4,084.28	66.88	62.066	
6,900.00	5,473.33	5,974.92	5,887.11	85.04	25.70	-152.17	1,541.22	-549.66	4,205.74	4,138.21	67.53	62.277	
7,000.00	5,546.28	6,012.00	5,923.72	86.55	25.87	-152.29	1,545.88	-546.05	4,261.57	4,193.52	68.05	62.627	
7,100.00	5,619.24	6,089.74	6,000.52	88.06	26.21	-152.54	1,555.58	-538.90	4,318.01	4,249.13	68.88	62.692	
7,200.00	5,692.20	6,187.20	6,096.66	89.58	26.64	-152.82	1,568.51	-529.55	4,374.19	4,304.31	69.88	62.596	
7,300.00	5,765.15	6,285.78	6,193.87	91.09	27.08	-153.10	1,581.61	-519.74	4,430.13	4,359.24	70.89	62.491	
7,400.00	5,838.11	6,423.64	6,329.76	92.61	27.71	-153.48	1,599.53	-504.98	4,485.55	4,413.33	72.21	62.115	
7,500.00	5,911.07	6,566.04	6,469.82	94.12	28.36	-153.86	1,618.44	-487.47	4,539.52	4,465.94	73.57	61.701	
7,600.00	5,984.03	6,611.71	6,514.76	95.64	28.57	-153.98	1,624.24	-481.85	4,593.65	4,519.50	74.16	61.945	
7,700.00	6,056.98	6,665.81	6,568.12	97.15	28.82	-154.13	1,630.64	-475.62	4,648.47	4,573.68	74.79	62.152	
7,800.00	6,129.94	7,261.00	7,145.58	98.67	30.81	-156.92	1,600.64	-375.81	4,696.25	4,619.04	77.21	60.825	
7,900.00	6,202.90	7,261.00	7,145.58	100.18	30.81	-156.92	1,600.64	-375.81	4,743.52	4,665.98	77.53	61.181	
8,000.00	6,275.85	7,261.00	7,145.58	101.70	30.81	-156.92	1,600.64	-375.81	4,792.40	4,714.58	77.83	61.577	
8,100.00	6,348.81	7,261.00	7,145.58	103.21	30.81	-156.92	1,600.64	-375.81	4,842.86	4,764.77	78.10	62.012	
8,200.00	6,421.77	7,261.00	7,145.58	104.73	30.81	-156.92	1,600.64	-375.81	4,894.85	4,816.51	78.34	62.484	
8,300.00	6,494.72	7,261.00	7,145.58	106.24	30.81	-156.92	1,600.64	-375.81	4,948.31	4,869.75	78.56	62.991	
8,400.00	6,567.68	7,297.42	7,178.87	107.76	30.83	-157.23	1,586.80	-370.64	5,002.47	4,923.80	78.67	63.591	
8,500.00	6,640.64	7,309.00	7,189.36	109.27	30.84	-157.33	1,582.11	-369.25	5,058.19	4,979.37	78.82	64.176	
8,600.00	6,713.59	7,350.00	7,226.12	110.79	30.86	-157.70	1,564.40	-365.31	5,115.61	5,036.75	78.87	64.863	
8,700.00	6,786.55	7,350.00	7,226.12	112.30	30.86	-157.70	1,564.40	-365.31	5,173.43	5,094.41	79.02	65.473	
8,800.00	6,859.51	7,350.00	7,226.12	113.82	30.86	-157.70	1,564.40	-365.31	5,232.51	5,153.37	79.15	66.112	
8,900.00	6,932.46	7,350.00	7,226.12	115.33	30.86	-157.70	1,564.40	-365.31	5,292.83	5,213.57	79.26	66.779	
9,000.00	7,005.42	7,385.34	7,257.18	116.85	30.85	-158.03	1,547.76	-362.65	5,354.12	5,274.87	79.25	67.560	
9,104.89	7,081.95	7,416.03	7,283.58	118.44	30.85	-158.33	1,532.26	-360.48	5,419.31	5,340.07	79.24	68.391	
9,150.00	7,115.15	7,439.00	7,302.97	119.12	30.85	-166.97	1,520.04	-358.92	5,447.76	5,368.57	79.19	68.792	
9,200.00	7,152.46	7,439.00	7,302.97	119.86	30.85	-176.64	1,520.04	-358.92	5,479.57	5,400.35	79.23	69.164	
9,250.00	7,190.04	7,459.76	7,320.19	120.57	30.83	173.39	1,508.54	-357.58	5,511.47	5,432.30	79.17	69.619	
9,300.00	7,227.59	7,476.03	7,333.47	121.25	30.82	163.55	1,499.20	-356.56	5,543.18	5,464.07	79.11	70.066	
9,350.00	7,264.83	7,492.93	7,347.07	121.89	30.81	154.04	1,489.20	-355.55	5,574.45	5,495.41	79.05	70.521	
9,400.00	7,301.48	7,528.00	7,374.56	122.48	30.79	144.97	1,467.52	-353.58	5,605.10	5,526.22	78.88	71.059	
9,450.00	7,337.26	7,528.00	7,374.56	123.01	30.79	136.69	1,467.52	-353.58	5,634.71	5,555.84	78.88	71.438	
9,500.00	7,371.90	7,528.00	7,374.56	123.49	30.79	129.09	1,467.52	-353.58	5,663.31	5,584.44	78.87	71.808	
9,550.00	7,405.13	7,528.00	7,374.56	123.91	30.79	122.23	1,467.52	-353.58	5,690.70	5,611.84	78.86	72.162	
9,600.00	7,436.70	7,568.90	7,405.40	124.27	30.74	116.14	1,440.75	-351.63	5,716.23	5,637.59	78.64	72.687	
9,650.00	7,466.36	7,582.95	7,415.69	124.57	30.72	110.80	1,431.19	-351.08	5,740.27	5,661.70	78.57	73.061	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,700.00	7,493.91	7,617.00	7,439.95	124.81	30.69	106.19	1,407.32	-350.00	5,762.56	5,684.17	78.39	73.513	
9,750.00	7,519.11	7,617.00	7,439.95	125.00	30.69	102.18	1,407.32	-350.00	5,782.65	5,704.22	78.42	73.737	
9,800.00	7,541.79	7,617.00	7,439.95	125.12	30.69	98.75	1,407.32	-350.00	5,800.70	5,722.22	78.48	73.915	
9,850.00	7,561.77	7,617.00	7,439.95	125.20	30.69	95.87	1,407.32	-350.00	5,816.61	5,738.06	78.56	74.042	
9,900.00	7,578.90	7,617.00	7,439.95	125.23	30.69	93.50	1,407.32	-350.00	5,830.28	5,751.61	78.67	74.112	
9,950.00	7,593.04	7,617.00	7,439.95	125.22	30.69	91.61	1,407.32	-350.00	5,841.60	5,762.79	78.81	74.122	
10,000.00	7,604.09	7,658.28	7,467.95	125.17	30.62	90.38	1,377.01	-349.45	5,849.81	5,771.08	78.73	74.303	
10,050.00	7,611.97	7,666.87	7,473.58	125.08	30.60	89.44	1,370.51	-349.46	5,855.94	5,777.05	78.89	74.231	
10,100.00	7,616.61	7,707.00	7,498.87	124.97	30.54	89.09	1,339.37	-350.17	5,859.94	5,781.07	78.86	74.304	
10,145.95	7,618.00	7,707.00	7,498.87	124.84	30.54	88.93	1,339.37	-350.17	5,860.79	5,781.65	79.13	74.063	
10,172.62	7,618.00	7,707.00	7,498.87	124.77	30.54	88.93	1,339.37	-350.17	5,860.73	5,781.43	79.30	73.904	
10,200.00	7,618.00	7,707.00	7,498.87	124.69	30.54	88.93	1,339.37	-350.17	5,860.79	5,781.32	79.47	73.746	
10,300.00	7,618.00	7,707.00	7,498.87	124.41	30.54	88.93	1,339.37	-350.17	5,862.11	5,781.98	80.13	73.158	
10,400.00	7,618.00	7,707.00	7,498.87	124.14	30.54	88.93	1,339.37	-350.17	5,865.14	5,784.32	80.81	72.575	
10,500.00	7,618.00	7,754.26	7,526.44	123.88	30.44	89.20	1,301.05	-352.11	5,869.20	5,788.05	81.16	72.321	
10,600.00	7,618.00	8,259.05	7,672.88	123.63	29.46	90.63	824.45	-360.65	5,869.46	5,791.61	77.84	75.399	
10,700.00	7,618.00	10,700.00	7,680.29	123.40	96.52	90.71	577.10	-355.32	5,867.44	5,772.92	94.52	62.078	
10,800.00	7,618.00	8,555.18	7,681.02	123.18	30.43	90.71	528.58	-353.48	5,863.61	5,785.63	77.98	75.190	
10,900.00	7,618.00	8,597.00	7,681.48	122.96	30.71	90.72	486.78	-352.67	5,861.13	5,782.55	78.58	74.586	
11,000.00	7,618.00	8,654.13	7,681.95	122.76	31.12	90.72	429.65	-352.05	5,859.57	5,780.34	79.23	73.960	
11,100.00	7,618.00	8,686.00	7,682.16	122.57	31.36	90.73	397.78	-351.71	5,858.56	5,778.65	79.91	73.310	
11,155.87	7,618.00	8,717.69	7,682.34	122.47	31.61	90.73	366.10	-351.62	5,858.36	5,778.03	80.33	72.927	
11,200.00	7,618.00	8,728.96	7,682.40	122.39	31.70	90.73	354.83	-351.71	5,858.56	5,777.91	80.65	72.642	
11,300.00	7,618.00	8,775.00	7,682.58	122.23	32.06	90.73	308.80	-352.72	5,860.06	5,778.65	81.41	71.983	
11,400.00	7,618.00	8,787.96	7,682.63	122.07	32.17	90.73	295.84	-353.17	5,862.55	5,780.36	82.19	71.331	
11,500.00	7,618.00	8,853.88	7,683.25	121.93	32.72	90.74	229.98	-355.64	5,865.97	5,782.93	83.04	70.636	
11,600.00	7,618.00	8,933.59	7,684.72	121.79	33.42	90.75	150.35	-359.00	5,869.88	5,785.87	84.01	69.873	
11,700.00	7,618.00	9,179.46	7,690.47	121.67	35.82	90.80	-95.27	-368.00	5,874.01	5,788.15	85.86	68.413	
11,800.00	7,618.00	9,353.20	7,690.70	121.56	37.72	90.81	-268.99	-370.13	5,874.86	5,787.04	87.82	66.896	
11,900.00	7,618.00	9,483.26	7,688.99	121.46	39.23	90.79	-399.03	-370.75	5,874.99	5,785.31	89.68	65.510	
12,000.00	7,618.00	9,599.19	7,686.78	121.38	40.65	90.77	-514.94	-370.71	5,874.59	5,783.02	91.57	64.154	
12,100.00	7,618.00	9,697.54	7,684.51	121.30	41.89	90.75	-613.26	-370.74	5,874.25	5,780.87	93.38	62.904	
12,200.00	7,618.00	9,869.84	7,684.12	121.24	44.13	90.74	-785.55	-369.50	5,873.18	5,776.96	96.22	61.040	
12,300.00	7,618.00	10,039.36	7,683.27	121.19	46.44	90.73	-955.05	-366.45	5,871.12	5,771.86	99.26	59.147	
12,400.00	7,618.00	10,140.58	7,681.51	121.16	47.86	90.72	-1,056.20	-363.56	5,867.90	5,766.42	101.48	57.823	
12,500.00	7,618.00	10,200.00	7,680.91	121.14	48.70	90.71	-1,115.61	-362.49	5,865.60	5,762.48	103.12	56.881	
12,600.00	7,618.00	10,281.07	7,680.40	121.13	49.86	90.71	-1,196.67	-361.44	5,863.89	5,758.76	105.13	55.777	
12,700.00	7,618.00	10,325.01	7,680.23	121.13	50.49	90.71	-1,240.61	-360.94	5,862.47	5,755.89	106.58	55.005	
12,800.00	7,618.00	10,379.00	7,680.85	121.15	51.27	90.71	-1,294.59	-361.04	5,862.16	5,753.94	108.21	54.173	
12,806.61	7,618.00	10,379.00	7,680.85	121.15	51.27	90.71	-1,294.59	-361.04	5,862.15	5,753.89	108.26	54.148	
12,900.00	7,618.00	10,463.81	7,682.38	121.18	52.51	90.73	-1,379.38	-361.62	5,862.47	5,752.09	110.38	53.111	
13,000.00	7,618.00	10,556.21	7,683.74	121.23	53.87	90.74	-1,471.77	-362.10	5,862.67	5,749.95	112.72	52.010	
13,100.00	7,618.00	10,698.64	7,684.67	121.29	55.99	90.75	-1,614.20	-362.33	5,862.48	5,746.47	116.01	50.535	
13,195.27	7,618.00	10,767.69	7,684.27	121.36	57.04	90.75	-1,683.25	-362.31	5,862.16	5,744.18	117.98	49.688	
13,200.00	7,618.00	10,770.14	7,684.28	121.37	57.07	90.75	-1,685.70	-362.32	5,862.16	5,744.10	118.06	49.655	
13,300.00	7,618.00	10,824.00	7,684.80	121.46	57.89	90.75	-1,739.55	-362.74	5,862.61	5,742.81	119.80	48.935	
13,400.00	7,618.00	11,091.00	7,687.26	121.57	62.01	90.78	-2,006.51	-360.32	5,860.32	5,734.57	125.75	46.602	
13,500.00	7,618.00	11,134.04	7,687.46	121.70	62.68	90.78	-2,049.54	-359.54	5,858.52	5,731.17	127.35	46.005	
13,600.00	7,618.00	11,181.00	7,687.98	121.84	63.42	90.78	-2,096.50	-359.76	5,858.27	5,729.25	129.03	45.404	
13,608.50	7,618.00	11,181.00	7,687.98	121.86	63.42	90.78	-2,096.50	-359.76	5,858.27	5,729.18	129.09	45.382	
13,700.00	7,618.00	11,190.04	7,688.11	122.01	63.56	90.78	-2,105.53	-359.91	5,858.97	5,729.05	129.93	45.094	
13,800.00	7,618.00	11,270.00	7,688.83	122.19	64.81	90.79	-2,185.48	-361.46	5,860.57	5,728.29	132.29	44.302	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
13,900.00	7,618.00	11,566.19	7,698.35	122.39	69.51	90.88	-2,481.47	-362.79	5,860.89	5,721.52	139.38	42.051	
14,000.00	7,618.00	11,709.34	7,699.20	122.62	71.82	90.89	-2,624.59	-360.35	5,858.84	5,715.59	143.25	40.899	
14,100.00	7,618.00	11,749.02	7,698.83	122.86	72.46	90.89	-2,664.27	-359.74	5,856.99	5,712.15	144.84	40.438	
14,200.00	7,618.00	11,804.00	7,698.13	123.12	73.35	90.88	-2,719.24	-359.69	5,856.33	5,709.56	146.77	39.902	
14,231.25	7,618.00	11,804.00	7,698.13	123.21	73.35	90.88	-2,719.24	-359.69	5,856.24	5,709.26	146.98	39.843	
14,300.00	7,618.00	11,824.51	7,697.84	123.41	73.68	90.88	-2,739.75	-359.89	5,856.57	5,708.65	147.91	39.595	
14,400.00	7,618.00	11,869.49	7,697.30	123.72	74.40	90.87	-2,784.73	-360.63	5,857.86	5,708.25	149.61	39.155	
14,500.00	7,618.00	11,937.36	7,696.49	124.06	75.50	90.87	-2,852.56	-362.35	5,860.00	5,708.17	151.82	38.597	
14,600.00	7,618.00	12,009.44	7,694.95	124.42	76.66	90.85	-2,924.60	-364.37	5,862.46	5,708.32	154.14	38.033	
14,700.00	7,618.00	12,072.00	7,694.03	124.80	77.67	90.84	-2,987.11	-366.64	5,865.68	5,709.43	156.24	37.542	
14,800.00	7,618.00	12,294.15	7,696.15	125.21	81.28	90.86	-3,209.15	-372.83	5,868.23	5,706.05	162.18	36.184	
14,900.00	7,618.00	12,365.39	7,695.76	125.65	82.45	90.86	-3,280.38	-374.09	5,869.70	5,705.17	164.54	35.674	
15,000.00	7,618.00	12,428.00	7,695.80	126.11	83.47	90.86	-3,342.96	-375.82	5,872.03	5,705.34	166.69	35.228	
15,100.00	7,618.00	12,725.04	7,698.07	126.61	88.39	90.88	-3,639.91	-379.63	5,873.31	5,698.66	174.65	33.629	
15,200.00	7,618.00	12,820.81	7,699.10	127.13	89.99	90.89	-3,735.68	-378.85	5,872.19	5,694.50	177.69	33.047	
15,299.90	7,618.00	12,873.00	7,700.71	127.68	90.86	90.90	-3,787.84	-378.80	5,871.79	5,692.14	179.65	32.684	
15,300.00	7,618.00	12,873.00	7,700.71	127.68	90.86	90.90	-3,787.84	-378.80	5,871.79	5,692.14	179.65	32.684	
15,400.00	7,618.00	12,955.00	7,704.28	128.26	92.23	90.94	-3,869.77	-379.16	5,871.96	5,689.59	182.38	32.197	
15,500.00	7,618.00	13,181.01	7,712.98	128.87	96.04	91.02	-4,095.59	-378.01	5,871.16	5,682.35	188.81	31.096	
15,600.00	7,618.00	13,291.22	7,715.70	129.51	97.90	91.05	-4,205.75	-376.22	5,869.25	5,676.96	192.29	30.522	
15,700.00	7,618.00	13,386.72	7,717.22	130.18	99.52	91.07	-4,301.23	-374.61	5,867.26	5,671.85	195.41	30.026	
15,800.00	7,618.00	13,559.23	7,719.87	130.88	102.45	91.09	-4,473.67	-370.76	5,864.72	5,664.19	200.53	29.246	
15,900.00	7,618.00	13,646.77	7,720.88	131.61	103.94	91.10	-4,561.17	-368.34	5,861.65	5,658.18	203.47	28.809	
16,000.00	7,618.00	13,717.86	7,721.62	132.37	105.16	91.11	-4,632.24	-366.58	5,858.87	5,652.90	205.98	28.444	
16,100.00	7,618.00	13,786.00	7,722.39	133.17	106.32	91.12	-4,700.36	-365.48	5,856.86	5,648.45	208.41	28.103	
16,200.00	7,618.00	13,820.54	7,722.81	133.99	106.90	91.12	-4,734.90	-365.21	5,855.59	5,645.65	209.94	27.892	
16,300.00	7,618.00	13,875.00	7,723.49	134.84	107.83	91.13	-4,789.36	-365.19	5,855.22	5,643.23	211.99	27.620	
16,301.37	7,618.00	13,875.00	7,723.49	134.85	107.83	91.13	-4,789.36	-365.19	5,855.22	5,643.22	212.00	27.619	
16,400.00	7,618.00	13,925.13	7,724.14	135.72	108.68	91.14	-4,839.48	-365.59	5,855.66	5,641.75	213.92	27.373	
16,500.00	7,618.00	14,276.66	7,719.73	136.63	114.69	91.09	-5,190.84	-360.98	5,853.10	5,629.17	223.92	26.139	
16,600.00	7,618.00	14,320.00	7,718.27	137.57	115.43	91.08	-5,234.14	-359.81	5,850.07	5,624.35	225.72	25.918	
16,700.00	7,618.00	14,385.83	7,716.09	138.54	116.56	91.06	-5,299.92	-358.55	5,847.79	5,619.69	228.10	25.637	
16,800.00	7,618.00	14,440.81	7,714.29	139.53	117.51	91.04	-5,354.87	-357.92	5,846.25	5,616.07	230.18	25.399	
16,900.00	7,618.00	14,499.00	7,712.40	140.55	118.50	91.02	-5,413.03	-357.74	5,845.52	5,613.18	232.34	25.159	
16,946.66	7,618.00	14,517.09	7,711.80	141.04	118.81	91.02	-5,431.11	-357.80	5,845.45	5,612.35	233.10	25.077	
17,000.00	7,618.00	14,543.65	7,710.93	141.60	119.26	91.01	-5,457.65	-357.98	5,845.60	5,611.48	234.12	24.969	
17,100.00	7,618.00	14,588.00	7,709.46	142.67	120.02	90.99	-5,501.98	-358.55	5,846.55	5,610.68	235.87	24.787	
17,200.00	7,618.00	14,653.11	7,707.36	143.77	121.13	90.97	-5,567.04	-359.90	5,848.26	5,610.07	238.19	24.553	
17,300.00	7,618.00	14,707.99	7,705.71	144.88	122.06	90.96	-5,621.87	-361.45	5,850.70	5,610.49	240.22	24.356	
17,400.00	7,618.00	14,766.00	7,704.16	146.02	123.05	90.94	-5,679.82	-363.58	5,853.96	5,611.64	242.32	24.158	
17,500.00	7,618.00	14,807.99	7,703.15	147.19	123.76	90.93	-5,721.75	-365.47	5,858.05	5,614.10	243.95	24.013	
17,600.00	7,618.00	14,855.00	7,702.08	148.37	124.55	90.92	-5,768.69	-368.00	5,863.04	5,617.33	245.71	23.862	
17,700.00	7,618.00	14,916.77	7,700.96	149.57	125.59	90.91	-5,830.32	-371.78	5,868.81	5,620.92	247.89	23.675	
17,800.00	7,618.00	14,980.61	7,700.30	150.79	126.66	90.90	-5,894.02	-376.10	5,875.22	5,625.10	250.12	23.490	
17,900.00	7,618.00	15,046.24	7,700.20	152.03	127.77	90.90	-5,959.47	-380.92	5,882.21	5,629.82	252.40	23.306	
18,000.00	7,618.00	15,111.78	7,700.72	153.29	128.87	90.90	-6,024.81	-386.09	5,889.79	5,635.12	254.67	23.127	
18,100.00	7,618.00	15,997.18	7,733.12	154.57	144.07	91.22	-6,908.43	-400.73	5,892.54	5,612.00	280.54	21.004	
18,200.00	7,618.00	16,062.57	7,734.40	155.86	145.21	91.23	-6,973.73	-397.54	5,887.37	5,604.35	283.02	20.802	
18,300.00	7,618.00	16,124.87	7,735.41	157.17	146.30	91.24	-7,035.97	-394.90	5,882.83	5,597.42	285.41	20.612	
18,400.00	7,618.00	16,191.00	7,736.45	158.49	147.46	91.25	-7,102.05	-392.53	5,878.94	5,591.04	287.89	20.420	
18,500.00	7,618.00	16,245.88	7,737.32	159.82	148.41	91.26	-7,156.89	-390.94	5,875.71	5,585.65	290.06	20.257	
18,600.00	7,618.00	16,305.84	7,738.26	161.17	149.46	91.27	-7,216.83	-389.61	5,873.18	5,580.83	292.35	20.090	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
18,700.00	7,618.00	16,370.00	7,739.30	162.54	150.58	91.28	-7,280.98	-388.60	5,871.30	5,576.55	294.75	19.920	
18,800.00	7,618.00	16,426.96	7,740.26	163.91	151.57	91.29	-7,337.92	-388.09	5,870.10	5,573.17	296.93	19.769	
18,900.00	7,618.00	16,523.58	7,741.96	165.30	153.24	91.31	-7,434.53	-387.76	5,869.45	5,569.21	300.25	19.549	
19,000.00	7,618.00	16,674.88	7,744.61	166.70	155.88	91.33	-7,585.80	-386.31	5,868.18	5,563.05	305.13	19.232	
19,100.00	7,618.00	16,800.16	7,746.49	168.10	158.06	91.35	-7,711.05	-384.32	5,866.29	5,557.02	309.27	18.968	
19,200.00	7,618.00	16,903.05	7,747.94	169.52	159.85	91.37	-7,813.91	-382.42	5,864.15	5,551.37	312.78	18.749	
19,300.00	7,618.00	17,005.45	7,749.35	170.95	161.64	91.38	-7,916.29	-380.53	5,862.00	5,545.72	316.27	18.535	
19,400.00	7,618.00	17,131.16	7,751.19	172.39	163.84	91.40	-8,041.95	-377.88	5,859.59	5,539.15	320.43	18.286	
19,500.00	7,618.00	17,247.90	7,752.65	173.84	165.88	91.42	-8,158.65	-374.98	5,856.79	5,532.45	324.34	18.057	
19,600.00	7,618.00	17,320.11	7,752.83	175.30	167.14	91.42	-8,230.84	-373.25	5,854.08	5,527.08	326.99	17.903	
19,700.00	7,618.00	17,383.50	7,752.66	176.76	168.25	91.42	-8,294.21	-372.10	5,851.93	5,522.56	329.38	17.767	
19,800.00	7,618.00	17,470.13	7,752.11	178.24	169.76	91.41	-8,380.84	-371.01	5,850.31	5,517.88	332.42	17.599	
19,896.19	7,618.00	17,487.00	7,752.00	179.66	170.05	91.41	-8,397.71	-370.80	5,849.32	5,515.90	333.42	17.544	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
0.00	0.00	0.00	0.00	0.00	0.00	-54.20	786.89	-1,090.86	1,345.09				
100.00	100.00	93.40	93.40	0.13	0.14	-54.19	786.88	-1,090.71	1,344.94	1,344.66	0.27	4,900.474	
200.00	200.00	193.53	193.53	0.49	0.40	-54.18	786.84	-1,090.35	1,344.62	1,343.73	0.89	1,511.409	
212.26	212.26	205.44	205.44	0.54	0.44	-123.50	786.82	-1,090.33	1,344.60	1,343.63	0.97	1,379.420	CC, ES
300.00	299.98	290.65	290.65	0.85	0.74	-123.55	786.63	-1,090.32	1,345.43	1,343.84	1.58	849.746	
400.00	399.84	384.62	384.61	1.21	1.06	-123.69	786.41	-1,090.63	1,348.46	1,346.19	2.27	594.125	
500.00	499.45	477.14	477.14	1.58	1.39	-123.89	786.64	-1,091.20	1,353.97	1,351.01	2.96	457.320	
600.00	598.70	569.28	569.27	1.97	1.71	-124.15	787.32	-1,092.04	1,362.00	1,358.34	3.66	371.833	
700.00	697.47	669.74	669.70	2.38	2.06	-124.45	789.57	-1,092.23	1,372.32	1,367.91	4.41	311.205	
800.00	795.62	796.84	796.42	2.83	2.51	-124.71	797.59	-1,087.36	1,383.70	1,378.43	5.28	262.276	
900.00	893.06	938.60	937.01	3.31	3.03	-124.89	810.34	-1,074.52	1,394.20	1,387.96	6.24	223.391	
1,000.00	989.64	1,035.61	1,033.05	3.83	3.41	-125.01	819.24	-1,064.07	1,405.46	1,398.37	7.09	198.262	
1,100.00	1,085.27	1,129.25	1,125.63	4.40	3.78	-125.16	828.66	-1,053.74	1,419.02	1,411.05	7.96	178.180	
1,200.00	1,179.82	1,231.32	1,226.56	5.02	4.19	-125.41	839.14	-1,042.65	1,434.91	1,426.00	8.91	160.996	
1,300.00	1,273.17	1,380.40	1,373.25	5.70	4.83	-125.90	855.89	-1,022.23	1,451.20	1,441.09	10.11	143.558	
1,400.00	1,365.21	1,463.03	1,454.10	6.43	5.20	-126.04	866.49	-1,008.84	1,468.20	1,457.11	11.09	132.387	
1,500.00	1,455.84	1,538.63	1,527.97	7.23	5.55	-126.14	877.21	-996.87	1,488.35	1,476.27	12.08	123.204	
1,600.00	1,544.94	1,607.79	1,595.52	8.09	5.87	-126.19	887.96	-986.63	1,512.19	1,499.12	13.08	115.642	
1,700.00	1,632.39	1,699.35	1,684.99	9.01	6.30	-126.41	902.84	-974.09	1,539.47	1,525.25	14.22	108.278	
1,800.00	1,718.11	1,820.28	1,803.42	10.00	6.87	-126.99	920.56	-957.24	1,568.09	1,552.56	15.54	100.933	
1,900.00	1,801.97	1,932.37	1,913.41	11.07	7.38	-127.63	934.17	-940.46	1,596.99	1,580.17	16.83	94.915	
2,000.00	1,883.88	2,000.69	1,980.61	12.20	7.70	-127.87	941.92	-930.94	1,628.98	1,611.06	17.92	90.911	
2,100.00	1,963.74	2,068.48	2,047.36	13.41	8.00	-128.08	949.98	-922.30	1,664.68	1,645.66	19.02	87.512	
2,200.00	2,041.45	2,140.34	2,118.13	14.69	8.33	-128.33	959.09	-913.73	1,703.90	1,683.74	20.16	84.509	
2,300.00	2,116.92	2,211.86	2,188.55	16.05	8.65	-128.55	968.59	-905.62	1,746.37	1,725.06	21.31	81.936	
2,357.48	2,159.25	2,252.25	2,228.31	16.86	8.83	-128.65	974.16	-901.20	1,772.23	1,750.25	21.98	80.641	
2,400.00	2,190.27	2,304.74	2,279.93	17.47	9.07	-129.36	981.53	-895.27	1,791.67	1,769.07	22.60	79.284	
2,500.00	2,263.22	2,449.39	2,421.87	18.92	9.75	-131.22	1,001.08	-875.44	1,835.64	1,811.47	24.17	75.949	
2,600.00	2,336.18	2,509.35	2,480.74	20.37	10.03	-131.96	1,008.63	-866.89	1,879.60	1,854.36	25.24	74.457	
2,700.00	2,409.14	2,568.34	2,538.74	21.84	10.30	-132.67	1,016.13	-859.26	1,925.17	1,898.89	26.29	73.240	
2,800.00	2,482.09	2,664.97	2,633.85	23.31	10.75	-133.81	1,028.47	-847.44	1,971.89	1,944.37	27.52	71.644	
2,900.00	2,555.05	2,823.04	2,788.69	24.78	11.50	-135.48	1,049.44	-823.66	2,016.99	1,987.87	29.12	69.264	
3,000.00	2,628.01	2,922.23	2,885.90	26.27	11.97	-136.53	1,059.78	-806.86	2,060.13	2,029.79	30.33	67.913	
3,100.00	2,700.96	3,024.05	2,985.51	27.75	12.47	-137.54	1,071.34	-789.19	2,103.68	2,072.12	31.56	66.660	
3,200.00	2,773.92	3,079.47	3,039.61	29.24	12.74	-138.05	1,078.09	-779.27	2,147.44	2,114.93	32.51	66.054	
3,300.00	2,846.88	3,132.00	3,091.23	30.73	12.99	-138.55	1,083.69	-771.33	2,193.26	2,159.85	33.41	65.651	
3,400.00	2,919.83	3,179.07	3,137.60	32.23	13.20	-139.00	1,088.69	-764.98	2,240.73	2,206.49	34.24	65.441	
3,500.00	2,992.79	3,255.96	3,213.18	33.72	13.56	-139.68	1,098.37	-754.74	2,289.26	2,254.01	35.25	64.942	
3,600.00	3,065.75	3,368.63	3,323.55	35.22	14.10	-140.57	1,114.35	-738.66	2,337.62	2,301.11	36.51	64.026	
3,700.00	3,138.71	3,450.45	3,403.59	36.72	14.50	-141.19	1,125.90	-726.25	2,385.47	2,347.91	37.56	63.511	
3,800.00	3,211.66	3,523.34	3,474.94	38.22	14.86	-141.72	1,136.41	-715.59	2,434.05	2,395.51	38.54	63.158	
3,900.00	3,284.62	3,596.14	3,546.25	39.72	15.21	-142.24	1,146.66	-705.21	2,483.10	2,443.60	39.50	62.863	
4,000.00	3,357.58	3,654.80	3,603.83	41.22	15.49	-142.65	1,154.66	-697.38	2,533.05	2,492.71	40.34	62.787	
4,100.00	3,430.53	3,786.55	3,733.08	42.73	16.12	-143.55	1,172.34	-678.88	2,582.48	2,540.80	41.68	61.957	
4,200.00	3,503.49	3,845.00	3,790.32	44.23	16.40	-143.92	1,180.59	-670.46	2,632.04	2,589.52	42.52	61.908	
4,300.00	3,576.45	3,910.97	3,855.03	45.74	16.71	-144.34	1,189.75	-661.52	2,682.46	2,639.08	43.38	61.834	
4,400.00	3,649.40	3,973.62	3,916.68	47.25	17.01	-144.74	1,197.70	-653.65	2,733.71	2,689.51	44.20	61.845	
4,500.00	3,722.36	4,043.62	3,985.69	48.75	17.32	-145.19	1,206.01	-645.35	2,785.64	2,740.59	45.05	61.836	
4,600.00	3,795.32	4,195.36	4,134.95	50.26	18.03	-146.11	1,224.73	-625.54	2,836.71	2,790.23	46.48	61.036	
4,700.00	3,868.27	4,341.77	4,278.04	51.77	18.75	-146.87	1,245.64	-602.73	2,886.05	2,838.14	47.91	60.240	
4,800.00	3,941.23	4,393.05	4,328.16	53.28	19.01	-147.12	1,252.83	-594.56	2,935.25	2,886.60	48.66	60.327	
4,900.00	4,014.19	4,475.83	4,409.19	54.79	19.42	-147.54	1,264.25	-582.06	2,985.27	2,935.65	49.61	60.169	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
5,000.00	4,087.15	4,577.58	4,508.70	56.30	19.92	-148.02	1,278.36	-566.21	3,035.02	2,984.31	50.71	59.853	
5,100.00	4,160.10	4,632.09	4,562.01	57.81	20.19	-148.27	1,285.97	-557.75	3,084.98	3,033.53	51.45	59.959	
5,200.00	4,233.06	4,679.51	4,608.51	59.32	20.42	-148.50	1,292.35	-551.00	3,136.05	3,083.92	52.13	60.162	
5,300.00	4,306.02	4,779.56	4,706.74	60.83	20.89	-148.96	1,305.36	-537.15	3,187.54	3,134.37	53.17	59.945	
5,400.00	4,378.97	4,895.13	4,819.86	62.34	21.46	-149.45	1,321.56	-519.94	3,238.27	3,183.91	54.36	59.572	
5,500.00	4,451.93	4,994.32	4,916.73	63.85	21.96	-149.83	1,336.52	-504.70	3,288.82	3,233.38	55.44	59.323	
5,600.00	4,524.89	5,058.21	4,979.03	65.36	22.28	-150.07	1,346.39	-494.59	3,339.14	3,282.89	56.25	59.366	
5,700.00	4,597.84	5,091.71	5,011.84	66.88	22.44	-150.20	1,351.20	-489.80	3,390.70	3,333.90	56.79	59.702	
5,800.00	4,670.80	5,125.11	5,044.67	68.39	22.60	-150.33	1,355.61	-485.55	3,443.58	3,386.27	57.32	60.079	
5,900.00	4,743.76	5,209.24	5,127.57	69.90	22.98	-150.68	1,365.86	-475.45	3,497.14	3,438.93	58.21	60.081	
6,000.00	4,816.71	5,285.85	5,203.08	71.41	23.33	-151.00	1,374.93	-466.32	3,550.83	3,491.79	59.03	60.152	
6,100.00	4,889.67	5,559.47	5,470.97	72.93	24.67	-151.99	1,410.80	-424.31	3,600.21	3,538.82	61.39	58.649	
6,200.00	4,962.63	5,634.68	5,544.17	74.44	25.05	-152.22	1,422.28	-411.47	3,649.81	3,587.54	62.27	58.616	
6,300.00	5,035.59	5,699.41	5,607.48	75.95	25.37	-152.44	1,430.41	-400.69	3,699.77	3,636.74	63.03	58.699	
6,400.00	5,108.54	5,762.82	5,669.65	77.47	25.68	-152.66	1,437.74	-390.59	3,750.37	3,686.61	63.76	58.819	
6,500.00	5,181.50	5,855.06	5,760.15	78.98	26.13	-152.99	1,448.09	-376.07	3,801.23	3,736.53	64.69	58.757	
6,600.00	5,254.46	5,926.00	5,829.43	80.49	26.48	-153.20	1,458.01	-364.49	3,851.77	3,786.27	65.51	58.800	
6,700.00	5,327.41	5,964.72	5,867.21	82.01	26.67	-153.30	1,463.97	-358.45	3,903.20	3,837.13	66.07	59.077	
6,800.00	5,400.37	6,015.00	5,916.55	83.52	26.92	-153.45	1,471.04	-351.91	3,956.25	3,889.55	66.71	59.307	
6,900.00	5,473.33	6,015.73	5,917.27	85.04	26.92	-153.45	1,471.14	-351.83	4,010.07	3,943.15	66.92	59.923	
7,000.00	5,546.28	6,225.86	6,124.17	86.55	27.89	-154.11	1,496.22	-325.17	4,064.37	3,995.60	68.77	59.099	
7,100.00	5,619.24	6,313.86	6,210.30	88.06	28.31	-154.34	1,508.42	-311.85	4,116.13	4,046.42	69.70	59.052	
7,200.00	5,692.20	6,371.00	6,266.40	89.58	28.59	-154.50	1,515.71	-303.83	4,168.75	4,098.38	70.38	59.235	
7,300.00	5,765.15	6,428.51	6,322.95	91.09	28.86	-154.66	1,522.81	-296.11	4,221.97	4,150.93	71.04	59.431	
7,400.00	5,838.11	6,626.73	6,517.37	92.61	29.81	-155.19	1,547.83	-266.80	4,274.24	4,201.43	72.81	58.704	
7,500.00	5,911.07	6,677.34	6,566.92	94.12	30.06	-155.32	1,554.24	-258.74	4,325.57	4,252.14	73.43	58.904	
7,600.00	5,984.03	6,728.00	6,616.49	95.64	30.31	-155.43	1,561.55	-251.26	4,377.80	4,303.74	74.07	59.106	
7,700.00	6,056.98	6,795.74	6,682.73	97.15	30.65	-155.57	1,572.00	-241.67	4,430.60	4,355.74	74.85	59.191	
7,800.00	6,129.94	7,263.00	7,137.67	98.67	32.71	-157.28	1,586.15	-151.59	4,475.89	4,398.26	77.63	57.659	
7,900.00	6,202.90	7,263.00	7,137.67	100.18	32.71	-157.28	1,586.15	-151.59	4,522.49	4,444.57	77.93	58.036	
8,000.00	6,275.85	7,300.53	7,173.50	101.70	32.80	-157.53	1,578.47	-143.47	4,569.91	4,491.70	78.21	58.430	
8,100.00	6,348.81	7,313.75	7,186.19	103.21	32.84	-157.61	1,575.75	-140.96	4,619.15	4,540.68	78.47	58.865	
8,200.00	6,421.77	7,352.00	7,223.08	104.73	32.94	-157.87	1,567.86	-134.71	4,670.20	4,591.47	78.73	59.320	
8,300.00	6,494.72	7,352.00	7,223.08	106.24	32.94	-157.87	1,567.86	-134.71	4,721.90	4,642.97	78.94	59.819	
8,400.00	6,567.68	7,352.00	7,223.08	107.76	32.94	-157.87	1,567.86	-134.71	4,775.14	4,696.02	79.12	60.355	
8,500.00	6,640.64	7,887.00	7,697.24	109.27	33.78	-162.35	1,358.90	-32.27	4,823.51	4,745.16	78.35	61.561	
8,600.00	6,713.59	7,887.00	7,697.24	110.79	33.78	-162.35	1,358.90	-32.27	4,872.34	4,793.74	78.59	61.993	
8,700.00	6,786.55	7,887.00	7,697.24	112.30	33.78	-162.35	1,358.90	-32.27	4,922.71	4,843.90	78.81	62.462	
8,800.00	6,859.51	7,887.00	7,697.24	113.82	33.78	-162.35	1,358.90	-32.27	4,974.59	4,895.58	79.01	62.965	
8,900.00	6,932.46	7,887.00	7,697.24	115.33	33.78	-162.35	1,358.90	-32.27	5,027.92	4,948.74	79.18	63.503	
9,000.00	7,005.42	7,925.29	7,724.25	116.85	33.77	-162.78	1,332.77	-24.93	5,081.98	5,002.85	79.13	64.226	
9,104.89	7,081.95	7,934.79	7,730.69	118.44	33.77	-162.89	1,326.00	-23.29	5,140.45	5,061.23	79.22	64.891	
9,150.00	7,115.15	7,938.97	7,733.49	119.12	33.77	-170.82	1,322.98	-22.59	5,166.04	5,086.79	79.25	65.188	
9,200.00	7,152.46	7,976.00	7,757.43	119.86	33.76	179.78	1,295.29	-16.96	5,195.07	5,115.98	79.09	65.682	
9,250.00	7,190.04	7,976.00	7,757.43	120.57	33.76	170.68	1,295.29	-16.96	5,223.44	5,144.30	79.15	65.998	
9,300.00	7,227.59	7,976.00	7,757.43	121.25	33.76	161.65	1,295.29	-16.96	5,251.58	5,172.39	79.19	66.317	
9,350.00	7,264.83	7,976.00	7,757.43	121.89	33.76	152.91	1,295.29	-16.96	5,279.28	5,200.06	79.22	66.637	
9,400.00	7,301.48	7,976.00	7,757.43	122.48	33.76	144.61	1,295.29	-16.96	5,306.34	5,227.09	79.25	66.954	
9,450.00	7,337.26	7,976.00	7,757.43	123.01	33.76	136.88	1,295.29	-16.96	5,332.57	5,253.29	79.28	67.264	
9,500.00	7,371.90	7,976.00	7,757.43	123.49	33.76	129.80	1,295.29	-16.96	5,357.78	5,278.48	79.30	67.564	
9,550.00	7,405.13	7,976.00	7,757.43	123.91	33.76	123.40	1,295.29	-16.96	5,381.79	5,302.47	79.32	67.847	
9,600.00	7,436.70	7,976.00	7,757.43	124.27	33.76	117.69	1,295.29	-16.96	5,404.44	5,325.09	79.35	68.110	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,650.00	7,466.36	8,011.80	7,778.86	124.57	33.72	112.62	1,266.97	-12.50	5,424.99	5,345.82	79.17	68.524	
9,700.00	7,493.91	8,021.05	7,784.10	124.81	33.71	108.24	1,259.42	-11.49	5,444.12	5,364.96	79.16	68.775	
9,750.00	7,519.11	8,030.44	7,789.29	125.00	33.70	104.48	1,251.65	-10.53	5,461.38	5,382.22	79.16	68.991	
9,800.00	7,541.79	8,065.00	7,807.24	125.12	33.67	101.30	1,222.28	-7.56	5,476.94	5,397.93	79.01	69.320	
9,850.00	7,561.77	8,065.00	7,807.24	125.20	33.67	98.64	1,222.28	-7.56	5,489.94	5,410.82	79.12	69.392	
9,900.00	7,578.90	8,065.00	7,807.24	125.23	33.67	96.47	1,222.28	-7.56	5,500.85	5,421.60	79.25	69.412	
9,950.00	7,593.04	8,065.00	7,807.24	125.22	33.67	94.75	1,222.28	-7.56	5,509.59	5,430.18	79.42	69.376	
10,000.00	7,604.09	8,065.00	7,807.24	125.17	33.67	93.47	1,222.28	-7.56	5,516.12	5,436.50	79.62	69.281	
10,050.00	7,611.97	8,065.00	7,807.24	125.08	33.67	92.61	1,222.28	-7.56	5,520.38	5,440.52	79.86	69.125	
10,100.00	7,616.61	8,098.49	7,822.62	124.97	33.60	92.28	1,192.61	-5.50	5,521.88	5,442.00	79.88	69.127	
10,145.95	7,618.00	8,107.46	7,826.34	124.84	33.58	92.27	1,184.46	-5.09	5,521.38	5,441.28	80.10	68.934	
10,200.00	7,618.00	8,118.08	7,830.54	124.69	33.56	92.31	1,174.72	-4.68	5,519.83	5,439.46	80.37	68.679	
10,300.00	7,618.00	8,154.00	7,842.94	124.41	33.50	92.44	1,141.02	-3.88	5,518.20	5,437.45	80.75	68.340	
10,369.80	7,618.00	8,154.00	7,842.94	124.22	33.50	92.44	1,141.02	-3.88	5,517.76	5,436.50	81.26	67.906	
10,400.00	7,618.00	8,154.00	7,842.94	124.14	33.50	92.44	1,141.02	-3.88	5,517.84	5,436.37	81.47	67.727	
10,500.00	7,618.00	8,192.80	7,853.02	123.88	33.41	92.54	1,103.58	-3.91	5,518.88	5,437.03	81.84	67.432	
10,600.00	7,618.00	8,243.00	7,860.57	123.63	33.30	92.62	1,053.99	-5.05	5,521.26	5,439.18	82.09	67.262	
10,700.00	7,618.00	8,271.10	7,862.69	123.40	33.23	92.64	1,025.99	-6.09	5,524.65	5,442.07	82.58	66.902	
10,800.00	7,618.00	8,836.00	7,855.48	123.18	33.61	92.57	461.74	-9.19	5,526.94	5,447.08	79.86	69.205	
10,900.00	7,618.00	8,882.91	7,853.88	122.96	33.85	92.55	414.90	-7.00	5,522.38	5,441.88	80.50	68.600	
11,000.00	7,618.00	8,925.00	7,852.52	122.76	34.10	92.54	372.85	-6.32	5,519.75	5,438.58	81.17	68.006	
11,100.00	7,618.00	8,925.00	7,852.52	122.57	34.10	92.54	372.85	-6.32	5,518.15	5,436.28	81.87	67.398	
11,137.99	7,618.00	8,925.00	7,852.52	122.50	34.10	92.54	372.85	-6.32	5,518.02	5,435.86	82.16	67.164	
11,200.00	7,618.00	8,925.00	7,852.52	122.39	34.10	92.54	372.85	-6.32	5,518.37	5,435.76	82.61	66.798	
11,300.00	7,618.00	8,977.18	7,851.04	122.23	34.42	92.52	320.69	-6.91	5,519.46	5,436.11	83.36	66.214	
11,400.00	7,618.00	9,014.00	7,850.20	122.07	34.66	92.52	283.90	-8.15	5,522.16	5,438.03	84.13	65.641	
11,500.00	7,618.00	9,057.90	7,849.30	121.93	34.95	92.50	240.05	-10.09	5,525.96	5,441.02	84.94	65.057	
11,600.00	7,618.00	9,164.02	7,847.00	121.79	35.74	92.48	134.08	-15.08	5,530.24	5,444.36	85.88	64.395	
11,700.00	7,618.00	9,314.67	7,843.71	121.67	37.00	92.44	-16.41	-21.06	5,533.75	5,446.61	87.14	63.501	
11,800.00	7,618.00	10,261.00	7,821.54	121.56	48.12	92.23	-960.31	11.57	5,535.20	5,437.30	97.89	56.543	
11,900.00	7,618.00	10,305.93	7,820.27	121.46	48.76	92.22	-1,004.90	16.94	5,523.23	5,424.05	99.18	55.689	
12,000.00	7,618.00	10,350.00	7,819.01	121.38	49.38	92.21	-1,048.75	21.12	5,512.89	5,412.42	100.47	54.871	
12,100.00	7,618.00	10,350.00	7,819.01	121.30	49.38	92.21	-1,048.75	21.12	5,503.64	5,402.59	101.05	54.465	
12,200.00	7,618.00	10,350.00	7,819.01	121.24	49.38	92.21	-1,048.75	21.12	5,496.20	5,394.55	101.65	54.069	
12,300.00	7,618.00	10,707.00	7,809.35	121.19	54.53	92.12	-1,404.30	49.77	5,488.80	5,380.25	108.54	50.568	
12,400.00	7,618.00	10,733.15	7,808.61	121.16	54.92	92.11	-1,430.31	52.27	5,478.40	5,368.80	109.60	49.983	
12,500.00	7,618.00	10,796.00	7,806.82	121.14	55.86	92.09	-1,492.88	58.03	5,468.82	5,357.44	111.38	49.098	
12,600.00	7,618.00	10,796.00	7,806.82	121.13	55.86	92.09	-1,492.88	58.03	5,460.52	5,348.56	111.96	48.770	
12,700.00	7,618.00	10,842.99	7,805.48	121.13	56.56	92.08	-1,539.72	61.53	5,453.16	5,339.70	113.46	48.063	
12,800.00	7,618.00	10,885.00	7,804.30	121.15	57.19	92.07	-1,581.66	63.50	5,447.59	5,332.72	114.86	47.426	
12,900.00	7,618.00	10,885.00	7,804.30	121.18	57.19	92.07	-1,581.66	63.50	5,443.14	5,327.67	115.47	47.141	
13,000.00	7,618.00	10,916.87	7,803.41	121.23	57.66	92.06	-1,613.51	64.33	5,440.19	5,323.50	116.69	46.623	
13,100.00	7,618.00	10,974.00	7,801.78	121.29	58.50	92.04	-1,670.61	64.59	5,438.86	5,320.47	118.40	45.938	
13,181.19	7,618.00	10,974.00	7,801.78	121.35	58.50	92.04	-1,670.61	64.59	5,438.26	5,319.36	118.89	45.741	
13,200.00	7,618.00	10,974.00	7,801.78	121.37	58.50	92.04	-1,670.61	64.59	5,438.29	5,319.28	119.01	45.698	
13,300.00	7,618.00	10,974.00	7,801.78	121.46	58.50	92.04	-1,670.61	64.59	5,439.55	5,319.94	119.62	45.475	
13,400.00	7,618.00	11,018.16	7,800.52	121.57	59.13	92.03	-1,714.74	63.59	5,441.87	5,320.80	121.07	44.946	
13,500.00	7,618.00	11,063.00	7,799.28	121.70	59.78	92.01	-1,759.50	61.33	5,445.99	5,323.44	122.55	44.440	
13,600.00	7,618.00	11,063.00	7,799.28	121.84	59.78	92.01	-1,759.50	61.33	5,451.12	5,327.98	123.15	44.265	
13,700.00	7,618.00	11,063.00	7,799.28	122.01	59.78	92.01	-1,759.50	61.33	5,458.09	5,334.34	123.74	44.108	
13,800.00	7,618.00	11,964.21	7,801.65	122.19	73.49	92.04	-2,657.02	53.86	5,458.05	5,314.07	143.98	37.909	
13,900.00	7,618.00	12,052.43	7,802.45	122.39	74.92	92.05	-2,745.06	59.47	5,451.40	5,304.73	146.67	37.167	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
14,000.00	7,618.00	12,125.46	7,803.15	122.62	76.11	92.06	-2,817.96	63.83	5,445.12	5,296.11	149.01	36.541	
14,100.00	7,618.00	12,250.52	7,804.31	122.86	78.16	92.07	-2,942.79	71.29	5,438.86	5,286.21	152.65	35.629	
14,200.00	7,618.00	12,352.02	7,805.17	123.12	79.83	92.08	-3,044.09	77.64	5,432.31	5,276.57	155.74	34.881	
14,300.00	7,618.00	12,476.36	7,806.27	123.41	81.89	92.10	-3,168.17	85.50	5,425.71	5,266.29	159.42	34.034	
14,400.00	7,618.00	14,400.00	7,807.58	123.72	114.36	92.12	-3,438.98	107.63	5,417.43	5,222.55	194.89	27.798	
14,500.00	7,618.00	12,756.00	7,807.58	124.06	86.57	92.12	-3,446.85	108.41	5,408.07	5,240.37	167.70	32.248	
14,600.00	7,618.00	12,805.66	7,807.67	124.42	87.40	92.13	-3,496.31	112.90	5,399.39	5,229.85	169.54	31.848	
14,700.00	7,618.00	12,845.00	7,807.89	124.80	88.07	92.13	-3,535.58	115.17	5,392.77	5,221.67	171.10	31.519	
14,800.00	7,618.00	12,845.00	7,807.89	125.21	88.07	92.13	-3,535.58	115.17	5,387.28	5,215.67	171.61	31.392	
14,900.00	7,618.00	12,845.00	7,807.89	125.65	88.07	92.13	-3,535.58	115.17	5,383.64	5,211.54	172.10	31.282	
15,000.00	7,618.00	12,889.68	7,808.24	126.11	88.80	92.13	-3,580.23	116.44	5,381.02	5,207.26	173.76	30.969	
15,100.00	7,618.00	15,100.00	7,808.64	126.61	125.31	92.14	-3,623.85	116.41	5,380.26	5,168.85	211.41	25.449	
15,200.00	7,618.00	13,168.12	7,809.28	127.13	93.41	92.15	-3,858.60	120.87	5,377.58	5,195.43	182.15	29.523	
15,300.00	7,618.00	13,253.52	7,809.63	127.68	94.83	92.15	-3,943.97	123.06	5,374.68	5,189.75	184.93	29.063	
15,400.00	7,618.00	13,319.61	7,809.95	128.26	95.93	92.15	-4,010.05	124.68	5,371.99	5,184.80	187.19	28.699	
15,500.00	7,618.00	13,380.00	7,810.19	128.87	96.94	92.16	-4,070.43	125.40	5,370.33	5,181.04	189.28	28.372	
15,600.00	7,618.00	15,600.00	7,810.80	129.51	134.28	92.17	-4,227.01	127.81	5,368.57	5,139.63	228.94	23.450	
15,700.00	7,618.00	13,647.00	7,810.98	130.18	101.41	92.17	-4,337.36	130.76	5,365.53	5,167.98	197.56	27.159	
15,800.00	7,618.00	13,697.07	7,810.99	130.88	102.25	92.17	-4,387.42	131.78	5,363.20	5,163.81	199.39	26.898	
15,900.00	7,618.00	13,746.19	7,811.15	131.61	103.08	92.17	-4,436.54	132.26	5,361.88	5,160.70	201.18	26.652	
16,000.00	7,618.00	13,819.24	7,811.55	132.37	104.30	92.18	-4,509.59	132.48	5,361.26	5,157.62	203.64	26.327	
16,026.68	7,618.00	13,826.00	7,811.59	132.58	104.41	92.18	-4,516.35	132.48	5,361.20	5,157.26	203.93	26.289	
16,100.00	7,618.00	13,863.85	7,811.87	133.17	105.04	92.18	-4,554.20	132.30	5,361.38	5,156.09	205.28	26.117	
16,200.00	7,618.00	14,093.00	7,815.99	133.99	108.89	92.22	-4,783.28	133.06	5,360.71	5,148.45	212.26	25.256	
16,300.00	7,618.00	14,165.10	7,817.74	134.84	110.11	92.24	-4,855.35	133.86	5,359.31	5,144.59	214.73	24.959	
16,400.00	7,618.00	14,659.91	7,830.40	135.72	118.61	92.39	-5,349.16	157.80	5,353.60	5,124.28	229.32	23.346	
16,500.00	7,618.00	14,717.00	7,831.74	136.63	119.60	92.41	-5,406.07	162.06	5,345.68	5,114.22	231.47	23.095	
16,600.00	7,618.00	14,717.00	7,831.74	137.57	119.60	92.41	-5,406.07	162.06	5,338.83	5,106.85	231.97	23.015	
16,700.00	7,618.00	14,750.82	7,832.52	138.54	120.18	92.42	-5,439.83	163.93	5,333.37	5,099.96	233.41	22.850	
16,800.00	7,618.00	14,984.00	7,835.95	139.53	124.21	92.46	-5,672.65	175.06	5,329.51	5,088.94	240.58	22.153	
16,900.00	7,618.00	15,036.17	7,836.09	140.55	125.12	92.46	-5,724.69	178.74	5,322.44	5,079.87	242.57	21.942	
17,000.00	7,618.00	15,073.00	7,836.36	141.60	125.76	92.46	-5,761.47	180.67	5,316.81	5,072.71	244.10	21.781	
17,100.00	7,618.00	15,073.00	7,836.36	142.67	125.76	92.46	-5,761.47	180.67	5,312.64	5,068.12	244.51	21.727	
17,200.00	7,618.00	15,123.83	7,836.82	143.77	126.63	92.47	-5,812.27	182.31	5,309.48	5,063.08	246.40	21.549	
17,300.00	7,618.00	15,162.00	7,837.18	144.88	127.28	92.47	-5,850.44	182.73	5,307.89	5,060.01	247.88	21.413	
17,360.59	7,618.00	15,162.00	7,837.18	145.57	127.28	92.47	-5,850.44	182.73	5,307.54	5,059.48	248.06	21.396	
17,400.00	7,618.00	15,162.00	7,837.18	146.02	127.28	92.47	-5,850.44	182.73	5,307.69	5,059.52	248.16	21.388	
17,500.00	7,618.00	15,202.90	7,837.56	147.19	127.97	92.48	-5,891.33	182.32	5,308.74	5,059.08	249.66	21.264	
17,600.00	7,618.00	15,251.00	7,837.97	148.37	128.78	92.48	-5,939.40	180.63	5,311.50	5,060.15	251.35	21.131	
17,700.00	7,618.00	15,251.00	7,837.97	149.57	128.78	92.48	-5,939.40	180.63	5,315.28	5,063.77	251.50	21.134	
17,800.00	7,618.00	15,295.95	7,838.32	150.79	129.53	92.49	-5,984.28	178.17	5,320.47	5,067.44	253.04	21.026	
17,900.00	7,618.00	15,340.00	7,838.65	152.03	130.26	92.49	-6,028.23	175.25	5,326.76	5,072.24	254.52	20.929	
18,000.00	7,618.00	15,472.50	7,839.71	153.29	132.46	92.50	-6,160.45	166.69	5,332.81	5,073.93	258.88	20.600	
18,100.00	7,618.00	15,543.94	7,840.06	154.57	133.65	92.50	-6,231.72	161.79	5,339.32	5,078.07	261.25	20.438	
18,200.00	7,618.00	15,608.00	7,840.26	155.86	134.71	92.50	-6,295.62	157.28	5,346.14	5,082.77	263.37	20.299	
18,300.00	7,618.00	15,666.71	7,840.58	157.17	135.68	92.50	-6,354.15	152.74	5,353.70	5,088.40	265.31	20.179	
18,400.00	7,618.00	16,320.00	7,845.87	158.49	146.63	92.54	-7,002.09	128.35	5,359.54	5,073.41	286.13	18.731	
18,500.00	7,618.00	16,320.00	7,845.87	159.82	146.63	92.54	-7,002.09	128.35	5,358.38	5,071.94	286.44	18.707	
18,512.43	7,618.00	16,320.00	7,845.87	159.99	146.63	92.54	-7,002.09	128.35	5,358.36	5,071.89	286.48	18.704	
18,600.00	7,618.00	16,320.00	7,845.87	161.17	146.63	92.54	-7,002.09	128.35	5,359.08	5,072.40	286.68	18.694	
18,700.00	7,618.00	16,320.00	7,845.87	162.54	146.63	92.54	-7,002.09	128.35	5,361.65	5,074.81	286.83	18.692	
18,800.00	7,618.00	16,320.00	7,845.87	163.91	146.63	92.54	-7,002.09	128.35	5,366.08	5,079.16	286.91	18.703	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
18,900.00	7,618.00	16,361.34	7,845.70	165.30	147.32	92.54	-7,043.39	126.60	5,371.14	5,082.84	288.30	18.630	
19,000.00	7,618.00	16,409.00	7,845.52	166.70	148.11	92.54	-7,090.81	121.95	5,379.25	5,089.38	289.88	18.557	
19,100.00	7,618.00	16,409.00	7,845.52	168.10	148.11	92.54	-7,090.81	121.95	5,387.59	5,097.80	289.79	18.591	
19,200.00	7,618.00	16,409.00	7,845.52	169.52	148.11	92.54	-7,090.81	121.95	5,397.77	5,108.14	289.62	18.637	
19,300.00	7,618.00	16,479.55	7,845.36	170.95	149.27	92.53	-7,160.82	113.25	5,409.57	5,117.67	291.89	18.533	
19,400.00	7,618.00	16,592.40	7,844.75	172.39	151.12	92.52	-7,272.88	99.94	5,420.98	5,125.31	295.66	18.335	
19,500.00	7,618.00	16,665.44	7,843.45	173.84	152.32	92.50	-7,345.38	91.14	5,432.61	5,134.59	298.02	18.229	
19,600.00	7,618.00	16,817.65	7,839.27	175.30	154.82	92.45	-7,496.48	73.21	5,443.90	5,140.71	303.19	17.956	
19,700.00	7,618.00	16,907.22	7,836.08	176.76	156.30	92.41	-7,585.40	63.00	5,454.81	5,148.68	306.14	17.818	
19,800.00	7,618.00	17,028.86	7,830.87	178.24	158.31	92.35	-7,706.11	48.98	5,465.87	5,155.65	310.22	17.619	
19,896.19	7,618.00	17,127.92	7,826.12	179.66	159.95	92.30	-7,804.44	37.92	5,476.10	5,162.58	313.52	17.467	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-53.94	786.89	-1,080.78	1,336.92				
100.00	100.00	89.46	89.46	0.13	0.15	-53.95	786.84	-1,080.83	1,336.91	1,336.62	0.28	4,718.461	CC
200.00	200.00	188.86	188.86	0.49	0.31	-53.96	786.67	-1,081.04	1,336.97	1,336.16	0.81	1,656.193	ES
300.00	299.98	288.23	288.23	0.85	0.48	-123.34	786.37	-1,081.38	1,338.04	1,336.71	1.33	1,008.106	
400.00	399.84	385.67	385.67	1.21	0.77	-123.49	786.07	-1,081.85	1,341.12	1,339.15	1.98	678.681	
500.00	499.45	482.10	482.10	1.58	1.11	-123.71	786.05	-1,082.37	1,346.39	1,343.70	2.69	500.998	
600.00	598.70	577.34	577.33	1.97	1.45	-123.99	786.53	-1,082.83	1,353.90	1,350.50	3.40	397.977	
700.00	697.47	744.43	744.30	2.38	2.02	-124.58	788.96	-1,077.86	1,361.21	1,356.85	4.36	312.001	
800.00	795.62	859.12	858.45	2.83	2.42	-124.85	793.48	-1,067.85	1,367.16	1,361.98	5.18	263.802	
900.00	893.06	966.90	965.23	3.31	2.83	-125.00	801.16	-1,055.45	1,374.66	1,368.64	6.03	228.101	
1,000.00	989.64	1,081.65	1,078.18	3.83	3.29	-125.10	812.51	-1,038.76	1,383.19	1,376.24	6.95	198.922	
1,100.00	1,085.27	1,188.51	1,182.75	4.40	3.76	-125.16	825.14	-1,020.80	1,392.90	1,384.99	7.91	176.072	
1,200.00	1,179.82	1,281.16	1,273.20	5.02	4.18	-125.21	837.03	-1,004.64	1,404.66	1,395.79	8.86	158.451	
1,300.00	1,273.17	1,386.58	1,375.29	5.70	4.69	-125.24	853.42	-984.14	1,418.20	1,408.26	9.95	142.563	
1,400.00	1,365.21	1,471.87	1,457.45	6.43	5.13	-125.19	868.59	-966.97	1,434.37	1,423.37	11.00	130.437	
1,500.00	1,455.84	1,636.69	1,616.12	7.23	6.01	-125.55	896.09	-931.96	1,451.42	1,438.92	12.51	116.042	
1,600.00	1,544.94	1,704.39	1,681.37	8.09	6.38	-125.63	906.17	-916.96	1,468.51	1,454.95	13.56	108.303	
1,700.00	1,632.39	1,820.31	1,793.07	9.01	7.01	-126.01	924.25	-891.80	1,488.57	1,473.66	14.90	99.872	
1,800.00	1,718.11	1,930.94	1,899.32	10.00	7.63	-126.45	940.39	-865.59	1,508.47	1,492.21	16.27	92.738	
1,900.00	1,801.97	1,992.00	1,958.18	11.07	7.97	-126.56	949.42	-852.06	1,532.07	1,514.69	17.39	88.119	
2,000.00	1,883.88	2,100.09	2,062.53	12.20	8.57	-127.12	965.22	-828.74	1,558.44	1,539.66	18.78	82.966	
2,100.00	1,963.74	2,184.22	2,143.76	13.41	9.04	-127.49	977.57	-810.64	1,587.28	1,567.21	20.08	79.066	
2,200.00	2,041.45	2,290.88	2,246.54	14.69	9.64	-128.11	993.12	-786.76	1,617.78	1,596.26	21.52	75.183	
2,300.00	2,116.92	2,358.60	2,311.92	16.05	10.02	-128.34	1,002.86	-772.06	1,651.36	1,628.61	22.75	72.590	
2,357.48	2,159.25	2,391.28	2,343.56	16.86	10.19	-128.38	1,007.63	-765.39	1,672.47	1,649.05	23.42	71.418	
2,400.00	2,190.27	2,415.10	2,366.65	17.47	10.32	-128.68	1,011.17	-760.75	1,688.79	1,664.89	23.91	70.642	
2,500.00	2,263.22	2,471.64	2,421.58	18.92	10.62	-129.39	1,019.70	-750.43	1,728.70	1,703.67	25.03	69.059	
2,600.00	2,336.18	2,530.07	2,478.52	20.37	10.92	-130.11	1,028.59	-740.78	1,770.57	1,744.44	26.13	67.756	
2,700.00	2,409.14	2,596.00	2,542.91	21.84	11.25	-130.91	1,038.80	-730.96	1,814.29	1,787.04	27.25	66.580	
2,800.00	2,482.09	2,835.78	2,775.06	23.31	12.56	-133.52	1,073.21	-682.44	1,851.74	1,822.26	29.47	62.825	
2,900.00	2,555.05	2,959.53	2,894.15	24.78	13.27	-134.75	1,090.25	-653.46	1,889.12	1,858.16	30.95	61.031	
3,000.00	2,628.01	3,014.88	2,947.45	26.27	13.59	-135.28	1,097.54	-640.42	1,926.38	1,894.38	32.01	60.187	
3,100.00	2,700.96	3,090.68	3,020.68	27.75	14.02	-136.01	1,107.44	-623.56	1,965.18	1,932.03	33.15	59.280	
3,200.00	2,773.92	3,160.92	3,088.39	29.24	14.41	-136.64	1,117.52	-607.82	2,004.62	1,970.37	34.25	58.532	
3,300.00	2,846.88	3,220.00	3,145.57	30.73	14.74	-137.16	1,126.00	-595.61	2,045.77	2,010.52	35.25	58.038	
3,400.00	2,919.83	3,322.14	3,244.41	32.23	15.31	-138.03	1,140.84	-574.58	2,087.43	2,050.92	36.51	57.172	
3,500.00	2,992.79	3,381.67	3,302.10	33.72	15.63	-138.53	1,149.23	-562.55	2,129.61	2,092.14	37.47	56.835	
3,600.00	3,065.75	3,483.40	3,400.79	35.22	16.19	-139.36	1,163.68	-542.54	2,172.60	2,133.91	38.69	56.149	
3,700.00	3,138.71	3,543.37	3,458.84	36.72	16.52	-139.81	1,172.80	-530.57	2,215.82	2,176.19	39.63	55.911	
3,800.00	3,211.66	3,651.96	3,564.27	38.22	17.10	-140.63	1,188.50	-509.87	2,260.00	2,219.12	40.88	55.285	
3,900.00	3,284.62	3,724.47	3,634.56	39.72	17.50	-141.16	1,198.89	-495.41	2,303.57	2,261.70	41.87	55.017	
4,000.00	3,357.58	3,849.97	3,756.08	41.22	18.19	-142.01	1,217.77	-470.35	2,347.61	2,304.38	43.23	54.302	
4,100.00	3,430.53	4,005.36	3,905.90	42.73	19.08	-143.03	1,239.17	-435.17	2,388.98	2,344.21	44.76	53.368	
4,200.00	3,503.49	4,075.08	3,972.99	44.23	19.48	-143.47	1,248.43	-418.62	2,429.73	2,384.01	45.72	53.147	
4,300.00	3,576.45	4,115.70	4,012.27	45.74	19.71	-143.73	1,253.70	-409.71	2,472.17	2,425.72	46.45	53.221	
4,400.00	3,649.40	4,191.05	4,085.38	47.25	20.13	-144.21	1,263.68	-394.45	2,516.25	2,468.85	47.40	53.084	
4,500.00	3,722.36	4,258.58	4,150.61	48.75	20.50	-144.59	1,273.95	-380.28	2,560.32	2,512.01	48.31	53.002	
4,600.00	3,795.32	4,297.52	4,188.37	50.26	20.71	-144.81	1,279.83	-372.82	2,606.03	2,557.05	48.98	53.208	
4,700.00	3,868.27	4,363.30	4,252.40	51.77	21.06	-145.18	1,289.61	-361.36	2,653.28	2,603.45	49.83	53.245	
4,800.00	3,941.23	4,545.97	4,429.31	53.28	22.06	-146.11	1,318.44	-326.22	2,699.42	2,647.81	51.60	52.310	
4,900.00	4,014.19	4,689.74	4,568.03	54.79	22.88	-146.83	1,338.99	-294.57	2,742.89	2,689.87	53.03	51.725	
5,000.00	4,087.15	4,767.50	4,642.87	56.30	23.34	-147.19	1,350.42	-276.83	2,785.88	2,731.90	53.99	51.603	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			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
5,100.00	4,160.10	4,851.70	4,723.98	57.81	23.83	-147.58	1,362.76	-257.84	2,829.22	2,774.24	54.98	51.457	
5,200.00	4,233.06	4,969.79	4,837.61	59.32	24.51	-148.11	1,379.61	-230.50	2,872.03	2,815.82	56.21	51.094	
5,300.00	4,306.02	5,032.00	4,897.43	60.83	24.88	-148.38	1,388.71	-216.03	2,915.03	2,857.99	57.04	51.106	
5,400.00	4,378.97	5,090.81	4,954.09	62.34	25.22	-148.63	1,397.37	-202.90	2,958.98	2,901.15	57.83	51.169	
5,500.00	4,451.93	5,147.90	5,009.27	63.85	25.54	-148.87	1,405.72	-190.89	3,004.08	2,945.49	58.59	51.274	
5,600.00	4,524.89	5,215.00	5,074.11	65.36	25.92	-149.13	1,416.35	-177.23	3,050.00	2,990.57	59.43	51.321	
5,700.00	4,597.84	5,312.17	5,168.13	66.88	26.46	-149.52	1,430.89	-157.50	3,095.98	3,035.49	60.49	51.182	
5,800.00	4,670.80	5,367.26	5,221.59	68.39	26.76	-149.74	1,438.57	-146.63	3,142.50	3,081.30	61.20	51.350	
5,900.00	4,743.76	5,427.69	5,280.34	69.90	27.08	-149.98	1,447.06	-135.28	3,189.93	3,128.00	61.94	51.504	
6,000.00	4,816.71	5,592.07	5,439.77	71.41	27.98	-150.59	1,471.47	-103.63	3,237.45	3,173.94	63.51	50.974	
6,100.00	4,889.67	5,677.35	5,522.27	72.93	28.45	-150.90	1,483.63	-85.78	3,283.20	3,218.75	64.45	50.938	
6,200.00	4,962.63	5,744.00	5,586.91	74.44	28.82	-151.15	1,492.58	-72.26	3,329.52	3,264.29	65.23	51.040	
6,300.00	5,035.59	5,805.64	5,646.81	75.95	29.15	-151.38	1,500.70	-60.18	3,376.52	3,310.56	65.96	51.190	
6,400.00	5,108.54	5,961.09	5,797.60	77.47	30.00	-151.93	1,521.39	-28.61	3,423.04	3,355.64	67.40	50.783	
6,500.00	5,181.50	6,056.62	5,890.10	78.98	30.53	-152.26	1,533.70	-8.14	3,468.60	3,400.21	68.39	50.719	
6,600.00	5,254.46	6,131.57	5,962.58	80.49	30.95	-152.51	1,543.86	8.02	3,514.16	3,444.94	69.22	50.766	
6,700.00	5,327.41	6,190.00	6,019.26	82.01	31.27	-152.71	1,551.18	20.14	3,560.46	3,490.54	69.92	50.925	
6,800.00	5,400.37	6,272.35	6,099.21	83.52	31.71	-152.98	1,561.71	36.84	3,607.25	3,536.47	70.78	50.961	
6,900.00	5,473.33	6,333.62	6,158.63	85.04	32.05	-153.16	1,570.28	49.10	3,654.41	3,582.91	71.51	51.107	
7,000.00	5,546.28	6,479.18	6,299.59	86.55	32.85	-153.57	1,591.60	78.42	3,701.66	3,628.74	72.92	50.765	
7,100.00	5,619.24	6,546.00	6,364.09	88.06	33.23	-153.75	1,601.78	92.62	3,747.89	3,674.19	73.71	50.849	
7,200.00	5,692.20	6,599.76	6,416.13	89.58	33.53	-153.89	1,609.52	103.67	3,794.85	3,720.48	74.36	51.030	
7,300.00	5,765.15	6,757.34	6,568.76	91.09	34.40	-154.32	1,631.80	135.80	3,842.07	3,766.21	75.86	50.648	
7,400.00	5,838.11	7,260.00	7,043.69	92.61	37.09	-156.39	1,645.83	271.12	3,878.63	3,800.24	78.39	49.477	
7,500.00	5,911.07	7,260.00	7,043.69	94.12	37.09	-156.39	1,645.83	271.12	3,916.62	3,837.84	78.78	49.716	
7,600.00	5,984.03	7,260.00	7,043.69	95.64	37.09	-156.39	1,645.83	271.12	3,956.77	3,877.65	79.12	50.010	
7,700.00	6,056.98	7,260.00	7,043.69	97.15	37.09	-156.39	1,645.83	271.12	3,999.01	3,919.59	79.42	50.354	
7,800.00	6,129.94	7,299.58	7,079.48	98.67	37.16	-156.76	1,631.84	280.61	4,042.22	3,962.71	79.52	50.835	
7,900.00	6,202.90	7,312.28	7,090.97	100.18	37.18	-156.89	1,627.13	283.27	4,087.67	4,007.97	79.70	51.291	
8,000.00	6,275.85	7,349.00	7,124.14	101.70	37.24	-157.25	1,612.87	289.91	4,135.23	4,055.48	79.75	51.854	
8,100.00	6,348.81	7,349.00	7,124.14	103.21	37.24	-157.25	1,612.87	289.91	4,183.73	4,103.82	79.92	52.349	
8,200.00	6,421.77	7,349.00	7,124.14	104.73	37.24	-157.25	1,612.87	289.91	4,234.05	4,153.99	80.06	52.886	
8,300.00	6,494.72	7,349.00	7,124.14	106.24	37.24	-157.25	1,612.87	289.91	4,286.11	4,205.94	80.17	53.464	
8,400.00	6,567.68	7,385.82	7,157.16	107.76	37.27	-157.62	1,597.53	295.39	4,339.31	4,259.20	80.11	54.164	
8,500.00	6,640.64	7,403.82	7,173.15	109.27	37.28	-157.81	1,589.61	297.78	4,394.00	4,313.89	80.11	54.850	
8,600.00	6,713.59	7,438.00	7,203.18	110.79	37.30	-158.17	1,573.79	301.79	4,450.14	4,370.12	80.02	55.613	
8,700.00	6,786.55	7,438.00	7,203.18	112.30	37.30	-158.17	1,573.79	301.79	4,507.34	4,427.29	80.05	56.308	
8,800.00	6,859.51	7,498.05	7,254.79	113.82	37.31	-158.83	1,543.80	308.27	4,565.64	4,485.84	79.80	57.214	
8,900.00	6,932.46	7,651.22	7,376.89	115.33	37.28	-160.65	1,453.56	326.76	4,623.95	4,544.99	78.96	58.561	
9,000.00	7,005.42	7,689.64	7,404.45	116.85	37.26	-161.14	1,427.27	331.77	4,682.82	4,604.11	78.71	59.494	
9,104.89	7,081.95	7,705.00	7,415.06	118.44	37.26	-161.34	1,416.34	333.76	4,745.76	4,667.15	78.60	60.377	
9,150.00	7,115.15	7,728.17	7,430.59	119.12	37.23	-169.88	1,399.40	336.72	4,773.20	4,694.77	78.43	60.856	
9,200.00	7,152.46	7,740.48	7,438.60	119.86	37.22	-179.45	1,390.17	338.25	4,803.88	4,725.53	78.35	61.317	
9,250.00	7,190.04	7,753.89	7,447.12	120.57	37.21	170.86	1,379.96	339.90	4,834.53	4,756.28	78.25	61.786	
9,300.00	7,227.59	7,768.29	7,456.03	121.25	37.19	161.28	1,368.79	341.63	4,864.90	4,786.77	78.14	62.261	
9,350.00	7,264.83	7,794.00	7,471.35	121.89	37.17	151.94	1,348.36	344.64	4,894.78	4,816.84	77.94	62.803	
9,400.00	7,301.48	7,794.00	7,471.35	122.48	37.17	143.32	1,348.36	344.64	4,923.85	4,845.91	77.94	63.177	
9,450.00	7,337.26	7,794.00	7,471.35	123.01	37.17	135.31	1,348.36	344.64	4,952.05	4,874.12	77.94	63.539	
9,500.00	7,371.90	7,794.00	7,471.35	123.49	37.17	127.98	1,348.36	344.64	4,979.19	4,901.25	77.94	63.883	
9,550.00	7,405.13	7,794.00	7,471.35	123.91	37.17	121.36	1,348.36	344.64	5,005.07	4,927.11	77.95	64.205	
9,600.00	7,436.70	7,794.00	7,471.35	124.27	37.17	115.47	1,348.36	344.64	5,029.51	4,951.54	77.98	64.499	
9,650.00	7,466.36	7,794.00	7,471.35	124.57	37.17	110.27	1,348.36	344.64	5,052.37	4,974.35	78.02	64.759	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,700.00	7,493.91	7,831.35	7,491.96	124.81	37.10	105.73	1,317.42	348.15	5,072.50	4,994.73	77.77	65.223	
9,750.00	7,519.11	7,837.86	7,495.33	125.00	37.09	101.85	1,311.87	348.61	5,091.35	5,013.56	77.80	65.445	
9,800.00	7,541.79	7,844.47	7,498.68	125.12	37.08	98.55	1,306.19	349.02	5,108.13	5,030.29	77.85	65.619	
9,850.00	7,561.77	7,883.00	7,516.80	125.20	37.01	95.84	1,272.23	350.45	5,123.44	5,045.81	77.63	65.999	
9,900.00	7,578.90	7,883.00	7,516.80	125.23	37.01	93.60	1,272.23	350.45	5,135.49	5,057.69	77.80	66.009	
9,950.00	7,593.04	7,883.00	7,516.80	125.22	37.01	91.83	1,272.23	350.45	5,145.25	5,067.24	78.01	65.956	
10,000.00	7,604.09	7,883.00	7,516.80	125.17	37.01	90.50	1,272.23	350.45	5,152.67	5,074.40	78.26	65.837	
10,050.00	7,611.97	7,883.00	7,516.80	125.08	37.01	89.60	1,272.23	350.45	5,157.68	5,079.12	78.56	65.651	
10,100.00	7,616.61	7,903.56	7,525.63	124.97	36.96	89.18	1,253.67	350.79	5,160.24	5,081.54	78.70	65.568	
10,145.95	7,618.00	7,987.99	7,558.32	124.84	36.78	89.45	1,175.86	352.70	5,159.95	5,081.76	78.19	65.992	
10,200.00	7,618.00	7,973.00	7,552.94	124.69	36.81	89.39	1,189.85	352.30	5,158.42	5,079.65	78.77	65.484	
10,300.00	7,618.00	8,015.73	7,568.07	124.41	36.71	89.56	1,149.90	352.96	5,156.44	5,077.27	79.17	65.130	
10,400.00	7,618.00	8,062.00	7,583.41	124.14	36.61	89.73	1,106.24	352.67	5,156.14	5,076.60	79.55	64.819	
10,403.38	7,618.00	8,062.00	7,583.41	124.13	36.61	89.73	1,106.24	352.67	5,156.14	5,076.56	79.58	64.795	
10,500.00	7,618.00	8,093.46	7,593.28	123.88	36.54	89.84	1,076.38	352.14	5,156.97	5,076.85	80.11	64.371	
10,600.00	7,618.00	8,189.51	7,620.52	123.63	36.34	90.14	984.30	350.65	5,158.25	5,078.17	80.09	64.406	
10,700.00	7,618.00	8,285.21	7,637.61	123.40	36.17	90.33	890.21	348.88	5,159.86	5,079.76	80.10	64.419	
10,800.00	7,618.00	8,373.68	7,646.03	123.18	36.04	90.42	802.16	347.28	5,161.42	5,081.19	80.23	64.336	
10,900.00	7,618.00	8,679.25	7,660.15	122.96	36.07	90.58	497.14	347.03	5,161.16	5,081.70	79.47	64.949	
11,000.00	7,618.00	8,772.14	7,660.40	122.76	36.29	90.58	404.26	348.69	5,159.05	5,078.99	80.06	64.440	
11,100.00	7,618.00	8,885.49	7,660.58	122.57	36.72	90.58	290.93	350.73	5,156.92	5,076.12	80.80	63.824	
11,200.00	7,618.00	8,990.18	7,660.37	122.39	37.27	90.58	186.27	352.98	5,154.41	5,072.71	81.70	63.090	
11,300.00	7,618.00	9,089.18	7,660.35	122.23	37.93	90.58	87.29	354.84	5,152.20	5,069.47	82.73	62.278	
11,400.00	7,618.00	9,192.27	7,660.18	122.07	38.73	90.58	-15.78	357.10	5,149.66	5,065.75	83.91	61.373	
11,500.00	7,618.00	9,287.34	7,660.12	121.93	39.57	90.58	-110.82	359.02	5,147.31	5,062.14	85.17	60.436	
11,600.00	7,618.00	9,430.14	7,659.99	121.79	40.95	90.58	-253.59	362.48	5,144.55	5,057.62	86.92	59.185	
11,700.00	7,618.00	9,487.00	7,659.13	121.67	41.55	90.57	-310.41	364.11	5,141.52	5,053.44	88.09	58.368	
11,800.00	7,618.00	9,550.99	7,657.59	121.56	42.24	90.55	-374.37	365.46	5,139.24	5,049.88	89.36	57.512	
11,900.00	7,618.00	9,601.41	7,656.41	121.46	42.79	90.54	-424.78	365.81	5,138.13	5,047.59	90.54	56.753	
11,984.76	7,618.00	9,652.99	7,656.56	121.39	43.36	90.54	-476.35	365.82	5,137.83	5,046.18	91.65	56.057	
12,000.00	7,618.00	9,665.00	7,656.82	121.38	43.50	90.54	-488.36	365.78	5,137.84	5,045.96	91.88	55.917	
12,100.00	7,618.00	9,777.57	7,659.80	121.30	44.79	90.58	-600.89	365.57	5,137.70	5,043.85	93.85	54.744	
12,200.00	7,618.00	9,888.59	7,662.36	121.24	46.12	90.61	-711.88	365.32	5,137.64	5,041.74	95.91	53.568	
12,300.00	7,618.00	10,129.55	7,668.30	121.19	49.20	90.67	-952.73	369.09	5,135.65	5,035.62	100.02	51.346	
12,400.00	7,618.00	10,199.00	7,669.78	121.16	50.13	90.69	-1,022.13	371.36	5,132.28	5,030.54	101.74	50.445	
12,500.00	7,618.00	10,239.95	7,670.30	121.14	50.68	90.70	-1,063.06	372.34	5,130.00	5,026.98	103.02	49.798	
12,600.00	7,618.00	10,288.00	7,670.22	121.13	51.32	90.70	-1,111.11	372.13	5,129.57	5,025.16	104.41	49.128	
12,620.65	7,618.00	10,288.00	7,670.22	121.13	51.32	90.70	-1,111.11	372.13	5,129.53	5,024.99	104.55	49.065	
12,700.00	7,618.00	10,288.00	7,670.22	121.13	51.32	90.70	-1,111.11	372.13	5,130.15	5,025.10	105.04	48.839	
12,800.00	7,618.00	12,800.00	7,665.63	121.15	87.55	90.64	-1,360.87	371.71	5,129.54	4,986.82	142.72	35.942	
12,900.00	7,618.00	10,645.00	7,662.62	121.18	56.28	90.61	-1,468.00	373.07	5,127.89	5,015.42	112.47	45.593	
13,000.00	7,618.00	10,734.00	7,659.75	121.23	57.56	90.58	-1,556.94	374.52	5,125.96	5,011.22	114.74	44.675	
13,100.00	7,618.00	10,787.36	7,657.92	121.29	58.34	90.56	-1,610.26	375.14	5,124.75	5,008.41	116.34	44.050	
13,120.17	7,618.00	10,793.64	7,657.70	121.30	58.43	90.56	-1,616.54	375.13	5,124.70	5,008.12	116.58	43.959	
13,200.00	7,618.00	10,823.00	7,656.65	121.37	58.86	90.54	-1,645.88	374.87	5,125.04	5,007.44	117.60	43.581	
13,300.00	7,618.00	13,300.00	7,649.85	121.46	96.25	90.47	-1,825.67	374.49	5,124.68	4,967.95	156.74	32.696	
13,371.78	7,618.00	11,039.53	7,648.27	121.54	62.04	90.45	-1,862.24	374.53	5,124.38	5,001.45	122.93	41.684	
13,400.00	7,618.00	11,051.69	7,647.70	121.57	62.22	90.44	-1,874.39	374.46	5,124.43	5,001.09	123.34	41.549	
13,500.00	7,618.00	11,113.57	7,644.48	121.70	63.14	90.41	-1,936.18	373.65	5,125.28	5,000.11	125.16	40.948	
13,600.00	7,618.00	13,600.00	7,635.07	121.84	101.41	90.30	-2,097.94	372.72	5,125.32	4,960.06	165.26	31.014	
13,636.81	7,618.00	11,305.00	7,633.20	121.90	66.03	90.28	-2,127.27	372.72	5,125.20	4,995.20	130.01	39.423	
13,700.00	7,618.00	11,337.13	7,631.18	122.01	66.52	90.26	-2,159.33	372.50	5,125.40	4,994.36	131.03	39.116	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
13,800.00	7,618.00	11,448.69	7,624.11	122.19	68.22	90.18	-2,270.67	371.31	5,126.14	4,992.11	134.03	38.247	
13,900.00	7,618.00	11,503.32	7,620.44	122.39	69.05	90.14	-2,325.17	370.65	5,126.98	4,991.22	135.76	37.766	
14,000.00	7,618.00	11,562.83	7,616.28	122.62	69.97	90.09	-2,384.52	369.43	5,128.67	4,991.07	137.60	37.273	
14,100.00	7,618.00	11,639.97	7,612.40	122.86	71.15	90.05	-2,461.53	367.29	5,131.07	4,991.21	139.86	36.687	
14,200.00	7,618.00	11,859.12	7,602.31	123.12	74.56	89.94	-2,680.42	363.93	5,132.08	4,986.50	145.58	35.253	
14,300.00	7,618.00	11,981.00	7,596.67	123.41	76.49	89.87	-2,802.16	364.01	5,131.61	4,982.58	149.03	34.433	
14,342.27	7,618.00	12,011.74	7,595.25	123.54	76.97	89.86	-2,832.88	364.08	5,131.42	4,981.44	149.99	34.213	
14,400.00	7,618.00	12,032.04	7,594.24	123.72	77.30	89.85	-2,853.15	363.94	5,131.63	4,980.89	150.74	34.043	
14,500.00	7,618.00	12,071.00	7,592.11	124.06	77.91	89.82	-2,892.04	363.26	5,132.99	4,980.86	152.14	33.739	
14,600.00	7,618.00	12,228.94	7,582.29	124.42	80.42	89.71	-3,049.65	360.84	5,134.14	4,977.59	156.55	32.795	
14,700.00	7,618.00	12,330.91	7,576.84	124.80	82.05	89.65	-3,151.47	359.75	5,134.91	4,975.32	159.58	32.177	
14,800.00	7,618.00	12,506.71	7,573.80	125.21	84.88	89.62	-3,327.23	359.10	5,134.97	4,970.34	164.63	31.191	
14,900.00	7,618.00	12,645.51	7,572.06	125.65	87.15	89.60	-3,466.01	360.18	5,133.85	4,965.09	168.76	30.422	
15,000.00	7,618.00	12,719.67	7,571.11	126.11	88.36	89.59	-3,540.16	361.06	5,132.42	4,961.26	171.16	29.986	
15,082.83	7,618.00	12,752.77	7,570.62	126.52	88.90	89.58	-3,573.26	361.11	5,132.01	4,959.64	172.38	29.772	
15,100.00	7,618.00	12,759.64	7,570.51	126.61	89.01	89.58	-3,580.12	361.08	5,132.03	4,959.40	172.63	29.729	
15,200.00	7,618.00	12,811.95	7,569.70	127.13	89.86	89.57	-3,632.43	360.49	5,132.77	4,958.34	174.42	29.427	
15,300.00	7,618.00	12,890.74	7,569.43	127.68	91.14	89.57	-3,711.20	359.10	5,134.18	4,957.23	176.95	29.014	
15,400.00	7,618.00	13,025.73	7,569.44	128.26	93.35	89.57	-3,846.18	357.03	5,135.38	4,954.31	181.07	28.361	
15,500.00	7,618.00	13,207.93	7,569.39	128.87	96.35	89.57	-4,028.37	356.53	5,135.21	4,948.65	186.56	27.526	
15,598.87	7,618.00	13,268.85	7,570.21	129.50	97.35	89.58	-4,089.28	356.65	5,134.74	4,946.11	188.64	27.220	
15,600.00	7,618.00	13,269.40	7,570.23	129.51	97.36	89.58	-4,089.84	356.64	5,134.74	4,946.09	188.66	27.218	
15,700.00	7,618.00	13,318.96	7,571.72	130.18	98.18	89.60	-4,139.38	356.21	5,135.25	4,944.84	190.41	26.969	
15,800.00	7,618.00	15,800.00	7,578.39	130.88	139.69	89.67	-4,305.59	355.30	5,135.33	4,900.71	234.62	21.888	
15,825.87	7,618.00	13,496.00	7,578.84	131.07	101.12	89.67	-4,316.26	355.29	5,135.28	4,939.31	195.97	26.204	
15,900.00	7,618.00	13,529.46	7,580.13	131.61	101.67	89.69	-4,349.70	355.18	5,135.43	4,938.25	197.18	26.045	
16,000.00	7,618.00	13,585.00	7,581.56	132.37	102.59	89.71	-4,405.20	353.80	5,137.16	4,938.06	199.10	25.802	
16,100.00	7,618.00	13,591.98	7,581.68	133.17	102.71	89.71	-4,412.18	353.53	5,139.79	4,940.23	199.57	25.755	
16,200.00	7,618.00	13,719.41	7,583.69	133.99	104.81	89.73	-4,539.50	348.89	5,143.12	4,939.52	203.60	25.260	
16,300.00	7,618.00	13,894.81	7,584.22	134.84	107.71	89.74	-4,714.84	344.24	5,145.51	4,936.42	209.08	24.610	
16,390.03	7,618.00	14,056.24	7,580.86	135.63	110.42	89.70	-4,876.22	343.31	5,145.37	4,931.24	214.12	24.030	
16,400.00	7,618.00	14,059.84	7,580.77	135.72	110.48	89.70	-4,879.82	343.29	5,145.38	4,931.12	214.26	24.015	
16,500.00	7,618.00	14,120.00	7,579.40	136.63	111.48	89.68	-4,939.96	342.35	5,146.36	4,930.04	216.32	23.790	
16,600.00	7,618.00	16,600.00	7,577.99	137.57	153.17	89.67	-5,008.95	341.03	5,147.85	4,888.36	259.49	19.838	
16,700.00	7,618.00	14,273.50	7,576.95	138.54	114.05	89.65	-5,093.41	339.55	5,149.33	4,927.89	221.44	23.254	
16,800.00	7,618.00	14,398.32	7,577.66	139.53	116.14	89.66	-5,218.19	336.78	5,151.27	4,925.79	225.48	22.846	
16,900.00	7,618.00	14,434.49	7,577.94	140.55	116.75	89.67	-5,254.35	335.83	5,153.37	4,926.57	226.81	22.721	
17,000.00	7,618.00	14,494.74	7,578.78	141.60	117.76	89.68	-5,314.55	333.66	5,156.54	4,927.68	228.86	22.531	
17,100.00	7,618.00	14,772.30	7,579.49	142.67	122.43	89.68	-5,592.02	328.09	5,158.18	4,920.53	237.65	21.705	
17,200.00	7,618.00	15,067.52	7,579.44	143.77	127.47	89.68	-5,887.17	332.94	5,156.09	4,909.20	246.89	20.884	
17,300.00	7,618.00	15,162.42	7,579.98	144.88	129.11	89.69	-5,982.01	336.18	5,152.34	4,902.24	250.10	20.601	
17,400.00	7,618.00	15,303.37	7,580.38	146.02	131.54	89.69	-6,122.87	341.31	5,148.42	4,893.72	254.69	20.214	
17,500.00	7,618.00	15,375.15	7,580.51	147.19	132.78	89.69	-6,194.59	344.09	5,144.19	4,886.97	257.22	19.999	
17,600.00	7,618.00	15,488.19	7,580.51	148.37	134.73	89.69	-6,307.55	348.27	5,140.17	4,879.18	260.99	19.695	
17,700.00	7,618.00	15,571.74	7,580.35	149.57	136.17	89.69	-6,391.05	351.34	5,136.16	4,872.29	263.87	19.465	
17,800.00	7,618.00	15,659.15	7,580.24	150.79	137.68	89.69	-6,478.40	354.52	5,132.20	4,865.33	266.87	19.231	
17,900.00	7,618.00	15,736.00	7,581.84	152.03	139.01	89.71	-6,555.20	356.75	5,128.91	4,859.35	269.56	19.027	
18,000.00	7,618.00	15,736.00	7,581.84	153.29	139.01	89.71	-6,555.20	356.75	5,126.67	4,856.83	269.85	18.999	
18,100.00	7,618.00	15,790.71	7,584.10	154.57	139.95	89.73	-6,609.85	357.43	5,125.42	4,853.61	271.81	18.857	
18,119.69	7,618.00	15,796.68	7,584.41	154.82	140.06	89.74	-6,615.82	357.42	5,125.38	4,853.33	272.04	18.840	
18,200.00	7,618.00	15,825.00	7,586.00	155.86	140.54	89.75	-6,644.09	357.17	5,125.73	4,852.63	273.10	18.769	
18,300.00	7,618.00	15,870.00	7,588.80	157.17	141.31	89.79	-6,689.00	356.25	5,127.29	4,852.58	274.70	18.665	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
18,400.00	7,618.00	15,912.06	7,591.19	158.49	142.02	89.81	-6,730.97	354.98	5,129.88	4,853.70	276.18	18.574	
18,500.00	7,618.00	15,961.94	7,593.30	159.82	142.87	89.84	-6,780.76	352.99	5,133.49	4,855.60	277.89	18.473	
18,600.00	7,618.00	16,062.93	7,596.72	161.17	144.58	89.87	-6,881.60	348.60	5,137.50	4,856.19	281.31	18.263	
18,700.00	7,618.00	16,137.00	7,598.87	162.54	145.83	89.90	-6,955.56	345.10	5,141.87	4,858.06	283.81	18.117	
18,800.00	7,618.00	16,231.77	7,601.34	163.91	147.43	89.93	-7,050.18	340.32	5,146.57	4,859.55	287.01	17.931	
18,900.00	7,618.00	16,361.06	7,604.49	165.30	149.62	89.96	-7,179.29	334.35	5,150.82	4,859.43	291.39	17.677	
19,000.00	7,618.00	16,456.28	7,606.48	166.70	151.24	89.98	-7,274.39	330.10	5,154.94	4,860.33	294.61	17.497	
19,100.00	7,618.00	16,558.62	7,607.82	168.10	152.97	90.00	-7,376.62	325.45	5,159.15	4,861.08	298.07	17.308	
19,200.00	7,618.00	16,649.34	7,608.34	169.52	154.51	90.00	-7,467.24	321.35	5,163.34	4,862.20	301.14	17.146	
19,300.00	7,618.00	16,745.34	7,608.19	170.95	156.14	90.00	-7,563.14	316.81	5,167.73	4,863.34	304.39	16.978	
19,400.00	7,618.00	17,210.03	7,635.40	172.39	164.14	90.30	-8,026.71	310.96	5,168.90	4,849.05	319.84	16.161	
19,500.00	7,618.00	17,382.08	7,643.38	173.84	167.14	90.39	-8,198.51	315.72	5,166.00	4,840.45	325.55	15.869	
19,600.00	7,618.00	17,475.47	7,646.99	175.30	168.78	90.43	-8,291.77	319.09	5,162.08	4,833.27	328.80	15.700	
19,700.00	7,618.00	17,583.00	7,650.55	176.76	170.66	90.47	-8,399.16	323.29	5,157.85	4,825.35	332.50	15.512	
19,800.00	7,618.00	17,583.00	7,650.55	178.24	170.66	90.47	-8,399.16	323.29	5,154.77	4,821.95	332.82	15.488	
19,896.19	7,618.00	17,583.00	7,650.55	179.66	170.66	90.47	-8,399.16	323.29	5,153.63	4,820.61	333.03	15.475	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-53.69	786.89	-1,070.98	1,329.01				
100.00	100.00	90.82	90.82	0.13	0.15	-53.69	786.93	-1,070.91	1,328.95	1,328.66	0.29	4,656.208	
200.00	200.00	191.72	191.72	0.49	0.32	-53.68	787.08	-1,070.68	1,328.85	1,328.04	0.81	1,637.251	
207.08	207.08	198.87	198.87	0.52	0.33	-123.00	787.09	-1,070.66	1,328.85	1,328.00	0.85	1,565.831	CC, ES
300.00	299.98	292.62	292.62	0.85	0.49	-123.03	787.34	-1,070.29	1,329.64	1,328.31	1.33	996.879	
400.00	399.84	392.14	392.14	1.21	0.79	-123.16	787.49	-1,069.93	1,332.30	1,330.31	1.99	669.176	
500.00	499.45	490.91	490.90	1.58	1.13	-123.41	787.03	-1,070.09	1,336.96	1,334.26	2.70	494.975	
600.00	598.70	591.48	591.47	1.97	1.48	-123.79	785.91	-1,070.80	1,343.66	1,340.23	3.43	391.697	
700.00	697.47	738.03	737.93	2.38	1.99	-124.39	785.76	-1,066.81	1,350.06	1,345.72	4.34	311.129	
800.00	795.62	879.73	879.01	2.83	2.51	-124.80	790.13	-1,054.60	1,355.62	1,350.36	5.26	257.512	
900.00	893.06	992.27	990.20	3.31	2.95	-124.96	797.86	-1,039.19	1,361.14	1,355.01	6.13	221.974	
1,000.00	989.64	1,100.44	1,095.85	3.83	3.41	-124.91	810.65	-1,019.90	1,367.99	1,360.94	7.05	193.937	
1,100.00	1,085.27	1,205.03	1,196.63	4.40	3.90	-124.71	827.54	-997.62	1,376.31	1,368.26	8.04	171.099	
1,200.00	1,179.82	1,278.00	1,266.80	5.02	4.27	-124.55	840.21	-982.17	1,387.38	1,378.43	8.95	155.047	
1,300.00	1,273.17	1,448.86	1,430.57	5.70	5.18	-124.57	868.61	-942.71	1,398.10	1,387.69	10.41	134.294	
1,400.00	1,365.21	1,541.07	1,517.92	6.43	5.72	-124.48	885.32	-918.36	1,409.14	1,397.58	11.56	121.881	
1,500.00	1,455.84	1,609.31	1,582.45	7.23	6.14	-124.36	898.82	-900.72	1,423.53	1,410.90	12.63	112.687	
1,600.00	1,544.94	1,693.39	1,662.04	8.09	6.64	-124.30	916.52	-880.20	1,441.71	1,427.87	13.84	104.192	
1,700.00	1,632.39	1,813.07	1,776.08	9.01	7.36	-124.55	939.36	-852.02	1,461.66	1,446.37	15.29	95.623	
1,800.00	1,718.11	1,975.25	1,931.15	10.00	8.32	-125.34	963.63	-811.28	1,480.02	1,463.05	16.98	87.180	
1,900.00	1,801.97	2,062.53	2,014.96	11.07	8.83	-125.78	973.89	-789.19	1,499.05	1,480.79	18.26	82.097	
2,000.00	1,883.88	2,137.41	2,087.00	12.20	9.26	-126.14	983.09	-770.95	1,521.47	1,501.97	19.50	78.027	
2,100.00	1,963.74	2,270.74	2,215.13	13.41	10.04	-127.13	999.67	-738.04	1,546.28	1,525.20	21.07	73.378	
2,200.00	2,041.45	2,344.13	2,285.60	14.69	10.47	-127.53	1,008.13	-719.37	1,572.41	1,550.06	22.35	70.369	
2,300.00	2,116.92	2,400.83	2,340.23	16.05	10.79	-127.72	1,014.96	-705.82	1,602.63	1,579.10	23.53	68.119	
2,357.48	2,159.25	2,438.00	2,376.16	16.86	11.01	-127.88	1,019.69	-697.56	1,622.08	1,597.85	24.23	66.948	
2,400.00	2,190.27	2,458.13	2,395.64	17.47	11.12	-128.14	1,022.35	-693.24	1,637.19	1,612.49	24.70	66.278	
2,500.00	2,263.22	2,520.41	2,455.91	18.92	11.46	-128.94	1,031.18	-680.26	1,674.13	1,648.25	25.88	64.688	
2,600.00	2,336.18	2,580.67	2,514.32	20.37	11.79	-129.68	1,040.20	-668.52	1,713.01	1,686.00	27.02	63.406	
2,700.00	2,409.14	2,771.50	2,697.80	21.84	12.90	-131.76	1,070.90	-626.23	1,750.76	1,721.75	29.02	60.331	
2,800.00	2,482.09	2,825.19	2,749.12	23.31	13.22	-132.29	1,079.63	-613.08	1,786.94	1,756.81	30.13	59.308	
2,900.00	2,555.05	2,949.74	2,869.04	24.78	13.95	-133.58	1,097.72	-584.75	1,824.77	1,793.13	31.64	57.677	
3,000.00	2,628.01	3,047.32	2,962.97	26.27	14.52	-134.59	1,109.58	-561.15	1,860.74	1,827.81	32.93	56.507	
3,100.00	2,700.96	3,129.81	3,042.09	27.75	15.01	-135.38	1,120.87	-540.74	1,897.13	1,862.99	34.14	55.570	
3,200.00	2,773.92	3,180.61	3,090.82	29.24	15.31	-135.83	1,128.48	-528.56	1,934.90	1,899.77	35.13	55.075	
3,300.00	2,846.88	3,247.36	3,155.21	30.73	15.70	-136.44	1,138.28	-513.94	1,974.64	1,938.45	36.19	54.557	
3,400.00	2,919.83	3,400.00	3,283.63	32.23	16.59	-137.60	1,157.27	-483.17	2,013.57	1,975.80	37.77	53.307	
3,500.00	2,992.79	3,453.06	3,353.32	33.72	16.89	-138.25	1,165.92	-466.11	2,052.04	2,013.33	38.71	53.013	
3,600.00	3,065.75	3,510.90	3,409.49	35.22	17.21	-138.78	1,172.23	-453.86	2,092.50	2,052.89	39.61	52.822	
3,700.00	3,138.71	3,600.24	3,496.00	36.72	17.71	-139.52	1,183.96	-434.90	2,133.86	2,093.13	40.72	52.398	
3,800.00	3,211.66	3,711.49	3,602.99	38.22	18.36	-140.33	1,201.16	-409.74	2,174.77	2,132.75	42.03	51.745	
3,900.00	3,284.62	3,835.60	3,722.13	39.72	19.10	-141.20	1,219.78	-380.37	2,214.97	2,171.56	43.41	51.025	
4,000.00	3,357.58	3,879.18	3,764.03	41.22	19.34	-141.50	1,225.95	-370.10	2,255.35	2,211.15	44.20	51.027	
4,100.00	3,430.53	3,917.74	3,801.40	42.73	19.55	-141.79	1,230.88	-362.00	2,297.86	2,252.95	44.91	51.166	
4,200.00	3,503.49	3,962.00	3,844.61	44.23	19.79	-142.13	1,235.93	-353.87	2,342.50	2,296.88	45.62	51.351	
4,300.00	3,576.45	4,090.46	3,969.92	45.74	20.46	-143.08	1,251.23	-330.09	2,387.65	2,340.76	46.88	50.926	
4,400.00	3,649.40	4,313.36	4,183.74	47.25	21.79	-144.33	1,287.47	-278.89	2,430.17	2,381.18	48.99	49.609	
4,500.00	3,722.36	4,381.00	4,248.19	48.75	22.21	-144.68	1,298.37	-261.49	2,469.89	2,419.95	49.94	49.455	
4,600.00	3,795.32	4,469.71	4,333.24	50.26	22.75	-145.17	1,310.95	-239.66	2,510.45	2,459.44	51.00	49.220	
4,700.00	3,868.27	4,553.69	4,413.59	51.77	23.26	-145.61	1,323.54	-218.70	2,550.97	2,498.93	52.04	49.021	
4,800.00	3,941.23	4,608.67	4,466.15	53.28	23.60	-145.88	1,332.38	-205.22	2,592.27	2,539.41	52.86	49.041	
4,900.00	4,014.19	4,648.11	4,504.05	54.79	23.83	-146.07	1,338.63	-196.30	2,635.27	2,581.74	53.53	49.226	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
5,000.00	4,087.15	4,693.01	4,547.43	56.30	24.09	-146.30	1,345.56	-187.01	2,680.00	2,625.79	54.22	49.429	
5,100.00	4,160.10	4,751.55	4,604.13	57.81	24.41	-146.59	1,354.53	-175.58	2,725.95	2,670.96	54.99	49.573	
5,200.00	4,233.06	5,200.00	4,876.04	59.32	27.00	-148.07	1,388.66	-111.21	2,767.20	2,709.14	58.06	47.663	
5,300.00	4,306.02	5,096.32	4,936.70	60.83	26.39	-148.39	1,395.96	-95.21	2,807.92	2,749.84	58.08	48.347	
5,400.00	4,378.97	5,148.54	4,987.03	62.34	26.69	-148.65	1,402.08	-82.69	2,849.95	2,791.17	58.78	48.482	
5,500.00	4,451.93	5,209.00	5,045.42	63.85	27.04	-148.94	1,409.67	-68.98	2,893.28	2,833.75	59.54	48.598	
5,600.00	4,524.89	5,247.21	5,082.40	65.36	27.25	-149.11	1,414.71	-60.78	2,937.85	2,877.73	60.12	48.870	
5,700.00	4,597.84	5,298.00	5,131.67	66.88	27.53	-149.33	1,421.62	-50.54	2,983.77	2,923.00	60.77	49.097	
5,800.00	4,670.80	5,419.98	5,249.93	68.39	28.20	-149.85	1,438.54	-25.91	3,029.89	2,967.90	61.99	48.878	
5,900.00	4,743.76	5,574.61	5,399.01	69.90	29.09	-150.44	1,461.63	7.99	3,074.67	3,011.18	63.49	48.427	
6,000.00	4,816.71	5,675.84	5,496.37	71.41	29.68	-150.82	1,475.61	31.90	3,117.81	3,053.26	64.55	48.304	
6,100.00	4,889.67	5,718.65	5,537.62	72.93	29.93	-150.98	1,481.67	41.63	3,161.90	3,096.75	65.16	48.528	
6,200.00	4,962.63	5,780.34	5,597.28	74.44	30.28	-151.21	1,490.16	54.81	3,207.24	3,141.35	65.89	48.675	
6,300.00	5,035.59	5,940.45	5,752.21	75.95	31.18	-151.84	1,509.45	90.27	3,251.96	3,184.64	67.32	48.307	
6,400.00	5,108.54	5,987.91	5,797.99	77.47	31.45	-152.01	1,515.75	101.07	3,296.26	3,228.32	67.94	48.515	
6,500.00	5,181.50	6,046.03	5,854.09	78.98	31.78	-152.20	1,524.26	113.66	3,341.64	3,272.99	68.66	48.673	
6,600.00	5,254.46	6,099.00	5,905.21	80.49	32.09	-152.36	1,532.46	124.86	3,387.72	3,318.39	69.32	48.868	
6,700.00	5,327.41	6,145.72	5,950.41	82.01	32.34	-152.50	1,539.65	134.23	3,434.83	3,364.91	69.92	49.123	
6,800.00	5,400.37	6,188.00	5,991.52	83.52	32.57	-152.64	1,545.77	142.00	3,483.26	3,412.80	70.46	49.433	
6,900.00	5,473.33	6,365.23	6,164.54	85.04	33.47	-153.36	1,561.87	176.53	3,530.29	3,458.38	71.91	49.092	
7,000.00	5,546.28	6,610.11	6,402.03	86.55	34.80	-154.34	1,580.93	232.70	3,573.91	3,500.21	73.71	48.488	
7,100.00	5,619.24	6,634.00	6,424.94	88.06	34.94	-154.40	1,584.32	238.60	3,617.61	3,543.46	74.15	48.791	
7,200.00	5,692.20	7,222.39	6,980.60	89.58	38.68	-156.10	1,653.32	408.80	3,658.93	3,580.77	78.16	46.812	
7,300.00	5,765.15	7,258.00	7,013.78	91.09	38.88	-156.34	1,648.40	420.72	3,692.27	3,613.67	78.60	46.973	
7,400.00	5,838.11	7,258.00	7,013.78	92.61	38.88	-156.34	1,648.40	420.72	3,727.48	3,648.46	79.02	47.171	
7,500.00	5,911.07	7,258.00	7,013.78	94.12	38.88	-156.34	1,648.40	420.72	3,765.01	3,685.62	79.39	47.427	
7,600.00	5,984.03	7,296.17	7,049.45	95.64	39.01	-156.62	1,640.94	432.03	3,803.65	3,724.00	79.65	47.752	
7,700.00	6,056.98	7,309.29	7,061.74	97.15	39.06	-156.73	1,637.85	435.45	3,844.69	3,764.77	79.92	48.108	
7,800.00	6,129.94	7,348.00	7,097.92	98.67	39.19	-157.07	1,627.18	444.11	3,888.15	3,808.06	80.09	48.550	
7,900.00	6,202.90	7,348.00	7,097.92	100.18	39.19	-157.07	1,627.18	444.11	3,932.51	3,852.21	80.30	48.971	
8,000.00	6,275.85	7,348.00	7,097.92	101.70	39.19	-157.07	1,627.18	444.11	3,978.89	3,898.41	80.48	49.439	
8,100.00	6,348.81	7,348.00	7,097.92	103.21	39.19	-157.07	1,627.18	444.11	4,027.23	3,946.60	80.62	49.952	
8,200.00	6,421.77	7,348.00	7,097.92	104.73	39.19	-157.07	1,627.18	444.11	4,077.44	3,996.71	80.73	50.509	
8,300.00	6,494.72	7,348.00	7,097.92	106.24	39.19	-157.07	1,627.18	444.11	4,129.46	4,048.66	80.80	51.108	
8,400.00	6,567.68	7,393.73	7,140.31	107.76	39.25	-157.50	1,611.90	451.80	4,181.72	4,100.96	80.75	51.784	
8,500.00	6,640.64	7,437.00	7,179.86	109.27	39.31	-157.93	1,595.06	456.72	4,237.10	4,156.43	80.67	52.524	
8,600.00	6,713.59	7,437.00	7,179.86	110.79	39.31	-157.93	1,595.06	456.72	4,292.78	4,212.09	80.68	53.205	
8,700.00	6,786.55	7,437.00	7,179.86	112.30	39.31	-157.93	1,595.06	456.72	4,350.04	4,269.37	80.67	53.921	
8,800.00	6,859.51	7,437.00	7,179.86	113.82	39.31	-157.93	1,595.06	456.72	4,408.83	4,328.19	80.64	54.672	
8,900.00	6,932.46	7,437.00	7,179.86	115.33	39.31	-157.93	1,595.06	456.72	4,469.09	4,388.50	80.59	55.454	
9,000.00	7,005.42	7,437.00	7,179.86	116.85	39.31	-157.93	1,595.06	456.72	4,530.75	4,450.23	80.52	56.268	
9,104.89	7,081.95	7,475.86	7,214.89	118.44	39.32	-158.34	1,578.48	459.55	4,596.14	4,515.79	80.35	57.204	
9,150.00	7,115.15	7,481.98	7,220.37	119.12	39.32	-166.89	1,575.79	459.90	4,624.89	4,544.60	80.30	57.597	
9,200.00	7,152.46	7,489.16	7,226.80	119.86	39.32	-176.72	1,572.60	460.28	4,657.14	4,576.89	80.25	58.033	
9,250.00	7,190.04	7,686.68	7,396.97	120.57	39.33	172.00	1,473.58	473.25	4,689.82	4,610.20	79.62	58.901	
9,300.00	7,227.59	7,714.29	7,419.51	121.25	39.33	162.28	1,457.85	475.79	4,720.58	4,641.08	79.50	59.375	
9,350.00	7,264.83	8,106.01	7,639.04	121.89	39.09	149.72	1,148.21	531.02	4,748.57	4,671.69	76.87	61.770	
9,400.00	7,301.48	8,113.39	7,641.08	122.48	39.08	141.42	1,141.23	532.31	4,775.50	4,698.68	76.81	62.170	
9,450.00	7,337.26	8,149.00	7,650.10	123.01	39.07	133.45	1,107.28	538.11	4,801.68	4,725.13	76.55	62.728	
9,500.00	7,371.90	8,149.00	7,650.10	123.49	39.07	126.54	1,107.28	538.11	4,826.19	4,749.65	76.54	63.056	
9,550.00	7,405.13	8,149.00	7,650.10	123.91	39.07	120.32	1,107.28	538.11	4,849.33	4,772.80	76.53	63.362	
9,600.00	7,436.70	8,149.00	7,650.10	124.27	39.07	114.79	1,107.28	538.11	4,870.96	4,794.42	76.54	63.641	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,650.00	7,466.36	8,149.00	7,650.10	124.57	39.07	109.94	1,107.28	538.11	4,890.93	4,814.37	76.56	63.887	
9,700.00	7,493.91	8,149.00	7,650.10	124.81	39.07	105.72	1,107.28	538.11	4,909.11	4,832.52	76.59	64.096	
9,750.00	7,519.11	8,149.00	7,650.10	125.00	39.07	102.10	1,107.28	538.11	4,925.37	4,848.73	76.65	64.261	
9,800.00	7,541.79	8,185.86	7,658.25	125.12	39.02	98.92	1,071.70	543.21	4,938.96	4,862.50	76.46	64.599	
9,850.00	7,561.77	8,195.58	7,660.21	125.20	39.01	96.38	1,062.25	544.38	4,950.71	4,874.22	76.49	64.726	
9,900.00	7,578.90	8,238.00	7,667.91	125.23	38.98	94.28	1,020.76	548.63	4,960.69	4,884.40	76.30	65.017	
9,950.00	7,593.04	8,238.00	7,667.91	125.22	38.98	92.73	1,020.76	548.63	4,967.54	4,891.08	76.46	64.968	
10,000.00	7,604.09	8,238.00	7,667.91	125.17	38.98	91.62	1,020.76	548.63	4,972.08	4,895.42	76.67	64.854	
10,050.00	7,611.97	8,238.00	7,667.91	125.08	38.98	90.92	1,020.76	548.63	4,974.30	4,897.38	76.92	64.673	
10,100.00	7,616.61	8,257.47	7,671.08	124.97	38.96	90.64	1,001.61	550.21	4,974.10	4,897.04	77.06	64.548	
10,145.95	7,618.00	8,280.11	7,674.67	124.84	38.93	90.77	979.32	551.96	4,971.64	4,894.45	77.19	64.406	
10,200.00	7,618.00	8,306.65	7,678.76	124.69	38.91	90.82	953.18	553.88	4,967.62	4,890.25	77.37	64.206	
10,300.00	7,618.00	8,360.34	7,686.54	124.41	38.86	90.91	900.17	557.36	4,960.94	4,883.23	77.71	63.840	
10,400.00	7,618.00	8,417.00	7,693.68	124.14	38.84	90.99	844.05	560.54	4,955.16	4,877.09	78.06	63.479	
10,500.00	7,618.00	8,417.00	7,693.68	123.88	38.84	90.99	844.05	560.54	4,950.82	4,871.98	78.84	62.797	
10,600.00	7,618.00	8,453.61	7,697.39	123.63	38.81	91.04	807.66	561.84	4,947.76	4,868.36	79.40	62.314	
10,700.00	7,618.00	8,506.00	7,700.82	123.40	38.79	91.08	755.39	561.56	4,947.18	4,867.32	79.86	61.951	
10,753.53	7,618.00	8,506.00	7,700.82	123.28	38.79	91.08	755.39	561.56	4,946.89	4,866.56	80.32	61.587	
10,800.00	7,618.00	8,506.00	7,700.82	123.18	38.79	91.08	755.39	561.56	4,947.10	4,866.38	80.72	61.284	
10,900.00	7,618.00	8,506.00	7,700.82	122.96	38.79	91.08	755.39	561.56	4,949.05	4,867.42	81.63	60.625	
11,000.00	7,618.00	8,538.53	7,702.13	122.76	38.76	91.09	722.90	560.34	4,952.65	4,870.34	82.30	60.175	
11,100.00	7,618.00	8,595.00	7,703.72	122.57	38.73	91.11	666.56	556.93	4,957.97	4,875.15	82.82	59.864	
11,200.00	7,618.00	8,597.12	7,703.76	122.39	38.73	91.11	664.45	556.77	4,964.17	4,880.39	83.77	59.256	
11,300.00	7,618.00	9,083.86	7,716.27	122.23	39.61	91.25	178.44	538.19	4,968.72	4,885.43	83.29	59.654	
11,392.49	7,618.00	9,142.44	7,716.63	122.08	39.91	91.25	119.86	538.17	4,968.45	4,884.32	84.14	59.051	
11,400.00	7,618.00	9,146.81	7,716.67	122.07	39.93	91.25	115.49	538.15	4,968.46	4,884.25	84.21	59.003	
11,500.00	7,618.00	9,218.00	7,717.34	121.93	40.33	91.26	44.31	537.47	4,969.04	4,883.84	85.20	58.322	
11,600.00	7,618.00	9,603.86	7,717.82	121.79	43.51	91.27	-341.36	546.49	4,964.92	4,876.36	88.56	56.062	
11,700.00	7,618.00	9,719.23	7,715.95	121.67	44.72	91.25	-456.57	552.16	4,959.62	4,869.22	90.40	54.863	
11,800.00	7,618.00	9,779.57	7,714.79	121.56	45.38	91.24	-516.83	555.05	4,954.54	4,862.84	91.70	54.032	
11,900.00	7,618.00	9,842.00	7,714.44	121.46	46.08	91.23	-579.22	557.11	4,950.69	4,857.64	93.05	53.202	
12,000.00	7,618.00	9,907.76	7,714.60	121.38	46.83	91.24	-644.96	558.81	4,947.59	4,853.09	94.50	52.356	
12,100.00	7,618.00	9,931.00	7,714.64	121.30	47.10	91.24	-668.19	559.47	4,945.06	4,849.65	95.41	51.828	
12,200.00	7,618.00	9,975.83	7,714.66	121.24	47.61	91.24	-713.01	560.15	4,943.68	4,847.05	96.62	51.164	
12,229.00	7,618.00	9,982.92	7,714.66	121.23	47.69	91.24	-720.11	560.14	4,943.61	4,846.71	96.91	51.015	
12,300.00	7,618.00	10,020.00	7,714.61	121.19	48.12	91.24	-757.18	559.58	4,944.16	4,846.32	97.84	50.535	
12,400.00	7,618.00	10,038.87	7,714.58	121.16	48.34	91.24	-776.04	559.08	4,945.82	4,847.09	98.73	50.093	
12,500.00	7,618.00	10,133.36	7,714.25	121.14	49.44	91.23	-870.50	556.53	4,948.18	4,847.52	100.66	49.159	
12,600.00	7,618.00	10,234.61	7,713.39	121.13	50.67	91.22	-971.70	553.61	4,950.71	4,847.97	102.74	48.186	
12,700.00	7,618.00	12,700.00	7,710.15	121.13	84.64	91.18	-1,180.09	550.17	4,951.95	4,813.90	138.04	35.873	
12,800.00	7,618.00	10,517.78	7,709.34	121.15	54.30	91.17	-1,254.80	549.78	4,952.19	4,843.68	108.51	45.639	
12,900.00	7,618.00	10,622.73	7,708.35	121.18	55.70	91.16	-1,359.74	548.24	4,953.33	4,842.39	110.94	44.648	
13,000.00	7,618.00	10,765.57	7,704.93	121.23	57.67	91.12	-1,502.53	547.74	4,953.18	4,839.03	114.16	43.389	
13,046.18	7,618.00	10,800.28	7,703.79	121.25	58.15	91.11	-1,537.23	547.65	4,953.13	4,838.06	115.07	43.043	
13,100.00	7,618.00	10,822.00	7,703.07	121.29	58.46	91.10	-1,558.93	547.54	4,953.25	4,837.48	115.77	42.785	
13,200.00	7,618.00	10,877.44	7,702.03	121.37	59.23	91.09	-1,614.36	546.87	4,954.21	4,836.82	117.38	42.205	
13,300.00	7,618.00	10,926.64	7,702.39	121.46	59.92	91.09	-1,663.54	545.66	4,956.31	4,837.42	118.89	41.689	
13,400.00	7,618.00	11,000.00	7,703.93	121.57	60.95	91.11	-1,736.84	543.25	4,959.25	4,838.35	120.90	41.019	
13,500.00	7,618.00	11,119.82	7,707.91	121.70	62.66	91.15	-1,856.53	539.35	4,962.25	4,838.31	123.94	40.038	
13,600.00	7,618.00	11,397.57	7,715.95	121.84	66.75	91.25	-2,134.11	537.59	4,961.61	4,830.95	130.66	37.974	
13,700.00	7,618.00	11,495.78	7,717.36	122.01	68.24	91.26	-2,232.32	538.05	4,960.83	4,827.43	133.41	37.186	
13,800.00	7,618.00	11,606.04	7,718.57	122.19	69.92	91.28	-2,342.56	538.75	4,959.88	4,823.41	136.47	36.344	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
13,900.00	7,618.00	11,684.03	7,719.01	122.39	71.11	91.28	-2,420.55	539.19	4,959.02	4,820.23	138.78	35.733	
13,992.37	7,618.00	11,746.87	7,718.99	122.60	72.08	91.28	-2,483.39	539.18	4,958.73	4,818.03	140.70	35.244	
14,000.00	7,618.00	11,751.83	7,718.98	122.62	72.15	91.28	-2,488.35	539.16	4,958.73	4,817.88	140.85	35.206	
14,100.00	7,618.00	11,894.73	7,718.17	122.86	74.36	91.27	-2,631.25	538.60	4,958.96	4,814.16	144.80	34.247	
14,200.00	7,618.00	11,971.45	7,717.22	123.12	75.56	91.26	-2,707.96	538.73	4,958.41	4,811.29	147.12	33.702	
14,300.00	7,618.00	12,058.76	7,715.76	123.41	76.92	91.25	-2,795.26	538.58	4,958.21	4,808.48	149.73	33.115	
14,400.00	7,618.00	12,216.50	7,712.87	123.72	79.41	91.21	-2,952.97	539.26	4,957.31	4,803.12	154.19	32.151	
14,500.00	7,618.00	12,307.57	7,710.96	124.06	80.86	91.19	-3,044.02	540.01	4,956.11	4,799.17	156.94	31.579	
14,600.00	7,618.00	12,366.30	7,709.39	124.42	81.80	91.17	-3,102.72	540.26	4,955.37	4,796.52	158.85	31.196	
14,621.15	7,618.00	12,375.76	7,709.16	124.49	81.95	91.17	-3,112.18	540.23	4,955.34	4,796.17	159.17	31.132	
14,700.00	7,618.00	12,426.00	7,708.09	124.80	82.75	91.16	-3,162.41	539.73	4,955.74	4,794.97	160.77	30.824	
14,800.00	7,618.00	12,469.84	7,707.38	125.21	83.44	91.15	-3,206.24	538.92	4,957.03	4,794.76	162.27	30.548	
14,900.00	7,618.00	12,562.70	7,706.86	125.65	84.91	91.14	-3,299.06	536.75	4,959.00	4,793.90	165.10	30.036	
15,000.00	7,618.00	12,734.90	7,708.95	126.11	87.67	91.17	-3,471.24	534.75	4,959.66	4,789.47	170.19	29.142	
15,100.00	7,618.00	13,005.93	7,710.59	126.61	92.10	91.19	-3,742.18	539.00	4,956.79	4,778.65	178.14	27.825	
15,200.00	7,618.00	13,049.00	7,710.59	127.13	92.81	91.19	-3,785.24	539.93	4,954.30	4,774.62	179.68	27.574	
15,300.00	7,618.00	13,103.77	7,710.53	127.68	93.71	91.19	-3,840.02	540.56	4,952.84	4,771.31	181.53	27.284	
15,400.00	7,618.00	15,400.00	7,710.47	128.26	131.72	91.19	-3,940.05	541.10	4,951.96	4,730.55	221.41	22.365	
15,500.00	7,618.00	13,269.53	7,710.58	128.87	96.43	91.19	-4,005.76	541.52	4,951.10	4,764.24	186.87	26.496	
15,524.09	7,618.00	13,278.90	7,710.70	129.02	96.58	91.19	-4,015.13	541.50	4,951.07	4,763.87	187.20	26.448	
15,600.00	7,618.00	13,317.00	7,711.51	129.51	97.21	91.20	-4,053.22	541.16	4,951.44	4,762.94	188.50	26.267	
15,700.00	7,618.00	13,395.18	7,713.89	130.18	98.49	91.23	-4,131.36	540.00	4,952.60	4,761.55	191.05	25.923	
15,800.00	7,618.00	13,519.98	7,717.84	130.88	100.54	91.27	-4,256.09	538.47	4,953.56	4,758.56	195.00	25.403	
15,900.00	7,618.00	13,771.37	7,724.30	131.61	104.71	91.35	-4,507.38	539.30	4,953.27	4,750.50	202.77	24.427	
16,000.00	7,618.00	13,892.88	7,726.76	132.37	106.75	91.38	-4,628.83	541.97	4,950.81	4,744.12	206.68	23.954	
16,100.00	7,618.00	13,940.00	7,727.43	133.17	107.55	91.38	-4,675.93	543.21	4,948.24	4,739.89	208.35	23.749	
16,200.00	7,618.00	13,993.05	7,728.03	133.99	108.44	91.39	-4,728.98	544.06	4,946.64	4,736.45	210.19	23.534	
16,300.00	7,618.00	14,177.45	7,729.84	134.84	111.53	91.41	-4,913.33	546.49	4,945.00	4,728.96	216.03	22.890	
16,400.00	7,618.00	14,230.74	7,730.26	135.72	112.43	91.42	-4,966.61	547.38	4,943.01	4,725.12	217.89	22.686	
16,500.00	7,618.00	14,297.00	7,730.67	136.63	113.55	91.42	-5,032.87	547.82	4,941.95	4,721.82	220.13	22.450	
16,541.80	7,618.00	14,297.00	7,730.67	137.02	113.55	91.42	-5,032.87	547.82	4,941.78	4,721.57	220.21	22.441	
16,600.00	7,618.00	14,324.33	7,730.79	137.57	114.00	91.42	-5,060.20	547.71	4,941.90	4,720.75	221.15	22.346	
16,700.00	7,618.00	14,358.48	7,730.85	138.54	114.57	91.42	-5,094.34	547.15	4,943.19	4,720.83	222.35	22.231	
16,800.00	7,618.00	14,402.88	7,730.80	139.53	115.31	91.42	-5,138.72	545.80	4,945.79	4,721.93	223.85	22.094	
16,900.00	7,618.00	14,549.03	7,730.62	140.55	117.74	91.42	-5,284.79	540.99	4,948.90	4,720.30	228.59	21.649	
17,000.00	7,618.00	14,762.51	7,730.32	141.60	121.32	91.42	-5,498.26	538.75	4,949.27	4,713.79	235.48	21.017	
17,100.00	7,618.00	14,978.04	7,729.37	142.67	124.98	91.41	-5,713.77	540.40	4,948.39	4,705.97	242.42	20.412	
17,200.00	7,618.00	15,054.14	7,729.08	143.77	126.27	91.40	-5,789.85	542.10	4,945.90	4,700.89	245.01	20.187	
17,300.00	7,618.00	15,102.78	7,728.80	144.88	127.10	91.40	-5,838.49	542.64	4,944.42	4,697.70	246.72	20.041	
17,400.00	7,618.00	15,163.00	7,728.33	146.02	128.12	91.39	-5,898.70	542.62	4,944.01	4,695.22	248.78	19.873	
17,500.00	7,618.00	15,402.24	7,732.04	147.19	132.21	91.44	-6,137.85	546.60	4,941.49	4,684.91	256.58	19.259	
17,600.00	7,618.00	15,486.20	7,733.74	148.37	133.65	91.46	-6,221.77	548.64	4,938.75	4,679.31	259.44	19.036	
17,700.00	7,618.00	15,602.44	7,736.03	149.57	135.65	91.49	-6,337.96	551.51	4,936.01	4,672.68	263.34	18.744	
17,800.00	7,618.00	15,665.33	7,737.35	150.79	136.73	91.50	-6,400.81	553.00	4,933.38	4,667.85	265.53	18.579	
17,900.00	7,618.00	15,723.33	7,738.55	152.03	137.73	91.52	-6,458.79	553.89	4,931.58	4,664.01	267.56	18.431	
18,000.00	7,618.00	15,786.00	7,739.84	153.29	138.80	91.53	-6,521.45	554.26	4,930.66	4,660.93	269.73	18.280	
18,058.56	7,618.00	15,806.76	7,740.26	154.04	139.15	91.54	-6,542.20	554.22	4,930.55	4,660.09	270.46	18.230	
18,100.00	7,618.00	15,825.38	7,740.63	154.57	139.47	91.54	-6,560.82	554.09	4,930.71	4,659.60	271.11	18.187	
18,200.00	7,618.00	15,875.00	7,741.59	155.86	140.32	91.55	-6,610.42	553.34	4,931.89	4,659.09	272.80	18.079	
18,300.00	7,618.00	15,911.53	7,742.28	157.17	140.93	91.56	-6,646.94	552.37	4,934.20	4,660.19	274.02	18.007	
18,400.00	7,618.00	15,964.00	7,743.28	158.49	141.82	91.57	-6,699.35	550.28	4,937.76	4,662.01	275.75	17.907	
18,500.00	7,618.00	16,255.88	7,745.72	159.82	146.77	91.60	-6,991.11	543.32	4,940.08	4,654.48	285.60	17.297	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
18,500.46	7,618.00	16,256.29	7,745.72	159.83	146.78	91.60	-6,991.52	543.31	4,940.08	4,654.47	285.61	17.297	
18,600.00	7,618.00	16,340.80	7,745.99	161.17	148.23	91.60	-7,076.02	542.95	4,940.19	4,651.72	288.48	17.125	
18,700.00	7,618.00	16,414.08	7,746.21	162.54	149.48	91.60	-7,149.30	542.27	4,940.79	4,649.82	290.97	16.980	
18,800.00	7,618.00	16,530.78	7,746.53	163.91	151.48	91.61	-7,265.99	541.17	4,941.38	4,646.47	294.91	16.755	
18,900.00	7,618.00	16,640.51	7,746.65	165.30	153.36	91.61	-7,375.73	540.26	4,941.89	4,643.26	298.63	16.548	
19,000.00	7,618.00	16,755.56	7,747.01	166.70	155.33	91.61	-7,490.78	539.75	4,941.99	4,639.46	302.53	16.335	
19,100.00	7,618.00	16,833.72	7,747.24	168.10	156.67	91.61	-7,568.93	539.35	4,942.19	4,636.99	305.20	16.193	
19,200.00	7,618.00	16,924.41	7,747.45	169.52	158.23	91.62	-7,659.62	538.51	4,942.78	4,634.50	308.28	16.033	
19,300.00	7,618.00	17,023.70	7,747.36	170.95	159.93	91.62	-7,758.91	537.53	4,943.43	4,631.77	311.66	15.862	
19,400.00	7,618.00	17,127.91	7,746.75	172.39	161.72	91.61	-7,863.10	536.53	4,944.04	4,628.84	315.20	15.685	
19,500.00	7,618.00	17,232.67	7,745.43	173.84	163.52	91.59	-7,967.85	535.51	4,944.64	4,625.87	318.76	15.512	
19,600.00	7,618.00	17,328.65	7,743.82	175.30	165.17	91.57	-8,063.82	534.95	4,944.85	4,622.82	322.03	15.355	
19,700.00	7,618.00	17,390.00	7,743.33	176.76	166.23	91.57	-8,125.16	533.96	4,945.99	4,621.87	324.11	15.260	
19,800.00	7,618.00	17,503.48	7,743.34	178.24	168.17	91.57	-8,238.62	532.11	4,947.30	4,619.31	327.99	15.084	
19,896.19	7,618.00	17,568.80	7,743.51	179.66	169.30	91.57	-8,303.93	530.99	4,948.62	4,618.41	330.21	14.986	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-53.44	786.88	-1,060.90	1,320.90				
100.00	100.00	83.19	83.19	0.13	0.14	-53.43	787.08	-1,061.01	1,321.10	1,320.82	0.27	4,827.913	ES
200.00	200.00	175.61	175.60	0.49	0.29	-53.42	787.78	-1,061.42	1,321.90	1,321.11	0.79	1,681.954	
300.00	299.98	267.99	267.98	0.85	0.45	-122.73	788.98	-1,062.11	1,324.22	1,322.92	1.30	1,022.472	
400.00	399.84	361.93	361.89	1.21	0.69	-122.80	790.67	-1,063.11	1,328.97	1,327.07	1.90	700.830	
500.00	499.45	457.59	457.53	1.58	1.03	-122.94	792.61	-1,064.35	1,335.96	1,333.35	2.61	512.118	
600.00	598.70	552.85	552.75	1.97	1.38	-123.17	794.70	-1,065.81	1,345.18	1,341.85	3.33	403.784	
700.00	697.47	679.02	678.83	2.38	1.83	-123.56	798.87	-1,065.89	1,355.92	1,351.75	4.18	324.639	
800.00	795.62	825.44	824.59	2.83	2.36	-123.82	808.82	-1,056.79	1,365.45	1,360.33	5.12	266.486	
900.00	893.06	1,037.38	1,033.15	3.31	3.20	-123.95	828.38	-1,025.22	1,371.31	1,364.92	6.39	214.640	
1,000.00	989.64	1,213.91	1,203.34	3.83	4.05	-123.89	845.27	-981.66	1,370.43	1,362.78	7.65	179.226	
1,041.97	1,029.91	1,253.49	1,241.13	4.07	4.26	-123.87	849.59	-970.71	1,370.22	1,362.16	8.06	170.061	
1,100.00	1,085.27	1,299.22	1,284.69	4.40	4.51	-123.84	855.05	-957.93	1,370.72	1,362.13	8.60	159.460	
1,200.00	1,179.82	1,367.00	1,349.49	5.02	4.89	-123.81	863.82	-940.06	1,374.95	1,365.44	9.51	144.530	
1,300.00	1,273.17	1,492.68	1,469.76	5.70	5.61	-123.93	880.28	-907.53	1,381.74	1,370.98	10.76	128.373	
1,400.00	1,365.21	1,599.87	1,571.53	6.43	6.25	-124.07	894.30	-876.93	1,388.11	1,376.12	11.99	115.776	
1,500.00	1,455.84	1,669.62	1,637.68	7.23	6.68	-124.12	904.54	-857.34	1,397.83	1,384.76	13.07	106.953	
1,600.00	1,544.94	1,737.63	1,702.50	8.09	7.09	-124.18	915.29	-839.79	1,411.96	1,397.78	14.17	99.622	
1,700.00	1,632.39	1,842.32	1,802.19	9.01	7.73	-124.45	932.83	-813.08	1,428.95	1,413.42	15.53	92.015	
1,800.00	1,718.11	1,960.29	1,914.23	10.00	8.47	-124.88	952.13	-781.61	1,446.82	1,429.81	17.01	85.058	
1,900.00	1,801.97	2,083.73	2,031.85	11.07	9.23	-125.54	969.34	-748.38	1,465.45	1,446.92	18.53	79.083	
2,000.00	1,883.88	2,153.26	2,098.33	12.20	9.65	-125.85	978.32	-730.05	1,486.29	1,466.53	19.76	75.208	
2,100.00	1,963.74	2,263.66	2,203.99	13.41	10.32	-126.59	992.65	-701.47	1,510.01	1,488.77	21.24	71.102	
2,200.00	2,041.45	2,325.84	2,263.62	14.69	10.70	-126.86	1,000.56	-685.72	1,536.44	1,513.99	22.45	68.430	
2,300.00	2,116.92	2,436.53	2,370.08	16.05	11.35	-127.75	1,014.16	-658.64	1,566.11	1,542.17	23.94	65.430	
2,357.48	2,159.25	2,472.56	2,404.76	16.86	11.56	-127.92	1,018.27	-649.78	1,584.05	1,559.42	24.63	64.305	
2,400.00	2,190.27	2,499.43	2,430.68	17.47	11.71	-128.29	1,021.36	-643.39	1,598.01	1,572.87	25.15	63.550	
2,500.00	2,263.22	2,564.95	2,494.04	18.92	12.08	-129.16	1,028.99	-628.55	1,632.29	1,605.95	26.34	61.982	
2,600.00	2,336.18	2,623.75	2,551.10	20.37	12.40	-129.94	1,035.80	-616.10	1,668.47	1,641.03	27.44	60.796	
2,700.00	2,409.14	2,684.00	2,609.84	21.84	12.71	-130.74	1,042.89	-604.74	1,707.08	1,678.56	28.52	59.859	
2,800.00	2,482.09	2,762.75	2,686.98	23.31	13.10	-131.79	1,051.03	-591.16	1,747.23	1,717.59	29.64	58.947	
2,900.00	2,555.05	2,860.86	2,783.30	24.78	13.57	-133.12	1,059.22	-574.38	1,787.58	1,756.76	30.82	58.003	
3,000.00	2,628.01	2,971.55	2,891.78	26.27	14.11	-134.54	1,068.07	-554.28	1,827.63	1,795.59	32.04	57.037	
3,100.00	2,700.96	3,075.58	2,993.26	27.75	14.65	-135.76	1,077.86	-533.57	1,867.26	1,834.01	33.25	56.162	
3,200.00	2,773.92	3,179.81	3,094.42	29.24	15.21	-136.85	1,089.39	-511.30	1,906.63	1,872.15	34.47	55.305	
3,300.00	2,846.88	3,291.00	3,202.13	30.73	15.83	-137.96	1,101.36	-486.42	1,945.51	1,909.78	35.73	54.453	
3,400.00	2,919.83	3,377.93	3,286.15	32.23	16.32	-138.79	1,110.91	-466.28	1,984.16	1,947.33	36.83	53.870	
3,500.00	2,992.79	3,444.50	3,350.48	33.72	16.70	-139.39	1,118.77	-451.07	2,023.68	1,985.88	37.81	53.528	
3,600.00	3,065.75	3,509.45	3,413.32	35.22	17.06	-139.94	1,127.05	-436.92	2,064.62	2,025.87	38.75	53.276	
3,700.00	3,138.71	3,581.16	3,482.78	36.72	17.46	-140.53	1,136.59	-421.83	2,106.64	2,066.91	39.73	53.024	
3,800.00	3,211.66	3,663.61	3,562.78	38.22	17.91	-141.20	1,147.26	-404.93	2,149.35	2,108.59	40.76	52.737	
3,900.00	3,284.62	3,782.01	3,677.77	39.72	18.55	-142.16	1,160.93	-380.29	2,191.80	2,149.82	41.98	52.213	
4,000.00	3,357.58	3,883.15	3,776.03	41.22	19.09	-142.99	1,170.78	-358.44	2,233.50	2,190.46	43.05	51.885	
4,100.00	3,430.53	3,968.99	3,859.35	42.73	19.56	-143.66	1,179.38	-339.72	2,275.40	2,231.39	44.02	51.695	
4,200.00	3,503.49	4,032.07	3,920.65	44.23	19.90	-144.13	1,185.86	-326.31	2,318.09	2,273.25	44.83	51.703	
4,300.00	3,576.45	4,108.79	3,995.32	45.74	20.31	-144.69	1,193.89	-310.57	2,361.71	2,315.99	45.73	51.649	
4,400.00	3,649.40	4,240.41	4,122.88	47.25	21.03	-145.56	1,209.95	-282.48	2,405.22	2,358.22	47.01	51.166	
4,500.00	3,722.36	4,351.52	4,230.01	48.75	21.67	-146.23	1,224.17	-256.65	2,447.17	2,399.00	48.17	50.802	
4,600.00	3,795.32	4,467.41	4,341.88	50.26	22.34	-146.94	1,237.25	-229.37	2,488.97	2,439.65	49.32	50.462	
4,700.00	3,868.27	4,723.13	4,584.21	51.77	24.01	-148.21	1,272.00	-155.91	2,525.09	2,473.63	51.45	49.077	
4,800.00	3,941.23	4,765.00	4,623.45	53.28	24.30	-148.39	1,278.59	-142.87	2,560.93	2,508.70	52.24	49.027	
4,900.00	4,014.19	4,810.91	4,666.75	54.79	24.60	-148.58	1,285.79	-129.39	2,598.56	2,545.54	53.01	49.019	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,087.15	4,854.00	4,707.76	56.30	24.89	-148.76	1,292.52	-118.03	2,638.46	2,584.72	53.74	49.099	
5,100.00	4,160.10	4,892.16	4,744.27	57.81	25.12	-148.93	1,298.46	-108.66	2,680.11	2,625.72	54.39	49.273	
5,200.00	4,233.06	4,963.72	4,812.92	59.32	25.55	-149.23	1,309.57	-91.80	2,723.01	2,667.72	55.28	49.254	
5,300.00	4,306.02	5,087.91	4,931.66	60.83	26.31	-149.72	1,329.49	-61.35	2,765.11	2,708.51	56.60	48.858	
5,400.00	4,378.97	5,160.46	5,000.90	62.34	26.76	-149.99	1,341.65	-43.43	2,807.30	2,749.80	57.51	48.818	
5,500.00	4,451.93	5,222.05	5,060.08	63.85	27.12	-150.24	1,350.50	-28.85	2,850.34	2,792.05	58.29	48.900	
5,600.00	4,524.89	5,276.82	5,112.95	65.36	27.44	-150.48	1,357.75	-16.52	2,894.44	2,835.46	58.99	49.070	
5,700.00	4,597.84	5,336.06	5,170.33	66.88	27.76	-150.74	1,365.24	-3.86	2,939.62	2,879.92	59.69	49.246	
5,800.00	4,670.80	5,405.43	5,237.79	68.39	28.14	-151.06	1,372.99	10.31	2,985.64	2,925.20	60.44	49.395	
5,900.00	4,743.76	5,617.05	5,442.88	69.90	29.31	-152.03	1,394.67	57.62	3,029.89	2,967.73	62.16	48.743	
6,000.00	4,816.71	5,682.54	5,505.89	71.41	29.69	-152.28	1,403.05	73.38	3,073.00	3,010.08	62.93	48.836	
6,100.00	4,889.67	5,744.00	5,565.05	72.93	30.06	-152.50	1,411.56	87.67	3,116.98	3,053.31	63.67	48.958	
6,200.00	4,962.63	5,778.11	5,597.99	74.44	30.24	-152.62	1,416.29	95.17	3,162.16	3,097.98	64.18	49.272	
6,300.00	5,035.59	5,833.00	5,651.33	75.95	30.54	-152.83	1,423.31	106.05	3,209.05	3,144.23	64.83	49.503	
6,400.00	5,108.54	5,854.50	5,672.30	77.47	30.65	-152.91	1,425.90	109.99	3,257.06	3,191.88	65.18	49.969	
6,500.00	5,181.50	6,500.00	5,787.87	78.98	33.98	-153.37	1,439.24	131.57	3,305.86	3,237.33	68.53	48.238	
6,600.00	5,254.46	6,090.64	5,902.49	80.49	31.88	-153.81	1,452.66	155.27	3,352.82	3,285.44	67.38	49.762	
6,700.00	5,327.41	6,421.31	6,222.03	82.01	33.76	-154.98	1,488.90	231.38	3,398.69	3,328.73	69.95	48.584	
6,800.00	5,400.37	6,488.36	6,285.34	83.52	34.19	-155.10	1,501.42	249.56	3,439.74	3,368.92	70.82	48.570	
6,900.00	5,473.33	6,546.00	6,339.95	85.04	34.57	-155.20	1,512.61	264.19	3,482.15	3,410.54	71.61	48.626	
7,000.00	5,546.28	6,577.60	6,370.02	86.55	34.76	-155.26	1,518.63	271.82	3,525.60	3,453.45	72.15	48.866	
7,100.00	5,619.24	6,635.00	6,424.89	88.06	35.12	-155.38	1,528.80	285.27	3,570.06	3,497.17	72.89	48.979	
7,200.00	5,692.20	6,958.96	6,733.44	89.58	37.17	-156.18	1,575.30	371.95	3,610.17	3,534.54	75.63	47.735	
7,300.00	5,765.15	6,992.00	6,764.60	91.09	37.40	-156.25	1,580.59	381.56	3,649.77	3,573.57	76.20	47.897	
7,400.00	5,838.11	7,049.35	6,819.00	92.61	37.77	-156.38	1,589.20	397.57	3,690.41	3,613.48	76.93	47.974	
7,500.00	5,911.07	7,097.31	6,864.89	94.12	38.07	-156.50	1,595.15	410.16	3,732.41	3,654.87	77.54	48.135	
7,600.00	5,984.03	7,183.65	6,947.99	95.64	38.57	-156.79	1,602.04	432.50	3,774.92	3,696.59	78.33	48.191	
7,700.00	6,056.98	7,259.00	7,020.73	97.15	38.99	-157.09	1,604.77	451.96	3,817.61	3,738.63	78.97	48.339	
7,800.00	6,129.94	7,326.06	7,085.58	98.67	39.34	-157.38	1,605.42	468.99	3,860.81	3,781.29	79.52	48.550	
7,900.00	6,202.90	7,868.89	7,578.93	100.18	41.56	-161.64	1,469.26	630.90	3,897.72	3,818.70	79.02	49.325	
8,000.00	6,275.85	7,883.00	7,590.33	101.70	41.61	-161.79	1,462.33	635.50	3,933.33	3,854.01	79.31	49.593	
8,100.00	6,348.81	7,923.71	7,622.55	103.21	41.70	-162.24	1,440.94	648.19	3,970.50	3,891.10	79.40	50.006	
8,200.00	6,421.77	7,944.66	7,638.71	104.73	41.75	-162.49	1,429.10	654.31	4,009.60	3,930.02	79.57	50.390	
8,300.00	6,494.72	7,972.00	7,659.34	106.24	41.82	-162.81	1,412.82	661.85	4,050.51	3,970.84	79.67	50.843	
8,400.00	6,567.68	7,972.00	7,659.34	107.76	41.82	-162.81	1,412.82	661.85	4,093.18	4,013.28	79.90	51.230	
8,500.00	6,640.64	7,972.00	7,659.34	109.27	41.82	-162.81	1,412.82	661.85	4,137.83	4,057.74	80.09	51.663	
8,600.00	6,713.59	8,008.54	7,686.03	110.79	41.86	-163.27	1,389.64	671.06	4,183.76	4,103.73	80.03	52.275	
8,700.00	6,786.55	8,021.09	7,694.95	112.30	41.88	-163.43	1,381.30	673.98	4,231.64	4,151.55	80.09	52.833	
8,800.00	6,859.51	8,061.00	7,722.40	113.82	41.93	-163.94	1,353.59	682.38	4,281.58	4,201.62	79.96	53.547	
8,900.00	6,932.46	8,061.00	7,722.40	115.33	41.93	-163.94	1,353.59	682.38	4,332.49	4,252.44	80.05	54.124	
9,000.00	7,005.42	8,061.00	7,722.40	116.85	41.93	-163.94	1,353.59	682.38	4,385.09	4,304.98	80.11	54.740	
9,104.89	7,081.95	8,061.00	7,722.40	118.44	41.93	-163.94	1,353.59	682.38	4,442.02	4,361.87	80.14	55.425	
9,150.00	7,115.15	8,061.00	7,722.40	119.12	41.93	-171.72	1,353.59	682.38	4,467.02	4,386.86	80.16	55.729	
9,200.00	7,152.46	8,061.00	7,722.40	119.86	41.93	179.37	1,353.59	682.38	4,494.94	4,414.77	80.17	56.067	
9,250.00	7,190.04	8,061.00	7,722.40	120.57	41.93	170.35	1,353.59	682.38	4,522.88	4,442.69	80.19	56.405	
9,300.00	7,227.59	8,061.00	7,722.40	121.25	41.93	161.40	1,353.59	682.38	4,550.62	4,470.42	80.20	56.740	
9,350.00	7,264.83	8,061.00	7,722.40	121.89	41.93	152.72	1,353.59	682.38	4,577.96	4,497.74	80.22	57.069	
9,400.00	7,301.48	8,061.00	7,722.40	122.48	41.93	144.47	1,353.59	682.38	4,604.69	4,524.46	80.24	57.389	
9,450.00	7,337.26	8,061.00	7,722.40	123.01	41.93	136.79	1,353.59	682.38	4,630.63	4,550.38	80.26	57.697	
9,500.00	7,371.90	8,061.00	7,722.40	123.49	41.93	129.74	1,353.59	682.38	4,655.60	4,575.32	80.29	57.988	
9,550.00	7,405.13	8,102.73	7,750.02	123.91	41.93	123.28	1,323.07	689.20	4,677.95	4,597.85	80.09	58.406	
9,600.00	7,436.70	8,108.34	7,753.68	124.27	41.93	117.64	1,318.88	689.92	4,700.03	4,619.92	80.11	58.669	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,650.00	7,466.36	8,150.00	7,780.38	124.57	41.93	112.65	1,287.16	693.87	4,721.68	4,641.75	79.94	59.066	
9,700.00	7,493.91	8,150.00	7,780.38	124.81	41.93	108.34	1,287.16	693.87	4,740.26	4,660.24	80.02	59.237	
9,750.00	7,519.11	8,150.00	7,780.38	125.00	41.93	104.61	1,287.16	693.87	4,757.10	4,676.97	80.13	59.367	
9,800.00	7,541.79	8,150.00	7,780.38	125.12	41.93	101.44	1,287.16	693.87	4,772.10	4,691.83	80.27	59.451	
9,850.00	7,561.77	8,150.00	7,780.38	125.20	41.93	98.77	1,287.16	693.87	4,785.16	4,704.72	80.44	59.485	
9,900.00	7,578.90	8,150.00	7,780.38	125.23	41.93	96.59	1,287.16	693.87	4,796.20	4,715.54	80.65	59.466	
9,950.00	7,593.04	8,150.00	7,780.38	125.22	41.93	94.85	1,287.16	693.87	4,805.15	4,724.24	80.91	59.390	
10,000.00	7,604.09	8,150.00	7,780.38	125.17	41.93	93.55	1,287.16	693.87	4,811.95	4,730.74	81.21	59.254	
10,050.00	7,611.97	8,150.00	7,780.38	125.08	41.93	92.65	1,287.16	693.87	4,816.55	4,735.00	81.56	59.059	
10,100.00	7,616.61	8,182.87	7,800.57	124.97	41.89	92.38	1,261.28	695.68	4,818.54	4,736.83	81.71	58.972	
10,145.95	7,618.00	8,193.42	7,806.81	124.84	41.88	92.37	1,252.79	696.13	4,818.47	4,736.45	82.03	58.743	
10,200.00	7,618.00	8,205.83	7,814.00	124.69	41.87	92.45	1,242.68	696.58	4,817.49	4,735.06	82.42	58.448	
10,293.40	7,618.00	8,239.00	7,832.39	124.42	41.84	92.67	1,215.10	697.37	4,816.99	4,733.96	83.02	58.019	
10,300.00	7,618.00	8,239.00	7,832.39	124.41	41.84	92.67	1,215.10	697.37	4,816.99	4,733.90	83.09	57.976	
10,400.00	7,618.00	8,286.99	7,856.63	124.14	41.77	92.96	1,173.70	697.94	4,817.91	4,734.29	83.62	57.619	
10,500.00	7,618.00	8,368.67	7,890.29	123.88	41.65	93.36	1,099.35	698.34	4,819.53	4,735.75	83.78	57.529	
10,600.00	7,618.00	8,441.37	7,909.85	123.63	41.54	93.59	1,029.39	697.81	4,821.66	4,737.70	83.96	57.428	
10,700.00	7,618.00	8,507.00	7,922.68	123.40	41.44	93.74	965.05	696.46	4,824.64	4,740.42	84.22	57.285	
10,800.00	7,618.00	8,648.45	7,939.53	123.18	41.28	93.94	824.71	693.68	4,826.93	4,743.15	83.78	57.611	
10,900.00	7,618.00	8,891.79	7,942.89	122.96	41.29	93.98	581.50	691.01	4,827.68	4,744.72	82.96	58.193	
11,000.00	7,618.00	9,026.40	7,936.63	122.76	41.48	93.90	447.04	691.87	4,826.26	4,742.98	83.28	57.952	
11,100.00	7,618.00	9,070.75	7,935.03	122.57	41.56	93.89	402.72	691.99	4,825.49	4,741.51	83.99	57.457	
11,109.04	7,618.00	9,074.03	7,934.94	122.56	41.57	93.88	399.44	691.98	4,825.49	4,741.43	84.05	57.409	
11,200.00	7,618.00	9,130.00	7,933.76	122.39	41.70	93.87	343.49	691.14	4,826.18	4,741.49	84.69	56.983	
11,300.00	7,618.00	11,300.00	7,932.86	122.23	64.11	93.86	276.78	689.91	4,827.48	4,728.60	98.89	48.818	
11,400.00	7,618.00	9,284.03	7,932.12	122.07	42.17	93.85	189.49	688.44	4,828.80	4,742.50	86.30	55.955	
11,500.00	7,618.00	9,575.00	7,932.61	121.93	43.70	93.86	-101.41	690.08	4,826.79	4,738.66	88.13	54.768	
11,600.00	7,618.00	9,664.00	7,933.23	121.79	44.33	93.87	-190.37	692.26	4,824.12	4,734.69	89.43	53.945	
11,700.00	7,618.00	9,710.13	7,934.46	121.67	44.67	93.88	-236.47	693.25	4,822.26	4,731.79	90.46	53.307	
11,745.06	7,618.00	9,721.83	7,934.74	121.62	44.76	93.89	-248.18	693.30	4,821.99	4,731.13	90.87	53.067	
11,800.00	7,618.00	9,754.00	7,935.47	121.56	45.02	93.89	-280.33	693.01	4,822.22	4,730.73	91.49	52.708	
11,900.00	7,618.00	9,754.00	7,935.47	121.46	45.02	93.89	-280.33	693.01	4,823.49	4,731.30	92.18	52.324	
12,000.00	7,618.00	9,807.41	7,936.46	121.38	45.43	93.90	-333.71	691.58	4,826.10	4,732.78	93.32	51.714	
12,100.00	7,618.00	9,878.92	7,937.23	121.30	46.00	93.91	-405.16	688.56	4,829.95	4,735.31	94.63	51.038	
12,200.00	7,618.00	9,969.78	7,937.28	121.24	46.78	93.91	-495.95	685.03	4,833.52	4,737.35	96.17	50.261	
12,300.00	7,618.00	10,021.00	7,938.48	121.19	47.24	93.92	-547.09	682.55	4,838.13	4,740.76	97.37	49.687	
12,400.00	7,618.00	10,067.79	7,940.37	121.16	47.66	93.94	-593.77	679.85	4,843.78	4,745.22	98.56	49.144	
12,500.00	7,618.00	10,233.78	7,946.76	121.14	49.28	94.01	-759.32	669.92	4,849.97	4,748.79	101.18	47.933	
12,600.00	7,618.00	10,419.03	7,949.90	121.13	51.29	94.04	-944.41	663.20	4,852.94	4,748.61	104.34	46.512	
12,700.00	7,618.00	10,884.00	7,966.43	121.13	57.18	94.24	-1,408.56	670.52	4,847.91	4,734.86	113.05	42.882	
12,800.00	7,618.00	11,016.73	7,966.33	121.15	59.01	94.25	-1,541.17	675.99	4,843.57	4,727.39	116.19	41.688	
12,900.00	7,618.00	11,105.95	7,966.20	121.18	60.26	94.25	-1,630.28	680.35	4,838.37	4,719.89	118.49	40.834	
13,000.00	7,618.00	11,152.00	7,966.16	121.23	60.92	94.25	-1,676.29	682.36	4,833.85	4,713.96	119.89	40.319	
13,100.00	7,618.00	11,193.47	7,966.14	121.29	61.50	94.25	-1,717.73	683.69	4,830.50	4,709.30	121.20	39.855	
13,200.00	7,618.00	11,241.00	7,966.09	121.37	62.17	94.25	-1,765.26	684.27	4,828.67	4,706.03	122.65	39.371	
13,273.76	7,618.00	11,241.00	7,966.09	121.43	62.17	94.25	-1,765.26	684.27	4,828.11	4,705.15	122.96	39.266	
13,300.00	7,618.00	11,241.00	7,966.09	121.46	62.17	94.25	-1,765.26	684.27	4,828.18	4,705.11	123.07	39.232	
13,400.00	7,618.00	11,279.47	7,966.04	121.57	62.70	94.25	-1,803.73	683.88	4,829.16	4,704.85	124.31	38.846	
13,500.00	7,618.00	11,330.00	7,965.95	121.70	63.40	94.25	-1,854.22	682.01	4,832.00	4,706.18	125.82	38.405	
13,600.00	7,618.00	11,686.00	7,965.24	121.84	68.53	94.24	-2,210.03	680.22	4,832.04	4,697.70	134.34	35.968	
13,700.00	7,618.00	13,700.00	7,964.19	122.01	99.77	94.23	-2,374.10	684.73	4,828.92	4,661.08	167.84	28.771	
13,800.00	7,618.00	11,954.00	7,962.34	122.19	72.60	94.22	-2,477.86	688.93	4,824.40	4,682.75	141.65	34.059	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
13,900.00	7,618.00	12,010.53	7,961.27	122.39	73.47	94.20	-2,534.34	690.89	4,820.69	4,677.28	143.41	33.615	
14,000.00	7,618.00	12,043.00	7,960.66	122.62	73.97	94.20	-2,566.80	691.51	4,818.38	4,673.83	144.55	33.333	
14,100.00	7,618.00	12,077.24	7,960.01	122.86	74.49	94.19	-2,601.04	691.70	4,817.45	4,671.72	145.74	33.056	
14,113.60	7,618.00	12,081.34	7,959.94	122.89	74.56	94.19	-2,605.14	691.69	4,817.44	4,671.55	145.88	33.022	
14,200.00	7,618.00	12,132.00	7,958.98	123.12	75.32	94.18	-2,655.78	690.83	4,818.19	4,670.75	147.44	32.679	
14,300.00	7,618.00	12,291.70	7,955.94	123.41	77.77	94.14	-2,815.44	689.66	4,818.52	4,666.64	151.88	31.725	
14,400.00	7,618.00	14,400.00	7,953.50	123.72	111.29	94.11	-2,965.90	690.01	4,818.01	4,630.20	187.80	25.654	
14,500.00	7,618.00	12,635.19	7,952.67	124.06	83.17	94.11	-3,158.82	695.19	4,814.47	4,652.76	161.71	29.772	
14,600.00	7,618.00	12,737.01	7,952.32	124.42	84.80	94.11	-3,260.59	698.27	4,811.09	4,646.28	164.80	29.193	
14,700.00	7,618.00	12,822.13	7,952.10	124.80	86.16	94.11	-3,345.67	700.89	4,807.67	4,640.23	167.45	28.712	
14,800.00	7,618.00	12,844.00	7,952.09	125.21	86.52	94.11	-3,367.53	701.51	4,805.12	4,636.81	168.31	28.550	
14,900.00	7,618.00	12,896.47	7,952.05	125.65	87.35	94.11	-3,420.00	702.29	4,803.64	4,633.62	170.02	28.254	
14,929.39	7,618.00	12,905.43	7,952.05	125.78	87.50	94.11	-3,428.95	702.30	4,803.52	4,633.19	170.33	28.201	
15,000.00	7,618.00	12,934.00	7,952.01	126.11	87.95	94.11	-3,457.52	702.05	4,803.78	4,632.49	171.29	28.045	
15,100.00	7,618.00	12,960.53	7,951.98	126.61	88.37	94.11	-3,484.04	701.50	4,805.32	4,633.09	172.23	27.900	
15,200.00	7,618.00	12,995.03	7,951.93	127.13	88.91	94.10	-3,518.53	700.37	4,808.24	4,634.86	173.38	27.732	
15,300.00	7,618.00	13,051.26	7,951.82	127.68	89.79	94.10	-3,574.69	697.71	4,812.48	4,637.32	175.15	27.476	
15,400.00	7,618.00	13,199.84	7,951.50	128.26	92.12	94.09	-3,723.13	691.23	4,816.47	4,636.84	179.64	26.812	
15,500.00	7,618.00	13,286.46	7,951.40	128.87	93.49	94.09	-3,809.68	687.78	4,820.10	4,637.78	182.32	26.437	
15,600.00	7,618.00	13,410.59	7,951.03	129.51	95.47	94.08	-3,933.72	683.09	4,823.49	4,637.35	186.14	25.913	
15,700.00	7,618.00	13,516.01	7,950.80	130.18	97.15	94.07	-4,039.07	679.17	4,826.85	4,637.43	189.42	25.482	
15,800.00	7,618.00	15,800.00	7,956.22	130.88	135.47	94.14	-4,516.76	681.43	4,826.23	4,591.53	234.70	20.563	
15,900.00	7,618.00	14,062.08	7,958.06	131.61	106.14	94.17	-4,584.73	684.56	4,821.63	4,615.29	206.34	23.367	
16,000.00	7,618.00	14,112.77	7,958.98	132.37	106.99	94.18	-4,635.39	686.20	4,818.17	4,610.08	208.09	23.154	
16,100.00	7,618.00	14,181.00	7,960.11	133.17	108.13	94.19	-4,703.60	687.77	4,815.61	4,605.25	210.36	22.892	
16,200.00	7,618.00	14,232.87	7,960.97	133.99	108.99	94.21	-4,755.45	688.54	4,813.86	4,601.74	212.12	22.694	
16,300.00	7,618.00	14,292.01	7,961.96	134.84	109.98	94.22	-4,814.59	688.95	4,812.95	4,598.86	214.09	22.481	
16,354.03	7,618.00	14,323.00	7,962.47	135.31	110.49	94.22	-4,845.57	688.96	4,812.82	4,597.70	215.12	22.372	
16,400.00	7,618.00	14,359.00	7,963.07	135.72	111.09	94.23	-4,881.56	688.78	4,812.93	4,596.63	216.30	22.251	
16,500.00	7,618.00	14,400.78	7,963.77	136.63	111.78	94.24	-4,923.33	688.28	4,813.81	4,596.12	217.70	22.113	
16,600.00	7,618.00	14,582.86	7,966.63	137.57	114.80	94.27	-5,105.37	685.89	4,815.33	4,591.76	223.57	21.538	
16,700.00	7,618.00	14,691.46	7,968.23	138.54	116.62	94.29	-5,213.95	686.23	4,814.79	4,587.67	227.12	21.199	
16,800.00	7,618.00	14,773.30	7,969.39	139.53	117.99	94.30	-5,295.78	686.28	4,814.49	4,584.68	229.82	20.949	
16,900.00	7,618.00	14,883.86	7,971.01	140.55	119.84	94.32	-5,406.33	686.11	4,814.43	4,580.98	233.45	20.623	
17,000.00	7,618.00	14,980.26	7,972.46	141.60	121.46	94.34	-5,502.72	686.19	4,814.13	4,577.50	236.63	20.345	
17,100.00	7,618.00	15,112.95	7,974.05	142.67	123.69	94.36	-5,635.40	687.18	4,813.00	4,572.01	240.99	19.972	
17,193.89	7,618.00	15,163.00	7,973.54	143.70	124.54	94.36	-5,685.45	687.21	4,812.57	4,569.90	242.67	19.832	
17,200.00	7,618.00	15,163.00	7,973.54	143.77	124.54	94.36	-5,685.45	687.21	4,812.57	4,569.90	242.67	19.832	
17,300.00	7,618.00	15,216.28	7,972.57	144.88	125.43	94.34	-5,738.71	686.67	4,813.14	4,568.71	244.43	19.691	
17,400.00	7,618.00	15,277.39	7,971.57	146.02	126.45	94.33	-5,799.80	685.38	4,814.73	4,568.30	246.43	19.538	
17,500.00	7,618.00	15,366.72	7,969.34	147.19	127.95	94.30	-5,889.08	683.12	4,816.74	4,567.37	249.37	19.316	
17,600.00	7,618.00	15,447.11	7,968.09	148.37	129.29	94.29	-5,969.43	680.92	4,819.02	4,567.02	252.00	19.123	
17,700.00	7,618.00	16,232.00	7,979.80	149.57	142.71	94.45	-6,750.36	708.61	4,820.62	4,543.64	276.98	17.404	
17,800.00	7,618.00	16,280.86	7,984.16	150.79	143.57	94.51	-6,798.66	714.48	4,809.26	4,530.37	278.89	17.244	
17,900.00	7,618.00	16,321.00	7,988.08	152.03	144.27	94.56	-6,838.41	718.51	4,799.46	4,518.95	280.51	17.110	
18,000.00	7,618.00	16,321.00	7,988.08	153.29	144.27	94.56	-6,838.41	718.51	4,791.18	4,510.35	280.83	17.061	
18,100.00	7,618.00	16,321.00	7,988.08	154.57	144.27	94.56	-6,838.41	718.51	4,784.99	4,503.92	281.07	17.024	
18,200.00	7,618.00	16,373.23	7,992.90	155.86	145.18	94.62	-6,890.29	722.07	4,779.41	4,496.48	282.93	16.892	
18,300.00	7,618.00	16,410.00	7,995.72	157.17	145.82	94.66	-6,926.94	723.12	4,776.26	4,492.00	284.26	16.803	
18,400.00	7,618.00	16,410.00	7,995.72	158.49	145.82	94.66	-6,926.94	723.12	4,774.47	4,490.18	284.29	16.794	
18,463.47	7,618.00	16,438.25	7,997.46	159.33	146.30	94.68	-6,955.14	723.30	4,774.21	4,488.97	285.24	16.738	
18,500.00	7,618.00	16,452.05	7,998.13	159.82	146.53	94.69	-6,968.92	723.28	4,774.29	4,488.60	285.69	16.711	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
18,600.00	7,618.00	16,499.00	7,999.54	161.17	147.33	94.70	-7,015.84	722.63	4,775.44	4,488.22	287.22	16.626	
18,700.00	7,618.00	16,634.27	8,001.59	162.54	149.63	94.73	-7,151.08	720.42	4,776.93	4,485.12	291.81	16.370	
18,800.00	7,618.00	16,728.01	8,002.92	163.91	151.22	94.74	-7,244.80	719.53	4,777.68	4,482.71	294.97	16.197	
18,900.00	7,618.00	16,856.61	8,004.71	165.30	153.42	94.76	-7,373.37	718.03	4,778.69	4,479.36	299.34	15.964	
19,000.00	7,618.00	16,961.07	8,006.12	166.70	155.20	94.78	-7,477.83	717.48	4,778.99	4,476.12	302.87	15.779	
19,100.00	7,618.00	17,063.13	8,007.49	168.10	156.95	94.79	-7,579.88	716.83	4,779.41	4,473.08	306.33	15.602	
19,169.57	7,618.00	17,144.49	8,008.63	169.09	158.34	94.81	-7,661.22	716.73	4,779.32	4,470.22	309.10	15.462	
19,200.00	7,618.00	17,161.19	8,008.86	169.52	158.63	94.81	-7,677.92	716.66	4,779.36	4,469.71	309.65	15.435	
19,300.00	7,618.00	17,212.00	8,009.58	170.95	159.50	94.82	-7,728.73	716.18	4,780.12	4,468.80	311.32	15.354	
19,400.00	7,618.00	17,252.54	8,009.99	172.39	160.19	94.82	-7,769.26	715.33	4,782.03	4,469.44	312.58	15.298	
19,500.00	7,618.00	17,301.00	8,010.05	173.84	161.01	94.82	-7,817.68	713.52	4,785.27	4,471.17	314.10	15.235	
19,600.00	7,618.00	17,329.42	8,009.91	175.30	161.48	94.82	-7,846.06	712.08	4,789.74	4,474.90	314.84	15.213	
19,700.00	7,618.00	17,390.00	8,009.27	176.76	162.50	94.81	-7,906.51	708.12	4,795.60	4,478.88	316.73	15.141	SF
19,800.00	7,618.00	17,390.00	8,009.27	178.24	162.50	94.81	-7,906.51	708.12	4,802.59	4,486.30	316.28	15.184	
19,896.19	7,618.00	17,434.42	8,008.62	179.66	163.23	94.80	-7,950.76	704.32	4,810.60	4,493.10	317.50	15.152	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-53.19	786.52	-1,050.82	1,312.60				
100.00	100.00	90.42	90.42	0.13	0.15	-53.18	786.67	-1,050.73	1,312.59	1,312.30	0.28	4,607.050	CC
200.00	200.00	189.77	189.77	0.49	0.32	-53.15	787.20	-1,050.42	1,312.66	1,311.85	0.81	1,623.103	ES
300.00	299.98	289.12	289.11	0.85	0.48	-122.47	788.09	-1,049.90	1,313.71	1,312.38	1.33	988.728	
400.00	399.84	387.20	387.19	1.21	0.78	-122.55	789.29	-1,049.24	1,316.72	1,314.74	1.98	663.784	
500.00	499.45	484.60	484.57	1.58	1.13	-122.71	790.70	-1,048.64	1,321.80	1,319.10	2.70	489.281	
600.00	598.70	581.67	581.63	1.97	1.48	-122.95	792.31	-1,048.09	1,328.97	1,325.54	3.43	387.288	
700.00	697.47	785.98	785.49	2.38	2.22	-123.60	796.10	-1,037.02	1,334.34	1,329.79	4.55	292.958	
800.00	795.62	950.43	947.80	2.83	2.87	-123.84	802.76	-1,011.72	1,334.50	1,328.91	5.59	238.638	
825.13	820.18	975.28	972.12	2.95	2.98	-123.86	804.36	-1,006.89	1,334.44	1,328.63	5.81	229.858	
900.00	893.06	1,066.81	1,061.19	3.31	3.40	-123.84	812.20	-987.37	1,334.75	1,328.23	6.53	204.451	
1,000.00	989.64	1,164.23	1,154.85	3.83	3.89	-123.72	823.56	-963.11	1,335.63	1,328.16	7.47	178.854	
1,100.00	1,085.27	1,250.58	1,237.12	4.40	4.36	-123.52	836.84	-940.50	1,339.48	1,331.05	8.43	158.901	
1,200.00	1,179.82	1,375.61	1,355.01	5.02	5.10	-123.23	859.22	-905.43	1,345.24	1,335.56	9.68	138.912	
1,300.00	1,273.17	1,445.77	1,420.73	5.70	5.55	-123.02	872.90	-885.03	1,352.80	1,342.08	10.71	126.266	
1,400.00	1,365.21	1,585.09	1,551.02	6.43	6.46	-122.84	900.87	-844.43	1,362.95	1,350.72	12.22	111.489	
1,500.00	1,455.84	1,695.15	1,653.19	7.23	7.23	-122.78	920.69	-808.64	1,370.52	1,356.89	13.63	100.559	
1,600.00	1,544.94	1,778.29	1,730.50	8.09	7.81	-122.76	936.76	-782.61	1,381.82	1,366.91	14.91	92.648	
1,700.00	1,632.39	1,918.40	1,860.96	9.01	8.80	-123.03	962.40	-738.44	1,394.49	1,377.88	16.61	83.947	
1,800.00	1,718.11	1,998.59	1,935.98	10.00	9.36	-123.23	975.64	-713.37	1,408.10	1,390.16	17.95	78.468	
1,900.00	1,801.97	2,110.82	2,041.48	11.07	10.13	-123.76	992.44	-679.00	1,423.55	1,404.06	19.49	73.051	
2,000.00	1,883.88	2,203.62	2,129.10	12.20	10.75	-124.30	1,004.39	-650.88	1,440.33	1,419.42	20.92	68.866	
2,100.00	1,963.74	2,278.94	2,200.56	13.41	11.24	-124.72	1,014.26	-629.21	1,460.73	1,438.48	22.25	65.657	
2,200.00	2,041.45	2,374.97	2,292.13	14.69	11.85	-125.45	1,025.70	-602.64	1,483.92	1,460.23	23.69	62.639	
2,300.00	2,116.92	2,461.56	2,374.92	16.05	12.39	-126.13	1,035.12	-579.10	1,509.58	1,484.51	25.07	60.212	
2,357.48	2,159.25	2,502.96	2,414.52	16.86	12.65	-126.42	1,039.89	-568.01	1,525.88	1,500.06	25.82	59.097	
2,400.00	2,190.27	2,533.36	2,443.60	17.47	12.83	-126.82	1,043.60	-559.96	1,538.56	1,512.19	26.37	58.342	
2,500.00	2,263.22	2,604.39	2,511.56	18.92	13.27	-127.75	1,052.86	-541.50	1,569.62	1,541.96	27.65	56.763	
2,600.00	2,336.18	2,675.13	2,579.27	20.37	13.71	-128.62	1,062.88	-523.65	1,602.35	1,573.45	28.90	55.435	
2,700.00	2,409.14	2,761.91	2,662.35	21.84	14.24	-129.65	1,075.78	-502.15	1,636.30	1,606.06	30.24	54.108	
2,800.00	2,482.09	2,900.14	2,794.38	23.31	15.11	-131.21	1,095.31	-466.17	1,669.46	1,637.57	31.89	52.353	
2,900.00	2,555.05	3,006.08	2,895.11	24.78	15.79	-132.35	1,109.45	-436.59	1,701.20	1,667.90	33.31	51.077	
3,000.00	2,628.01	3,130.47	3,013.29	26.27	16.60	-133.66	1,124.89	-400.98	1,732.60	1,697.80	34.80	49.786	
3,100.00	2,700.96	3,218.00	3,095.75	27.75	17.20	-134.48	1,136.71	-374.11	1,762.93	1,726.84	36.10	48.841	
3,200.00	2,773.92	3,281.82	3,155.68	29.24	17.65	-135.03	1,146.73	-354.60	1,794.55	1,757.30	37.24	48.183	
3,300.00	2,846.88	3,384.47	3,252.07	30.73	18.36	-135.84	1,164.65	-324.22	1,827.80	1,789.14	38.66	47.277	
3,400.00	2,919.83	3,488.73	3,349.93	32.23	19.09	-136.66	1,181.50	-292.44	1,860.08	1,820.03	40.06	46.434	
3,500.00	2,992.79	3,575.23	3,430.77	33.72	19.72	-137.28	1,196.64	-265.64	1,892.56	1,851.21	41.35	45.775	
3,600.00	3,065.75	3,626.44	3,478.72	35.22	20.07	-137.63	1,205.99	-250.28	1,926.37	1,884.02	42.34	45.493	
3,700.00	3,138.71	3,695.91	3,544.33	36.72	20.55	-138.12	1,218.26	-231.03	1,962.19	1,918.75	43.44	45.169	
3,800.00	3,211.66	3,797.84	3,640.63	38.22	21.23	-138.84	1,235.73	-202.55	1,997.99	1,953.23	44.76	44.640	
3,900.00	3,284.62	3,870.46	3,709.38	39.72	21.71	-139.35	1,247.71	-182.48	2,034.19	1,988.37	45.82	44.392	
4,000.00	3,357.58	3,928.37	3,764.41	41.22	22.08	-139.75	1,257.43	-167.28	2,071.90	2,025.15	46.75	44.319	
4,100.00	3,430.53	3,992.06	3,825.14	42.73	22.49	-140.18	1,268.32	-151.50	2,111.15	2,063.46	47.69	44.265	
4,200.00	3,503.49	4,076.71	3,906.23	44.23	23.00	-140.76	1,282.05	-131.43	2,151.41	2,102.64	48.77	44.116	
4,300.00	3,576.45	4,218.08	4,041.96	45.74	23.85	-141.79	1,301.16	-96.87	2,190.70	2,140.51	50.19	43.650	
4,400.00	3,649.40	4,337.02	4,155.73	47.25	24.59	-142.64	1,315.57	-65.33	2,227.95	2,176.54	51.41	43.340	
4,500.00	3,722.36	4,382.33	4,199.23	48.75	24.86	-142.97	1,320.69	-53.77	2,266.35	2,214.24	52.11	43.492	
4,600.00	3,795.32	4,480.97	4,294.40	50.26	25.44	-143.69	1,331.18	-30.03	2,306.24	2,253.12	53.12	43.415	
4,700.00	3,868.27	4,589.43	4,398.38	51.77	26.10	-144.40	1,344.45	-2.22	2,345.17	2,290.94	54.24	43.239	
4,800.00	3,941.23	4,635.82	4,442.83	53.28	26.37	-144.68	1,350.74	9.47	2,384.89	2,329.96	54.93	43.416	
4,900.00	4,014.19	4,704.10	4,508.61	54.79	26.78	-145.10	1,359.59	25.51	2,426.21	2,370.46	55.75	43.516	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,087.15	4,896.68	4,692.73	56.30	27.97	-146.22	1,383.84	76.30	2,464.22	2,406.77	57.46	42.889	
5,100.00	4,160.10	4,940.00	4,734.27	57.81	28.24	-146.49	1,388.44	87.71	2,503.09	2,445.00	58.09	43.087	
5,200.00	4,233.06	4,984.00	4,776.66	59.32	28.50	-146.75	1,393.18	98.51	2,543.77	2,485.07	58.70	43.335	
5,300.00	4,306.02	5,030.00	4,821.07	60.83	28.77	-147.02	1,398.73	109.11	2,586.15	2,526.84	59.30	43.609	
5,400.00	4,378.97	5,170.97	4,956.26	62.34	29.62	-147.70	1,419.33	143.27	2,627.59	2,566.89	60.70	43.286	
5,500.00	4,451.93	5,208.00	4,991.69	63.85	29.85	-147.87	1,425.17	152.35	2,669.75	2,608.48	61.27	43.571	
5,600.00	4,524.89	5,264.20	5,045.71	65.36	30.17	-148.12	1,433.79	165.23	2,713.26	2,651.29	61.97	43.783	
5,700.00	4,597.84	5,339.89	5,119.00	66.88	30.60	-148.49	1,444.49	180.79	2,758.56	2,695.76	62.80	43.927	
5,800.00	4,670.80	5,800.00	5,303.97	68.39	33.30	-149.41	1,468.71	224.55	2,801.77	2,736.01	65.76	42.606	
5,900.00	4,743.76	5,638.39	5,406.37	69.90	32.35	-149.88	1,482.75	251.69	2,842.86	2,777.29	65.56	43.360	
6,000.00	4,816.71	5,653.00	5,420.38	71.41	32.44	-149.95	1,484.74	255.36	2,885.32	2,819.40	65.92	43.772	
6,100.00	4,889.67	5,709.05	5,474.37	72.93	32.76	-150.19	1,492.15	268.42	2,929.02	2,862.45	66.56	44.004	
6,200.00	4,962.63	5,742.00	5,506.36	74.44	32.94	-150.34	1,496.27	275.19	2,974.80	2,907.81	67.00	44.403	
6,300.00	5,035.59	5,806.31	5,569.06	75.95	33.27	-150.64	1,503.42	287.53	3,021.85	2,954.21	67.64	44.677	
6,400.00	5,108.54	5,962.33	5,721.07	77.47	34.09	-151.36	1,520.25	318.34	3,068.72	2,999.73	68.99	44.481	
6,500.00	5,181.50	6,128.64	5,881.10	78.98	35.06	-151.96	1,543.99	356.75	3,112.29	3,041.73	70.56	44.106	
6,600.00	5,254.46	6,188.00	5,938.23	80.49	35.41	-152.17	1,552.48	370.42	3,156.31	3,085.05	71.26	44.296	
6,700.00	5,327.41	6,240.64	5,989.08	82.01	35.71	-152.35	1,559.67	381.99	3,201.28	3,129.42	71.87	44.545	
6,800.00	5,400.37	6,300.82	6,047.20	83.52	36.05	-152.55	1,568.38	394.95	3,246.93	3,174.39	72.54	44.762	
6,900.00	5,473.33	6,348.92	6,093.81	85.04	36.31	-152.72	1,575.07	404.76	3,293.61	3,220.52	73.09	45.063	
7,000.00	5,546.28	6,423.33	6,166.19	86.55	36.70	-152.99	1,584.51	419.22	3,341.17	3,267.33	73.84	45.252	
7,100.00	5,619.24	7,100.00	6,529.96	88.06	40.84	-154.28	1,630.01	508.01	3,385.32	3,306.97	78.35	43.206	
7,200.00	5,692.20	6,856.07	6,582.51	89.58	39.25	-154.44	1,638.01	523.36	3,425.68	3,348.07	77.61	44.139	
7,300.00	5,765.15	6,902.00	6,626.37	91.09	39.54	-154.56	1,644.66	535.23	3,467.56	3,389.35	78.21	44.337	
7,400.00	5,838.11	6,970.98	6,692.50	92.61	39.96	-154.76	1,654.10	552.43	3,510.40	3,431.44	78.96	44.455	
7,500.00	5,911.07	7,019.22	6,738.87	94.12	40.25	-154.90	1,660.12	564.34	3,553.71	3,474.18	79.53	44.684	
7,600.00	5,984.03	7,054.33	6,772.77	95.64	40.45	-155.01	1,664.24	572.46	3,598.37	3,518.40	79.97	44.998	
7,700.00	6,056.98	7,080.00	6,797.65	97.15	40.60	-155.09	1,667.11	578.08	3,644.41	3,564.10	80.31	45.381	
7,800.00	6,129.94	7,482.76	7,180.28	98.67	42.29	-157.65	1,628.34	672.88	3,689.73	3,608.44	81.29	45.389	
7,900.00	6,202.90	7,525.00	7,218.49	100.18	42.41	-158.06	1,613.77	683.41	3,731.06	3,649.72	81.35	45.867	
8,000.00	6,275.85	7,525.00	7,218.49	101.70	42.41	-158.06	1,613.77	683.41	3,773.64	3,692.09	81.55	46.275	
8,100.00	6,348.81	7,525.00	7,218.49	103.21	42.41	-158.06	1,613.77	683.41	3,818.36	3,736.65	81.71	46.732	
8,200.00	6,421.77	7,565.00	7,254.84	104.73	42.49	-158.46	1,599.63	692.29	3,864.52	3,782.82	81.69	47.305	
8,300.00	6,494.72	7,614.00	7,299.06	106.24	42.59	-158.96	1,580.87	701.93	3,912.65	3,831.03	81.62	47.938	
8,400.00	6,567.68	7,614.00	7,299.06	107.76	42.59	-158.96	1,580.87	701.93	3,961.80	3,880.11	81.69	48.496	
8,500.00	6,640.64	8,500.00	7,366.72	109.27	44.45	-159.76	1,549.10	716.24	4,012.11	3,929.89	82.22	48.796	
8,600.00	6,713.59	7,737.11	7,407.92	110.79	42.78	-160.27	1,528.30	725.06	4,063.21	3,981.88	81.33	49.957	
8,700.00	6,786.55	7,764.19	7,431.18	112.30	42.81	-160.57	1,515.28	729.87	4,115.66	4,034.42	81.24	50.658	
8,800.00	6,859.51	7,970.00	7,592.99	113.82	43.00	-163.11	1,394.63	767.90	4,168.79	4,088.63	80.16	52.004	
8,900.00	6,932.46	7,970.00	7,592.99	115.33	43.00	-163.11	1,394.63	767.90	4,221.78	4,141.60	80.18	52.651	
9,000.00	7,005.42	8,004.86	7,617.37	116.85	43.01	-163.58	1,370.70	774.76	4,275.96	4,195.99	79.98	53.465	
9,104.89	7,081.95	8,017.16	7,625.50	118.44	43.01	-163.75	1,361.73	777.00	4,334.60	4,254.72	79.88	54.264	
9,150.00	7,115.15	8,022.42	7,628.88	119.12	43.02	-171.72	1,357.83	777.92	4,360.30	4,280.47	79.83	54.616	
9,200.00	7,152.46	8,059.00	7,651.09	119.86	43.03	178.78	1,329.38	783.87	4,389.38	4,309.79	79.58	55.155	
9,250.00	7,190.04	8,059.00	7,651.09	120.57	43.03	169.67	1,329.38	783.87	4,417.85	4,338.27	79.58	55.515	
9,300.00	7,227.59	8,059.00	7,651.09	121.25	43.03	160.64	1,329.38	783.87	4,446.09	4,366.51	79.58	55.872	
9,350.00	7,264.83	8,059.00	7,651.09	121.89	43.03	151.89	1,329.38	783.87	4,473.89	4,394.31	79.58	56.221	
9,400.00	7,301.48	8,059.00	7,651.09	122.48	43.03	143.59	1,329.38	783.87	4,501.05	4,421.47	79.58	56.559	
9,450.00	7,337.26	8,059.00	7,651.09	123.01	43.03	135.87	1,329.38	783.87	4,527.37	4,447.78	79.59	56.883	
9,500.00	7,371.90	8,059.00	7,651.09	123.49	43.03	128.79	1,329.38	783.87	4,552.68	4,473.07	79.61	57.188	
9,550.00	7,405.13	8,094.47	7,670.40	123.91	43.00	122.26	1,300.06	788.88	4,576.31	4,496.94	79.38	57.654	
9,600.00	7,436.70	8,106.73	7,676.60	124.27	42.99	116.56	1,289.61	790.46	4,598.68	4,519.35	79.32	57.975	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,650.00	7,466.36	8,148.00	7,695.60	124.57	42.97	111.45	1,253.29	795.20	4,619.71	4,540.67	79.04	58.448	
9,700.00	7,493.91	8,148.00	7,695.60	124.81	42.97	107.15	1,253.29	795.20	4,638.43	4,559.32	79.12	58.628	
9,750.00	7,519.11	8,148.00	7,695.60	125.00	42.97	103.44	1,253.29	795.20	4,655.36	4,576.14	79.22	58.765	
9,800.00	7,541.79	8,169.72	7,704.62	125.12	42.94	100.26	1,233.66	797.42	4,670.30	4,591.13	79.17	58.993	
9,850.00	7,561.77	8,197.89	7,715.71	125.20	42.90	97.64	1,207.91	800.20	4,682.96	4,603.87	79.08	59.214	
9,900.00	7,578.90	8,237.00	7,729.94	125.23	42.87	95.54	1,171.67	803.85	4,693.26	4,614.33	78.93	59.460	
9,950.00	7,593.04	8,237.00	7,729.94	125.22	42.87	93.90	1,171.67	803.85	4,701.13	4,621.97	79.16	59.386	
10,000.00	7,604.09	8,274.72	7,742.62	125.17	42.82	92.76	1,136.29	807.10	4,706.48	4,627.37	79.11	59.492	
10,050.00	7,611.97	8,297.86	7,750.01	125.08	42.79	92.05	1,114.45	808.92	4,709.41	4,630.19	79.22	59.446	
10,100.00	7,616.61	8,327.00	7,758.92	124.97	42.76	91.78	1,086.78	811.02	4,709.86	4,630.55	79.32	59.381	
10,145.95	7,618.00	8,327.00	7,758.92	124.84	42.76	91.83	1,086.78	811.02	4,708.12	4,628.44	79.68	59.089	
10,200.00	7,618.00	8,327.00	7,758.92	124.69	42.76	91.83	1,086.78	811.02	4,705.27	4,625.13	80.14	58.713	
10,300.00	7,618.00	8,384.30	7,774.53	124.41	42.69	92.02	1,031.75	814.19	4,700.54	4,620.05	80.50	58.393	
10,400.00	7,618.00	8,416.00	7,781.93	124.14	42.66	92.11	1,000.94	815.28	4,697.53	4,616.43	81.10	57.924	
10,500.00	7,618.00	8,416.00	7,781.93	123.88	42.66	92.11	1,000.94	815.28	4,696.32	4,614.27	82.04	57.241	
10,541.21	7,618.00	8,450.77	7,788.72	123.78	42.61	92.19	966.85	815.80	4,695.93	4,613.83	82.10	57.197	
10,600.00	7,618.00	8,465.53	7,791.10	123.63	42.59	92.22	952.29	815.78	4,696.20	4,613.69	82.52	56.913	
10,700.00	7,618.00	8,505.00	7,796.00	123.40	42.54	92.28	913.13	814.98	4,698.03	4,614.94	83.09	56.545	
10,800.00	7,618.00	8,814.38	7,804.64	123.18	42.44	92.39	604.03	816.81	4,695.49	4,613.98	81.51	57.605	
10,900.00	7,618.00	8,861.00	7,804.98	122.96	42.49	92.39	557.42	817.22	4,694.05	4,611.92	82.14	57.149	
10,950.64	7,618.00	8,861.00	7,804.98	122.86	42.49	92.39	557.42	817.22	4,693.78	4,611.20	82.58	56.837	
11,000.00	7,618.00	8,861.00	7,804.98	122.76	42.49	92.39	557.42	817.22	4,694.04	4,611.02	83.02	56.544	
11,100.00	7,618.00	8,913.77	7,804.77	122.57	42.53	92.39	504.65	816.54	4,695.27	4,611.60	83.67	56.115	
11,200.00	7,618.00	8,950.00	7,804.26	122.39	42.57	92.38	468.45	815.37	4,698.04	4,613.62	84.42	55.653	
11,300.00	7,618.00	9,173.55	7,803.34	122.23	43.01	92.37	245.00	809.28	4,700.74	4,615.92	84.82	55.417	
11,400.00	7,618.00	11,400.00	7,802.74	122.07	66.09	92.36	128.23	808.16	4,701.34	4,599.16	102.18	46.010	
11,500.00	7,618.00	9,455.24	7,803.36	121.93	44.23	92.37	-36.67	808.37	4,700.77	4,613.66	87.11	53.965	
11,600.00	7,618.00	9,544.41	7,802.97	121.79	44.77	92.37	-125.84	808.91	4,699.83	4,611.51	88.32	53.214	
11,700.00	7,618.00	9,641.57	7,801.82	121.67	45.44	92.35	-222.99	809.12	4,699.22	4,609.55	89.67	52.404	
11,783.72	7,618.00	9,688.08	7,800.86	121.58	45.79	92.34	-269.49	809.15	4,698.90	4,608.29	90.60	51.861	
11,800.00	7,618.00	9,694.27	7,800.67	121.56	45.83	92.34	-275.68	809.10	4,698.94	4,608.18	90.76	51.772	
11,900.00	7,618.00	9,752.00	7,798.15	121.46	46.28	92.31	-333.34	808.03	4,700.05	4,608.15	91.90	51.141	
12,000.00	7,618.00	10,069.13	7,799.60	121.38	49.25	92.33	-650.19	812.14	4,697.24	4,601.20	96.03	48.912	
12,100.00	7,618.00	10,172.68	7,803.07	121.30	50.37	92.37	-753.64	815.31	4,693.98	4,595.92	98.06	47.869	
12,200.00	7,618.00	10,294.18	7,806.80	121.24	51.75	92.42	-875.01	819.54	4,690.29	4,589.83	100.46	46.689	
12,300.00	7,618.00	12,300.00	7,809.22	121.19	78.71	92.45	-1,005.04	824.28	4,686.49	4,557.76	128.73	36.406	
12,400.00	7,618.00	10,503.16	7,810.68	121.16	54.29	92.47	-1,083.78	827.84	4,681.82	4,576.84	104.99	44.595	
12,500.00	7,618.00	10,554.00	7,811.05	121.14	54.92	92.48	-1,134.60	829.16	4,678.59	4,572.23	106.36	43.988	
12,600.00	7,618.00	10,577.03	7,811.02	121.13	55.21	92.48	-1,157.62	829.44	4,676.52	4,569.27	107.25	43.604	
12,700.00	7,618.00	10,643.00	7,810.67	121.13	56.04	92.47	-1,223.59	829.84	4,675.53	4,566.62	108.91	42.930	
12,783.37	7,618.00	10,694.69	7,810.18	121.14	56.69	92.47	-1,275.28	829.78	4,675.29	4,565.03	110.25	42.404	
12,800.00	7,618.00	10,705.95	7,810.06	121.15	56.83	92.46	-1,286.54	829.73	4,675.30	4,564.76	110.54	42.296	
12,900.00	7,618.00	10,799.69	7,808.83	121.18	58.03	92.45	-1,380.27	829.08	4,675.59	4,562.83	112.76	41.465	
13,000.00	7,618.00	10,911.58	7,806.47	121.23	59.50	92.42	-1,492.13	828.46	4,675.72	4,560.33	115.39	40.522	
13,011.90	7,618.00	10,924.94	7,806.08	121.23	59.68	92.42	-1,505.49	828.40	4,675.71	4,560.01	115.70	40.411	
13,100.00	7,618.00	11,013.50	7,801.61	121.29	60.87	92.36	-1,593.92	827.90	4,675.73	4,557.88	117.86	39.672	
13,200.00	7,618.00	11,123.82	7,794.17	121.37	62.38	92.27	-1,704.00	827.40	4,675.58	4,555.03	120.54	38.788	
13,274.68	7,618.00	11,186.90	7,789.59	121.43	63.25	92.21	-1,766.91	827.14	4,675.43	4,553.26	122.17	38.269	
13,300.00	7,618.00	11,205.03	7,788.24	121.46	63.50	92.20	-1,784.99	827.01	4,675.45	4,552.79	122.65	38.119	
13,400.00	7,618.00	11,295.32	7,781.28	121.57	64.77	92.11	-1,875.00	826.12	4,675.80	4,550.82	124.98	37.411	
13,500.00	7,618.00	11,398.70	7,772.95	121.70	66.23	92.01	-1,978.04	825.15	4,676.11	4,548.47	127.64	36.636	
13,600.00	7,618.00	11,534.90	7,760.19	121.84	68.19	91.85	-2,113.64	824.26	4,676.15	4,545.07	131.08	35.674	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
13,700.00	7,618.00	11,627.25	7,750.68	122.01	69.54	91.74	-2,205.49	824.29	4,675.48	4,541.92	133.56	35.007	
13,728.13	7,618.00	11,641.91	7,749.55	122.06	69.76	91.72	-2,220.11	824.22	4,675.44	4,541.44	134.00	34.891	
13,800.00	7,618.00	11,681.00	7,747.32	122.19	70.33	91.70	-2,259.13	823.88	4,675.71	4,540.54	135.16	34.593	
13,900.00	7,618.00	11,828.79	7,743.14	122.39	72.52	91.64	-2,406.86	823.88	4,674.99	4,535.86	139.13	33.602	
13,929.31	7,618.00	11,846.19	7,743.04	122.46	72.78	91.64	-2,424.25	823.85	4,674.93	4,535.28	139.66	33.475	
14,000.00	7,618.00	11,897.30	7,743.27	122.62	73.54	91.65	-2,475.36	823.59	4,675.06	4,533.89	141.16	33.118	
14,100.00	7,618.00	12,000.38	7,745.30	122.86	75.09	91.67	-2,578.42	822.80	4,675.55	4,531.43	144.12	32.442	
14,200.00	7,618.00	12,169.07	7,749.10	123.12	77.67	91.72	-2,747.06	823.81	4,674.39	4,525.51	148.88	31.396	
14,300.00	7,618.00	12,250.15	7,752.50	123.41	78.92	91.76	-2,828.07	824.19	4,673.65	4,522.31	151.34	30.881	
14,400.00	7,618.00	12,408.11	7,759.48	123.72	81.38	91.85	-2,985.85	826.23	4,672.11	4,516.14	155.97	29.955	
14,500.00	7,618.00	12,517.97	7,763.99	124.06	83.11	91.90	-3,095.60	828.61	4,669.72	4,510.42	159.30	29.314	
14,600.00	7,618.00	12,599.21	7,768.10	124.42	84.39	91.95	-3,176.72	829.94	4,667.87	4,506.04	161.83	28.844	
14,700.00	7,618.00	12,694.32	7,772.86	124.80	85.90	92.01	-3,271.70	831.80	4,665.77	4,500.99	164.78	28.315	
14,800.00	7,618.00	12,750.00	7,775.94	125.21	86.79	92.05	-3,327.29	832.32	4,664.63	4,498.04	166.59	28.001	
14,900.00	7,618.00	12,907.68	7,784.79	125.65	89.30	92.16	-3,484.71	833.82	4,663.71	4,492.30	171.41	27.208	
15,000.00	7,618.00	12,971.21	7,788.45	126.11	90.32	92.21	-3,548.12	834.93	4,661.95	4,488.48	173.46	26.876	
15,100.00	7,618.00	13,021.31	7,791.60	126.61	91.13	92.25	-3,598.13	835.18	4,661.31	4,486.20	175.11	26.619	
15,200.00	7,618.00	15,200.00	7,801.49	127.13	126.81	92.37	-3,767.92	836.93	4,660.00	4,446.18	213.82	21.794	
15,300.00	7,618.00	13,251.87	7,804.55	127.68	94.85	92.41	-3,828.30	837.74	4,658.65	4,476.28	182.36	25.546	
15,368.62	7,618.00	13,285.00	7,806.01	128.07	95.39	92.42	-3,861.40	837.81	4,658.38	4,474.92	183.45	25.393	
15,400.00	7,618.00	13,285.00	7,806.01	128.26	95.39	92.42	-3,861.40	837.81	4,658.48	4,474.99	183.48	25.389	
15,500.00	7,618.00	13,353.62	7,808.22	128.87	96.49	92.45	-3,929.97	837.22	4,659.25	4,473.57	185.67	25.094	
15,600.00	7,618.00	13,443.27	7,809.25	129.51	97.93	92.46	-4,019.61	835.51	4,660.84	4,472.34	188.50	24.725	
15,700.00	7,618.00	13,563.87	7,807.91	130.18	99.87	92.45	-4,140.18	833.53	4,662.09	4,469.80	192.29	24.246	
15,800.00	7,618.00	13,950.54	7,811.67	130.88	106.26	92.50	-4,526.50	842.62	4,657.48	4,453.06	204.43	22.783	
15,900.00	7,618.00	13,997.00	7,812.30	131.61	107.04	92.51	-4,572.91	844.65	4,652.94	4,446.92	206.02	22.585	
16,000.00	7,618.00	14,028.08	7,812.57	132.37	107.55	92.51	-4,603.98	845.59	4,649.73	4,442.63	207.10	22.452	
16,100.00	7,618.00	14,054.57	7,812.72	133.17	107.99	92.51	-4,630.46	845.94	4,648.12	4,440.11	208.01	22.346	
16,169.83	7,618.00	14,086.00	7,812.81	133.74	108.51	92.51	-4,661.89	845.80	4,647.99	4,438.95	209.04	22.235	
16,200.00	7,618.00	14,086.00	7,812.81	133.99	108.51	92.51	-4,661.89	845.80	4,648.09	4,439.05	209.04	22.235	
16,300.00	7,618.00	14,125.84	7,812.60	134.84	109.16	92.51	-4,701.72	845.06	4,649.47	4,439.15	210.32	22.107	
16,400.00	7,618.00	14,176.00	7,811.61	135.72	109.98	92.50	-4,751.85	843.59	4,651.96	4,440.05	211.91	21.953	
16,500.00	7,618.00	14,340.06	7,811.64	136.63	112.66	92.50	-4,915.84	839.41	4,654.10	4,436.86	217.24	21.424	
16,600.00	7,618.00	14,484.09	7,812.29	137.57	115.04	92.50	-5,059.85	837.51	4,655.03	4,433.09	221.94	20.975	
16,700.00	7,618.00	14,600.54	7,813.98	138.54	116.97	92.52	-5,176.29	836.43	4,655.70	4,429.95	225.75	20.623	
16,800.00	7,618.00	14,779.72	7,816.03	139.53	119.96	92.55	-5,355.45	836.98	4,655.05	4,423.40	231.65	20.095	
16,900.00	7,618.00	14,860.29	7,817.35	140.55	121.31	92.57	-5,436.01	837.79	4,653.81	4,419.49	234.32	19.861	
17,000.00	7,618.00	14,979.22	7,819.41	141.60	123.31	92.59	-5,554.92	838.63	4,652.87	4,414.61	238.26	19.528	
17,100.00	7,618.00	15,046.73	7,821.04	142.67	124.45	92.61	-5,622.40	839.15	4,651.87	4,411.37	240.50	19.342	
17,200.00	7,618.00	15,181.83	7,826.02	143.77	126.73	92.67	-5,757.40	840.10	4,651.06	4,406.04	245.02	18.983	
17,300.00	7,618.00	15,286.34	7,828.48	144.88	128.49	92.71	-5,861.87	841.42	4,649.57	4,401.06	248.51	18.710	
17,400.00	7,618.00	15,373.24	7,829.83	146.02	129.96	92.72	-5,948.76	842.38	4,648.20	4,396.80	251.41	18.489	
17,500.00	7,618.00	15,430.00	7,830.67	147.19	130.92	92.73	-6,005.51	842.87	4,647.24	4,393.95	253.29	18.347	
17,561.62	7,618.00	15,478.04	7,831.55	147.91	131.74	92.75	-6,053.54	842.99	4,646.98	4,392.09	254.89	18.231	
17,600.00	7,618.00	15,497.25	7,832.00	148.37	132.06	92.75	-6,072.75	842.91	4,647.06	4,391.54	255.52	18.187	
17,700.00	7,618.00	15,593.54	7,834.71	149.57	133.68	92.78	-6,168.99	842.06	4,647.73	4,388.99	258.74	17.963	
17,800.00	7,618.00	15,791.41	7,841.01	150.79	137.04	92.86	-6,366.76	843.20	4,646.78	4,381.33	265.45	17.506	
17,900.00	7,618.00	15,895.48	7,844.06	152.03	138.81	92.90	-6,470.77	844.64	4,645.21	4,376.25	268.96	17.271	
18,000.00	7,618.00	15,991.66	7,846.91	153.29	140.45	92.94	-6,566.90	846.31	4,643.30	4,371.09	272.21	17.058	
18,100.00	7,618.00	16,053.00	7,848.41	154.57	141.50	92.96	-6,628.22	846.79	4,642.23	4,367.97	274.26	16.926	
18,200.00	7,618.00	16,133.02	7,850.37	155.86	142.86	92.98	-6,708.21	846.91	4,641.82	4,364.88	276.95	16.761	
18,300.00	7,618.00	16,348.73	7,854.89	157.17	146.56	93.04	-6,923.82	850.86	4,639.24	4,354.94	284.29	16.318	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
18,400.00	7,618.00	16,410.00	7,855.25	158.49	147.61	93.04	-6,985.08	851.97	4,637.01	4,350.64	286.37	16.193	
18,500.00	7,618.00	16,460.96	7,855.42	159.82	148.48	93.05	-7,036.04	852.40	4,635.69	4,347.63	288.06	16.093	
18,600.00	7,618.00	16,542.65	7,855.70	161.17	149.87	93.05	-7,117.72	852.69	4,635.00	4,344.19	290.81	15.938	
18,700.00	7,618.00	16,631.63	7,855.97	162.54	151.39	93.05	-7,206.70	852.81	4,634.55	4,340.74	293.81	15.774	
18,800.00	7,618.00	16,736.93	7,856.65	163.91	153.19	93.06	-7,312.00	852.77	4,634.29	4,336.91	297.38	15.584	
18,900.00	7,618.00	16,869.49	7,858.83	165.30	155.46	93.09	-7,444.55	853.43	4,633.55	4,331.64	301.91	15.347	
19,000.00	7,618.00	17,047.58	7,862.03	166.70	158.53	93.13	-7,622.57	856.60	4,631.51	4,323.49	308.02	15.036	
19,100.00	7,618.00	17,180.24	7,864.10	168.10	160.82	93.16	-7,755.17	860.52	4,628.29	4,315.74	312.56	14.808	
19,200.00	7,618.00	17,268.63	7,864.89	169.52	162.35	93.17	-7,843.50	863.37	4,624.80	4,309.22	315.58	14.655	
19,300.00	7,618.00	17,340.43	7,865.18	170.95	163.60	93.18	-7,915.28	865.30	4,621.81	4,303.78	318.03	14.532	
19,400.00	7,618.00	17,410.28	7,865.24	172.39	164.80	93.18	-7,985.11	866.69	4,619.48	4,299.08	320.40	14.418	
19,500.00	7,618.00	17,487.11	7,865.72	173.84	166.13	93.19	-8,061.93	867.79	4,617.75	4,294.74	323.01	14.296	
19,600.00	7,618.00	17,584.06	7,866.88	175.30	167.80	93.20	-8,158.87	869.05	4,616.18	4,289.86	326.32	14.146	
19,700.00	7,618.00	17,657.00	7,867.72	176.76	169.06	93.21	-8,231.80	869.59	4,615.13	4,286.34	328.79	14.037	
19,800.00	7,618.00	17,724.86	7,868.39	178.24	170.22	93.22	-8,299.66	869.66	4,614.71	4,283.66	331.06	13.939	
19,833.36	7,618.00	17,750.73	7,868.64	178.73	170.67	93.23	-8,325.53	869.61	4,614.69	4,282.76	331.93	13.903	
19,896.19	7,618.00	17,805.67	7,869.13	179.66	171.61	93.23	-8,380.46	869.38	4,614.76	4,280.98	333.79	13.825	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-36.75	218.57	-163.24	272.92				
100.00	100.00	94.45	94.44	0.13	0.16	-36.86	217.94	-163.38	272.39	272.10	0.29	928.375	
200.00	200.00	197.84	197.81	0.49	0.39	-37.23	215.69	-163.92	270.97	270.09	0.88	306.572	
300.00	299.98	300.15	299.94	0.85	0.77	-108.04	210.24	-166.16	268.63	267.01	1.62	166.292	
369.11	369.02	366.84	366.38	1.10	1.03	-109.85	205.42	-169.25	267.87	265.75	2.11	126.761	CC
400.00	399.84	395.35	394.78	1.21	1.14	-110.76	203.38	-170.92	268.08	265.74	2.33	114.874	ES
500.00	499.45	488.05	487.04	1.58	1.50	-114.15	197.53	-177.60	271.75	268.69	3.07	88.548	
600.00	598.70	580.39	578.76	1.97	1.87	-118.24	191.74	-186.59	280.11	276.28	3.83	73.205	
700.00	697.47	670.18	667.53	2.38	2.24	-122.91	185.09	-198.32	293.98	289.38	4.60	63.945	
800.00	795.62	756.64	752.60	2.83	2.63	-127.65	178.22	-212.09	314.41	309.04	5.37	58.579	
900.00	893.06	839.11	833.21	3.31	3.02	-132.25	170.89	-227.88	342.16	336.04	6.11	55.955	
1,000.00	989.64	922.30	914.05	3.83	3.44	-136.65	163.30	-246.00	377.29	370.44	6.85	55.047	
1,100.00	1,085.27	1,015.72	1,004.89	4.40	3.91	-141.17	154.05	-265.72	416.76	409.12	7.64	54.576	SF
1,200.00	1,179.82	1,101.88	1,088.82	5.02	4.36	-144.83	145.18	-283.03	460.11	451.74	8.37	54.967	
1,300.00	1,273.17	1,186.84	1,171.47	5.70	4.80	-148.10	135.67	-300.28	508.01	498.93	9.09	55.910	
1,400.00	1,365.21	1,276.54	1,258.98	6.43	5.26	-151.14	125.77	-317.28	559.02	549.20	9.83	56.892	
1,500.00	1,455.84	1,359.72	1,340.38	7.23	5.68	-153.54	117.01	-332.06	612.98	602.46	10.52	58.261	
1,600.00	1,544.94	1,431.98	1,411.02	8.09	6.05	-155.33	109.28	-345.14	670.84	659.70	11.14	60.194	
1,700.00	1,632.39	1,498.02	1,475.44	9.01	6.39	-156.75	102.17	-357.78	732.92	721.19	11.73	62.501	
1,800.00	1,718.11	1,563.60	1,539.29	10.00	6.74	-157.99	95.20	-371.05	798.97	786.67	12.31	64.924	
1,900.00	1,801.97	1,628.92	1,602.78	11.07	7.09	-159.10	88.07	-384.62	868.40	855.51	12.89	67.389	
2,000.00	1,883.88	1,696.43	1,668.37	12.20	7.45	-160.18	80.45	-398.67	940.67	927.18	13.49	69.746	
2,100.00	1,963.74	1,764.65	1,734.69	13.41	7.82	-161.15	72.81	-412.71	1,015.40	1,001.31	14.10	72.036	
2,200.00	2,041.45	1,834.28	1,802.53	14.69	8.19	-162.00	65.75	-426.74	1,092.25	1,077.53	14.72	74.200	
2,300.00	2,116.92	1,905.85	1,872.41	16.05	8.56	-162.77	58.86	-440.55	1,170.85	1,155.49	15.36	76.216	
2,357.48	2,159.25	1,943.20	1,908.96	16.86	8.74	-163.07	55.67	-447.58	1,216.83	1,201.12	15.70	77.486	
2,400.00	2,190.27	1,971.20	1,936.38	17.47	8.88	-163.59	53.60	-452.82	1,251.03	1,235.07	15.96	78.393	
2,500.00	2,263.22	2,026.79	1,990.88	18.92	9.16	-164.49	50.13	-463.25	1,331.48	1,315.00	16.48	80.811	
2,600.00	2,336.18	2,076.39	2,039.45	20.37	9.41	-165.20	47.17	-472.84	1,412.33	1,395.38	16.95	83.326	
2,700.00	2,409.14	2,122.65	2,084.69	21.84	9.64	-165.80	44.52	-482.11	1,493.66	1,476.26	17.40	85.854	
2,800.00	2,482.09	2,167.39	2,128.38	23.31	9.87	-166.30	42.20	-491.48	1,575.50	1,557.66	17.84	88.336	
2,900.00	2,555.05	2,215.69	2,175.47	24.78	10.11	-166.79	39.85	-501.95	1,657.77	1,639.47	18.30	90.572	
3,000.00	2,628.01	2,265.12	2,223.62	26.27	10.37	-167.26	37.28	-512.82	1,740.31	1,721.53	18.78	92.662	
3,100.00	2,700.96	2,318.13	2,275.23	27.75	10.65	-167.72	34.45	-524.60	1,823.05	1,803.76	19.29	94.503	
3,200.00	2,773.92	2,373.05	2,328.68	29.24	10.94	-168.15	31.67	-536.90	1,905.88	1,886.06	19.82	96.166	
3,300.00	2,846.88	2,441.48	2,395.34	30.73	11.29	-168.63	28.44	-552.06	1,988.55	1,968.09	20.46	97.189	
3,400.00	2,919.83	2,492.49	2,445.06	32.23	11.56	-168.95	26.03	-563.18	2,071.07	2,050.11	20.96	98.807	
3,500.00	2,992.79	2,536.07	2,487.49	33.72	11.79	-169.24	23.45	-572.78	2,153.90	2,132.51	21.40	100.658	
3,600.00	3,065.75	2,594.73	2,544.55	35.22	12.10	-169.62	19.38	-585.75	2,236.96	2,215.00	21.96	101.850	
3,700.00	3,138.71	2,665.72	2,613.70	36.72	12.48	-170.06	14.39	-601.03	2,319.74	2,297.10	22.63	102.486	
3,800.00	3,211.66	2,725.07	2,671.55	38.22	12.79	-170.40	10.07	-613.56	2,402.35	2,379.14	23.21	103.511	
3,900.00	3,284.62	2,802.20	2,746.82	39.72	13.19	-170.82	4.43	-629.44	2,484.70	2,460.77	23.93	103.820	
4,000.00	3,357.58	2,877.88	2,820.82	41.22	13.58	-171.18	-0.73	-644.44	2,566.55	2,541.90	24.65	104.139	
4,100.00	3,430.53	2,938.62	2,880.27	42.73	13.89	-171.46	-4.80	-656.17	2,648.12	2,622.88	25.23	104.942	
4,200.00	3,503.49	2,975.29	2,916.14	44.23	14.07	-171.61	-7.25	-663.43	2,729.97	2,704.34	25.62	106.546	
4,300.00	3,576.45	3,021.00	2,960.76	45.74	14.31	-171.79	-10.29	-672.87	2,812.28	2,786.20	26.09	107.802	
4,400.00	3,649.40	3,042.11	2,981.32	47.25	14.42	-171.87	-11.73	-677.39	2,895.00	2,868.66	26.34	109.898	
4,500.00	3,722.36	3,070.61	3,009.04	48.75	14.58	-171.98	-13.77	-683.69	2,978.27	2,951.61	26.66	111.714	
4,600.00	3,795.32	3,114.00	3,051.13	50.26	14.81	-172.14	-17.08	-693.73	3,062.11	3,035.00	27.11	112.966	
4,700.00	3,868.27	3,139.88	3,076.18	51.77	14.96	-172.23	-19.15	-699.86	3,146.22	3,118.82	27.40	114.826	
4,800.00	3,941.23	3,201.39	3,135.77	53.28	15.30	-172.45	-24.20	-714.28	3,230.38	3,202.37	28.01	115.332	
4,900.00	4,014.19	3,357.04	3,287.16	54.79	16.14	-172.98	-37.16	-748.01	3,313.60	3,284.16	29.44	112.558	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,087.15	3,418.97	3,347.65	56.30	16.47	-173.17	-42.09	-760.33	3,395.81	3,365.76	30.05	113.006	
5,100.00	4,160.10	3,450.42	3,378.33	57.81	16.63	-173.26	-44.60	-766.77	3,478.36	3,447.96	30.40	114.426	
5,200.00	4,233.06	3,490.00	3,416.87	59.32	16.84	-173.37	-47.81	-775.18	3,561.33	3,530.51	30.82	115.564	
5,300.00	4,306.02	3,509.28	3,435.62	60.83	16.95	-173.43	-49.36	-779.42	3,644.67	3,613.61	31.06	117.348	
5,400.00	4,378.97	3,535.88	3,461.44	62.34	17.10	-173.49	-51.47	-785.46	3,728.45	3,697.09	31.36	118.877	
5,500.00	4,451.93	3,561.90	3,486.64	63.85	17.24	-173.56	-53.47	-791.58	3,812.64	3,780.98	31.66	120.410	
5,600.00	4,524.89	3,610.57	3,533.72	65.36	17.51	-173.66	-57.07	-803.43	3,897.21	3,865.04	32.17	121.153	
5,700.00	4,597.84	3,798.42	3,716.40	66.88	18.53	-174.04	-70.22	-845.06	3,980.10	3,946.20	33.91	117.390	
5,800.00	4,670.80	3,830.04	3,747.22	68.39	18.70	-174.11	-72.62	-851.68	4,062.89	4,028.63	34.26	118.591	
5,900.00	4,743.76	3,864.00	3,780.29	69.90	18.88	-174.18	-75.17	-859.01	4,146.01	4,111.38	34.63	119.707	
6,000.00	4,816.71	3,949.93	3,863.95	71.41	19.34	-174.35	-81.98	-877.37	4,229.12	4,193.65	35.47	119.236	
6,100.00	4,889.67	4,008.95	3,921.48	72.93	19.65	-174.47	-86.91	-889.59	4,311.93	4,275.87	36.06	119.561	
6,200.00	4,962.63	4,054.00	3,965.40	74.44	19.89	-174.56	-90.59	-898.95	4,394.77	4,358.23	36.54	120.274	
6,300.00	5,035.59	4,097.37	4,007.64	75.95	20.13	-174.64	-94.26	-908.04	4,477.76	4,440.76	37.00	121.017	
6,400.00	5,108.54	4,133.47	4,042.77	77.47	20.32	-174.71	-97.57	-915.69	4,560.99	4,523.59	37.40	121.958	
6,500.00	5,181.50	5,277.20	5,174.32	78.98	24.86	-176.14	-148.86	-1,039.33	4,638.34	4,591.96	46.38	100.014	
6,600.00	5,254.46	5,367.43	5,264.54	80.49	25.08	-176.23	-149.78	-1,038.84	4,706.50	4,659.34	47.16	99.795	
6,700.00	5,327.41	5,449.32	5,346.42	82.01	25.28	-176.31	-150.82	-1,038.10	4,774.47	4,726.58	47.89	99.694	
6,800.00	5,400.37	5,503.34	5,400.43	83.52	25.41	-176.36	-151.54	-1,037.63	4,842.50	4,794.05	48.45	99.957	
6,900.00	5,473.33	5,554.97	5,452.06	85.04	25.54	-176.41	-152.19	-1,037.45	4,910.86	4,861.87	48.98	100.255	
7,000.00	5,546.28	5,620.73	5,517.81	86.55	25.72	-176.46	-152.77	-1,037.50	4,979.43	4,929.80	49.62	100.347	
7,100.00	5,619.24	5,696.46	5,593.54	88.06	25.92	-176.51	-152.95	-1,037.77	5,048.05	4,997.72	50.33	100.303	
7,200.00	5,692.20	5,775.68	5,672.76	89.58	26.14	-176.56	-152.61	-1,038.11	5,116.58	5,065.52	51.06	100.215	
7,300.00	5,765.15	5,849.51	5,746.59	91.09	26.34	-176.60	-152.18	-1,038.40	5,185.04	5,133.30	51.75	100.203	
7,400.00	5,838.11	5,915.18	5,812.26	92.61	26.52	-176.63	-151.77	-1,038.73	5,253.57	5,201.19	52.38	100.295	
7,500.00	5,911.07	5,974.83	5,871.91	94.12	26.68	-176.66	-151.42	-1,039.13	5,322.23	5,269.25	52.98	100.460	
7,600.00	5,984.03	6,033.38	5,930.45	95.64	26.85	-176.68	-151.15	-1,039.66	5,391.08	5,337.51	53.57	100.637	
7,700.00	6,056.98	6,092.29	5,989.36	97.15	27.01	-176.71	-150.85	-1,040.36	5,460.11	5,405.95	54.16	100.806	
7,800.00	6,129.94	6,162.24	6,059.30	98.67	27.22	-176.74	-150.48	-1,041.33	5,529.28	5,474.44	54.84	100.827	
7,900.00	6,202.90	6,225.92	6,122.97	100.18	27.40	-176.77	-150.33	-1,042.14	5,598.45	5,542.98	55.47	100.927	
8,000.00	6,275.85	6,272.87	6,169.93	101.70	27.55	-176.79	-150.28	-1,042.90	5,667.87	5,611.89	55.98	101.243	
8,100.00	6,348.81	6,336.34	6,233.38	103.21	27.74	-176.82	-150.23	-1,044.18	5,737.57	5,680.96	56.61	101.346	
8,200.00	6,421.77	6,415.54	6,312.57	104.73	27.98	-176.85	-150.05	-1,045.73	5,807.19	5,749.83	57.36	101.242	
8,300.00	6,494.72	6,482.94	6,379.95	106.24	28.18	-176.88	-149.82	-1,047.07	5,876.81	5,818.79	58.02	101.289	
8,400.00	6,567.68	6,567.62	6,464.62	107.76	28.44	-176.91	-149.53	-1,048.70	5,946.39	5,887.59	58.81	101.116	
8,500.00	6,640.64	6,728.88	6,625.86	109.27	28.91	-176.99	-149.98	-1,050.23	6,015.57	5,955.43	60.14	100.024	
8,600.00	6,713.59	6,830.91	6,727.88	110.79	29.19	-177.05	-151.07	-1,049.54	6,083.65	6,022.61	61.03	99.675	
8,700.00	6,786.55	6,891.35	6,788.32	112.30	29.35	-177.08	-151.40	-1,049.24	6,151.78	6,090.14	61.64	99.803	
8,800.00	6,859.51	6,944.36	6,841.33	113.82	29.50	-177.11	-151.72	-1,049.13	6,220.12	6,157.93	62.19	100.014	
8,900.00	6,932.46	6,998.57	6,895.54	115.33	29.65	-177.14	-152.10	-1,049.19	6,288.70	6,225.94	62.76	100.204	
9,000.00	7,005.42	7,052.97	6,949.93	116.85	29.81	-177.16	-152.47	-1,049.41	6,357.48	6,294.15	63.33	100.390	
9,104.89	7,081.95	7,111.03	7,007.99	118.44	29.99	-177.19	-152.96	-1,049.79	6,429.85	6,365.91	63.93	100.570	
9,150.00	7,115.15	7,136.14	7,033.10	119.12	30.06	173.94	-153.21	-1,049.99	6,460.72	6,396.52	64.19	100.645	
9,200.00	7,152.46	7,163.86	7,060.81	119.86	30.15	164.19	-153.51	-1,050.24	6,494.09	6,429.62	64.48	100.722	
9,250.00	7,190.04	7,191.61	7,088.56	120.57	30.23	154.69	-153.81	-1,050.54	6,526.35	6,461.60	64.75	100.790	
9,300.00	7,227.59	7,219.30	7,116.25	121.25	30.32	145.60	-154.10	-1,050.88	6,557.26	6,492.24	65.02	100.851	
9,350.00	7,264.83	7,260.94	7,157.89	121.89	30.45	137.13	-154.55	-1,051.43	6,586.60	6,521.21	65.38	100.740	
9,400.00	7,301.48	7,321.13	7,218.07	122.48	30.63	129.44	-155.31	-1,052.02	6,614.02	6,548.15	65.87	100.406	
9,450.00	7,337.26	7,352.33	7,249.26	123.01	30.73	122.36	-155.77	-1,052.24	6,639.40	6,573.27	66.14	100.385	
9,500.00	7,371.90	7,378.46	7,275.39	123.49	30.81	116.02	-156.23	-1,052.45	6,662.70	6,596.34	66.36	100.404	
9,550.00	7,405.13	7,403.65	7,300.58	123.91	30.89	110.45	-156.73	-1,052.65	6,683.76	6,617.20	66.56	100.413	
9,600.00	7,436.70	7,681.58	7,578.43	124.27	31.68	107.32	-161.32	-1,050.43	6,702.20	6,633.63	68.57	97.741	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,650.00	7,466.36	9,650.00	7,738.18	124.57	36.69	104.21	-160.32	-1,045.52	6,717.13	6,641.94	75.18	89.343	
9,700.00	7,493.91	7,998.78	7,895.33	124.81	32.48	101.79	-156.73	-1,038.18	6,728.93	6,658.18	70.74	95.116	
9,750.00	7,519.11	9,750.00	7,879.62	125.00	36.85	98.72	-157.21	-1,039.02	6,738.12	6,662.12	75.99	88.665	
9,800.00	7,541.79	7,984.00	7,880.57	125.12	32.44	96.32	-157.19	-1,038.97	6,744.90	6,674.21	70.70	95.404	
9,850.00	7,561.77	8,013.82	7,910.35	125.20	32.52	94.66	-156.46	-1,037.44	6,749.08	6,678.16	70.93	95.153	
9,900.00	7,578.90	8,020.91	7,917.42	125.23	32.54	93.30	-156.34	-1,037.09	6,750.87	6,679.85	71.01	95.066	
9,950.00	7,593.04	8,026.78	7,923.28	125.22	32.55	92.39	-156.26	-1,036.81	6,750.16	6,679.07	71.10	94.941	
10,000.00	7,604.09	8,031.37	7,927.87	125.17	32.56	91.90	-156.20	-1,036.58	6,746.99	6,675.80	71.19	94.775	
10,050.00	7,611.97	8,034.62	7,931.12	125.08	32.57	91.83	-156.17	-1,036.43	6,741.37	6,670.08	71.29	94.566	
10,100.00	7,616.61	8,036.48	7,932.98	124.97	32.58	92.17	-156.15	-1,036.34	6,733.35	6,661.96	71.40	94.310	
10,145.95	7,618.00	8,036.92	7,933.42	124.84	32.58	92.83	-156.14	-1,036.32	6,723.91	6,652.40	71.51	94.033	
10,200.00	7,618.00	8,036.71	7,933.20	124.69	32.58	92.83	-156.15	-1,036.33	6,711.86	6,640.21	71.65	93.678	
10,300.00	7,618.00	8,036.30	7,932.79	124.41	32.58	92.83	-156.15	-1,036.35	6,690.66	6,618.72	71.95	92.994	
10,400.00	7,618.00	8,035.87	7,932.37	124.14	32.58	92.82	-156.15	-1,036.37	6,670.90	6,598.61	72.29	92.278	
10,500.00	7,618.00	8,035.43	7,931.93	123.88	32.57	92.82	-156.16	-1,036.39	6,652.58	6,579.90	72.68	91.534	
10,600.00	7,618.00	8,034.97	7,931.47	123.63	32.57	92.81	-156.16	-1,036.41	6,635.71	6,562.60	73.11	90.763	
10,700.00	7,618.00	8,034.50	7,930.99	123.40	32.57	92.81	-156.17	-1,036.44	6,620.32	6,546.73	73.58	89.970	
10,800.00	7,618.00	8,034.00	7,930.50	123.18	32.57	92.81	-156.17	-1,036.46	6,606.40	6,532.30	74.10	89.157	
10,900.00	7,618.00	8,033.49	7,929.98	122.96	32.57	92.80	-156.18	-1,036.48	6,593.97	6,519.31	74.65	88.328	
11,000.00	7,618.00	8,032.95	7,929.45	122.76	32.57	92.80	-156.18	-1,036.51	6,583.03	6,507.79	75.25	87.487	
11,100.00	7,618.00	8,032.39	7,928.89	122.57	32.57	92.79	-156.19	-1,036.54	6,573.60	6,497.72	75.88	86.637	
11,200.00	7,618.00	8,031.81	7,928.31	122.39	32.57	92.79	-156.19	-1,036.56	6,565.68	6,489.14	76.54	85.782	
11,300.00	7,618.00	8,031.20	7,927.70	122.23	32.56	92.78	-156.20	-1,036.59	6,559.27	6,482.03	77.24	84.925	
11,400.00	7,618.00	8,030.56	7,927.07	122.07	32.56	92.78	-156.21	-1,036.62	6,554.38	6,476.42	77.96	84.070	
11,500.00	7,618.00	8,029.90	7,926.40	121.93	32.56	92.77	-156.22	-1,036.66	6,551.02	6,472.30	78.72	83.219	
11,600.00	7,618.00	8,029.20	7,925.70	121.79	32.56	92.76	-156.22	-1,036.69	6,549.18	6,469.67	79.50	82.376	
11,670.53	7,618.00	8,028.69	7,925.19	121.71	32.56	92.76	-156.23	-1,036.71	6,548.80	6,468.72	80.08	81.782	
11,700.00	7,618.00	8,028.47	7,924.98	121.67	32.56	92.76	-156.23	-1,036.72	6,548.86	6,468.55	80.31	81.544	
11,800.00	7,618.00	8,027.70	7,924.21	121.56	32.56	92.75	-156.24	-1,036.76	6,550.08	6,468.94	81.14	80.725	
11,900.00	7,618.00	8,026.90	7,923.40	121.46	32.55	92.74	-156.25	-1,036.80	6,552.82	6,470.82	81.99	79.921	
12,000.00	7,618.00	8,026.05	7,922.56	121.38	32.55	92.74	-156.27	-1,036.84	6,557.08	6,474.22	82.86	79.135	
12,100.00	7,618.00	8,025.16	7,921.67	121.30	32.55	92.73	-156.28	-1,036.88	6,562.86	6,479.12	83.74	78.368	
12,200.00	7,618.00	8,024.21	7,920.73	121.24	32.55	92.72	-156.29	-1,036.93	6,570.16	6,485.52	84.64	77.623	
12,300.00	7,618.00	8,023.22	7,919.73	121.19	32.54	92.71	-156.30	-1,036.98	6,578.98	6,493.42	85.55	76.900	
12,400.00	7,618.00	8,022.17	7,918.68	121.16	32.54	92.70	-156.32	-1,037.03	6,589.30	6,502.82	86.47	76.200	
12,500.00	7,618.00	8,021.05	7,917.56	121.14	32.54	92.69	-156.34	-1,037.08	6,601.11	6,513.71	87.40	75.526	
12,600.00	7,618.00	8,019.86	7,916.38	121.13	32.54	92.68	-156.36	-1,037.14	6,614.42	6,526.08	88.34	74.878	
12,700.00	7,618.00	8,018.60	7,915.12	121.13	32.53	92.67	-156.38	-1,037.20	6,629.21	6,539.93	89.28	74.256	
12,800.00	7,618.00	8,017.26	7,913.78	121.15	32.53	92.66	-156.40	-1,037.27	6,645.47	6,555.25	90.22	73.661	
12,900.00	7,618.00	8,015.83	7,912.35	121.18	32.53	92.65	-156.42	-1,037.34	6,663.19	6,572.03	91.16	73.093	
13,000.00	7,618.00	8,014.29	7,910.81	121.23	32.52	92.63	-156.45	-1,037.42	6,682.36	6,590.26	92.10	72.553	
13,100.00	7,618.00	8,012.64	7,909.17	121.29	32.52	92.62	-156.48	-1,037.50	6,702.97	6,609.93	93.04	72.041	
13,200.00	7,618.00	8,010.87	7,907.40	121.37	32.51	92.60	-156.51	-1,037.59	6,725.00	6,631.02	93.98	71.557	
13,300.00	7,618.00	8,008.95	7,905.49	121.46	32.51	92.59	-156.55	-1,037.68	6,748.45	6,653.53	94.91	71.101	
13,400.00	7,618.00	8,006.88	7,903.42	121.57	32.50	92.57	-156.60	-1,037.79	6,773.28	6,677.44	95.84	70.673	
13,500.00	7,618.00	8,004.64	7,901.18	121.70	32.50	92.55	-156.64	-1,037.90	6,799.50	6,702.74	96.76	70.273	
13,600.00	7,618.00	8,002.19	7,898.73	121.84	32.49	92.53	-156.70	-1,038.03	6,827.08	6,729.41	97.67	69.900	
13,700.00	7,618.00	8,002.34	7,898.88	122.01	32.49	92.53	-156.61	-1,037.99	6,856.00	6,757.41	98.59	69.543	
13,800.00	7,618.00	7,997.98	7,894.52	122.19	32.48	92.49	-156.75	-1,038.23	6,886.26	6,786.79	99.47	69.230	
13,900.00	7,618.00	7,993.73	7,890.28	122.39	32.47	92.45	-156.89	-1,038.45	6,917.82	6,817.48	100.34	68.943	
14,000.00	7,618.00	7,989.74	7,886.30	122.62	32.46	92.42	-157.02	-1,038.67	6,950.69	6,849.48	101.21	68.678	
14,100.00	7,618.00	7,985.73	7,882.30	122.86	32.45	92.38	-157.13	-1,038.88	6,984.82	6,882.76	102.06	68.439	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
14,200.00	7,618.00	7,981.66	7,878.24	123.12	32.44	92.35	-157.26	-1,039.10	7,020.22	6,917.32	102.90	68.223	
14,300.00	7,618.00	7,977.84	7,874.43	123.41	32.43	92.31	-157.37	-1,039.30	7,056.85	6,953.12	103.73	68.030	
14,400.00	7,618.00	7,974.12	7,870.71	123.72	32.42	92.28	-157.48	-1,039.49	7,094.70	6,990.15	104.55	67.860	
14,500.00	7,618.00	7,970.50	7,867.10	124.06	32.41	92.25	-157.59	-1,039.68	7,133.75	7,028.40	105.36	67.711	
14,600.00	7,618.00	7,966.96	7,863.57	124.42	32.40	92.22	-157.69	-1,039.86	7,173.98	7,067.83	106.15	67.584	
14,700.00	7,618.00	7,963.51	7,860.12	124.80	32.39	92.19	-157.79	-1,040.04	7,215.37	7,108.45	106.93	67.478	
14,800.00	7,618.00	7,960.15	7,856.76	125.21	32.39	92.16	-157.88	-1,040.21	7,257.91	7,150.21	107.69	67.393	
14,900.00	7,618.00	7,956.86	7,853.48	125.65	32.38	92.13	-157.97	-1,040.38	7,301.56	7,193.11	108.45	67.328	
15,000.00	7,618.00	7,953.65	7,850.28	126.11	32.37	92.10	-158.06	-1,040.55	7,346.31	7,237.13	109.19	67.283	
15,100.00	7,618.00	7,950.52	7,847.15	126.61	32.36	92.08	-158.15	-1,040.70	7,392.14	7,282.23	109.91	67.257	
15,200.00	7,618.00	7,947.46	7,844.10	127.13	32.35	92.05	-158.23	-1,040.86	7,439.04	7,328.42	110.62	67.249	
15,300.00	7,618.00	7,944.47	7,841.11	127.68	32.35	92.02	-158.31	-1,041.01	7,486.97	7,375.66	111.31	67.260	
15,400.00	7,618.00	7,941.55	7,838.19	128.26	32.34	92.00	-158.39	-1,041.15	7,535.93	7,423.94	112.00	67.288	
15,500.00	7,618.00	7,938.69	7,835.34	128.87	32.33	91.97	-158.46	-1,041.30	7,585.89	7,473.23	112.66	67.333	
15,600.00	7,618.00	7,935.89	7,832.55	129.51	32.33	91.95	-158.53	-1,041.43	7,636.83	7,523.51	113.31	67.395	
15,700.00	7,618.00	7,933.16	7,829.82	130.18	32.32	91.92	-158.60	-1,041.57	7,688.73	7,574.78	113.95	67.474	
15,800.00	7,618.00	7,930.48	7,827.15	130.88	32.31	91.90	-158.67	-1,041.70	7,741.57	7,627.00	114.57	67.568	
15,900.00	7,618.00	7,927.87	7,824.53	131.61	32.31	91.88	-158.73	-1,041.83	7,795.34	7,680.16	115.18	67.678	
16,000.00	7,618.00	7,925.30	7,821.98	132.37	32.30	91.85	-158.80	-1,041.95	7,850.02	7,734.24	115.78	67.802	
16,100.00	7,618.00	7,922.79	7,819.47	133.17	32.29	91.83	-158.86	-1,042.08	7,905.58	7,789.22	116.36	67.941	
16,200.00	7,618.00	7,920.34	7,817.02	133.99	32.29	91.81	-158.92	-1,042.19	7,962.00	7,845.08	116.93	68.094	
16,300.00	7,618.00	7,917.93	7,814.61	134.84	32.28	91.79	-158.97	-1,042.31	8,019.28	7,901.80	117.48	68.261	
16,400.00	7,618.00	7,915.57	7,812.26	135.72	32.28	91.77	-159.03	-1,042.42	8,077.39	7,959.37	118.02	68.441	
16,500.00	7,618.00	7,913.26	7,809.95	136.63	32.27	91.75	-159.08	-1,042.53	8,136.31	8,017.76	118.55	68.634	
16,600.00	7,618.00	7,911.00	7,807.69	137.57	32.26	91.73	-159.14	-1,042.64	8,196.02	8,076.96	119.06	68.840	
16,700.00	7,618.00	7,908.78	7,805.47	138.54	32.26	91.71	-159.19	-1,042.75	8,256.52	8,136.96	119.56	69.058	
16,800.00	7,618.00	7,906.60	7,803.30	139.53	32.25	91.69	-159.24	-1,042.85	8,317.78	8,197.73	120.05	69.287	
16,900.00	7,618.00	7,904.47	7,801.17	140.55	32.25	91.67	-159.28	-1,042.95	8,379.78	8,259.26	120.52	69.528	
17,000.00	7,618.00	7,909.18	7,805.87	141.60	32.26	91.71	-159.17	-1,042.71	8,442.50	8,321.49	121.02	69.763	
17,100.00	7,618.00	7,905.85	7,802.55	142.67	32.25	91.68	-159.25	-1,042.88	8,505.95	8,384.49	121.46	70.029	
17,200.00	7,618.00	7,902.64	7,799.35	143.77	32.24	91.66	-159.32	-1,043.03	8,570.09	8,448.19	121.90	70.306	
17,300.00	7,618.00	7,899.55	7,796.26	144.88	32.24	91.63	-159.39	-1,043.18	8,634.91	8,512.59	122.32	70.593	
17,400.00	7,618.00	7,896.56	7,793.27	146.02	32.23	91.60	-159.46	-1,043.32	8,700.40	8,577.67	122.73	70.889	
17,500.00	7,618.00	7,893.68	7,790.39	147.19	32.22	91.58	-159.52	-1,043.46	8,766.54	8,643.40	123.13	71.195	
17,600.00	7,618.00	7,890.89	7,787.61	148.37	32.21	91.55	-159.58	-1,043.59	8,833.31	8,709.79	123.53	71.510	
17,700.00	7,618.00	7,888.20	7,784.92	149.57	32.21	91.53	-159.63	-1,043.71	8,900.71	8,776.80	123.91	71.834	
17,800.00	7,618.00	7,885.59	7,782.31	150.79	32.20	91.51	-159.69	-1,043.83	8,968.71	8,844.44	124.28	72.167	
17,900.00	7,618.00	7,883.06	7,779.79	152.03	32.20	91.49	-159.74	-1,043.94	9,037.31	8,912.67	124.64	72.508	
18,000.00	7,618.00	7,880.62	7,777.35	153.29	32.19	91.46	-159.78	-1,044.05	9,106.49	8,981.50	124.99	72.857	
18,100.00	7,618.00	7,878.25	7,774.98	154.57	32.18	91.44	-159.83	-1,044.16	9,176.24	9,050.91	125.33	73.214	
18,200.00	7,618.00	7,875.95	7,772.69	155.86	32.18	91.42	-159.87	-1,044.26	9,246.54	9,120.87	125.67	73.579	
18,300.00	7,618.00	7,873.72	7,770.46	157.17	32.17	91.40	-159.92	-1,044.36	9,317.39	9,191.39	125.99	73.951	
18,400.00	7,618.00	7,871.56	7,768.30	158.49	32.17	91.38	-159.96	-1,044.45	9,388.76	9,262.45	126.31	74.331	
18,500.00	7,618.00	7,869.46	7,766.20	159.82	32.16	91.37	-160.00	-1,044.54	9,460.66	9,334.04	126.62	74.718	
18,600.00	7,618.00	7,867.42	7,764.17	161.17	32.16	91.35	-160.03	-1,044.63	9,533.05	9,406.14	126.92	75.112	
18,700.00	7,618.00	7,865.44	7,762.19	162.54	32.15	91.33	-160.07	-1,044.71	9,605.95	9,478.74	127.21	75.512	
18,800.00	7,618.00	7,863.51	7,760.26	163.91	32.15	91.31	-160.10	-1,044.80	9,679.33	9,551.83	127.50	75.919	
18,900.00	7,618.00	7,861.64	7,758.39	165.30	32.14	91.30	-160.13	-1,044.87	9,753.18	9,625.41	127.77	76.332	
19,000.00	7,618.00	7,859.82	7,756.57	166.70	32.14	91.28	-160.16	-1,044.95	9,827.49	9,699.45	128.04	76.752	
19,100.00	7,618.00	7,858.04	7,754.80	168.10	32.13	91.27	-160.19	-1,045.02	9,902.26	9,773.95	128.31	77.177	
19,200.00	7,618.00	7,856.32	7,753.08	169.52	32.13	91.25	-160.22	-1,045.09	9,977.46	9,848.90	128.56	77.609	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-41.60	218.57	-194.04	292.39				
100.00	100.00	90.82	90.81	0.13	0.15	-41.49	219.07	-193.75	292.46	292.18	0.28	1,034.912	ES
200.00	200.00	183.30	183.28	0.49	0.39	-41.19	220.87	-193.31	293.65	292.76	0.89	331.475	
300.00	299.98	270.60	270.45	0.85	0.71	-110.44	225.08	-195.34	299.41	297.84	1.57	190.723	
400.00	399.84	358.61	358.08	1.21	1.04	-111.07	230.97	-200.76	310.36	308.11	2.25	137.825	
500.00	499.45	446.54	445.32	1.58	1.38	-112.13	238.88	-208.45	326.13	323.18	2.95	110.658	
600.00	598.70	533.57	531.26	1.97	1.75	-113.38	248.95	-217.66	346.58	342.93	3.65	95.053	
700.00	697.47	618.50	614.69	2.38	2.14	-114.65	261.08	-227.89	371.63	367.28	4.35	85.374	
800.00	795.62	699.62	693.81	2.83	2.53	-115.87	274.89	-239.24	401.73	396.67	5.06	79.380	
900.00	893.06	779.30	770.94	3.31	2.95	-117.13	289.96	-252.36	436.78	431.00	5.78	75.576	
1,000.00	989.64	854.04	842.66	3.83	3.37	-118.24	305.65	-266.38	476.83	470.34	6.50	73.414	
1,100.00	1,085.27	931.85	916.66	4.40	3.84	-119.34	323.64	-282.38	521.50	514.25	7.26	71.882	
1,200.00	1,179.82	1,019.08	999.34	5.02	4.38	-120.65	344.18	-301.10	569.25	561.15	8.10	70.274	
1,300.00	1,273.17	1,098.38	1,074.55	5.70	4.88	-121.71	362.75	-318.04	619.09	610.16	8.93	69.300	
1,400.00	1,365.21	1,177.82	1,149.61	6.43	5.39	-122.66	382.20	-335.31	671.92	662.11	9.80	68.545	
1,500.00	1,455.84	1,256.45	1,223.77	7.23	5.91	-123.46	402.10	-352.22	727.14	716.43	10.70	67.947	
1,600.00	1,544.94	1,329.04	1,292.13	8.09	6.40	-124.07	420.66	-368.10	784.94	773.36	11.59	67.751	
1,700.00	1,632.39	1,392.35	1,351.42	9.01	6.84	-124.34	437.58	-382.46	845.93	833.51	12.42	68.100	
1,800.00	1,718.11	1,454.58	1,409.27	10.00	7.29	-124.45	455.28	-397.04	910.11	896.83	13.28	68.515	
1,900.00	1,801.97	1,511.84	1,462.09	11.07	7.71	-124.29	472.70	-410.65	977.18	963.05	14.13	69.170	
2,000.00	1,883.88	1,557.63	1,504.00	12.20	8.07	-123.78	487.01	-422.28	1,047.48	1,032.60	14.88	70.395	
2,100.00	1,963.74	1,604.84	1,546.89	13.41	8.44	-123.21	501.91	-435.21	1,120.95	1,105.28	15.66	71.562	
2,200.00	2,041.45	1,674.60	1,610.30	14.69	9.00	-123.19	523.67	-454.53	1,196.31	1,179.59	16.72	71.537	
2,300.00	2,116.92	1,730.60	1,661.32	16.05	9.45	-122.74	540.81	-469.96	1,273.21	1,255.56	17.65	72.138	
2,357.48	2,159.25	1,760.07	1,688.17	16.86	9.69	-122.38	549.74	-478.21	1,318.29	1,300.13	18.16	72.591	
2,400.00	2,190.27	1,781.43	1,707.62	17.47	9.86	-123.00	556.17	-484.24	1,351.92	1,333.39	18.53	72.947	
2,500.00	2,263.22	1,830.89	1,752.67	18.92	10.26	-124.37	570.90	-498.41	1,431.52	1,412.13	19.39	73.833	
2,600.00	2,336.18	1,879.97	1,797.36	20.37	10.66	-125.64	585.24	-512.74	1,511.75	1,491.52	20.23	74.726	
2,700.00	2,409.14	1,931.76	1,844.49	21.84	11.08	-126.87	600.35	-528.01	1,592.49	1,571.39	21.10	75.481	
2,800.00	2,482.09	1,990.45	1,897.83	23.31	11.56	-128.14	617.62	-545.32	1,673.58	1,651.53	22.05	75.914	
2,900.00	2,555.05	2,068.43	1,968.95	24.78	12.19	-129.66	640.50	-567.70	1,754.46	1,731.23	23.23	75.526	
3,000.00	2,628.01	2,171.92	2,064.13	26.27	13.00	-131.44	670.21	-595.41	1,834.30	1,809.59	24.71	74.224	
3,100.00	2,700.96	2,246.94	2,133.50	27.75	13.57	-132.59	691.56	-614.35	1,913.46	1,887.61	25.85	74.033	
3,200.00	2,773.92	2,313.62	2,195.25	29.24	14.08	-133.51	710.65	-630.74	1,992.40	1,965.52	26.88	74.125	
3,300.00	2,846.88	2,372.23	2,249.57	30.73	14.52	-134.26	727.47	-644.98	2,071.34	2,043.53	27.81	74.478	
3,400.00	2,919.83	2,424.49	2,298.03	32.23	14.91	-134.90	742.19	-657.85	2,150.55	2,121.89	28.66	75.037	
3,500.00	2,992.79	2,489.15	2,358.05	33.72	15.40	-135.64	760.12	-673.87	2,229.94	2,200.28	29.65	75.204	
3,600.00	3,065.75	2,554.35	2,418.65	35.22	15.88	-136.35	778.13	-689.80	2,309.22	2,278.57	30.65	75.346	
3,700.00	3,138.71	2,616.03	2,475.95	36.72	16.34	-136.96	795.39	-704.75	2,388.51	2,356.91	31.60	75.581	
3,800.00	3,211.66	2,672.97	2,528.83	38.22	16.77	-137.48	811.41	-718.51	2,467.88	2,435.39	32.50	75.943	
3,900.00	3,284.62	2,729.12	2,580.99	39.72	17.18	-137.98	827.06	-732.17	2,547.40	2,514.02	33.38	76.321	
4,000.00	3,357.58	2,784.60	2,632.58	41.22	17.60	-138.45	842.32	-745.76	2,627.07	2,592.82	34.24	76.715	
4,100.00	3,430.53	2,846.17	2,689.88	42.73	18.05	-138.95	858.99	-760.91	2,706.84	2,671.66	35.18	76.941	
4,200.00	3,503.49	2,912.67	2,751.89	44.23	18.54	-139.47	876.70	-777.17	2,786.55	2,750.37	36.17	77.033	
4,300.00	3,576.45	2,975.34	2,810.42	45.74	19.00	-139.95	893.09	-792.40	2,866.20	2,829.09	37.11	77.238	
4,400.00	3,649.40	3,030.10	2,861.64	47.25	19.39	-140.34	907.17	-805.71	2,945.89	2,907.95	37.94	77.641	
4,500.00	3,722.36	3,080.64	2,908.90	48.75	19.76	-140.70	920.09	-818.13	3,025.79	2,987.07	38.72	78.144	
4,600.00	3,795.32	3,134.28	2,958.96	50.26	20.15	-141.05	934.02	-831.41	3,105.87	3,066.33	39.54	78.543	
4,700.00	3,868.27	3,190.75	3,011.44	51.77	20.57	-141.38	949.50	-845.37	3,186.08	3,145.67	40.41	78.845	
4,800.00	3,941.23	3,263.37	3,078.83	53.28	21.12	-141.77	969.97	-863.11	3,266.21	3,224.71	41.50	78.710	
4,900.00	4,014.19	3,309.37	3,121.50	54.79	21.46	-142.00	983.02	-874.29	3,346.32	3,304.08	42.24	79.226	
5,000.00	4,087.15	3,349.11	3,158.33	56.30	21.76	-142.19	994.21	-884.17	3,426.78	3,383.88	42.89	79.889	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,160.10	3,407.40	3,212.32	57.81	22.20	-142.47	1,010.49	-898.92	3,507.51	3,463.72	43.79	80.097	
5,200.00	4,233.06	3,481.19	3,280.79	59.32	22.76	-142.81	1,030.93	-917.32	3,588.03	3,543.14	44.89	79.933	
5,300.00	4,306.02	3,543.60	3,338.78	60.83	23.23	-143.09	1,048.07	-932.76	3,668.45	3,622.62	45.83	80.040	
5,400.00	4,378.97	3,605.95	3,396.78	62.34	23.69	-143.36	1,065.03	-948.14	3,748.84	3,702.07	46.77	80.151	
5,500.00	4,451.93	3,671.77	3,458.09	63.85	24.18	-143.63	1,082.68	-964.32	3,829.19	3,781.44	47.75	80.188	
5,600.00	4,524.89	5,600.00	3,574.76	65.36	37.83	-144.14	1,115.51	-993.88	3,909.00	3,848.96	60.05	65.099	SF
5,700.00	4,597.84	3,877.71	3,651.02	66.88	25.65	-144.46	1,136.49	-1,012.12	3,988.01	3,937.38	50.63	78.761	
5,800.00	4,670.80	3,911.92	3,683.09	68.39	25.89	-144.58	1,145.53	-1,019.87	4,067.24	4,016.03	51.20	79.433	
5,900.00	4,743.76	3,930.00	3,700.00	69.90	26.02	-144.65	1,150.39	-1,024.05	4,146.92	4,095.36	51.56	80.424	
6,000.00	4,816.71	3,967.93	3,735.36	71.41	26.30	-144.77	1,160.72	-1,033.08	4,227.00	4,174.82	52.18	81.003	
6,100.00	4,889.67	3,993.15	3,758.80	72.93	26.49	-144.85	1,167.65	-1,039.33	4,307.61	4,254.98	52.63	81.842	
6,200.00	4,962.63	4,023.00	3,786.44	74.44	26.71	-144.95	1,175.93	-1,046.95	4,388.70	4,335.55	53.14	82.584	
6,300.00	5,035.59	4,044.92	3,806.70	75.95	26.88	-145.01	1,182.01	-1,052.71	4,470.20	4,416.66	53.54	83.489	
6,400.00	5,108.54	4,072.21	3,831.90	77.47	27.09	-145.10	1,189.51	-1,060.03	4,552.10	4,498.09	54.01	84.279	
6,500.00	5,181.50	4,117.00	3,873.19	78.98	27.44	-145.23	1,201.62	-1,072.43	4,634.46	4,579.75	54.72	84.698	
6,600.00	5,254.46	4,129.42	3,884.62	80.49	27.54	-145.27	1,204.95	-1,075.95	4,717.04	4,662.06	54.98	85.797	
6,700.00	5,327.41	4,168.61	3,920.67	82.01	27.85	-145.39	1,215.57	-1,087.11	4,799.92	4,744.32	55.61	86.318	
6,800.00	5,400.37	6,800.00	4,000.69	83.52	48.68	-145.63	1,239.51	-1,111.81	4,882.80	4,809.85	72.94	66.939	
6,900.00	5,473.33	4,304.00	4,045.10	85.04	28.93	-145.76	1,252.78	-1,125.33	4,965.45	4,907.79	57.66	86.117	
7,000.00	5,546.28	4,348.28	4,085.93	86.55	29.27	-145.88	1,264.75	-1,137.60	5,047.99	4,989.63	58.36	86.504	
7,100.00	5,619.24	4,369.53	4,105.48	88.06	29.44	-145.93	1,270.41	-1,143.70	5,131.05	5,072.32	58.73	87.362	
7,200.00	5,692.20	4,397.00	4,130.71	89.58	29.66	-146.01	1,277.65	-1,151.79	5,214.49	5,155.30	59.19	88.092	
7,300.00	5,765.15	4,424.89	4,156.28	91.09	29.89	-146.08	1,285.02	-1,160.15	5,298.23	5,238.57	59.66	88.803	
7,400.00	5,838.11	4,751.19	4,456.38	92.61	32.46	-146.80	1,375.03	-1,251.04	5,381.75	5,317.48	64.27	83.739	
7,500.00	5,911.07	4,770.00	4,473.79	94.12	32.61	-146.84	1,380.37	-1,255.75	5,462.88	5,398.25	64.63	84.524	
7,600.00	5,984.03	4,817.09	4,517.27	95.64	32.98	-146.92	1,393.91	-1,267.73	5,544.17	5,478.78	65.39	84.788	
7,700.00	6,056.98	4,864.00	4,560.35	97.15	33.34	-147.00	1,407.76	-1,280.11	5,625.96	5,559.81	66.15	85.054	
7,800.00	6,129.94	4,864.00	4,560.35	98.67	33.34	-147.00	1,407.76	-1,280.11	5,707.90	5,641.66	66.24	86.167	
7,900.00	6,202.90	6,503.45	6,153.45	100.18	41.00	-152.23	1,631.92	-1,503.40	5,774.62	5,693.53	81.09	71.214	
8,000.00	6,275.85	6,548.00	6,198.00	101.70	41.08	-152.41	1,632.16	-1,503.83	5,839.27	5,757.66	81.60	71.556	
8,100.00	6,348.81	6,596.43	6,246.42	103.21	41.18	-152.60	1,632.55	-1,504.51	5,904.33	5,822.19	82.14	71.883	
8,200.00	6,421.77	6,649.91	6,299.89	104.73	41.29	-152.81	1,633.11	-1,505.48	5,969.77	5,887.08	82.69	72.194	
8,300.00	6,494.72	6,913.60	6,563.55	106.24	41.81	-153.80	1,634.75	-1,505.39	6,033.30	5,949.12	84.18	71.669	
8,400.00	6,567.68	6,964.79	6,614.73	107.76	41.90	-153.99	1,634.79	-1,504.83	6,096.82	6,012.11	84.72	71.967	
8,500.00	6,640.64	7,016.00	6,665.94	109.27	42.00	-154.18	1,634.65	-1,504.46	6,160.71	6,075.46	85.25	72.270	
8,600.00	6,713.59	7,060.61	6,710.55	110.79	42.08	-154.34	1,634.41	-1,504.32	6,224.98	6,139.24	85.74	72.604	
8,700.00	6,786.55	7,110.00	6,759.94	112.30	42.17	-154.52	1,634.07	-1,504.40	6,289.66	6,203.42	86.25	72.926	
8,800.00	6,859.51	7,153.16	6,803.10	113.82	42.25	-154.67	1,633.77	-1,504.64	6,354.73	6,268.00	86.73	73.273	
8,900.00	6,932.46	7,203.00	6,852.93	115.33	42.35	-154.85	1,633.51	-1,505.11	6,420.16	6,332.93	87.23	73.599	
9,000.00	7,005.42	7,249.48	6,899.40	116.85	42.44	-155.01	1,633.31	-1,505.73	6,485.94	6,398.22	87.72	73.938	
9,104.89	7,081.95	7,296.00	6,945.92	118.44	42.53	-155.17	1,633.07	-1,506.50	6,555.29	6,467.07	88.22	74.307	
9,150.00	7,115.15	7,321.93	6,971.84	119.12	42.59	-164.03	1,632.92	-1,507.00	6,585.41	6,496.96	88.45	74.452	
9,200.00	7,152.46	7,346.44	6,996.35	119.86	42.64	-174.18	1,632.78	-1,507.52	6,619.13	6,530.47	88.66	74.654	
9,250.00	7,190.04	7,371.06	7,020.96	120.57	42.69	175.54	1,632.62	-1,508.09	6,652.96	6,564.11	88.85	74.880	
9,300.00	7,227.59	7,414.03	7,063.92	121.25	42.78	165.40	1,632.34	-1,509.14	6,686.62	6,597.53	89.09	75.052	
9,350.00	7,264.83	9,350.00	7,115.15	121.89	46.84	155.67	1,631.87	-1,510.12	6,719.58	6,625.99	93.58	71.805	
9,400.00	7,301.48	7,517.98	7,167.85	122.48	42.99	146.55	1,631.33	-1,511.09	6,751.82	6,662.24	89.58	75.370	
9,450.00	7,337.26	7,543.25	7,193.11	123.01	43.04	138.01	1,631.01	-1,511.57	6,783.17	6,693.51	89.66	75.656	
9,500.00	7,371.90	7,567.72	7,217.57	123.49	43.09	130.22	1,630.67	-1,512.06	6,813.44	6,723.73	89.71	75.952	
9,550.00	7,405.13	7,577.00	7,226.85	123.91	43.11	123.14	1,630.53	-1,512.26	6,842.43	6,752.77	89.66	76.313	
9,600.00	7,436.70	8,062.68	7,712.13	124.27	44.08	120.01	1,626.10	-1,508.94	6,869.72	6,777.89	91.83	74.806	
9,650.00	7,466.36	8,083.95	7,733.38	124.57	44.12	114.72	1,625.94	-1,508.07	6,893.60	6,801.76	91.84	75.058	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,700.00	7,493.91	8,103.63	7,753.04	124.81	44.16	110.10	1,625.82	-1,507.29	6,915.81	6,823.97	91.84	75.301	
9,750.00	7,519.11	8,121.58	7,770.98	125.00	44.19	106.10	1,625.72	-1,506.61	6,936.22	6,844.39	91.83	75.530	
9,800.00	7,541.79	8,138.00	7,787.39	125.12	44.22	102.68	1,625.65	-1,506.00	6,954.72	6,862.89	91.83	75.738	
9,850.00	7,561.77	8,155.91	7,805.29	125.20	44.25	99.82	1,625.59	-1,505.35	6,971.19	6,879.35	91.84	75.908	
9,900.00	7,578.90	8,171.54	7,820.90	125.23	44.28	97.45	1,625.56	-1,504.79	6,985.53	6,893.68	91.85	76.050	
9,950.00	7,593.04	8,184.35	7,833.71	125.22	44.31	95.54	1,625.56	-1,504.33	6,997.67	6,905.80	91.88	76.162	
10,000.00	7,604.09	8,194.29	7,843.64	125.17	44.33	94.06	1,625.56	-1,503.98	7,007.55	6,915.64	91.91	76.241	
10,050.00	7,611.97	8,201.30	7,850.65	125.08	44.34	92.98	1,625.57	-1,503.73	7,015.12	6,923.15	91.96	76.283	
10,100.00	7,616.61	8,205.37	7,854.71	124.97	44.35	92.30	1,625.58	-1,503.59	7,020.32	6,928.30	92.03	76.287	
10,145.95	7,618.00	8,206.52	7,855.86	124.84	44.35	92.01	1,625.58	-1,503.55	7,023.01	6,930.91	92.10	76.254	
10,200.00	7,618.00	8,206.42	7,855.76	124.69	44.35	92.01	1,625.58	-1,503.55	7,025.18	6,932.98	92.20	76.194	
10,300.00	7,618.00	8,206.23	7,855.58	124.41	44.35	92.01	1,625.58	-1,503.56	7,030.30	6,937.89	92.41	76.080	
10,400.00	7,618.00	8,206.05	7,855.40	124.14	44.35	92.00	1,625.58	-1,503.57	7,036.84	6,944.20	92.64	75.962	
10,500.00	7,618.00	8,205.87	7,855.22	123.88	44.35	92.00	1,625.58	-1,503.57	7,044.79	6,951.90	92.89	75.843	
10,600.00	7,618.00	8,205.70	7,855.04	123.63	44.35	92.00	1,625.58	-1,503.58	7,054.14	6,960.99	93.16	75.722	
10,700.00	7,618.00	8,205.52	7,854.87	123.40	44.35	92.00	1,625.58	-1,503.59	7,064.91	6,971.45	93.45	75.600	
10,800.00	7,618.00	8,205.35	7,854.70	123.18	44.35	92.00	1,625.58	-1,503.59	7,077.06	6,983.30	93.76	75.479	
10,900.00	7,618.00	8,205.18	7,854.53	122.96	44.35	92.00	1,625.58	-1,503.60	7,090.61	6,996.52	94.09	75.359	
11,000.00	7,618.00	8,205.02	7,854.36	122.76	44.35	92.00	1,625.58	-1,503.60	7,105.54	7,011.10	94.44	75.242	
11,100.00	7,618.00	8,204.85	7,854.20	122.57	44.35	91.99	1,625.58	-1,503.61	7,121.84	7,027.05	94.80	75.127	
11,200.00	7,618.00	8,204.69	7,854.04	122.39	44.35	91.99	1,625.58	-1,503.62	7,139.51	7,044.34	95.17	75.016	
11,300.00	7,618.00	8,204.53	7,853.88	122.23	44.35	91.99	1,625.58	-1,503.62	7,158.53	7,062.97	95.56	74.910	
11,400.00	7,618.00	8,204.37	7,853.72	122.07	44.35	91.99	1,625.58	-1,503.63	7,178.89	7,082.93	95.96	74.809	
11,500.00	7,618.00	8,204.22	7,853.56	121.93	44.35	91.99	1,625.57	-1,503.63	7,200.58	7,104.21	96.38	74.713	
11,600.00	7,618.00	8,204.07	7,853.41	121.79	44.35	91.99	1,625.57	-1,503.64	7,223.60	7,126.80	96.80	74.624	
11,700.00	7,618.00	8,203.91	7,853.26	121.67	44.35	91.99	1,625.57	-1,503.64	7,247.92	7,150.68	97.23	74.542	
11,800.00	7,618.00	8,203.77	7,853.11	121.56	44.34	91.99	1,625.57	-1,503.65	7,273.53	7,175.85	97.67	74.468	
11,900.00	7,618.00	8,203.62	7,852.96	121.46	44.34	91.98	1,625.57	-1,503.65	7,300.42	7,202.30	98.12	74.401	
12,000.00	7,618.00	8,203.47	7,852.82	121.38	44.34	91.98	1,625.57	-1,503.66	7,328.58	7,230.00	98.58	74.343	
12,100.00	7,618.00	8,203.33	7,852.68	121.30	44.34	91.98	1,625.57	-1,503.66	7,357.99	7,258.95	99.04	74.293	
12,200.00	7,618.00	8,203.19	7,852.54	121.24	44.34	91.98	1,625.57	-1,503.67	7,388.64	7,289.13	99.51	74.253	
12,300.00	7,618.00	8,203.05	7,852.40	121.19	44.34	91.98	1,625.57	-1,503.67	7,420.51	7,320.53	99.98	74.222	
12,400.00	7,618.00	8,202.91	7,852.26	121.16	44.34	91.98	1,625.57	-1,503.68	7,453.58	7,353.13	100.45	74.201	
12,500.00	7,618.00	8,202.78	7,852.12	121.14	44.34	91.98	1,625.57	-1,503.68	7,487.84	7,386.91	100.93	74.190	
12,600.00	7,618.00	8,202.64	7,851.99	121.13	44.34	91.98	1,625.57	-1,503.69	7,523.28	7,421.87	101.41	74.189	
12,700.00	7,618.00	8,202.51	7,851.86	121.13	44.34	91.97	1,625.57	-1,503.69	7,559.87	7,457.98	101.89	74.198	
12,800.00	7,618.00	8,202.38	7,851.73	121.15	44.34	91.97	1,625.57	-1,503.70	7,597.60	7,495.24	102.37	74.217	
12,900.00	7,618.00	8,202.25	7,851.60	121.18	44.34	91.97	1,625.57	-1,503.70	7,636.46	7,533.61	102.85	74.247	
13,000.00	7,618.00	8,202.13	7,851.47	121.23	44.34	91.97	1,625.57	-1,503.71	7,676.42	7,573.09	103.33	74.288	
13,100.00	7,618.00	8,202.00	7,851.35	121.29	44.34	91.97	1,625.57	-1,503.71	7,717.47	7,613.66	103.82	74.339	
13,200.00	7,618.00	8,201.88	7,851.22	121.37	44.34	91.97	1,625.57	-1,503.71	7,759.60	7,655.30	104.30	74.400	
13,300.00	7,618.00	8,201.75	7,851.10	121.46	44.34	91.97	1,625.57	-1,503.72	7,802.77	7,698.00	104.77	74.472	
13,400.00	7,618.00	8,201.63	7,850.98	121.57	44.34	91.97	1,625.57	-1,503.72	7,846.99	7,741.74	105.25	74.554	
13,500.00	7,618.00	8,201.51	7,850.86	121.70	44.34	91.97	1,625.57	-1,503.73	7,892.22	7,786.49	105.73	74.647	
13,600.00	7,618.00	8,201.40	7,850.74	121.84	44.34	91.97	1,625.57	-1,503.73	7,938.46	7,832.26	106.20	74.750	
13,700.00	7,618.00	8,201.28	7,850.63	122.01	44.34	91.96	1,625.57	-1,503.74	7,985.68	7,879.01	106.67	74.864	
13,800.00	7,618.00	8,201.16	7,850.51	122.19	44.34	91.96	1,625.57	-1,503.74	8,033.86	7,926.73	107.14	74.988	
13,900.00	7,618.00	8,201.05	7,850.40	122.39	44.34	91.96	1,625.57	-1,503.74	8,083.00	7,975.40	107.60	75.122	
14,000.00	7,618.00	8,200.94	7,850.28	122.62	44.34	91.96	1,625.57	-1,503.75	8,133.07	8,025.01	108.06	75.265	
14,100.00	7,618.00	8,200.83	7,850.17	122.86	44.34	91.96	1,625.57	-1,503.75	8,184.06	8,075.54	108.51	75.419	
14,200.00	7,618.00	8,200.72	7,850.06	123.12	44.34	91.96	1,625.57	-1,503.76	8,235.94	8,126.97	108.97	75.582	
14,300.00	7,618.00	8,200.61	7,849.96	123.41	44.34	91.96	1,625.57	-1,503.76	8,288.71	8,179.29	109.41	75.755	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
14,400.00	7,618.00	8,200.50	7,849.85	123.72	44.34	91.96	1,625.57	-1,503.76	8,342.34	8,232.48	109.86	75.938	
14,500.00	7,618.00	8,200.39	7,849.74	124.06	44.34	91.96	1,625.57	-1,503.77	8,396.82	8,286.52	110.30	76.129	
14,600.00	7,618.00	8,200.29	7,849.64	124.42	44.34	91.96	1,625.57	-1,503.77	8,452.13	8,341.40	110.73	76.330	
14,700.00	7,618.00	8,200.19	7,849.53	124.80	44.34	91.96	1,625.57	-1,503.77	8,508.26	8,397.09	111.16	76.540	
14,800.00	7,618.00	8,200.08	7,849.43	125.21	44.34	91.96	1,625.57	-1,503.78	8,565.18	8,453.60	111.59	76.759	
14,900.00	7,618.00	8,199.98	7,849.33	125.65	44.34	91.95	1,625.57	-1,503.78	8,622.89	8,510.89	112.01	76.986	
15,000.00	7,618.00	8,199.88	7,849.23	126.11	44.34	91.95	1,625.57	-1,503.78	8,681.37	8,568.95	112.42	77.222	
15,100.00	7,618.00	8,199.78	7,849.13	126.61	44.34	91.95	1,625.57	-1,503.79	8,740.60	8,627.77	112.83	77.466	
15,200.00	7,618.00	8,199.68	7,849.03	127.13	44.34	91.95	1,625.57	-1,503.79	8,800.57	8,687.34	113.24	77.719	
15,300.00	7,618.00	8,199.59	7,848.94	127.68	44.34	91.95	1,625.57	-1,503.80	8,861.27	8,747.63	113.64	77.979	
15,400.00	7,618.00	8,199.49	7,848.84	128.26	44.34	91.95	1,625.57	-1,503.80	8,922.67	8,808.63	114.03	78.247	
15,500.00	7,618.00	8,199.40	7,848.74	128.87	44.34	91.95	1,625.57	-1,503.80	8,984.76	8,870.34	114.42	78.523	
15,600.00	7,618.00	8,199.30	7,848.65	129.51	44.34	91.95	1,625.57	-1,503.81	9,047.53	8,932.73	114.81	78.807	
15,700.00	7,618.00	8,199.21	7,848.56	130.18	44.34	91.95	1,625.57	-1,503.81	9,110.97	8,995.78	115.19	79.098	
15,800.00	7,618.00	8,199.12	7,848.47	130.88	44.34	91.95	1,625.57	-1,503.81	9,175.06	9,059.50	115.56	79.396	
15,900.00	7,618.00	8,199.03	7,848.38	131.61	44.34	91.95	1,625.57	-1,503.81	9,239.79	9,123.86	115.93	79.702	
16,000.00	7,618.00	8,198.94	7,848.29	132.37	44.34	91.95	1,625.57	-1,503.82	9,305.14	9,188.84	116.29	80.014	
16,100.00	7,618.00	8,198.85	7,848.20	133.17	44.34	91.94	1,625.57	-1,503.82	9,371.10	9,254.45	116.65	80.333	
16,200.00	7,618.00	8,198.76	7,848.11	133.99	44.34	91.94	1,625.57	-1,503.82	9,437.66	9,320.65	117.01	80.659	
16,300.00	7,618.00	8,198.67	7,848.02	134.84	44.34	91.94	1,625.57	-1,503.83	9,504.81	9,387.45	117.36	80.991	
16,400.00	7,618.00	8,198.59	7,847.94	135.72	44.33	91.94	1,625.57	-1,503.83	9,572.53	9,454.83	117.70	81.329	
16,500.00	7,618.00	8,198.50	7,847.85	136.63	44.33	91.94	1,625.57	-1,503.83	9,640.81	9,522.77	118.04	81.674	
16,600.00	7,618.00	8,198.42	7,847.77	137.57	44.33	91.94	1,625.57	-1,503.84	9,709.65	9,591.27	118.37	82.025	
16,700.00	7,618.00	8,198.33	7,847.68	138.54	44.33	91.94	1,625.57	-1,503.84	9,779.02	9,660.31	118.70	82.382	
16,800.00	7,618.00	8,198.25	7,847.60	139.53	44.33	91.94	1,625.57	-1,503.84	9,848.91	9,729.88	119.03	82.745	
16,900.00	7,618.00	8,198.17	7,847.52	140.55	44.33	91.94	1,625.57	-1,503.85	9,919.33	9,799.98	119.35	83.113	
17,000.00	7,618.00	8,198.09	7,847.44	141.60	44.33	91.94	1,625.57	-1,503.85	9,990.24	9,870.58	119.66	83.487	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-38.59	218.57	-174.44	279.76				
100.00	100.00	91.21	91.21	0.13	0.15	-38.57	218.73	-174.45	279.78	279.50	0.28	989.810	
200.00	200.00	190.21	190.21	0.49	0.41	-38.42	219.54	-174.15	280.23	279.33	0.90	310.021	ES
300.00	299.98	286.89	286.81	0.85	0.76	-107.32	222.53	-172.04	281.84	280.23	1.61	175.246	
400.00	399.84	384.67	384.34	1.21	1.12	-106.93	228.34	-168.36	285.77	283.44	2.33	122.734	
500.00	499.45	481.58	480.67	1.58	1.49	-106.42	236.82	-162.17	291.35	288.27	3.07	94.882	
600.00	598.70	575.15	573.18	1.97	1.88	-105.79	248.36	-154.15	299.47	295.62	3.84	77.969	
700.00	697.47	666.19	662.65	2.38	2.28	-105.23	262.86	-145.63	310.96	306.32	4.64	67.001	
800.00	795.62	761.88	756.18	2.83	2.72	-104.87	280.79	-136.41	325.45	319.95	5.51	59.114	
900.00	893.06	853.95	845.91	3.31	3.17	-104.85	299.42	-127.49	342.02	335.62	6.40	53.466	
1,000.00	989.64	945.65	934.91	3.83	3.63	-105.14	319.86	-119.13	361.48	354.14	7.33	49.289	
1,100.00	1,085.27	1,042.90	1,029.15	4.40	4.13	-105.86	342.37	-110.86	382.95	374.61	8.35	45.877	
1,200.00	1,179.82	1,143.94	1,127.18	5.02	4.65	-107.01	365.19	-102.00	404.98	395.54	9.44	42.901	
1,300.00	1,273.17	1,243.03	1,223.38	5.70	5.16	-108.40	387.02	-92.60	427.47	416.90	10.57	40.446	
1,400.00	1,365.21	1,342.70	1,320.54	6.43	5.67	-110.25	407.42	-83.82	450.85	439.11	11.73	38.425	
1,500.00	1,455.84	1,427.85	1,403.47	7.23	6.10	-111.87	425.36	-76.64	476.75	463.92	12.83	37.147	
1,600.00	1,544.94	1,526.16	1,498.74	8.09	6.62	-113.68	447.81	-67.45	505.20	491.12	14.09	35.864	
1,700.00	1,632.39	1,622.35	1,591.46	9.01	7.15	-115.29	470.94	-56.48	535.02	519.63	15.38	34.778	
1,800.00	1,718.11	1,718.90	1,684.40	10.00	7.69	-116.93	494.23	-44.62	566.36	549.64	16.72	33.868	
1,900.00	1,801.97	1,814.08	1,776.29	11.07	8.22	-118.69	516.13	-32.98	599.43	581.37	18.06	33.195	
2,000.00	1,883.88	1,908.72	1,868.12	12.20	8.72	-120.62	536.13	-21.85	634.41	615.04	19.38	32.740	
2,100.00	1,963.74	1,999.81	1,957.02	13.41	9.18	-122.63	553.26	-11.88	671.71	651.09	20.63	32.563	SF
2,200.00	2,041.45	2,074.85	2,030.71	14.69	9.53	-124.30	565.71	-5.13	712.65	690.95	21.70	32.847	
2,300.00	2,116.92	2,168.59	2,123.07	16.05	9.96	-126.61	579.87	2.41	757.08	734.22	22.86	33.115	
2,357.48	2,159.25	2,218.40	2,172.10	16.86	10.18	-127.74	587.32	7.04	783.58	760.09	23.50	33.349	
2,400.00	2,190.27	2,253.97	2,207.09	17.47	10.35	-128.84	592.69	10.42	803.68	779.73	23.95	33.557	
2,500.00	2,263.22	2,337.08	2,288.73	18.92	10.74	-131.20	605.86	18.70	851.74	826.73	25.00	34.063	
2,600.00	2,336.18	2,418.13	2,368.05	20.37	11.14	-133.16	620.11	27.33	900.80	874.76	26.04	34.589	
2,700.00	2,409.14	2,500.17	2,448.26	21.84	11.54	-134.94	635.02	36.03	950.87	923.80	27.08	35.116	
2,800.00	2,482.09	2,582.86	2,529.12	23.31	11.95	-136.57	649.90	44.87	1,001.53	973.43	28.10	35.641	
2,900.00	2,555.05	2,661.58	2,605.95	24.78	12.35	-137.94	664.83	53.29	1,052.96	1,023.88	29.09	36.201	
3,000.00	2,628.01	2,737.79	2,680.26	26.27	12.74	-139.14	679.76	61.17	1,105.27	1,075.22	30.05	36.786	
3,100.00	2,700.96	2,860.26	2,800.11	27.75	13.34	-141.02	700.49	75.39	1,156.37	1,125.01	31.36	36.874	
3,200.00	2,773.92	2,942.69	2,880.79	29.24	13.74	-142.20	713.63	85.96	1,206.88	1,174.58	32.30	37.364	
3,300.00	2,846.88	3,022.61	2,958.90	30.73	14.13	-143.22	727.16	96.15	1,257.97	1,224.73	33.23	37.855	
3,400.00	2,919.83	3,133.76	3,067.04	32.23	14.71	-144.44	747.29	112.04	1,308.10	1,273.64	34.46	37.957	
3,500.00	2,992.79	3,197.53	3,128.95	33.72	15.04	-145.05	759.56	121.16	1,358.72	1,323.43	35.29	38.506	
3,600.00	3,065.75	3,269.31	3,198.80	35.22	15.41	-145.71	773.20	130.49	1,410.60	1,374.44	36.16	39.011	
3,700.00	3,138.71	3,349.60	3,277.26	36.72	15.82	-146.47	787.21	140.27	1,463.21	1,426.12	37.08	39.458	
3,800.00	3,211.66	3,424.45	3,350.20	38.22	16.20	-147.09	801.20	149.49	1,516.03	1,478.06	37.97	39.929	
3,900.00	3,284.62	3,490.00	3,414.00	39.72	16.54	-147.57	814.39	156.74	1,570.08	1,531.30	38.78	40.491	
4,000.00	3,357.58	3,601.84	3,522.90	41.22	17.12	-148.35	836.36	169.62	1,623.92	1,583.87	40.05	40.550	
4,100.00	3,430.53	3,689.32	3,607.86	42.73	17.58	-148.89	854.00	180.69	1,676.92	1,635.84	41.08	40.818	
4,200.00	3,503.49	3,780.84	3,696.75	44.23	18.06	-149.42	872.24	192.58	1,729.72	1,687.56	42.16	41.031	
4,300.00	3,576.45	3,846.00	3,760.11	45.74	18.40	-149.79	885.06	200.77	1,782.94	1,739.98	42.96	41.507	
4,400.00	3,649.40	4,400.00	3,859.68	47.25	21.43	-150.28	907.00	214.20	1,835.85	1,789.33	46.51	39.470	
4,500.00	3,722.36	4,014.22	3,922.79	48.75	19.32	-150.54	921.61	222.99	1,888.71	1,843.69	45.02	41.952	
4,600.00	3,795.32	4,066.11	3,973.16	50.26	19.60	-150.77	932.60	228.83	1,943.25	1,897.55	45.69	42.529	
4,700.00	3,868.27	4,152.26	4,056.93	51.77	20.05	-151.14	950.47	238.05	1,998.34	1,951.62	46.72	42.773	
4,800.00	3,941.23	4,216.99	4,119.95	53.28	20.38	-151.42	963.69	244.72	2,053.81	2,006.30	47.50	43.234	
4,900.00	4,014.19	4,306.18	4,206.99	54.79	20.83	-151.81	981.00	253.49	2,109.71	2,061.18	48.53	43.473	
5,000.00	4,087.15	4,436.05	4,334.15	56.30	21.47	-152.44	1,003.09	267.96	2,164.59	2,114.69	49.90	43.377	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,160.10	4,489.56	4,386.61	57.81	21.73	-152.70	1,011.62	274.09	2,219.15	2,168.64	50.51	43.936	
5,200.00	4,233.06	4,544.27	4,440.34	59.32	21.98	-152.97	1,020.23	279.79	2,274.72	2,223.61	51.11	44.504	
5,300.00	4,306.02	4,594.50	4,489.83	60.83	22.21	-153.22	1,027.54	284.35	2,331.44	2,279.79	51.65	45.141	
5,400.00	4,378.97	4,646.91	4,541.63	62.34	22.43	-153.50	1,034.39	288.42	2,389.29	2,337.12	52.17	45.795	
5,500.00	4,451.93	4,709.00	4,603.20	63.85	22.69	-153.86	1,041.20	292.52	2,448.13	2,395.37	52.76	46.403	
5,600.00	4,524.89	4,749.19	4,643.16	65.36	22.83	-154.10	1,044.92	294.73	2,507.92	2,454.81	53.11	47.223	
5,700.00	4,597.84	4,802.00	4,695.75	66.88	23.03	-154.43	1,049.09	297.00	2,568.80	2,515.25	53.55	47.969	
5,800.00	4,670.80	4,848.45	4,742.08	68.39	23.18	-154.73	1,052.16	298.52	2,630.61	2,576.70	53.91	48.793	
5,900.00	4,743.76	4,901.26	4,794.79	69.90	23.35	-155.08	1,055.05	299.82	2,693.24	2,638.92	54.32	49.584	
6,000.00	4,816.71	4,958.17	4,851.65	71.41	23.52	-155.47	1,057.21	300.82	2,756.57	2,701.84	54.73	50.371	
6,100.00	4,889.67	5,023.46	4,916.92	72.93	23.71	-155.93	1,058.51	301.62	2,820.47	2,765.29	55.18	51.114	
6,200.00	4,962.63	5,097.91	4,991.36	74.44	23.92	-156.44	1,059.62	302.53	2,884.55	2,828.85	55.70	51.788	
6,300.00	5,035.59	5,164.01	5,057.45	75.95	24.09	-156.89	1,059.97	303.27	2,948.88	2,892.73	56.14	52.526	
6,400.00	5,108.54	5,209.17	5,102.61	77.47	24.21	-157.20	1,059.89	303.57	3,013.74	2,957.33	56.42	53.418	
6,500.00	5,181.50	5,248.69	5,142.13	78.98	24.31	-157.45	1,060.04	303.37	3,079.53	3,022.88	56.65	54.359	
6,600.00	5,254.46	5,299.33	5,192.76	80.49	24.44	-157.77	1,060.49	302.57	3,146.17	3,089.19	56.98	55.215	
6,700.00	5,327.41	5,363.95	5,257.36	82.01	24.61	-158.15	1,061.13	301.34	3,213.17	3,155.74	57.43	55.950	
6,800.00	5,400.37	5,447.68	5,341.08	83.52	24.82	-158.63	1,061.99	299.80	3,280.22	3,222.18	58.04	56.514	
6,900.00	5,473.33	5,527.64	5,421.03	85.04	25.03	-159.07	1,062.67	298.58	3,347.15	3,288.52	58.63	57.093	
7,000.00	5,546.28	5,590.07	5,483.45	86.55	25.19	-159.41	1,062.94	297.69	3,414.14	3,355.07	59.06	57.803	
7,100.00	5,619.24	5,645.33	5,538.70	88.06	25.33	-159.70	1,062.99	296.66	3,481.55	3,422.11	59.44	58.568	
7,200.00	5,692.20	5,728.35	5,621.70	89.58	25.55	-160.13	1,063.00	295.05	3,549.10	3,489.05	60.05	59.100	
7,300.00	5,765.15	5,798.48	5,691.83	91.09	25.73	-160.48	1,063.10	293.80	3,616.62	3,556.06	60.56	59.715	
7,400.00	5,838.11	5,897.46	5,790.79	92.61	25.99	-160.94	1,063.46	292.18	3,684.13	3,622.80	61.32	60.076	
7,500.00	5,911.07	5,964.31	5,857.64	94.12	26.17	-161.24	1,063.85	291.50	3,751.22	3,689.39	61.83	60.673	
7,600.00	5,984.03	6,018.00	5,911.32	95.64	26.31	-161.47	1,064.05	290.64	3,818.78	3,756.55	62.22	61.374	
7,700.00	6,056.98	6,131.13	6,024.44	97.15	26.62	-161.95	1,064.27	289.20	3,886.24	3,823.13	63.11	61.580	
7,800.00	6,129.94	6,204.17	6,097.47	98.67	26.82	-162.25	1,064.42	288.65	3,953.35	3,889.68	63.67	62.091	
7,900.00	6,202.90	6,254.64	6,147.94	100.18	26.96	-162.45	1,064.55	288.18	4,020.65	3,956.60	64.05	62.774	
8,000.00	6,275.85	6,308.90	6,202.20	101.70	27.11	-162.66	1,064.71	287.36	4,088.40	4,023.93	64.46	63.423	
8,100.00	6,348.81	6,401.68	6,294.97	103.21	27.36	-163.01	1,064.95	286.05	4,156.14	4,090.94	65.20	63.742	
8,200.00	6,421.77	6,483.45	6,376.73	104.73	27.59	-163.30	1,065.02	285.21	4,223.68	4,157.83	65.85	64.141	
8,300.00	6,494.72	6,629.66	6,522.93	106.24	27.98	-163.84	1,063.60	285.77	4,290.19	4,223.20	67.00	64.035	
8,400.00	6,567.68	6,701.17	6,594.42	107.76	28.17	-164.10	1,062.54	286.56	4,356.47	4,288.93	67.54	64.498	
8,500.00	6,640.64	6,764.03	6,657.28	109.27	28.34	-164.32	1,061.78	287.11	4,422.94	4,354.91	68.03	65.015	
8,600.00	6,713.59	6,835.20	6,728.45	110.79	28.54	-164.56	1,061.16	287.59	4,489.56	4,420.97	68.59	65.454	
8,700.00	6,786.55	6,923.72	6,816.96	112.30	28.79	-164.84	1,060.71	288.22	4,556.17	4,486.87	69.30	65.744	
8,800.00	6,859.51	7,002.66	6,895.90	113.82	29.02	-165.07	1,060.74	288.99	4,622.55	4,552.60	69.95	66.084	
8,900.00	6,932.46	7,073.74	6,966.97	115.33	29.23	-165.27	1,061.30	289.56	4,689.00	4,618.45	70.55	66.467	
9,000.00	7,005.42	7,150.47	7,043.70	116.85	29.46	-165.48	1,061.89	290.16	4,755.50	4,684.30	71.20	66.795	
9,104.89	7,081.95	7,340.06	7,233.25	118.44	30.05	-165.97	1,063.66	293.68	4,824.62	4,751.83	72.79	66.282	
9,150.00	7,115.15	7,365.68	7,258.85	119.12	30.12	-174.61	1,063.81	294.45	4,853.83	4,780.82	73.01	66.483	
9,200.00	7,152.46	7,403.55	7,296.71	119.86	30.24	175.70	1,063.95	295.63	4,885.91	4,812.58	73.33	66.629	
9,250.00	7,190.04	7,437.59	7,330.72	120.57	30.35	166.08	1,064.02	296.69	4,917.44	4,843.82	73.62	66.794	
9,300.00	7,227.59	7,467.65	7,360.77	121.25	30.44	156.72	1,064.19	297.55	4,948.25	4,874.37	73.88	66.976	
9,350.00	7,264.83	7,497.28	7,390.39	121.89	30.53	147.82	1,064.49	298.33	4,978.13	4,903.99	74.14	67.146	
9,400.00	7,301.48	7,531.41	7,424.51	122.48	30.64	139.54	1,064.98	299.15	5,006.87	4,932.43	74.44	67.263	
9,450.00	7,337.26	7,572.58	7,465.66	123.01	30.77	132.02	1,065.66	300.15	5,034.21	4,959.42	74.80	67.304	
9,500.00	7,371.90	7,612.41	7,505.47	123.49	30.90	125.27	1,066.37	301.15	5,060.00	4,984.85	75.15	67.331	
9,550.00	7,405.13	7,651.49	7,544.53	123.91	31.03	119.28	1,067.04	302.17	5,084.07	5,008.57	75.50	67.337	
9,600.00	7,436.70	7,688.76	7,581.78	124.27	31.15	114.03	1,067.59	303.20	5,106.31	5,030.47	75.85	67.325	
9,650.00	7,466.36	7,703.00	7,596.02	124.57	31.19	109.28	1,067.77	303.61	5,126.65	5,050.65	76.01	67.451	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,700.00	7,493.91	7,729.62	7,622.63	124.81	31.27	105.30	1,068.07	304.33	5,145.01	5,068.73	76.28	67.446	
9,750.00	7,519.11	7,744.42	7,637.42	125.00	31.32	101.82	1,068.21	304.69	5,161.36	5,084.88	76.48	67.486	
9,800.00	7,541.79	7,757.70	7,650.70	125.12	31.36	98.89	1,068.33	304.99	5,175.58	5,098.90	76.69	67.490	
9,850.00	7,561.77	7,769.38	7,662.37	125.20	31.40	96.47	1,068.42	305.24	5,187.63	5,110.72	76.90	67.455	
9,900.00	7,578.90	7,779.37	7,672.36	125.23	31.43	94.52	1,068.49	305.43	5,197.42	5,120.29	77.14	67.378	
9,950.00	7,593.04	7,797.00	7,689.99	125.22	31.49	93.11	1,068.59	305.75	5,204.95	5,127.48	77.47	67.188	
10,000.00	7,604.09	7,797.00	7,689.99	125.17	31.49	91.95	1,068.59	305.75	5,210.13	5,132.44	77.69	67.066	
10,050.00	7,611.97	7,797.00	7,689.99	125.08	31.49	91.20	1,068.59	305.75	5,212.97	5,135.03	77.94	66.883	
10,100.00	7,616.61	7,797.00	7,689.99	124.97	31.49	90.85	1,068.59	305.75	5,213.48	5,135.24	78.24	66.637	
10,145.95	7,618.00	7,797.00	7,689.99	124.84	31.49	90.88	1,068.59	305.75	5,211.86	5,133.32	78.54	66.356	
10,200.00	7,618.00	7,797.00	7,689.99	124.69	31.49	90.88	1,068.59	305.75	5,209.08	5,130.15	78.93	65.995	
10,300.00	7,618.00	7,797.00	7,689.99	124.41	31.49	90.88	1,068.59	305.75	5,205.41	5,125.73	79.68	65.328	
10,400.00	7,618.00	7,797.00	7,689.99	124.14	31.49	90.88	1,068.59	305.75	5,203.66	5,123.19	80.47	64.666	
10,441.20	7,618.00	7,797.00	7,689.99	124.03	31.49	90.88	1,068.59	305.75	5,203.49	5,122.68	80.81	64.391	
10,500.00	7,618.00	7,797.00	7,689.99	123.88	31.49	90.88	1,068.59	305.75	5,203.83	5,122.54	81.29	64.015	
10,600.00	7,618.00	7,797.00	7,689.99	123.63	31.49	90.88	1,068.59	305.75	5,205.92	5,123.77	82.14	63.376	
10,700.00	7,618.00	7,797.00	7,689.99	123.40	31.49	90.88	1,068.59	305.75	5,209.93	5,126.90	83.02	62.752	
10,800.00	7,618.00	7,797.00	7,689.99	123.18	31.49	90.88	1,068.59	305.75	5,215.85	5,131.92	83.93	62.146	
10,900.00	7,618.00	7,797.00	7,689.99	122.96	31.49	90.88	1,068.59	305.75	5,223.68	5,138.83	84.85	61.561	
11,000.00	7,618.00	7,797.00	7,689.99	122.76	31.49	90.88	1,068.59	305.75	5,233.41	5,147.62	85.80	60.998	
11,100.00	7,618.00	7,797.00	7,689.99	122.57	31.49	90.88	1,068.59	305.75	5,245.03	5,158.28	86.75	60.460	
11,200.00	7,618.00	7,797.00	7,689.99	122.39	31.49	90.88	1,068.59	305.75	5,258.53	5,170.81	87.72	59.947	
11,300.00	7,618.00	7,797.00	7,689.99	122.23	31.49	90.88	1,068.59	305.75	5,273.89	5,185.19	88.69	59.461	
11,400.00	7,618.00	7,797.00	7,689.99	122.07	31.49	90.88	1,068.59	305.75	5,291.09	5,201.42	89.67	59.003	
11,500.00	7,618.00	7,797.00	7,689.99	121.93	31.49	90.88	1,068.59	305.75	5,310.12	5,219.47	90.66	58.574	
11,600.00	7,618.00	7,797.00	7,689.99	121.79	31.49	90.88	1,068.59	305.75	5,330.96	5,239.32	91.64	58.173	
11,700.00	7,618.00	7,797.00	7,689.99	121.67	31.49	90.88	1,068.59	305.75	5,353.59	5,260.97	92.62	57.802	
11,800.00	7,618.00	7,797.00	7,689.99	121.56	31.49	90.88	1,068.59	305.75	5,377.98	5,284.39	93.59	57.461	
11,900.00	7,618.00	7,797.00	7,689.99	121.46	31.49	90.88	1,068.59	305.75	5,404.12	5,309.55	94.56	57.150	
12,000.00	7,618.00	7,797.00	7,689.99	121.38	31.49	90.88	1,068.59	305.75	5,431.96	5,336.44	95.52	56.868	
12,100.00	7,618.00	7,797.00	7,689.99	121.30	31.49	90.88	1,068.59	305.75	5,461.50	5,365.03	96.47	56.615	
12,200.00	7,618.00	7,797.00	7,689.99	121.24	31.49	90.88	1,068.59	305.75	5,492.70	5,395.30	97.40	56.392	
12,300.00	7,618.00	7,797.00	7,689.99	121.19	31.49	90.88	1,068.59	305.75	5,525.53	5,427.21	98.32	56.197	
12,400.00	7,618.00	7,797.00	7,689.99	121.16	31.49	90.88	1,068.59	305.75	5,559.97	5,460.74	99.23	56.030	
12,500.00	7,618.00	7,797.00	7,689.99	121.14	31.49	90.88	1,068.59	305.75	5,595.98	5,495.86	100.12	55.891	
12,600.00	7,618.00	7,797.00	7,689.99	121.13	31.49	90.88	1,068.59	305.75	5,633.54	5,532.54	101.00	55.779	
12,700.00	7,618.00	7,797.00	7,689.99	121.13	31.49	90.88	1,068.59	305.75	5,672.61	5,570.76	101.85	55.694	
12,800.00	7,618.00	7,797.00	7,689.99	121.15	31.49	90.88	1,068.59	305.75	5,713.17	5,610.48	102.69	55.634	
12,900.00	7,618.00	7,797.00	7,689.99	121.18	31.49	90.88	1,068.59	305.75	5,755.18	5,651.67	103.51	55.600	
13,000.00	7,618.00	7,797.00	7,689.99	121.23	31.49	90.88	1,068.59	305.75	5,798.61	5,694.30	104.31	55.590	
13,100.00	7,618.00	7,797.00	7,689.99	121.29	31.49	90.88	1,068.59	305.75	5,843.42	5,738.33	105.09	55.603	
13,200.00	7,618.00	7,797.00	7,689.99	121.37	31.49	90.88	1,068.59	305.75	5,889.60	5,783.75	105.85	55.640	
13,300.00	7,618.00	7,797.00	7,689.99	121.46	31.49	90.88	1,068.59	305.75	5,937.10	5,830.51	106.59	55.700	
13,400.00	7,618.00	7,797.00	7,689.99	121.57	31.49	90.88	1,068.59	305.75	5,985.89	5,878.58	107.31	55.780	
13,500.00	7,618.00	7,797.00	7,689.99	121.70	31.49	90.88	1,068.59	305.75	6,035.95	5,927.93	108.01	55.882	
13,600.00	7,618.00	7,797.00	7,689.99	121.84	31.49	90.88	1,068.59	305.75	6,087.23	5,978.54	108.69	56.005	
13,700.00	7,618.00	7,797.00	7,689.99	122.01	31.49	90.88	1,068.59	305.75	6,139.72	6,030.37	109.35	56.147	
13,800.00	7,618.00	7,789.44	7,682.43	122.19	31.46	90.80	1,068.55	305.62	6,193.37	6,083.42	109.95	56.331	
13,900.00	7,618.00	7,789.04	7,682.02	122.39	31.46	90.79	1,068.54	305.61	6,248.17	6,137.60	110.56	56.511	
14,000.00	7,618.00	7,788.62	7,681.61	122.62	31.46	90.79	1,068.54	305.60	6,304.07	6,192.91	111.16	56.710	
14,100.00	7,618.00	7,788.20	7,681.19	122.86	31.46	90.78	1,068.54	305.60	6,361.06	6,249.32	111.74	56.925	
14,200.00	7,618.00	7,787.78	7,680.77	123.12	31.46	90.78	1,068.54	305.59	6,419.10	6,306.79	112.31	57.157	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
14,300.00	7,618.00	7,787.35	7,680.34	123.41	31.46	90.77	1,068.54	305.58	6,478.16	6,365.31	112.85	57.406	
14,400.00	7,618.00	7,786.92	7,679.91	123.72	31.45	90.77	1,068.53	305.57	6,538.22	6,424.85	113.37	57.669	
14,500.00	7,618.00	7,786.48	7,679.47	124.06	31.45	90.76	1,068.53	305.57	6,599.25	6,485.37	113.88	57.948	
14,600.00	7,618.00	7,786.04	7,679.03	124.42	31.45	90.76	1,068.53	305.56	6,661.22	6,546.85	114.37	58.241	
14,700.00	7,618.00	7,785.59	7,678.58	124.80	31.45	90.76	1,068.52	305.55	6,724.11	6,609.26	114.85	58.548	
14,800.00	7,618.00	7,785.14	7,678.13	125.21	31.45	90.75	1,068.52	305.54	6,787.88	6,672.58	115.30	58.869	
14,900.00	7,618.00	7,784.68	7,677.67	125.65	31.45	90.75	1,068.52	305.53	6,852.52	6,736.78	115.75	59.203	
15,000.00	7,618.00	7,784.22	7,677.21	126.11	31.45	90.74	1,068.52	305.52	6,918.01	6,801.83	116.17	59.549	
15,100.00	7,618.00	7,783.75	7,676.74	126.61	31.44	90.73	1,068.51	305.52	6,984.31	6,867.72	116.59	59.907	
15,200.00	7,618.00	7,783.27	7,676.26	127.13	31.44	90.73	1,068.51	305.51	7,051.41	6,934.42	116.98	60.277	
15,300.00	7,618.00	7,782.79	7,675.78	127.68	31.44	90.72	1,068.51	305.50	7,119.27	7,001.91	117.37	60.659	
15,400.00	7,618.00	7,782.31	7,675.30	128.26	31.44	90.72	1,068.50	305.49	7,187.89	7,070.16	117.74	61.051	
15,500.00	7,618.00	7,781.82	7,674.81	128.87	31.44	90.71	1,068.50	305.48	7,257.24	7,139.15	118.09	61.454	
15,600.00	7,618.00	7,781.32	7,674.31	129.51	31.44	90.71	1,068.50	305.47	7,327.30	7,208.86	118.44	61.867	
15,700.00	7,618.00	7,780.82	7,673.81	130.18	31.44	90.70	1,068.50	305.46	7,398.04	7,279.28	118.77	62.290	
15,800.00	7,618.00	7,780.31	7,673.30	130.88	31.43	90.70	1,068.49	305.45	7,469.46	7,350.37	119.09	62.722	
15,900.00	7,618.00	7,779.79	7,672.78	131.61	31.43	90.69	1,068.49	305.44	7,541.52	7,422.12	119.40	63.164	
16,000.00	7,618.00	7,779.27	7,672.26	132.37	31.43	90.69	1,068.49	305.43	7,614.22	7,494.52	119.69	63.614	
16,100.00	7,618.00	7,778.74	7,671.73	133.17	31.43	90.68	1,068.48	305.42	7,687.52	7,567.54	119.98	64.073	
16,200.00	7,618.00	7,778.20	7,671.19	133.99	31.43	90.67	1,068.48	305.41	7,761.43	7,641.17	120.26	64.541	
16,300.00	7,618.00	7,777.66	7,670.65	134.84	31.43	90.67	1,068.47	305.40	7,835.91	7,715.39	120.52	65.016	
16,400.00	7,618.00	7,777.11	7,670.10	135.72	31.42	90.66	1,068.47	305.39	7,910.96	7,790.18	120.78	65.499	
16,500.00	7,618.00	7,776.56	7,669.55	136.63	31.42	90.66	1,068.47	305.38	7,986.55	7,865.52	121.03	65.989	
16,600.00	7,618.00	7,775.99	7,668.99	137.57	31.42	90.65	1,068.46	305.37	8,062.67	7,941.41	121.27	66.487	
16,700.00	7,618.00	7,775.42	7,668.41	138.54	31.42	90.64	1,068.46	305.36	8,139.31	8,017.82	121.50	66.992	
16,800.00	7,618.00	7,774.85	7,667.84	139.53	31.42	90.64	1,068.46	305.35	8,216.46	8,094.74	121.72	67.504	
16,900.00	7,618.00	7,774.26	7,667.25	140.55	31.41	90.63	1,068.45	305.34	8,294.09	8,172.16	121.93	68.022	
17,000.00	7,618.00	7,773.67	7,666.66	141.60	31.41	90.62	1,068.45	305.32	8,372.19	8,250.05	122.14	68.546	
17,100.00	7,618.00	7,773.07	7,666.06	142.67	31.41	90.62	1,068.44	305.31	8,450.76	8,328.42	122.34	69.077	
17,200.00	7,618.00	7,772.46	7,665.45	143.77	31.41	90.61	1,068.44	305.30	8,529.78	8,407.25	122.53	69.613	
17,300.00	7,618.00	7,771.84	7,664.83	144.88	31.41	90.60	1,068.43	305.29	8,609.23	8,486.51	122.72	70.155	
17,400.00	7,618.00	7,771.22	7,664.21	146.02	31.41	90.60	1,068.43	305.28	8,689.11	8,566.21	122.90	70.703	
17,500.00	7,618.00	7,770.58	7,663.57	147.19	31.40	90.59	1,068.43	305.26	8,769.40	8,646.33	123.07	71.256	
17,600.00	7,618.00	7,769.94	7,662.93	148.37	31.40	90.58	1,068.42	305.25	8,850.09	8,726.85	123.24	71.814	
17,700.00	7,618.00	7,769.29	7,662.28	149.57	31.40	90.58	1,068.42	305.24	8,931.17	8,807.77	123.40	72.378	
17,800.00	7,618.00	7,768.63	7,661.62	150.79	31.40	90.57	1,068.41	305.22	9,012.63	8,889.08	123.55	72.946	
17,900.00	7,618.00	7,767.96	7,660.95	152.03	31.39	90.56	1,068.41	305.21	9,094.46	8,970.76	123.70	73.519	
18,000.00	7,618.00	7,767.28	7,660.27	153.29	31.39	90.55	1,068.40	305.20	9,176.65	9,052.80	123.85	74.096	
18,100.00	7,618.00	7,766.59	7,659.58	154.57	31.39	90.55	1,068.40	305.18	9,259.19	9,135.20	123.99	74.678	
18,200.00	7,618.00	7,765.89	7,658.89	155.86	31.39	90.54	1,068.39	305.17	9,342.08	9,217.95	124.12	75.265	
18,300.00	7,618.00	7,765.18	7,658.18	157.17	31.39	90.53	1,068.39	305.15	9,425.29	9,301.04	124.25	75.855	
18,400.00	7,618.00	7,764.47	7,657.46	158.49	31.38	90.52	1,068.38	305.14	9,508.83	9,384.45	124.38	76.449	
18,500.00	7,618.00	7,763.74	7,656.73	159.82	31.38	90.51	1,068.38	305.12	9,592.68	9,468.18	124.50	77.048	
18,600.00	7,618.00	7,763.00	7,655.99	161.17	31.38	90.51	1,068.37	305.11	9,676.84	9,552.22	124.62	77.650	
18,700.00	7,618.00	7,762.25	7,655.24	162.54	31.38	90.50	1,068.36	305.09	9,761.30	9,636.56	124.74	78.256	
18,800.00	7,618.00	7,761.48	7,654.48	163.91	31.37	90.49	1,068.36	305.07	9,846.05	9,721.20	124.85	78.865	
18,900.00	7,618.00	7,760.71	7,653.70	165.30	31.37	90.48	1,068.35	305.06	9,931.08	9,806.13	124.95	79.478	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-33.31	218.57	-143.64	261.67				
100.00	100.00	90.95	90.95	0.13	0.15	-33.29	218.78	-143.65	261.73	261.45	0.28	926.720	
200.00	200.00	190.32	190.32	0.49	0.41	-33.23	219.42	-143.72	262.30	261.39	0.90	289.939	
300.00	299.98	289.95	289.95	0.85	0.77	-102.84	220.12	-143.90	263.38	261.76	1.62	162.956	
400.00	399.84	394.34	394.33	1.21	1.13	-103.90	220.48	-143.73	264.79	262.45	2.34	113.263	
500.00	499.45	504.07	504.01	1.58	1.51	-105.85	218.17	-141.75	264.27	261.19	3.08	85.803	
600.00	598.70	615.25	614.91	1.97	1.90	-108.66	212.29	-136.67	260.88	257.03	3.85	67.810	
700.00	697.47	726.45	725.33	2.38	2.32	-112.27	202.82	-127.70	254.54	249.90	4.63	54.943	
800.00	795.62	836.99	834.34	2.83	2.77	-116.64	190.51	-114.20	245.74	240.31	5.43	45.264	
900.00	893.06	944.22	939.14	3.31	3.24	-121.93	175.50	-97.18	235.23	229.00	6.23	37.764	
1,000.00	989.64	1,042.75	1,034.92	3.83	3.72	-127.82	160.58	-79.58	226.29	219.25	7.04	32.129	
1,100.00	1,085.27	1,141.38	1,130.51	4.40	4.22	-134.81	144.52	-61.30	221.14	213.28	7.86	28.123	
1,129.90	1,113.65	1,168.77	1,157.05	4.59	4.36	-136.88	140.06	-56.24	220.78	212.66	8.12	27.199	CC, ES
1,200.00	1,179.82	1,233.07	1,219.53	5.02	4.69	-141.80	130.13	-44.74	222.80	214.09	8.71	25.577	
1,300.00	1,273.17	1,324.76	1,308.87	5.70	5.15	-148.86	116.26	-29.44	232.74	223.17	9.56	24.335	
1,400.00	1,365.21	1,417.84	1,399.68	6.43	5.63	-155.69	102.17	-14.65	250.42	240.00	10.42	24.024	SF
1,500.00	1,455.84	1,512.87	1,492.24	7.23	6.12	-162.08	87.32	0.93	274.35	263.05	11.30	24.274	
1,600.00	1,544.94	1,605.91	1,582.55	8.09	6.61	-167.72	71.80	17.02	303.78	291.58	12.20	24.899	
1,700.00	1,632.39	1,695.87	1,669.86	9.01	7.09	-172.37	56.96	32.79	338.68	325.58	13.11	25.843	
1,800.00	1,718.11	1,783.28	1,754.86	10.00	7.56	-176.07	43.15	47.79	378.75	364.74	14.01	27.041	
1,900.00	1,801.97	1,868.34	1,837.72	11.07	8.01	-179.04	30.06	61.89	423.56	408.66	14.90	28.428	
2,000.00	1,883.88	1,949.19	1,916.73	12.20	8.42	178.71	18.32	74.39	472.92	457.16	15.76	30.011	
2,100.00	1,963.74	2,032.28	1,998.26	13.41	8.82	176.95	7.55	86.19	526.24	509.62	16.62	31.660	
2,200.00	2,041.45	2,106.49	2,071.27	14.69	9.17	175.71	-1.32	96.08	583.11	565.70	17.41	33.495	
2,300.00	2,116.92	2,179.12	2,142.81	16.05	9.52	174.65	-10.49	104.68	644.20	626.02	18.19	35.423	
2,357.48	2,159.25	2,224.09	2,187.01	16.86	9.73	174.00	-16.73	110.17	680.70	662.03	18.67	36.455	
2,400.00	2,190.27	2,257.63	2,219.89	17.47	9.89	173.58	-21.70	114.46	708.01	688.97	19.04	37.186	
2,500.00	2,263.22	2,338.31	2,298.71	18.92	10.30	172.56	-34.77	125.64	772.00	752.06	19.94	38.717	
2,600.00	2,336.18	2,421.12	2,379.40	20.37	10.74	171.61	-48.70	138.01	835.60	814.71	20.89	40.002	
2,700.00	2,409.14	2,507.27	2,463.38	21.84	11.19	170.81	-62.49	151.37	898.61	876.73	21.88	41.074	
2,800.00	2,482.09	2,596.03	2,549.92	23.31	11.66	170.12	-75.93	165.86	960.83	937.93	22.90	41.957	
2,900.00	2,555.05	2,683.72	2,635.33	24.78	12.12	169.53	-88.76	180.98	1,022.27	998.35	23.92	42.737	
3,000.00	2,628.01	2,766.44	2,715.99	26.27	12.55	169.09	-100.03	195.46	1,083.21	1,058.32	24.89	43.520	
3,100.00	2,700.96	2,836.74	2,784.55	27.75	12.92	168.76	-109.60	207.71	1,144.24	1,118.50	25.74	44.454	
3,200.00	2,773.92	2,897.56	2,843.90	29.24	13.24	168.48	-118.44	217.67	1,206.37	1,179.87	26.49	45.536	
3,300.00	2,846.88	2,974.78	2,919.23	30.73	13.64	168.15	-130.15	229.94	1,269.09	1,241.66	27.43	46.274	
3,400.00	2,919.83	3,055.34	2,997.75	32.23	14.07	167.81	-142.64	242.95	1,331.79	1,303.38	28.41	46.885	
3,500.00	2,992.79	3,126.89	3,067.41	33.72	14.44	167.52	-153.98	254.68	1,394.49	1,365.19	29.29	47.604	
3,600.00	3,065.75	3,201.03	3,139.72	35.22	14.83	167.27	-165.66	266.20	1,457.73	1,427.52	30.21	48.258	
3,700.00	3,138.71	3,292.28	3,228.86	36.72	15.31	167.03	-178.89	280.50	1,520.40	1,489.10	31.30	48.576	
3,800.00	3,211.66	3,363.04	3,298.04	38.22	15.67	166.87	-188.92	291.50	1,583.06	1,550.89	32.16	49.220	
3,900.00	3,284.62	3,440.00	3,373.26	39.72	16.06	166.70	-200.06	303.37	1,645.93	1,612.83	33.10	49.727	
4,000.00	3,357.58	3,516.06	3,447.56	41.22	16.45	166.54	-211.23	315.15	1,708.85	1,674.82	34.03	50.216	
4,100.00	3,430.53	3,592.70	3,522.49	42.73	16.85	166.40	-222.32	326.83	1,771.85	1,736.88	34.97	50.675	
4,200.00	3,503.49	3,669.24	3,597.34	44.23	17.24	166.28	-233.32	338.43	1,834.87	1,798.98	35.90	51.115	
4,300.00	3,576.45	3,744.48	3,671.10	45.74	17.61	166.19	-243.43	349.31	1,898.01	1,861.21	36.80	51.575	
4,400.00	3,649.40	3,836.89	3,761.63	47.25	18.07	166.09	-255.85	363.02	1,960.88	1,922.98	37.90	51.742	
4,500.00	3,722.36	3,933.56	3,855.97	48.75	18.58	165.94	-269.77	378.88	2,023.09	1,984.02	39.07	51.776	
4,600.00	3,795.32	4,010.81	3,931.44	50.26	18.98	165.84	-280.32	391.57	2,085.00	2,044.98	40.02	52.095	
4,700.00	3,868.27	4,099.11	4,017.89	51.77	19.42	165.77	-291.44	405.71	2,146.76	2,105.68	41.08	52.258	
4,800.00	3,941.23	4,161.58	4,078.88	53.28	19.75	165.69	-300.00	416.17	2,208.50	2,166.63	41.87	52.741	
4,900.00	4,014.19	4,217.49	4,133.21	54.79	20.05	165.58	-309.10	425.72	2,271.04	2,228.43	42.61	53.299	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,087.15	4,282.39	4,196.30	56.30	20.40	165.46	-319.92	436.39	2,334.16	2,290.71	43.46	53.714	
5,100.00	4,160.10	4,332.34	4,245.04	57.81	20.66	165.39	-327.83	443.96	2,397.87	2,353.77	44.10	54.372	
5,200.00	4,233.06	4,374.14	4,285.99	59.32	20.87	165.36	-334.15	449.40	2,462.63	2,418.00	44.63	55.181	
5,300.00	4,306.02	4,435.86	4,346.73	60.83	21.16	165.35	-342.83	456.13	2,528.32	2,482.96	45.36	55.740	
5,400.00	4,378.97	4,512.33	4,422.29	62.34	21.49	165.40	-351.92	463.59	2,593.91	2,547.69	46.22	56.121	
5,500.00	4,451.93	4,568.78	4,478.24	63.85	21.73	165.47	-357.75	468.25	2,659.87	2,613.03	46.83	56.793	
5,600.00	4,524.89	4,637.19	4,546.19	65.36	22.00	165.58	-364.04	472.98	2,726.23	2,678.68	47.55	57.336	
5,700.00	4,597.84	4,709.21	4,617.84	66.88	22.27	165.72	-369.87	477.42	2,792.67	2,744.39	48.28	57.843	
5,800.00	4,670.80	4,778.60	4,686.96	68.39	22.52	165.87	-374.69	481.11	2,859.21	2,810.25	48.97	58.391	
5,900.00	4,743.76	4,838.70	4,746.92	69.90	22.73	166.02	-378.13	483.61	2,926.03	2,876.49	49.54	59.065	
6,000.00	4,816.71	4,896.33	4,804.46	71.41	22.92	166.19	-380.84	485.32	2,993.23	2,943.16	50.07	59.777	
6,100.00	4,889.67	4,951.95	4,859.99	72.93	23.10	166.35	-383.47	486.62	3,060.88	3,010.30	50.58	60.511	
6,200.00	4,962.63	4,999.83	4,907.81	74.44	23.25	166.48	-385.83	487.41	3,129.04	3,078.03	51.02	61.331	
6,300.00	5,035.59	5,052.00	4,959.91	75.95	23.41	166.63	-388.50	487.80	3,197.83	3,146.34	51.49	62.106	
6,400.00	5,108.54	5,099.22	5,007.06	77.47	23.56	166.75	-391.13	487.89	3,267.14	3,215.22	51.92	62.931	
6,500.00	5,181.50	6,500.00	5,118.13	78.98	27.83	167.05	-396.74	488.24	3,336.24	3,279.28	56.95	58.578	
6,600.00	5,254.46	5,322.35	5,229.99	80.49	24.21	167.39	-398.94	488.73	3,403.99	3,350.11	53.88	63.178	
6,700.00	5,327.41	5,388.76	5,296.40	82.01	24.38	167.61	-399.26	488.46	3,471.93	3,417.51	54.42	63.798	
6,800.00	5,400.37	5,455.40	5,363.05	83.52	24.55	167.83	-399.30	487.92	3,540.03	3,485.07	54.96	64.415	
6,900.00	5,473.33	5,521.21	5,428.85	85.04	24.71	168.04	-399.41	487.29	3,608.29	3,552.80	55.49	65.032	
7,000.00	5,546.28	5,591.74	5,499.37	86.55	24.89	168.26	-399.52	486.51	3,676.66	3,620.60	56.05	65.592	
7,100.00	5,619.24	5,665.95	5,573.58	88.06	25.07	168.49	-399.55	485.64	3,745.06	3,688.41	56.65	66.106	
7,200.00	5,692.20	5,743.04	5,650.67	89.58	25.27	168.71	-399.60	484.83	3,813.43	3,756.15	57.28	66.578	
7,300.00	5,765.15	5,820.33	5,727.95	91.09	25.46	168.93	-399.61	484.12	3,881.72	3,823.81	57.91	67.033	
7,400.00	5,838.11	5,894.23	5,801.85	92.61	25.65	169.13	-399.56	483.48	3,949.97	3,891.46	58.51	67.505	
7,500.00	5,911.07	5,967.19	5,874.80	94.12	25.83	169.32	-399.42	482.81	4,018.24	3,959.13	59.11	67.976	
7,600.00	5,984.03	6,034.87	5,942.49	95.64	26.01	169.49	-399.20	482.12	4,086.55	4,026.88	59.67	68.485	
7,700.00	6,056.98	6,102.39	6,010.00	97.15	26.18	169.66	-399.02	481.34	4,155.00	4,094.77	60.23	68.986	
7,800.00	6,129.94	6,174.52	6,082.12	98.67	26.36	169.84	-398.74	480.42	4,223.49	4,162.67	60.83	69.436	
7,900.00	6,202.90	6,253.62	6,161.21	100.18	26.57	170.03	-398.30	479.41	4,291.96	4,230.48	61.48	69.812	
8,000.00	6,275.85	6,337.63	6,245.21	101.70	26.78	170.23	-397.74	478.49	4,360.29	4,298.12	62.17	70.131	
8,100.00	6,348.81	6,408.40	6,315.99	103.21	26.97	170.38	-397.30	477.86	4,428.52	4,365.75	62.77	70.555	
8,200.00	6,421.77	6,475.83	6,383.41	104.73	27.15	170.53	-396.90	477.17	4,496.87	4,433.53	63.34	71.000	
8,300.00	6,494.72	6,549.06	6,456.63	106.24	27.34	170.68	-396.55	476.43	4,565.26	4,501.31	63.96	71.382	
8,400.00	6,567.68	6,650.02	6,557.59	107.76	27.61	170.88	-396.13	475.81	4,633.44	4,568.63	64.80	71.501	
8,500.00	6,640.64	6,717.74	6,625.31	109.27	27.80	171.01	-395.91	475.60	4,701.46	4,636.08	65.39	71.902	
8,600.00	6,713.59	6,793.04	6,700.61	110.79	28.01	171.14	-395.83	475.44	4,769.52	4,703.47	66.04	72.217	
8,700.00	6,786.55	6,870.61	6,778.18	112.30	28.24	171.27	-396.00	475.47	4,837.52	4,770.79	66.73	72.491	
8,800.00	6,859.51	6,948.63	6,856.19	113.82	28.48	171.39	-396.60	475.82	4,905.46	4,838.02	67.44	72.740	
8,900.00	6,932.46	7,026.69	6,934.25	115.33	28.72	171.50	-397.35	476.33	4,973.33	4,905.18	68.15	72.975	
9,000.00	7,005.42	7,098.77	7,006.32	116.85	28.95	171.60	-398.24	476.92	5,041.19	4,972.38	68.82	73.254	
9,104.89	7,081.95	7,165.31	7,072.85	118.44	29.16	171.68	-399.26	477.51	5,112.45	5,043.01	69.44	73.621	
9,150.00	7,115.15	7,193.32	7,100.86	119.12	29.25	163.31	-399.73	477.73	5,142.59	5,072.89	69.70	73.778	
9,200.00	7,152.46	7,230.71	7,138.24	119.86	29.37	154.25	-400.40	478.00	5,174.59	5,104.55	70.04	73.879	
9,250.00	7,190.04	7,271.52	7,179.04	120.57	29.50	145.53	-401.11	478.32	5,204.83	5,134.43	70.40	73.929	
9,300.00	7,227.59	7,312.24	7,219.75	121.25	29.63	137.27	-401.82	478.66	5,233.12	5,162.37	70.76	73.961	
9,350.00	7,264.83	7,352.38	7,259.89	121.89	29.76	129.57	-402.50	479.01	5,259.27	5,188.18	71.09	73.978	
9,400.00	7,301.48	7,392.10	7,299.60	122.48	29.88	122.52	-403.17	479.37	5,283.13	5,211.72	71.42	73.977	
9,450.00	7,337.26	7,435.09	7,342.58	123.01	30.02	116.21	-403.86	479.79	5,304.55	5,232.80	71.75	73.927	
9,500.00	7,371.90	7,476.78	7,384.27	123.49	30.16	110.64	-404.47	480.22	5,323.40	5,251.33	72.07	73.866	
9,550.00	7,405.13	7,548.62	7,456.09	123.91	30.39	106.05	-405.27	481.17	5,339.52	5,266.89	72.63	73.517	
9,600.00	7,436.70	9,600.00	7,478.27	124.27	37.03	101.78	-405.41	481.57	5,352.78	5,273.42	79.35	67.457	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,650.00	7,466.36	7,601.73	7,509.19	124.57	30.56	98.26	-405.62	482.05	5,363.36	5,290.44	72.92	73.548	
9,700.00	7,493.91	7,615.03	7,522.50	124.81	30.60	95.20	-405.70	482.20	5,371.29	5,298.35	72.94	73.644	
9,750.00	7,519.11	7,627.17	7,534.63	125.00	30.64	92.72	-405.77	482.31	5,376.52	5,303.59	72.93	73.724	
9,800.00	7,541.79	7,638.06	7,545.53	125.12	30.67	90.76	-405.84	482.37	5,379.03	5,306.13	72.90	73.786	
9,850.00	7,561.77	7,647.65	7,555.11	125.20	30.70	89.30	-405.90	482.41	5,378.83	5,305.98	72.86	73.828	
9,900.00	7,578.90	7,672.00	7,579.46	125.23	30.78	88.47	-406.06	482.42	5,375.99	5,303.05	72.94	73.700	
9,950.00	7,593.04	7,672.00	7,579.46	125.22	30.78	87.85	-406.06	482.42	5,370.39	5,297.57	72.82	73.751	
10,000.00	7,604.09	7,672.00	7,579.46	125.17	30.78	87.68	-406.06	482.42	5,362.19	5,289.49	72.70	73.759	
10,050.00	7,611.97	7,672.00	7,579.46	125.08	30.78	87.94	-406.06	482.42	5,351.44	5,278.85	72.59	73.720	
10,100.00	7,616.61	7,672.00	7,579.46	124.97	30.78	88.63	-406.06	482.42	5,338.21	5,265.71	72.50	73.629	
10,145.95	7,618.00	7,672.00	7,579.46	124.84	30.78	89.65	-406.06	482.42	5,323.93	5,251.49	72.44	73.495	
10,200.00	7,618.00	7,672.00	7,579.46	124.69	30.78	89.65	-406.06	482.42	5,306.21	5,233.83	72.39	73.305	
10,300.00	7,618.00	7,672.00	7,579.46	124.41	30.78	89.65	-406.06	482.42	5,274.73	5,202.41	72.33	72.928	
10,400.00	7,618.00	7,672.00	7,579.46	124.14	30.78	89.65	-406.06	482.42	5,244.98	5,172.65	72.33	72.516	
10,500.00	7,618.00	7,672.00	7,579.46	123.88	30.78	89.65	-406.06	482.42	5,216.97	5,144.58	72.39	72.070	
10,600.00	7,618.00	7,672.00	7,579.46	123.63	30.78	89.65	-406.06	482.42	5,190.73	5,118.22	72.51	71.589	
10,700.00	7,618.00	7,672.00	7,579.46	123.40	30.78	89.65	-406.06	482.42	5,166.30	5,093.61	72.69	71.075	
10,800.00	7,618.00	7,672.00	7,579.46	123.18	30.78	89.65	-406.06	482.42	5,143.69	5,070.76	72.93	70.529	
10,900.00	7,618.00	7,672.00	7,579.46	122.96	30.78	89.65	-406.06	482.42	5,122.94	5,049.71	73.23	69.953	
11,000.00	7,618.00	7,672.00	7,579.46	122.76	30.78	89.65	-406.06	482.42	5,104.07	5,030.47	73.60	69.351	
11,100.00	7,618.00	7,672.00	7,579.46	122.57	30.78	89.65	-406.06	482.42	5,087.09	5,013.07	74.02	68.725	
11,200.00	7,618.00	7,672.00	7,579.46	122.39	30.78	89.65	-406.06	482.42	5,072.02	4,997.52	74.50	68.080	
11,300.00	7,618.00	7,672.00	7,579.46	122.23	30.78	89.65	-406.06	482.42	5,058.89	4,983.85	75.04	67.419	
11,400.00	7,618.00	7,672.00	7,579.46	122.07	30.78	89.65	-406.06	482.42	5,047.70	4,972.08	75.63	66.746	
11,500.00	7,618.00	7,672.00	7,579.46	121.93	30.78	89.65	-406.06	482.42	5,038.48	4,962.21	76.26	66.067	
11,600.00	7,618.00	7,672.00	7,579.46	121.79	30.78	89.65	-406.06	482.42	5,031.22	4,954.28	76.95	65.384	
11,700.00	7,618.00	7,672.00	7,579.46	121.67	30.78	89.65	-406.06	482.42	5,025.95	4,948.27	77.68	64.703	
11,800.00	7,618.00	7,672.00	7,579.46	121.56	30.78	89.65	-406.06	482.42	5,022.66	4,944.21	78.45	64.027	
11,900.00	7,618.00	7,683.29	7,590.75	121.46	30.81	89.78	-406.13	482.38	5,021.34	4,941.97	79.37	63.268	
11,915.31	7,618.00	7,683.35	7,590.82	121.45	30.81	89.78	-406.13	482.38	5,021.32	4,941.82	79.50	63.164	
12,000.00	7,618.00	7,683.72	7,591.18	121.38	30.81	89.79	-406.13	482.38	5,022.03	4,941.82	80.21	62.613	
12,100.00	7,618.00	7,684.15	7,591.62	121.30	30.81	89.79	-406.14	482.38	5,024.71	4,943.64	81.08	61.974	
12,200.00	7,618.00	7,684.59	7,592.05	121.24	30.81	89.80	-406.14	482.37	5,029.38	4,947.41	81.97	61.354	
12,300.00	7,618.00	7,685.02	7,592.48	121.19	30.81	89.80	-406.14	482.37	5,036.03	4,953.14	82.89	60.756	
12,400.00	7,618.00	7,685.46	7,592.92	121.16	30.82	89.81	-406.15	482.37	5,044.66	4,960.83	83.82	60.181	
12,500.00	7,618.00	7,685.90	7,593.36	121.14	30.82	89.81	-406.15	482.37	5,055.24	4,970.47	84.77	59.632	
12,600.00	7,618.00	7,686.33	7,593.80	121.13	30.82	89.82	-406.15	482.37	5,067.78	4,982.05	85.73	59.110	
12,700.00	7,618.00	7,686.77	7,594.24	121.13	30.82	89.82	-406.16	482.37	5,082.26	4,995.56	86.70	58.617	
12,800.00	7,618.00	7,687.22	7,594.68	121.15	30.82	89.83	-406.16	482.36	5,098.66	5,010.98	87.68	58.153	
12,900.00	7,618.00	7,687.66	7,595.12	121.18	30.82	89.83	-406.16	482.36	5,116.95	5,028.30	88.65	57.719	
13,000.00	7,618.00	7,688.10	7,595.56	121.23	30.82	89.84	-406.16	482.36	5,137.13	5,047.50	89.63	57.315	
13,100.00	7,618.00	7,688.55	7,596.01	121.29	30.82	89.84	-406.17	482.36	5,159.17	5,068.57	90.60	56.943	
13,200.00	7,618.00	7,688.99	7,596.46	121.37	30.83	89.85	-406.17	482.36	5,183.05	5,091.48	91.57	56.601	
13,300.00	7,618.00	7,689.44	7,596.90	121.46	30.83	89.85	-406.17	482.35	5,208.74	5,116.20	92.53	56.291	
13,400.00	7,618.00	7,689.89	7,597.35	121.57	30.83	89.86	-406.18	482.35	5,236.21	5,142.72	93.49	56.011	
13,500.00	7,618.00	7,690.34	7,597.80	121.70	30.83	89.86	-406.18	482.35	5,265.43	5,171.01	94.43	55.761	
13,600.00	7,618.00	7,690.79	7,598.25	121.84	30.83	89.87	-406.18	482.35	5,296.39	5,201.03	95.36	55.542	
13,700.00	7,618.00	7,691.24	7,598.71	122.01	30.83	89.87	-406.19	482.35	5,329.04	5,232.76	96.27	55.352	
13,800.00	7,618.00	7,691.70	7,599.16	122.19	30.83	89.88	-406.19	482.34	5,363.36	5,266.18	97.18	55.192	
13,900.00	7,618.00	7,692.15	7,599.62	122.39	30.84	89.88	-406.19	482.34	5,399.31	5,301.24	98.06	55.060	
14,000.00	7,618.00	7,692.61	7,600.07	122.62	30.84	89.89	-406.20	482.34	5,436.86	5,337.93	98.93	54.955	
14,100.00	7,618.00	7,693.07	7,600.53	122.86	30.84	89.89	-406.20	482.34	5,475.98	5,376.19	99.78	54.878	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
14,200.00	7,618.00	7,693.53	7,600.99	123.12	30.84	89.90	-406.20	482.33	5,516.64	5,416.02	100.62	54.827	
14,300.00	7,618.00	7,693.99	7,601.45	123.41	30.84	89.90	-406.20	482.33	5,558.79	5,457.36	101.43	54.802	
14,400.00	7,618.00	7,694.45	7,601.91	123.72	30.84	89.91	-406.21	482.33	5,602.42	5,500.19	102.23	54.801	
14,500.00	7,618.00	7,694.91	7,602.38	124.06	30.84	89.91	-406.21	482.33	5,647.48	5,544.47	103.01	54.825	
14,600.00	7,618.00	7,695.38	7,602.84	124.42	30.84	89.92	-406.21	482.32	5,693.94	5,590.18	103.77	54.873	
14,700.00	7,618.00	7,695.84	7,603.31	124.80	30.85	89.92	-406.22	482.32	5,741.77	5,637.26	104.50	54.943	
14,800.00	7,618.00	7,696.31	7,603.77	125.21	30.85	89.93	-406.22	482.32	5,790.92	5,685.70	105.22	55.035	
14,900.00	7,618.00	7,696.78	7,604.24	125.65	30.85	89.93	-406.22	482.32	5,841.38	5,735.46	105.92	55.148	
15,000.00	7,618.00	7,697.25	7,604.71	126.11	30.85	89.94	-406.23	482.31	5,893.10	5,786.50	106.60	55.282	
15,100.00	7,618.00	7,697.72	7,605.18	126.61	30.85	89.95	-406.23	482.31	5,946.05	5,838.79	107.26	55.436	
15,200.00	7,618.00	7,698.19	7,605.66	127.13	30.85	89.95	-406.23	482.31	6,000.21	5,892.31	107.90	55.609	
15,300.00	7,618.00	7,698.67	7,606.13	127.68	30.85	89.96	-406.24	482.31	6,055.53	5,947.00	108.52	55.800	
15,400.00	7,618.00	7,699.14	7,606.61	128.26	30.86	89.96	-406.24	482.30	6,111.98	6,002.86	109.12	56.009	
15,500.00	7,618.00	7,699.62	7,607.08	128.87	30.86	89.97	-406.24	482.30	6,169.54	6,059.83	109.71	56.236	
15,600.00	7,618.00	7,700.10	7,607.56	129.51	30.86	89.97	-406.25	482.30	6,228.17	6,117.90	110.27	56.479	
15,700.00	7,618.00	7,700.58	7,608.04	130.18	30.86	89.98	-406.25	482.30	6,287.85	6,177.03	110.82	56.738	
15,800.00	7,618.00	7,701.06	7,608.52	130.88	30.86	89.98	-406.25	482.29	6,348.54	6,237.19	111.35	57.013	
15,900.00	7,618.00	7,701.54	7,609.01	131.61	30.86	89.99	-406.26	482.29	6,410.22	6,298.35	111.87	57.302	
16,000.00	7,618.00	7,702.03	7,609.49	132.37	30.86	89.99	-406.26	482.29	6,472.85	6,360.49	112.36	57.606	
16,100.00	7,618.00	7,702.52	7,609.98	133.17	30.87	90.00	-406.27	482.28	6,536.41	6,423.57	112.84	57.924	
16,200.00	7,618.00	7,703.00	7,610.46	133.99	30.87	90.01	-406.27	482.28	6,600.88	6,487.57	113.31	58.255	
16,300.00	7,618.00	7,703.49	7,610.95	134.84	30.87	90.01	-406.27	482.28	6,666.22	6,552.46	113.76	58.599	
16,400.00	7,618.00	7,703.98	7,611.44	135.72	30.87	90.02	-406.28	482.28	6,732.42	6,618.22	114.19	58.956	
16,500.00	7,618.00	7,704.47	7,611.94	136.63	30.87	90.02	-406.28	482.27	6,799.44	6,684.82	114.62	59.324	
16,600.00	7,618.00	7,704.97	7,612.43	137.57	30.87	90.03	-406.28	482.27	6,867.26	6,752.24	115.02	59.704	
16,700.00	7,618.00	7,705.46	7,612.92	138.54	30.87	90.03	-406.29	482.27	6,935.86	6,820.45	115.41	60.095	
16,800.00	7,618.00	7,705.96	7,613.42	139.53	30.88	90.04	-406.29	482.26	7,005.22	6,889.42	115.79	60.497	
16,900.00	7,618.00	7,706.45	7,613.92	140.55	30.88	90.04	-406.29	482.26	7,075.31	6,959.15	116.16	60.909	
17,000.00	7,618.00	7,706.95	7,614.42	141.60	30.88	90.05	-406.30	482.26	7,146.11	7,029.59	116.52	61.332	
17,100.00	7,618.00	7,707.45	7,614.92	142.67	30.88	90.06	-406.30	482.25	7,217.60	7,100.74	116.86	61.764	
17,200.00	7,618.00	7,707.96	7,615.42	143.77	30.88	90.06	-406.30	482.25	7,289.77	7,172.58	117.19	62.205	
17,300.00	7,618.00	7,708.46	7,615.92	144.88	30.88	90.07	-406.31	482.25	7,362.58	7,245.07	117.51	62.655	
17,400.00	7,618.00	7,708.96	7,616.43	146.02	30.89	90.07	-406.31	482.24	7,436.03	7,318.21	117.82	63.114	
17,500.00	7,618.00	7,709.47	7,616.93	147.19	30.89	90.08	-406.32	482.24	7,510.09	7,391.97	118.12	63.581	
17,600.00	7,618.00	7,709.98	7,617.44	148.37	30.89	90.08	-406.32	482.24	7,584.74	7,466.33	118.41	64.056	
17,700.00	7,618.00	7,710.49	7,617.95	149.57	30.89	90.09	-406.32	482.23	7,659.97	7,541.29	118.69	64.539	
17,800.00	7,618.00	7,711.00	7,618.46	150.79	30.89	90.10	-406.33	482.23	7,735.77	7,616.81	118.96	65.030	
17,900.00	7,618.00	7,711.51	7,618.98	152.03	30.89	90.10	-406.33	482.23	7,812.11	7,692.89	119.22	65.528	
18,000.00	7,618.00	7,712.03	7,619.49	153.29	30.89	90.11	-406.33	482.22	7,888.97	7,769.50	119.47	66.032	
18,100.00	7,618.00	7,712.54	7,620.01	154.57	30.90	90.11	-406.34	482.22	7,966.35	7,846.64	119.72	66.544	
18,200.00	7,618.00	7,713.06	7,620.52	155.86	30.90	90.12	-406.34	482.22	8,044.23	7,924.28	119.95	67.062	
18,300.00	7,618.00	7,713.58	7,621.04	157.17	30.90	90.13	-406.35	482.21	8,122.60	8,002.42	120.18	67.586	
18,400.00	7,618.00	7,714.10	7,621.56	158.49	30.90	90.13	-406.35	482.21	8,201.43	8,081.03	120.40	68.117	
18,500.00	7,618.00	7,714.63	7,622.09	159.82	30.90	90.14	-406.35	482.20	8,280.72	8,160.11	120.62	68.653	
18,600.00	7,618.00	7,715.15	7,622.61	161.17	30.90	90.14	-406.36	482.20	8,360.46	8,239.63	120.82	69.195	
18,700.00	7,618.00	7,715.68	7,623.14	162.54	30.91	90.15	-406.36	482.20	8,440.63	8,319.60	121.02	69.743	
18,800.00	7,618.00	7,716.20	7,623.66	163.91	30.91	90.16	-406.37	482.19	8,521.21	8,399.99	121.22	70.296	
18,900.00	7,618.00	7,716.73	7,624.19	165.30	30.91	90.16	-406.37	482.19	8,602.21	8,480.80	121.41	70.854	
19,000.00	7,618.00	7,717.26	7,624.72	166.70	30.91	90.17	-406.37	482.18	8,683.60	8,562.00	121.59	71.417	
19,100.00	7,618.00	7,717.79	7,625.26	168.10	30.91	90.17	-406.38	482.18	8,765.37	8,643.60	121.77	71.985	
19,200.00	7,618.00	7,718.33	7,625.79	169.52	30.91	90.18	-406.38	482.18	8,847.52	8,725.58	121.94	72.557	
19,300.00	7,618.00	7,718.86	7,626.33	170.95	30.91	90.19	-406.38	482.17	8,930.03	8,807.93	122.10	73.134	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
19,400.00	7,618.00	7,719.40	7,626.86	172.39	30.92	90.19	-406.39	482.17	9,012.90	8,890.63	122.27	73.715	
19,500.00	7,618.00	7,719.94	7,627.40	173.84	30.92	90.20	-406.39	482.16	9,096.11	8,973.69	122.42	74.301	
19,600.00	7,618.00	7,720.48	7,627.94	175.30	30.92	90.20	-406.40	482.16	9,179.66	9,057.08	122.57	74.890	
19,700.00	7,618.00	7,721.02	7,628.49	176.76	30.92	90.21	-406.40	482.15	9,263.53	9,140.81	122.72	75.484	
19,800.00	7,618.00	7,721.57	7,629.03	178.24	30.92	90.22	-406.41	482.15	9,347.72	9,224.86	122.87	76.081	
19,896.19	7,618.00	7,722.09	7,629.56	179.66	30.92	90.22	-406.41	482.15	9,428.99	9,306.00	123.00	76.659	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-40.34	218.57	-185.64	286.88				
100.00	100.00	92.26	92.26	0.13	0.15	-40.45	218.19	-186.02	286.73	286.44	0.29	1,005.986	
159.60	159.60	152.02	152.01	0.35	0.25	-40.63	217.54	-186.68	286.66	286.06	0.60	480.792	CC
200.00	200.00	189.45	189.44	0.49	0.40	-40.67	217.57	-186.97	286.88	285.99	0.90	319.488	ES
300.00	299.98	281.09	281.04	0.85	0.73	-109.97	219.90	-187.22	289.61	288.03	1.58	183.361	
400.00	399.84	372.41	372.13	1.21	1.06	-109.92	226.27	-187.36	296.76	294.50	2.27	130.822	
500.00	499.45	463.93	463.13	1.58	1.40	-109.90	235.98	-187.13	307.62	304.64	2.98	103.342	
600.00	598.70	553.59	551.94	1.97	1.76	-110.07	248.30	-187.48	322.45	318.75	3.70	87.115	
700.00	697.47	641.55	638.54	2.38	2.13	-110.26	263.68	-188.04	341.43	336.99	4.45	76.782	
800.00	795.62	728.15	723.18	2.83	2.53	-110.47	281.94	-189.03	364.65	359.43	5.22	69.864	
900.00	893.06	813.11	805.51	3.31	2.95	-110.68	302.85	-190.32	391.93	385.90	6.02	65.072	
1,000.00	989.64	898.59	887.48	3.83	3.41	-110.83	327.04	-191.79	423.21	416.34	6.87	61.561	
1,100.00	1,085.27	991.32	976.06	4.40	3.93	-111.23	354.41	-193.74	456.91	449.09	7.82	58.444	
1,200.00	1,179.82	1,084.26	1,064.91	5.02	4.46	-111.88	381.60	-195.60	491.74	482.92	8.82	55.737	
1,300.00	1,273.17	1,170.42	1,146.93	5.70	4.97	-112.48	407.92	-197.39	528.96	519.13	9.83	53.827	
1,400.00	1,365.21	1,262.16	1,234.18	6.43	5.52	-113.29	436.19	-199.52	568.06	557.13	10.93	51.987	
1,500.00	1,455.84	1,352.22	1,319.88	7.23	6.06	-114.18	463.80	-201.56	608.71	596.65	12.06	50.465	
1,600.00	1,544.94	1,437.50	1,400.83	8.09	6.58	-114.97	490.56	-203.33	651.41	638.20	13.21	49.324	
1,700.00	1,632.39	1,522.61	1,481.32	9.01	7.11	-115.71	518.18	-204.84	696.32	681.91	14.40	48.347	
1,800.00	1,718.11	1,603.43	1,557.52	10.00	7.63	-116.35	545.07	-206.28	743.53	727.92	15.60	47.647	
1,900.00	1,801.97	1,684.73	1,634.08	11.07	8.15	-117.01	572.37	-208.13	793.14	776.29	16.85	47.071	
2,000.00	1,883.88	1,765.43	1,710.14	12.20	8.67	-117.69	599.25	-210.39	844.95	826.83	18.12	46.633	
2,100.00	1,963.74	1,844.64	1,784.94	13.41	9.18	-118.37	625.16	-213.06	898.95	879.55	19.40	46.346	
2,200.00	2,041.45	1,923.39	1,859.47	14.69	9.68	-119.06	650.40	-216.11	955.14	934.45	20.69	46.171	
2,300.00	2,116.92	2,003.38	1,935.50	16.05	10.17	-119.81	675.02	-219.54	1,013.29	991.29	22.00	46.055	SF
2,357.48	2,159.25	2,043.44	1,973.67	16.86	10.42	-120.10	687.04	-221.42	1,047.73	1,025.04	22.69	46.173	
2,400.00	2,190.27	2,073.35	2,002.20	17.47	10.60	-120.86	695.92	-222.91	1,073.60	1,050.40	23.20	46.269	
2,500.00	2,263.22	2,158.14	2,083.17	18.92	11.11	-122.89	720.71	-227.02	1,134.78	1,110.23	24.55	46.225	
2,600.00	2,336.18	2,247.12	2,168.37	20.37	11.63	-124.81	746.17	-230.39	1,195.72	1,169.80	25.92	46.130	
2,700.00	2,409.14	2,331.70	2,249.54	21.84	12.13	-126.46	769.80	-232.84	1,256.47	1,229.25	27.22	46.152	
2,800.00	2,482.09	2,419.22	2,333.73	23.31	12.63	-128.04	793.59	-234.94	1,317.21	1,288.67	28.54	46.157	
2,900.00	2,555.05	2,501.69	2,413.26	24.78	13.09	-129.42	815.41	-236.32	1,377.70	1,347.92	29.78	46.266	
3,000.00	2,628.01	2,577.49	2,486.34	26.27	13.52	-130.58	835.47	-237.51	1,438.56	1,407.62	30.93	46.504	
3,100.00	2,700.96	2,655.04	2,561.13	27.75	13.95	-131.67	855.95	-238.68	1,499.72	1,467.63	32.10	46.724	
3,200.00	2,773.92	2,730.21	2,633.71	29.24	14.37	-132.68	875.49	-239.87	1,561.20	1,527.98	33.22	46.998	
3,300.00	2,846.88	2,846.21	2,745.75	30.73	15.01	-134.08	905.49	-240.42	1,622.17	1,587.40	34.77	46.652	
3,400.00	2,919.83	2,914.22	2,811.42	32.23	15.39	-134.82	923.20	-240.08	1,682.67	1,646.86	35.81	46.988	
3,500.00	2,992.79	2,981.56	2,876.45	33.72	15.76	-135.52	940.66	-240.00	1,743.67	1,706.84	36.83	47.347	
3,600.00	3,065.75	3,054.42	2,946.85	35.22	16.17	-136.25	959.43	-240.34	1,805.29	1,767.39	37.90	47.636	
3,700.00	3,138.71	3,132.99	3,022.48	36.72	16.61	-136.93	980.75	-240.31	1,866.95	1,827.90	39.05	47.815	
3,800.00	3,211.66	3,196.95	3,083.72	38.22	16.99	-137.42	999.19	-240.29	1,929.07	1,889.02	40.04	48.174	
3,900.00	3,284.62	3,304.06	3,186.01	39.72	17.63	-138.14	1,030.95	-239.77	1,991.12	1,949.54	41.57	47.894	
4,000.00	3,357.58	3,371.14	3,250.11	41.22	18.03	-138.56	1,050.70	-239.03	2,052.74	2,010.12	42.62	48.168	
4,100.00	3,430.53	3,472.38	3,346.73	42.73	18.64	-139.15	1,080.90	-237.77	2,114.44	2,070.37	44.08	47.970	
4,200.00	3,503.49	3,559.61	3,429.90	44.23	19.16	-139.61	1,107.12	-235.64	2,175.28	2,129.91	45.37	47.942	
4,300.00	3,576.45	3,611.63	3,479.63	45.74	19.48	-139.88	1,122.35	-234.56	2,236.44	2,190.21	46.23	48.379	
4,400.00	3,649.40	3,650.26	3,516.54	47.25	19.71	-140.08	1,133.75	-234.42	2,298.94	2,252.03	46.90	49.017	
4,500.00	3,722.36	3,700.40	3,564.42	48.75	20.00	-140.34	1,148.61	-235.08	2,362.72	2,315.02	47.70	49.531	
4,600.00	3,795.32	3,780.53	3,641.32	50.26	20.48	-140.76	1,171.08	-236.50	2,426.77	2,377.91	48.86	49.668	
4,700.00	3,868.27	3,856.09	3,714.08	51.77	20.90	-141.17	1,191.42	-237.92	2,490.84	2,440.91	49.93	49.885	
4,800.00	3,941.23	3,955.28	3,809.54	53.28	21.47	-141.67	1,218.33	-239.32	2,554.66	2,503.36	51.30	49.799	
4,900.00	4,014.19	4,031.83	3,883.11	54.79	21.91	-142.02	1,239.46	-239.94	2,618.14	2,565.74	52.40	49.967	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,087.15	4,138.35	3,985.69	56.30	22.52	-142.51	1,268.13	-240.44	2,681.38	2,627.54	53.84	49.799	
5,100.00	4,160.10	4,223.27	4,067.50	57.81	23.00	-142.87	1,290.91	-240.10	2,743.97	2,688.94	55.03	49.861	
5,200.00	4,233.06	4,306.80	4,147.65	59.32	23.48	-143.18	1,314.41	-239.44	2,806.45	2,750.23	56.22	49.915	
5,300.00	4,306.02	4,371.04	4,209.32	60.83	23.85	-143.41	1,332.43	-238.92	2,868.97	2,811.79	57.18	50.176	
5,400.00	4,378.97	4,428.00	4,264.01	62.34	24.18	-143.61	1,348.34	-238.92	2,932.10	2,874.07	58.04	50.523	
5,500.00	4,451.93	4,472.39	4,306.66	63.85	24.44	-143.76	1,360.63	-239.33	2,995.94	2,937.22	58.72	51.018	
5,600.00	4,524.89	4,522.00	4,354.39	65.36	24.73	-143.94	1,374.12	-240.30	3,060.56	3,001.09	59.47	51.467	
5,700.00	4,597.84	4,691.14	4,516.75	66.88	25.71	-144.47	1,421.48	-241.35	3,124.23	3,062.49	61.74	50.606	
5,800.00	4,670.80	4,768.92	4,591.08	68.39	26.17	-144.66	1,444.37	-240.49	3,186.80	3,123.92	62.88	50.680	
5,900.00	4,743.76	4,843.50	4,662.36	69.90	26.62	-144.85	1,466.29	-239.82	3,249.55	3,185.58	63.98	50.792	
6,000.00	4,816.71	4,917.64	4,733.60	71.41	27.04	-145.05	1,486.80	-239.29	3,312.32	3,247.28	65.04	50.925	
6,100.00	4,889.67	4,979.83	4,793.58	72.93	27.39	-145.24	1,503.26	-239.13	3,375.37	3,309.44	65.94	51.191	
6,200.00	4,962.63	5,036.71	4,848.56	74.44	27.71	-145.42	1,517.82	-239.32	3,438.84	3,372.09	66.75	51.520	
6,300.00	5,035.59	5,093.17	4,903.25	75.95	28.01	-145.60	1,531.81	-239.89	3,502.79	3,435.25	67.54	51.863	
6,400.00	5,108.54	5,154.55	4,962.78	77.47	28.34	-145.79	1,546.74	-240.83	3,567.14	3,498.76	68.38	52.167	
6,500.00	5,181.50	5,223.93	5,030.19	78.98	28.70	-146.02	1,563.08	-242.17	3,631.78	3,562.49	69.29	52.410	
6,600.00	5,254.46	5,305.16	5,109.61	80.49	29.10	-146.32	1,580.04	-243.94	3,696.48	3,626.18	70.30	52.583	
6,700.00	5,327.41	5,396.40	5,199.39	82.01	29.51	-146.71	1,596.20	-245.82	3,760.95	3,689.61	71.34	52.721	
6,800.00	5,400.37	5,480.10	5,282.17	83.52	29.85	-147.10	1,608.43	-247.45	3,825.22	3,752.99	72.23	52.959	
6,900.00	5,473.33	5,555.01	5,356.54	85.04	30.14	-147.47	1,617.26	-248.98	3,889.52	3,816.53	72.99	53.291	
7,000.00	5,546.28	5,629.29	5,430.44	86.55	30.39	-147.86	1,624.54	-250.58	3,953.91	3,880.21	73.69	53.653	
7,100.00	5,619.24	5,692.90	5,493.82	88.06	30.60	-148.21	1,629.72	-252.07	4,018.47	3,944.19	74.28	54.097	
7,200.00	5,692.20	5,773.34	5,574.11	89.58	30.84	-148.66	1,634.27	-254.23	4,083.34	4,008.38	74.96	54.477	
7,300.00	5,765.15	5,946.03	5,746.70	91.09	31.29	-149.68	1,639.28	-256.45	4,147.16	4,071.01	76.15	54.459	
7,400.00	5,838.11	6,013.19	5,813.85	92.61	31.46	-150.06	1,640.55	-256.62	4,210.40	4,133.73	76.67	54.917	
7,500.00	5,911.07	6,067.61	5,868.26	94.12	31.59	-150.37	1,641.31	-256.91	4,274.00	4,196.90	77.10	55.437	
7,600.00	5,984.03	6,122.73	5,923.38	95.64	31.72	-150.69	1,641.42	-257.48	4,338.08	4,260.56	77.51	55.965	
7,700.00	6,056.98	6,191.04	5,991.68	97.15	31.88	-151.08	1,641.51	-258.34	4,402.46	4,324.46	78.00	56.441	
7,800.00	6,129.94	6,277.75	6,078.39	98.67	32.08	-151.56	1,641.95	-259.35	4,466.94	4,388.33	78.60	56.828	
7,900.00	6,202.90	6,344.11	6,144.74	100.18	32.24	-151.91	1,642.35	-259.99	4,531.40	4,452.31	79.09	57.292	
8,000.00	6,275.85	6,409.09	6,209.71	101.70	32.40	-152.24	1,642.85	-260.80	4,596.19	4,516.62	79.58	57.759	
8,100.00	6,348.81	6,501.63	6,302.24	103.21	32.62	-152.70	1,643.77	-261.74	4,660.93	4,580.69	80.23	58.094	
8,200.00	6,421.77	6,572.17	6,372.78	104.73	32.79	-153.05	1,644.14	-262.33	4,725.67	4,644.92	80.75	58.524	
8,300.00	6,494.72	6,690.82	6,491.43	106.24	33.08	-153.62	1,644.39	-262.77	4,790.17	4,708.63	81.55	58.742	
8,400.00	6,567.68	6,770.77	6,571.38	107.76	33.28	-153.99	1,645.08	-262.65	4,854.41	4,772.28	82.13	59.106	
8,500.00	6,640.64	6,822.40	6,622.99	109.27	33.42	-154.21	1,645.80	-262.66	4,918.86	4,836.31	82.55	59.585	
8,600.00	6,713.59	6,877.46	6,678.05	110.79	33.56	-154.44	1,646.77	-262.90	4,983.71	4,900.72	83.00	60.047	
8,700.00	6,786.55	6,940.11	6,740.69	112.30	33.73	-154.70	1,648.00	-263.35	5,048.85	4,965.35	83.50	60.468	
8,800.00	6,859.51	7,032.95	6,833.50	113.82	33.99	-155.07	1,650.05	-263.98	5,114.05	5,029.85	84.20	60.735	
8,900.00	6,932.46	7,108.12	6,908.65	115.33	34.19	-155.37	1,651.76	-264.26	5,179.10	5,094.30	84.79	61.079	
9,000.00	7,005.42	7,177.14	6,977.66	116.85	34.38	-155.63	1,653.09	-264.54	5,244.26	5,158.92	85.34	61.452	
9,104.89	7,081.95	7,252.85	7,053.36	118.44	34.59	-155.92	1,654.51	-264.93	5,312.76	5,226.83	85.94	61.823	
9,150.00	7,115.15	7,294.56	7,095.06	119.12	34.71	-164.71	1,655.50	-265.10	5,342.38	5,256.12	86.26	61.935	
9,200.00	7,152.46	7,397.40	7,197.83	119.86	35.01	-174.73	1,659.00	-265.02	5,375.33	5,288.32	87.02	61.774	
9,250.00	7,190.04	7,457.56	7,257.94	120.57	35.18	175.34	1,661.32	-264.34	5,407.78	5,320.31	87.46	61.829	
9,300.00	7,227.59	7,496.83	7,297.20	121.25	35.29	165.55	1,661.84	-263.81	5,439.96	5,352.22	87.74	62.001	
9,350.00	7,264.83	7,527.43	7,327.80	121.89	35.36	156.08	1,661.63	-263.37	5,471.68	5,383.74	87.94	62.221	
9,400.00	7,301.48	7,550.27	7,350.63	122.48	35.42	147.11	1,661.28	-263.09	5,502.78	5,414.70	88.07	62.479	
9,450.00	7,337.26	7,572.62	7,372.98	123.01	35.47	138.76	1,660.79	-262.86	5,533.06	5,444.86	88.20	62.735	
9,500.00	7,371.90	7,594.36	7,394.71	123.49	35.52	131.14	1,660.19	-262.69	5,562.32	5,474.01	88.31	62.985	
9,550.00	7,405.13	7,709.70	7,509.97	123.91	35.77	124.97	1,656.50	-261.21	5,590.21	5,501.28	88.93	62.862	
9,600.00	7,436.70	7,733.97	7,534.23	124.27	35.83	118.95	1,655.80	-260.71	5,616.30	5,527.24	89.06	63.061	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,650.00	7,466.36	7,756.79	7,557.04	124.57	35.88	113.64	1,655.17	-260.28	5,640.85	5,551.65	89.19	63.244	
9,700.00	7,493.91	7,777.99	7,578.22	124.81	35.92	109.01	1,654.61	-259.91	5,663.71	5,574.38	89.33	63.405	
9,750.00	7,519.11	7,797.80	7,598.03	125.00	35.97	105.01	1,654.10	-259.59	5,684.76	5,595.30	89.47	63.540	
9,800.00	7,541.79	7,831.96	7,632.18	125.12	36.05	101.74	1,653.21	-259.03	5,703.85	5,614.14	89.71	63.583	
9,850.00	7,561.77	8,177.45	7,976.90	125.20	36.80	101.95	1,638.21	-243.69	5,720.66	5,629.17	91.49	62.528	
9,900.00	7,578.90	9,900.00	7,972.74	125.23	40.37	99.44	1,638.48	-244.00	5,734.50	5,639.30	95.19	60.240	
9,950.00	7,593.04	8,171.00	7,970.48	125.22	36.78	97.41	1,638.61	-244.16	5,746.35	5,654.63	91.72	62.649	
10,000.00	7,604.09	8,171.00	7,970.48	125.17	36.78	95.83	1,638.61	-244.16	5,756.15	5,664.26	91.90	62.638	
10,050.00	7,611.97	8,171.00	7,970.48	125.08	36.78	94.67	1,638.61	-244.16	5,763.83	5,671.73	92.10	62.581	
10,100.00	7,616.61	8,171.00	7,970.48	124.97	36.78	93.92	1,638.61	-244.16	5,769.33	5,676.99	92.34	62.478	
10,145.95	7,618.00	8,171.00	7,970.48	124.84	36.78	93.58	1,638.61	-244.16	5,772.44	5,679.85	92.59	62.342	
10,200.00	7,618.00	8,171.00	7,970.48	124.69	36.78	93.58	1,638.61	-244.16	5,775.25	5,682.34	92.91	62.161	
10,300.00	7,618.00	8,171.00	7,970.48	124.41	36.78	93.58	1,638.61	-244.16	5,781.77	5,688.27	93.51	61.832	
10,400.00	7,618.00	8,171.00	7,970.48	124.14	36.78	93.58	1,638.61	-244.16	5,790.02	5,695.89	94.12	61.515	
10,500.00	7,618.00	8,171.00	7,970.48	123.88	36.78	93.58	1,638.61	-244.16	5,799.97	5,705.22	94.75	61.211	
10,600.00	7,618.00	8,171.00	7,970.48	123.63	36.78	93.58	1,638.61	-244.16	5,811.63	5,716.24	95.40	60.921	
10,700.00	7,618.00	8,171.00	7,970.48	123.40	36.78	93.58	1,638.61	-244.16	5,824.99	5,728.94	96.05	60.645	
10,800.00	7,618.00	8,171.00	7,970.48	123.18	36.78	93.58	1,638.61	-244.16	5,840.02	5,743.31	96.71	60.386	
10,900.00	7,618.00	8,171.00	7,970.48	122.96	36.78	93.58	1,638.61	-244.16	5,856.73	5,759.35	97.38	60.142	
11,000.00	7,618.00	8,171.00	7,970.48	122.76	36.78	93.58	1,638.61	-244.16	5,875.09	5,777.03	98.06	59.916	
11,100.00	7,618.00	8,171.00	7,970.48	122.57	36.78	93.58	1,638.61	-244.16	5,895.09	5,796.35	98.73	59.707	
11,200.00	7,618.00	8,171.00	7,970.48	122.39	36.78	93.58	1,638.61	-244.16	5,916.71	5,817.30	99.41	59.516	
11,300.00	7,618.00	8,205.13	8,004.49	122.23	36.86	93.92	1,636.79	-241.94	5,939.50	5,839.25	100.25	59.244	
11,400.00	7,618.00	8,206.12	8,005.48	122.07	36.86	93.93	1,636.75	-241.88	5,964.29	5,863.35	100.94	59.089	
11,500.00	7,618.00	8,207.09	8,006.44	121.93	36.86	93.94	1,636.70	-241.82	5,990.64	5,889.02	101.62	58.953	
11,600.00	7,618.00	8,208.04	8,007.39	121.79	36.87	93.95	1,636.66	-241.77	6,018.53	5,916.24	102.29	58.835	
11,700.00	7,618.00	8,208.96	8,008.31	121.67	36.87	93.96	1,636.62	-241.72	6,047.95	5,944.99	102.97	58.737	
11,800.00	7,618.00	8,209.87	8,009.22	121.56	36.87	93.97	1,636.58	-241.67	6,078.88	5,975.24	103.63	58.659	
11,900.00	7,618.00	8,210.76	8,010.10	121.46	36.87	93.98	1,636.55	-241.62	6,111.28	6,006.99	104.29	58.599	
12,000.00	7,618.00	8,211.63	8,010.97	121.38	36.88	93.99	1,636.51	-241.57	6,145.14	6,040.20	104.94	58.559	
12,100.00	7,618.00	8,212.48	8,011.82	121.30	36.88	94.00	1,636.48	-241.53	6,180.43	6,074.84	105.58	58.537	
12,200.00	7,618.00	8,213.31	8,012.65	121.24	36.88	94.00	1,636.44	-241.48	6,217.12	6,110.91	106.21	58.534	
12,300.00	7,618.00	8,214.12	8,013.46	121.19	36.88	94.01	1,636.41	-241.44	6,255.20	6,148.37	106.84	58.550	
12,400.00	7,618.00	8,214.92	8,014.26	121.16	36.88	94.02	1,636.38	-241.40	6,294.64	6,187.20	107.45	58.583	
12,500.00	7,618.00	8,215.71	8,015.04	121.14	36.88	94.03	1,636.35	-241.36	6,335.42	6,227.37	108.05	58.635	
12,600.00	7,618.00	8,216.48	8,015.81	121.13	36.89	94.04	1,636.32	-241.32	6,377.49	6,268.86	108.64	58.705	
12,700.00	7,618.00	8,217.23	8,016.56	121.13	36.89	94.04	1,636.29	-241.28	6,420.85	6,311.64	109.21	58.792	
12,800.00	7,618.00	8,217.97	8,017.29	121.15	36.89	94.05	1,636.26	-241.24	6,465.47	6,355.69	109.78	58.896	
12,900.00	7,618.00	8,218.69	8,018.02	121.18	36.89	94.06	1,636.23	-241.20	6,511.31	6,400.98	110.33	59.016	
13,000.00	7,618.00	8,219.40	8,018.73	121.23	36.89	94.06	1,636.20	-241.17	6,558.36	6,447.49	110.87	59.153	
13,100.00	7,618.00	8,220.10	8,019.42	121.29	36.89	94.07	1,636.18	-241.13	6,606.59	6,495.19	111.40	59.306	
13,200.00	7,618.00	8,220.78	8,020.10	121.37	36.90	94.08	1,636.15	-241.10	6,655.97	6,544.06	111.91	59.475	
13,300.00	7,618.00	8,221.45	8,020.77	121.46	36.90	94.09	1,636.13	-241.06	6,706.48	6,594.06	112.41	59.658	
13,400.00	7,618.00	8,222.11	8,021.43	121.57	36.90	94.09	1,636.10	-241.03	6,758.09	6,645.18	112.90	59.857	
13,500.00	7,618.00	8,222.76	8,022.08	121.70	36.90	94.10	1,636.08	-241.00	6,810.77	6,697.39	113.38	60.070	
13,600.00	7,618.00	8,223.40	8,022.71	121.84	36.90	94.10	1,636.06	-240.97	6,864.51	6,750.67	113.84	60.297	
13,700.00	7,618.00	8,224.02	8,023.33	122.01	36.90	94.11	1,636.04	-240.94	6,919.28	6,804.98	114.30	60.538	
13,800.00	7,618.00	8,224.63	8,023.95	122.19	36.90	94.12	1,636.02	-240.91	6,975.05	6,860.31	114.74	60.793	
13,900.00	7,618.00	8,225.23	8,024.55	122.39	36.91	94.12	1,635.99	-240.88	7,031.80	6,916.63	115.16	61.060	
14,000.00	7,618.00	8,225.83	8,025.14	122.62	36.91	94.13	1,635.97	-240.85	7,089.50	6,973.93	115.58	61.340	
14,100.00	7,618.00	8,226.41	8,025.72	122.86	36.91	94.13	1,635.95	-240.82	7,148.14	7,032.16	115.98	61.632	
14,200.00	7,618.00	8,264.00	8,063.27	123.12	36.99	94.51	1,635.04	-239.38	7,208.25	7,091.73	116.52	61.863	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
14,300.00	7,618.00	8,264.00	8,063.27	123.41	36.99	94.51	1,635.04	-239.38	7,268.67	7,151.77	116.90	62.180	
14,400.00	7,618.00	8,264.00	8,063.27	123.72	36.99	94.51	1,635.04	-239.38	7,329.95	7,212.69	117.26	62.509	
14,500.00	7,618.00	8,264.00	8,063.27	124.06	36.99	94.51	1,635.04	-239.38	7,392.08	7,274.47	117.62	62.848	
14,600.00	7,618.00	8,264.00	8,063.27	124.42	36.99	94.51	1,635.04	-239.38	7,455.04	7,337.08	117.96	63.199	
14,700.00	7,618.00	8,264.00	8,063.27	124.80	36.99	94.51	1,635.04	-239.38	7,518.79	7,400.50	118.30	63.559	
14,800.00	7,618.00	8,264.00	8,063.27	125.21	36.99	94.51	1,635.04	-239.38	7,583.33	7,464.71	118.62	63.930	
14,900.00	7,618.00	8,264.00	8,063.27	125.65	36.99	94.51	1,635.04	-239.38	7,648.64	7,529.70	118.93	64.310	
15,000.00	7,618.00	8,264.00	8,063.27	126.11	36.99	94.51	1,635.04	-239.38	7,714.68	7,595.44	119.24	64.700	
15,100.00	7,618.00	8,264.00	8,063.27	126.61	36.99	94.51	1,635.04	-239.38	7,781.45	7,661.92	119.53	65.098	
15,200.00	7,618.00	8,264.00	8,063.27	127.13	36.99	94.51	1,635.04	-239.38	7,848.93	7,729.11	119.82	65.506	
15,300.00	7,618.00	8,264.00	8,063.27	127.68	36.99	94.51	1,635.04	-239.38	7,917.09	7,797.00	120.10	65.922	
15,400.00	7,618.00	8,264.00	8,063.27	128.26	36.99	94.51	1,635.04	-239.38	7,985.93	7,865.56	120.37	66.347	
15,500.00	7,618.00	8,264.00	8,063.27	128.87	36.99	94.51	1,635.04	-239.38	8,055.42	7,934.79	120.63	66.780	
15,600.00	7,618.00	8,264.00	8,063.27	129.51	36.99	94.51	1,635.04	-239.38	8,125.54	8,004.66	120.88	67.221	
15,700.00	7,618.00	8,264.00	8,063.27	130.18	36.99	94.51	1,635.04	-239.38	8,196.29	8,075.16	121.12	67.669	
15,800.00	7,618.00	8,264.00	8,063.27	130.88	36.99	94.51	1,635.04	-239.38	8,267.63	8,146.28	121.36	68.125	
15,900.00	7,618.00	8,264.00	8,063.27	131.61	36.99	94.51	1,635.04	-239.38	8,339.57	8,217.98	121.59	68.588	
16,000.00	7,618.00	8,264.00	8,063.27	132.37	36.99	94.51	1,635.04	-239.38	8,412.08	8,290.27	121.81	69.058	
16,100.00	7,618.00	8,264.00	8,063.27	133.17	36.99	94.51	1,635.04	-239.38	8,485.15	8,363.13	122.03	69.535	
16,200.00	7,618.00	8,264.00	8,063.27	133.99	36.99	94.51	1,635.04	-239.38	8,558.77	8,436.53	122.24	70.018	
16,300.00	7,618.00	8,264.00	8,063.27	134.84	36.99	94.51	1,635.04	-239.38	8,632.91	8,510.47	122.44	70.508	
16,400.00	7,618.00	8,264.00	8,063.27	135.72	36.99	94.51	1,635.04	-239.38	8,707.58	8,584.94	122.64	71.004	
16,500.00	7,618.00	8,264.00	8,063.27	136.63	36.99	94.51	1,635.04	-239.38	8,782.74	8,659.92	122.83	71.506	
16,600.00	7,618.00	8,264.00	8,063.27	137.57	36.99	94.51	1,635.04	-239.38	8,858.40	8,735.39	123.01	72.013	
16,700.00	7,618.00	8,264.00	8,063.27	138.54	36.99	94.51	1,635.04	-239.38	8,934.54	8,811.35	123.19	72.527	
16,800.00	7,618.00	8,264.00	8,063.27	139.53	36.99	94.51	1,635.04	-239.38	9,011.14	8,887.78	123.36	73.046	
16,900.00	7,618.00	8,264.00	8,063.27	140.55	36.99	94.51	1,635.04	-239.38	9,088.20	8,964.66	123.53	73.570	
17,000.00	7,618.00	8,264.00	8,063.27	141.60	36.99	94.51	1,635.04	-239.38	9,165.70	9,042.00	123.69	74.099	
17,100.00	7,618.00	8,264.00	8,063.27	142.67	36.99	94.51	1,635.04	-239.38	9,243.63	9,119.78	123.85	74.634	
17,200.00	7,618.00	8,264.00	8,063.27	143.77	36.99	94.51	1,635.04	-239.38	9,321.98	9,197.97	124.01	75.173	
17,300.00	7,618.00	8,264.00	8,063.27	144.88	36.99	94.51	1,635.04	-239.38	9,400.75	9,276.59	124.16	75.717	
17,400.00	7,618.00	8,264.00	8,063.27	146.02	36.99	94.51	1,635.04	-239.38	9,479.91	9,355.61	124.30	76.266	
17,500.00	7,618.00	8,264.00	8,063.27	147.19	36.99	94.51	1,635.04	-239.38	9,559.47	9,435.02	124.44	76.819	
17,600.00	7,618.00	8,264.00	8,063.27	148.37	36.99	94.51	1,635.04	-239.38	9,639.40	9,514.82	124.58	77.376	
17,700.00	7,618.00	8,264.00	8,063.27	149.57	36.99	94.51	1,635.04	-239.38	9,719.71	9,595.00	124.71	77.938	
17,800.00	7,618.00	8,264.00	8,063.27	150.79	36.99	94.51	1,635.04	-239.38	9,800.38	9,675.54	124.84	78.503	
17,900.00	7,618.00	8,264.00	8,063.27	152.03	36.99	94.51	1,635.04	-239.38	9,881.40	9,756.44	124.97	79.073	
18,000.00	7,618.00	8,264.00	8,063.27	153.29	36.99	94.51	1,635.04	-239.38	9,962.77	9,837.68	125.09	79.646	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-35.31	218.57	-154.84	267.98				
100.00	100.00	91.30	91.30	0.13	0.14	-35.35	218.57	-155.04	267.98	267.70	0.28	962.538	
200.00	200.00	191.89	191.89	0.49	0.47	-35.46	218.42	-155.59	268.17	267.21	0.97	277.856	
300.00	299.98	294.75	294.74	0.85	0.84	-105.37	217.47	-156.17	268.21	266.52	1.69	159.100	
400.00	399.84	403.88	403.79	1.21	1.23	-107.12	213.44	-156.36	266.81	264.37	2.43	109.606	
500.00	499.45	510.06	509.65	1.58	1.62	-110.25	205.31	-156.80	263.90	260.71	3.19	82.765	
600.00	598.70	616.93	615.77	1.97	2.04	-114.91	192.79	-157.53	260.40	256.43	3.97	65.572	
700.00	697.47	724.73	722.19	2.38	2.49	-120.96	175.70	-156.74	256.45	251.66	4.79	53.529	
800.00	795.62	826.71	821.90	2.83	2.96	-128.28	154.35	-155.42	253.88	248.24	5.64	45.007	
813.13	808.46	839.78	834.61	2.89	3.02	-129.31	151.34	-155.22	253.83	248.08	5.76	44.103	CC, ES
900.00	893.06	921.25	913.62	3.31	3.43	-136.11	131.46	-154.29	256.53	250.00	6.53	39.299	
1,000.00	989.64	1,012.18	1,001.31	3.83	3.91	-144.11	107.42	-153.92	267.34	259.91	7.43	35.987	
1,100.00	1,085.27	1,101.29	1,087.02	4.40	4.39	-151.71	83.04	-153.83	287.13	278.81	8.32	34.500	
1,200.00	1,179.82	1,188.14	1,170.18	5.02	4.89	-158.65	58.00	-153.94	315.59	306.41	9.19	34.356	SF
1,300.00	1,273.17	1,274.87	1,253.05	5.70	5.40	-164.80	32.42	-154.11	351.90	341.87	10.03	35.091	
1,400.00	1,365.21	1,362.79	1,336.95	6.43	5.92	-170.20	6.17	-153.32	394.05	383.18	10.87	36.245	
1,500.00	1,455.84	1,445.30	1,415.38	7.23	6.42	-174.66	-19.42	-152.00	441.62	429.94	11.68	37.814	
1,600.00	1,544.94	1,526.67	1,492.73	8.09	6.93	-178.42	-44.67	-150.59	494.10	481.62	12.49	39.565	
1,700.00	1,632.39	1,603.99	1,566.17	9.01	7.41	178.50	-68.78	-149.20	550.90	537.62	13.28	41.492	
1,800.00	1,718.11	1,685.36	1,643.40	10.00	7.92	175.68	-94.35	-147.51	611.36	597.24	14.12	43.295	
1,900.00	1,801.97	1,765.84	1,720.05	11.07	8.41	173.34	-118.81	-145.39	674.49	659.52	14.97	45.042	
2,000.00	1,883.88	1,843.17	1,793.82	12.20	8.89	171.39	-141.88	-143.02	740.22	724.40	15.82	46.796	
2,100.00	1,963.74	1,920.03	1,867.15	13.41	9.36	169.66	-164.75	-140.32	808.48	791.80	16.68	48.484	
2,200.00	2,041.45	2,003.70	1,947.35	14.69	9.86	168.11	-188.36	-136.97	878.54	860.92	17.62	49.874	
2,300.00	2,116.92	2,074.99	2,015.97	16.05	10.28	166.94	-207.44	-134.06	950.53	932.09	18.44	51.557	
2,357.48	2,159.25	2,111.42	2,051.11	16.86	10.49	166.36	-216.96	-132.64	992.93	974.06	18.87	52.616	
2,400.00	2,190.27	2,136.74	2,075.53	17.47	10.63	166.18	-223.58	-131.75	1,024.67	1,005.49	19.17	53.439	
2,500.00	2,263.22	2,197.42	2,134.07	18.92	10.98	165.80	-239.46	-129.92	1,099.63	1,079.74	19.90	55.268	
2,600.00	2,336.18	2,262.60	2,197.06	20.37	11.35	165.48	-256.11	-128.37	1,174.76	1,154.10	20.67	56.844	
2,700.00	2,409.14	2,315.84	2,248.59	21.84	11.65	165.28	-269.48	-127.53	1,250.21	1,228.90	21.31	58.661	
2,800.00	2,482.09	2,367.00	2,298.06	23.31	11.94	165.12	-282.53	-127.31	1,326.42	1,304.49	21.94	60.466	
2,900.00	2,555.05	2,415.01	2,344.47	24.78	12.21	164.99	-294.84	-127.68	1,403.35	1,380.83	22.52	62.309	
3,000.00	2,628.01	2,464.11	2,391.93	26.27	12.48	164.89	-307.35	-128.70	1,480.94	1,457.82	23.12	64.059	
3,100.00	2,700.96	2,523.16	2,449.08	27.75	12.81	164.82	-322.11	-130.50	1,558.90	1,535.08	23.81	65.459	
3,200.00	2,773.92	2,601.00	2,524.50	29.24	13.24	164.76	-341.19	-133.00	1,636.82	1,612.10	24.72	66.212	
3,300.00	2,846.88	2,689.31	2,609.89	30.73	13.74	164.60	-363.67	-133.69	1,713.68	1,687.92	25.76	66.520	
3,400.00	2,919.83	2,759.25	2,677.38	32.23	14.14	164.44	-382.03	-133.15	1,789.99	1,763.37	26.62	67.241	
3,500.00	2,992.79	2,812.38	2,728.47	33.72	14.45	164.29	-396.60	-132.53	1,866.50	1,839.20	27.30	68.362	
3,600.00	3,065.75	2,911.51	2,823.56	35.22	15.04	163.99	-424.56	-130.54	1,942.96	1,914.43	28.53	68.097	
3,700.00	3,138.71	2,978.61	2,887.97	36.72	15.44	163.79	-443.19	-128.22	2,018.36	1,988.96	29.40	68.657	
3,800.00	3,211.66	3,035.37	2,942.43	38.22	15.78	163.64	-459.10	-126.39	2,093.99	2,063.84	30.15	69.459	
3,900.00	3,284.62	3,088.63	2,993.41	39.72	16.11	163.49	-474.44	-124.72	2,169.96	2,139.10	30.86	70.312	
4,000.00	3,357.58	3,136.40	3,039.00	41.22	16.40	163.35	-488.59	-123.29	2,246.32	2,214.81	31.51	71.282	
4,100.00	3,430.53	3,178.87	3,079.53	42.73	16.67	163.23	-501.25	-122.42	2,323.26	2,291.16	32.10	72.379	
4,200.00	3,503.49	3,234.35	3,132.50	44.23	17.01	163.10	-517.77	-121.87	2,400.74	2,367.90	32.84	73.104	
4,300.00	3,576.45	3,325.57	3,219.88	45.74	17.56	162.94	-543.91	-120.99	2,477.86	2,443.85	34.01	72.856	
4,400.00	3,649.40	3,416.89	3,307.54	47.25	18.11	162.79	-569.43	-119.21	2,554.17	2,518.99	35.18	72.605	
4,500.00	3,722.36	3,484.30	3,372.16	48.75	18.52	162.67	-588.54	-117.33	2,630.19	2,594.13	36.07	72.921	
4,600.00	3,795.32	3,525.00	3,411.09	50.26	18.77	162.59	-600.36	-116.16	2,706.46	2,669.81	36.64	73.862	
4,700.00	3,868.27	3,562.37	3,446.74	51.77	19.00	162.52	-611.51	-115.33	2,783.35	2,746.17	37.17	74.875	
4,800.00	3,941.23	3,598.81	3,481.44	53.28	19.23	162.45	-622.65	-114.76	2,860.85	2,823.16	37.69	75.905	
4,900.00	4,014.19	3,634.34	3,515.26	54.79	19.45	162.39	-633.54	-114.58	2,938.94	2,900.75	38.19	76.954	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,087.15	3,677.00	3,555.88	56.30	19.72	162.32	-646.58	-114.90	3,017.62	2,978.84	38.78	77.813	
5,100.00	4,160.10	3,721.95	3,598.70	57.81	20.00	162.27	-660.23	-115.62	3,096.67	3,057.28	39.39	78.615	
5,200.00	4,233.06	3,783.74	3,657.63	59.32	20.39	162.21	-678.75	-116.82	3,175.81	3,135.59	40.21	78.977	
5,300.00	4,306.02	3,864.23	3,734.51	60.83	20.88	162.14	-702.55	-118.27	3,254.72	3,213.46	41.26	78.874	
5,400.00	4,378.97	3,954.07	3,820.40	62.34	21.43	162.06	-728.87	-119.28	3,333.20	3,290.76	42.44	78.546	
5,500.00	4,451.93	4,095.69	3,956.16	63.85	22.29	161.95	-769.17	-119.18	3,410.83	3,366.59	44.24	77.103	
5,600.00	4,524.89	4,184.40	4,041.73	65.36	22.80	161.92	-792.57	-118.30	3,487.05	3,441.68	45.37	76.866	
5,700.00	4,597.84	4,231.48	4,087.20	66.88	23.07	161.91	-804.78	-118.10	3,563.50	3,517.51	45.99	77.479	
5,800.00	4,670.80	4,266.27	4,120.78	68.39	23.27	161.91	-813.83	-118.18	3,640.34	3,593.87	46.47	78.334	
5,900.00	4,743.76	4,296.98	4,150.39	69.90	23.45	161.90	-821.99	-118.47	3,717.75	3,670.85	46.90	79.270	
6,000.00	4,816.71	4,335.00	4,186.98	71.41	23.67	161.90	-832.31	-119.13	3,795.73	3,748.32	47.41	80.055	
6,100.00	4,889.67	4,383.04	4,233.18	72.93	23.95	161.89	-845.45	-120.19	3,874.05	3,826.00	48.05	80.629	
6,200.00	4,962.63	4,440.78	4,288.74	74.44	24.29	161.89	-861.09	-121.53	3,952.37	3,903.57	48.80	80.994	
6,300.00	5,035.59	4,479.44	4,325.90	75.95	24.52	161.89	-871.70	-122.53	4,030.95	3,981.63	49.32	81.732	
6,400.00	5,108.54	4,522.00	4,366.73	77.47	24.77	161.88	-883.64	-123.76	4,109.89	4,060.00	49.89	82.382	
6,500.00	5,181.50	4,588.57	4,430.49	78.98	25.18	161.86	-902.69	-125.57	4,188.96	4,138.20	50.76	82.522	
6,600.00	5,254.46	4,981.69	4,810.02	80.49	27.42	161.82	-1,004.56	-124.98	4,265.94	4,210.47	55.47	76.901	
6,700.00	5,327.41	5,087.42	4,913.22	82.01	27.97	161.86	-1,027.39	-122.24	4,339.56	4,282.83	56.73	76.498	
6,800.00	5,400.37	5,152.15	4,976.72	83.52	28.28	161.92	-1,039.93	-121.27	4,412.96	4,355.46	57.50	76.745	
6,900.00	5,473.33	6,900.00	5,156.00	85.04	35.07	162.23	-1,066.20	-121.89	4,485.66	4,420.55	65.11	68.897	
7,000.00	5,546.28	5,766.52	5,588.36	86.55	30.27	163.50	-1,084.14	-121.64	4,551.63	4,489.21	62.42	72.914	
7,100.00	5,619.24	5,837.50	5,659.33	88.06	30.42	163.72	-1,083.83	-120.94	4,617.69	4,554.66	63.03	73.265	
7,200.00	5,692.20	5,899.35	5,721.18	89.58	30.55	163.92	-1,083.51	-120.48	4,683.90	4,620.33	63.57	73.678	
7,300.00	5,765.15	5,968.27	5,790.09	91.09	30.70	164.13	-1,083.20	-120.09	4,750.31	4,686.15	64.16	74.041	
7,400.00	5,838.11	6,041.04	5,862.86	92.61	30.85	164.35	-1,082.88	-119.70	4,816.77	4,752.00	64.76	74.374	
7,500.00	5,911.07	6,112.29	5,934.12	94.12	31.01	164.55	-1,082.51	-119.38	4,883.29	4,817.93	65.36	74.712	
7,600.00	5,984.03	6,180.01	6,001.83	95.64	31.15	164.75	-1,082.09	-119.18	4,949.92	4,883.98	65.93	75.073	
7,700.00	6,056.98	6,243.60	6,065.42	97.15	31.28	164.93	-1,081.66	-119.12	5,016.68	4,950.20	66.48	75.460	
7,800.00	6,129.94	6,303.84	6,125.66	98.67	31.41	165.10	-1,081.26	-119.22	5,083.64	5,016.64	67.01	75.867	
7,900.00	6,202.90	6,361.00	6,182.82	100.18	31.54	165.26	-1,080.98	-119.47	5,150.88	5,083.37	67.52	76.292	
8,000.00	6,275.85	6,439.66	6,261.48	101.70	31.71	165.47	-1,080.64	-119.89	5,218.23	5,150.08	68.15	76.567	
8,100.00	6,348.81	6,552.55	6,374.36	103.21	31.96	165.76	-1,079.77	-120.12	5,285.30	5,216.31	68.99	76.607	
8,200.00	6,421.77	6,608.06	6,429.87	104.73	32.08	165.90	-1,079.26	-120.14	5,352.22	5,282.73	69.49	77.018	
8,300.00	6,494.72	6,677.99	6,499.80	106.24	32.24	166.08	-1,078.75	-120.29	5,419.35	5,349.27	70.08	77.331	
8,400.00	6,567.68	6,772.80	6,594.60	107.76	32.45	166.31	-1,077.69	-120.46	5,486.36	5,415.55	70.81	77.475	
8,500.00	6,640.64	6,868.46	6,690.25	109.27	32.66	166.54	-1,076.45	-120.23	5,553.06	5,481.50	71.56	77.601	
8,600.00	6,713.59	6,971.16	6,792.94	110.79	32.90	166.76	-1,075.48	-119.34	5,619.54	5,547.18	72.36	77.660	
8,700.00	6,786.55	7,059.52	6,881.29	112.30	33.11	166.95	-1,074.77	-117.92	5,685.59	5,612.50	73.09	77.792	
8,800.00	6,859.51	7,121.55	6,943.31	113.82	33.26	167.07	-1,074.45	-116.87	5,751.74	5,678.08	73.65	78.093	
8,900.00	6,932.46	7,172.70	6,994.45	115.33	33.39	167.17	-1,074.29	-116.13	5,818.14	5,743.99	74.15	78.464	
9,000.00	7,005.42	7,224.45	7,046.20	116.85	33.52	167.27	-1,074.20	-115.58	5,884.86	5,810.21	74.65	78.832	
9,104.89	7,081.95	7,279.97	7,101.72	118.44	33.66	167.38	-1,074.11	-115.21	5,955.14	5,879.96	75.18	79.211	
9,150.00	7,115.15	7,298.00	7,119.75	119.12	33.70	159.23	-1,074.08	-115.15	5,984.81	5,909.44	75.37	79.404	
9,200.00	7,152.46	7,326.26	7,148.01	119.86	33.77	150.42	-1,074.06	-115.09	6,016.11	5,940.47	75.64	79.534	
9,250.00	7,190.04	7,349.50	7,171.25	120.57	33.84	141.89	-1,074.09	-115.09	6,045.56	5,969.68	75.88	79.669	
9,300.00	7,227.59	7,372.67	7,194.42	121.25	33.90	133.78	-1,074.17	-115.12	6,072.96	5,996.83	76.13	79.776	
9,350.00	7,264.83	7,423.83	7,245.58	121.89	34.03	126.36	-1,074.47	-115.21	6,098.10	6,021.55	76.56	79.652	
9,400.00	7,301.48	7,519.80	7,341.54	122.48	34.30	119.86	-1,075.12	-114.43	6,120.41	6,043.11	77.30	79.175	
9,450.00	7,337.26	7,574.79	7,396.52	123.01	34.45	113.84	-1,075.68	-113.53	6,139.96	6,062.20	77.76	78.957	
9,500.00	7,371.90	7,604.31	7,426.03	123.49	34.53	108.37	-1,076.05	-112.97	6,156.77	6,078.72	78.04	78.891	
9,550.00	7,405.13	7,631.26	7,452.97	123.91	34.61	103.61	-1,076.45	-112.46	6,170.82	6,092.53	78.29	78.820	
9,600.00	7,436.70	7,656.98	7,478.69	124.27	34.69	99.54	-1,076.88	-111.98	6,182.06	6,103.54	78.52	78.734	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,650.00	7,466.36	7,672.00	7,493.70	124.57	34.73	96.05	-1,077.15	-111.70	6,190.44	6,111.79	78.66	78.702	
9,700.00	7,493.91	7,697.31	7,519.00	124.81	34.80	93.26	-1,077.63	-111.27	6,195.93	6,117.08	78.86	78.573	
9,750.00	7,519.11	7,713.77	7,535.46	125.00	34.85	90.99	-1,077.95	-111.02	6,198.55	6,119.57	78.98	78.486	
9,800.00	7,541.79	7,728.64	7,550.33	125.12	34.90	89.24	-1,078.25	-110.82	6,198.27	6,119.20	79.07	78.386	
9,850.00	7,561.77	7,741.82	7,563.50	125.20	34.94	88.00	-1,078.51	-110.66	6,195.14	6,115.99	79.15	78.275	
9,900.00	7,578.90	7,753.21	7,574.89	125.23	34.97	87.23	-1,078.74	-110.53	6,189.18	6,109.98	79.20	78.150	
9,950.00	7,593.04	7,766.00	7,587.68	125.22	35.01	86.94	-1,079.01	-110.41	6,180.45	6,101.19	79.25	77.986	
10,000.00	7,604.09	7,766.00	7,587.68	125.17	35.01	87.00	-1,079.01	-110.41	6,169.01	6,089.80	79.21	77.886	
10,050.00	7,611.97	7,766.00	7,587.68	125.08	35.01	87.51	-1,079.01	-110.41	6,154.96	6,075.80	79.16	77.752	
10,100.00	7,616.61	7,766.00	7,587.68	124.97	35.01	88.47	-1,079.01	-110.41	6,138.39	6,059.27	79.12	77.583	
10,145.95	7,618.00	7,766.00	7,587.68	124.84	35.01	89.77	-1,079.01	-110.41	6,121.03	6,041.94	79.09	77.392	
10,200.00	7,618.00	7,766.00	7,587.68	124.69	35.01	89.77	-1,079.01	-110.41	6,099.65	6,020.58	79.07	77.146	
10,300.00	7,618.00	7,766.00	7,587.68	124.41	35.01	89.77	-1,079.01	-110.41	6,061.16	5,982.11	79.05	76.676	
10,400.00	7,618.00	7,766.00	7,587.68	124.14	35.01	89.77	-1,079.01	-110.41	6,024.09	5,945.02	79.07	76.185	
10,500.00	7,618.00	7,766.00	7,587.68	123.88	35.01	89.77	-1,079.01	-110.41	5,988.46	5,909.32	79.14	75.673	
10,600.00	7,618.00	7,766.00	7,587.68	123.63	35.01	89.77	-1,079.01	-110.41	5,954.29	5,875.05	79.24	75.141	
10,700.00	7,618.00	7,766.00	7,587.68	123.40	35.01	89.77	-1,079.01	-110.41	5,921.62	5,842.23	79.39	74.588	
10,800.00	7,618.00	7,766.00	7,587.68	123.18	35.01	89.77	-1,079.01	-110.41	5,890.46	5,810.88	79.59	74.014	
10,900.00	7,618.00	7,766.00	7,587.68	122.96	35.01	89.77	-1,079.01	-110.41	5,860.84	5,781.02	79.83	73.421	
11,000.00	7,618.00	7,766.00	7,587.68	122.76	35.01	89.77	-1,079.01	-110.41	5,832.79	5,752.68	80.11	72.809	
11,100.00	7,618.00	7,786.47	7,608.14	122.57	35.07	89.98	-1,079.45	-110.26	5,806.25	5,725.62	80.62	72.016	
11,200.00	7,618.00	7,787.53	7,609.20	122.39	35.07	89.99	-1,079.47	-110.25	5,781.38	5,700.37	81.01	71.364	
11,300.00	7,618.00	7,788.60	7,610.27	122.23	35.08	90.00	-1,079.50	-110.25	5,758.15	5,676.70	81.44	70.701	
11,400.00	7,618.00	7,789.67	7,611.34	122.07	35.08	90.01	-1,079.52	-110.24	5,736.56	5,654.64	81.92	70.026	
11,500.00	7,618.00	7,790.76	7,612.43	121.93	35.08	90.02	-1,079.55	-110.23	5,716.64	5,634.20	82.44	69.343	
11,600.00	7,618.00	7,791.85	7,613.52	121.79	35.09	90.04	-1,079.57	-110.23	5,698.41	5,615.41	83.00	68.655	
11,700.00	7,618.00	7,792.95	7,614.62	121.67	35.09	90.05	-1,079.60	-110.22	5,681.87	5,598.27	83.60	67.963	
11,800.00	7,618.00	7,794.06	7,615.73	121.56	35.09	90.06	-1,079.62	-110.22	5,667.06	5,582.82	84.24	67.271	
11,900.00	7,618.00	7,795.18	7,616.85	121.46	35.10	90.07	-1,079.65	-110.22	5,653.97	5,569.05	84.92	66.582	
12,000.00	7,618.00	7,796.31	7,617.98	121.38	35.10	90.08	-1,079.68	-110.21	5,642.62	5,557.00	85.63	65.897	
12,100.00	7,618.00	7,797.45	7,619.12	121.30	35.10	90.09	-1,079.70	-110.21	5,633.03	5,546.66	86.37	65.220	
12,200.00	7,618.00	7,798.60	7,620.27	121.24	35.11	90.10	-1,079.73	-110.20	5,625.20	5,538.06	87.14	64.553	
12,300.00	7,618.00	7,799.76	7,621.43	121.19	35.11	90.12	-1,079.76	-110.20	5,619.13	5,531.20	87.94	63.899	
12,400.00	7,618.00	7,800.93	7,622.60	121.16	35.11	90.13	-1,079.78	-110.20	5,614.85	5,526.08	88.76	63.258	
12,500.00	7,618.00	7,802.11	7,623.78	121.14	35.12	90.14	-1,079.81	-110.19	5,612.33	5,522.73	89.60	62.635	
12,591.01	7,618.00	7,803.19	7,624.86	121.13	35.12	90.15	-1,079.84	-110.19	5,611.60	5,521.21	90.39	62.082	
12,600.00	7,618.00	7,803.30	7,624.97	121.13	35.12	90.15	-1,079.84	-110.19	5,611.60	5,521.14	90.47	62.029	
12,700.00	7,618.00	7,804.50	7,626.17	121.13	35.12	90.17	-1,079.87	-110.19	5,612.65	5,521.31	91.35	61.444	
12,800.00	7,618.00	7,805.71	7,627.38	121.15	35.13	90.18	-1,079.90	-110.18	5,615.49	5,523.25	92.24	60.880	
12,900.00	7,618.00	7,806.93	7,628.60	121.18	35.13	90.19	-1,079.93	-110.18	5,620.09	5,526.95	93.14	60.338	
13,000.00	7,618.00	7,808.16	7,629.83	121.23	35.13	90.20	-1,079.96	-110.18	5,626.48	5,532.42	94.06	59.821	
13,100.00	7,618.00	7,809.41	7,631.07	121.29	35.14	90.22	-1,079.99	-110.18	5,634.63	5,539.65	94.98	59.327	
13,200.00	7,618.00	7,810.66	7,632.32	121.37	35.14	90.23	-1,080.02	-110.18	5,644.53	5,548.64	95.90	58.860	
13,300.00	7,618.00	7,811.92	7,633.59	121.46	35.15	90.24	-1,080.05	-110.17	5,656.19	5,559.37	96.82	58.418	
13,400.00	7,618.00	7,813.20	7,634.86	121.57	35.15	90.25	-1,080.08	-110.17	5,669.59	5,571.85	97.75	58.002	
13,500.00	7,618.00	7,814.49	7,636.15	121.70	35.15	90.27	-1,080.11	-110.17	5,684.72	5,586.05	98.67	57.614	
13,600.00	7,618.00	7,815.79	7,637.45	121.84	35.16	90.28	-1,080.15	-110.17	5,701.56	5,601.97	99.59	57.252	
13,700.00	7,618.00	7,817.10	7,638.76	122.01	35.16	90.29	-1,080.18	-110.17	5,720.10	5,619.60	100.50	56.917	
13,800.00	7,618.00	7,818.42	7,640.08	122.19	35.17	90.31	-1,080.21	-110.17	5,740.32	5,638.91	101.40	56.609	
13,900.00	7,618.00	7,819.76	7,641.42	122.39	35.17	90.32	-1,080.25	-110.17	5,762.20	5,659.90	102.30	56.327	
14,000.00	7,618.00	7,821.10	7,642.77	122.62	35.17	90.33	-1,080.28	-110.17	5,785.73	5,682.55	103.18	56.072	
14,100.00	7,618.00	7,822.46	7,644.12	122.86	35.18	90.35	-1,080.31	-110.17	5,810.88	5,706.83	104.06	55.844	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
14,200.00	7,618.00	7,823.84	7,645.50	123.12	35.18	90.36	-1,080.35	-110.17	5,837.64	5,732.73	104.92	55.641	
14,300.00	7,618.00	7,825.22	7,646.88	123.41	35.19	90.38	-1,080.39	-110.18	5,865.98	5,760.22	105.76	55.464	
14,400.00	7,618.00	7,826.62	7,648.28	123.72	35.19	90.39	-1,080.42	-110.18	5,895.88	5,789.29	106.59	55.312	
14,500.00	7,618.00	7,828.03	7,649.69	124.06	35.19	90.41	-1,080.46	-110.18	5,927.32	5,819.91	107.41	55.185	
14,600.00	7,618.00	7,829.46	7,651.11	124.42	35.20	90.42	-1,080.50	-110.18	5,960.27	5,852.06	108.21	55.082	
14,700.00	7,618.00	7,830.90	7,652.55	124.80	35.20	90.43	-1,080.53	-110.19	5,994.70	5,885.71	108.99	55.003	
14,800.00	7,618.00	7,832.35	7,654.00	125.21	35.21	90.45	-1,080.57	-110.19	6,030.60	5,920.85	109.75	54.947	
14,900.00	7,618.00	7,833.81	7,655.47	125.65	35.21	90.46	-1,080.61	-110.19	6,067.93	5,957.43	110.50	54.914	
15,000.00	7,618.00	7,835.29	7,656.95	126.11	35.22	90.48	-1,080.65	-110.20	6,106.67	5,995.44	111.23	54.902	
15,100.00	7,618.00	7,836.79	7,658.44	126.61	35.22	90.49	-1,080.69	-110.20	6,146.79	6,034.85	111.94	54.912	
15,200.00	7,618.00	7,838.30	7,659.95	127.13	35.23	90.51	-1,080.73	-110.21	6,188.27	6,075.64	112.63	54.944	
15,300.00	7,618.00	7,839.82	7,661.47	127.68	35.23	90.53	-1,080.77	-110.22	6,231.07	6,117.77	113.30	54.995	
15,400.00	7,618.00	7,841.36	7,663.01	128.26	35.24	90.54	-1,080.81	-110.22	6,275.18	6,161.22	113.96	55.066	
15,500.00	7,618.00	7,842.91	7,664.57	128.87	35.24	90.56	-1,080.86	-110.23	6,320.56	6,205.97	114.59	55.157	
15,600.00	7,618.00	7,844.48	7,666.14	129.51	35.24	90.57	-1,080.90	-110.24	6,367.19	6,251.98	115.21	55.266	
15,700.00	7,618.00	7,859.00	7,680.65	130.18	35.29	90.72	-1,081.31	-110.32	6,415.06	6,299.16	115.90	55.352	
15,800.00	7,618.00	7,859.00	7,680.65	130.88	35.29	90.72	-1,081.31	-110.32	6,464.09	6,347.62	116.46	55.503	
15,900.00	7,618.00	7,859.00	7,680.65	131.61	35.29	90.72	-1,081.31	-110.32	6,514.29	6,397.27	117.01	55.671	
16,000.00	7,618.00	7,859.00	7,680.65	132.37	35.29	90.72	-1,081.31	-110.32	6,565.63	6,448.08	117.55	55.855	
16,100.00	7,618.00	7,859.00	7,680.65	133.17	35.29	90.72	-1,081.31	-110.32	6,618.08	6,500.01	118.06	56.055	
16,200.00	7,618.00	7,859.00	7,680.65	133.99	35.29	90.72	-1,081.31	-110.32	6,671.62	6,553.05	118.56	56.271	
16,300.00	7,618.00	7,859.00	7,680.65	134.84	35.29	90.72	-1,081.31	-110.32	6,726.21	6,607.17	119.04	56.502	
16,400.00	7,618.00	7,859.00	7,680.65	135.72	35.29	90.72	-1,081.31	-110.32	6,781.85	6,662.34	119.51	56.747	
16,500.00	7,618.00	7,859.00	7,680.65	136.63	35.29	90.72	-1,081.31	-110.32	6,838.49	6,718.53	119.96	57.007	
16,600.00	7,618.00	7,859.00	7,680.65	137.57	35.29	90.72	-1,081.31	-110.32	6,896.12	6,775.73	120.39	57.280	
16,700.00	7,618.00	7,859.00	7,680.65	138.54	35.29	90.72	-1,081.31	-110.32	6,954.71	6,833.90	120.81	57.567	
16,800.00	7,618.00	7,859.00	7,680.65	139.53	35.29	90.72	-1,081.31	-110.32	7,014.23	6,893.02	121.21	57.866	
16,900.00	7,618.00	7,859.00	7,680.65	140.55	35.29	90.72	-1,081.31	-110.32	7,074.67	6,953.07	121.60	58.178	
17,000.00	7,618.00	7,859.00	7,680.65	141.60	35.29	90.72	-1,081.31	-110.32	7,136.00	7,014.02	121.98	58.502	
17,100.00	7,618.00	7,859.00	7,680.65	142.67	35.29	90.72	-1,081.31	-110.32	7,198.19	7,075.85	122.34	58.838	
17,200.00	7,618.00	7,859.00	7,680.65	143.77	35.29	90.72	-1,081.31	-110.32	7,261.23	7,138.54	122.69	59.184	
17,300.00	7,618.00	7,859.00	7,680.65	144.88	35.29	90.72	-1,081.31	-110.32	7,325.09	7,202.07	123.02	59.542	
17,400.00	7,618.00	7,859.00	7,680.65	146.02	35.29	90.72	-1,081.31	-110.32	7,389.76	7,266.41	123.35	59.911	
17,500.00	7,618.00	7,859.00	7,680.65	147.19	35.29	90.72	-1,081.31	-110.32	7,455.20	7,331.54	123.66	60.289	
17,600.00	7,618.00	7,859.00	7,680.65	148.37	35.29	90.72	-1,081.31	-110.32	7,521.40	7,397.45	123.96	60.678	
17,700.00	7,618.00	7,859.00	7,680.65	149.57	35.29	90.72	-1,081.31	-110.32	7,588.35	7,464.10	124.24	61.076	
17,800.00	7,618.00	8,368.59	8,189.35	150.79	36.98	95.90	-1,106.81	-104.08	7,655.68	7,528.24	127.44	60.075	
17,900.00	7,618.00	8,371.93	8,192.68	152.03	36.99	95.93	-1,107.05	-103.96	7,723.71	7,596.01	127.70	60.483	
18,000.00	7,618.00	8,375.23	8,195.96	153.29	37.00	95.97	-1,107.29	-103.84	7,792.44	7,664.48	127.96	60.899	
18,100.00	7,618.00	8,378.49	8,199.22	154.57	37.01	96.00	-1,107.52	-103.73	7,861.83	7,733.63	128.20	61.324	
18,200.00	7,618.00	8,381.72	8,202.43	155.86	37.02	96.03	-1,107.75	-103.61	7,931.87	7,803.44	128.44	61.757	
18,300.00	7,618.00	8,384.91	8,205.62	157.17	37.03	96.07	-1,107.98	-103.50	8,002.55	7,873.89	128.66	62.197	
18,400.00	7,618.00	8,388.07	8,208.77	158.49	37.05	96.10	-1,108.20	-103.40	8,073.84	7,944.96	128.88	62.645	
18,500.00	7,618.00	8,391.19	8,211.88	159.82	37.06	96.13	-1,108.42	-103.29	8,145.74	8,016.65	129.09	63.101	
18,600.00	7,618.00	8,394.28	8,214.96	161.17	37.07	96.16	-1,108.63	-103.19	8,218.22	8,088.93	129.29	63.563	
18,700.00	7,618.00	8,397.34	8,218.01	162.54	37.08	96.19	-1,108.85	-103.09	8,291.27	8,161.78	129.49	64.032	
18,800.00	7,618.00	8,420.00	8,240.61	163.91	37.16	96.42	-1,110.38	-102.36	8,364.93	8,235.15	129.78	64.456	
18,900.00	7,618.00	8,420.00	8,240.61	165.30	37.16	96.42	-1,110.38	-102.36	8,439.06	8,309.12	129.94	64.946	
19,000.00	7,618.00	8,420.00	8,240.61	166.70	37.16	96.42	-1,110.38	-102.36	8,513.72	8,383.62	130.10	65.442	
19,100.00	7,618.00	8,420.00	8,240.61	168.10	37.16	96.42	-1,110.38	-102.36	8,588.89	8,458.65	130.24	65.944	
19,200.00	7,618.00	8,420.00	8,240.61	169.52	37.16	96.42	-1,110.38	-102.36	8,664.57	8,534.18	130.39	66.452	
19,300.00	7,618.00	8,420.00	8,240.61	170.95	37.16	96.42	-1,110.38	-102.36	8,740.74	8,610.21	130.53	66.966	

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

Survey Program: 107-MWD OWSG

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
19,400.00	7,618.00	8,420.00	8,240.61	172.39	37.16	96.42	-1,110.38	-102.36	8,817.38	8,686.72	130.66	67.485	
19,500.00	7,618.00	8,420.00	8,240.61	173.84	37.16	96.42	-1,110.38	-102.36	8,894.49	8,763.70	130.78	68.009	
19,600.00	7,618.00	8,420.00	8,240.61	175.30	37.16	96.42	-1,110.38	-102.36	8,972.04	8,841.14	130.91	68.538	
19,700.00	7,618.00	8,420.00	8,240.61	176.76	37.16	96.42	-1,110.38	-102.36	9,050.04	8,919.02	131.02	69.072	
19,800.00	7,618.00	8,420.00	8,240.61	178.24	37.16	96.42	-1,110.38	-102.36	9,128.47	8,997.34	131.13	69.611	
19,896.19	7,618.00	8,420.00	8,240.61	179.66	37.16	96.42	-1,110.38	-102.36	9,204.30	9,073.06	131.24	70.134	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-31.75	218.57	-135.24	257.15				
100.00	100.00	90.00	90.00	0.13	0.15	-31.68	219.03	-135.17	257.39	257.11	0.28	912.458	
200.00	200.00	193.01	192.99	0.49	0.42	-31.41	220.26	-134.52	258.09	257.18	0.91	283.059	
300.00	299.98	302.07	301.98	0.85	0.81	-100.46	220.00	-130.55	256.32	254.66	1.66	154.488	
400.00	399.84	410.50	410.02	1.21	1.21	-100.31	218.20	-121.76	251.66	249.24	2.41	104.213	
500.00	499.45	515.66	514.27	1.58	1.63	-100.06	216.26	-108.19	244.99	241.80	3.19	76.852	
600.00	598.70	623.92	621.07	1.97	2.10	-100.29	212.20	-90.95	235.73	231.72	4.01	58.835	
700.00	697.47	726.02	721.11	2.38	2.58	-100.71	207.77	-71.03	224.73	219.89	4.84	46.398	
800.00	795.62	820.10	812.59	2.83	3.05	-100.87	205.95	-49.24	214.57	208.86	5.72	37.539	
900.00	893.06	915.06	904.43	3.31	3.55	-100.61	209.79	-25.43	209.08	202.41	6.67	31.348	
1,000.00	989.64	1,019.58	1,005.43	3.83	4.12	-101.31	213.10	1.24	203.30	195.59	7.71	26.376	
1,100.00	1,085.27	1,120.65	1,102.93	4.40	4.68	-103.05	214.96	27.81	196.76	187.99	8.76	22.449	
1,200.00	1,179.82	1,219.94	1,198.52	5.02	5.25	-105.66	216.93	54.60	190.99	181.15	9.84	19.408	
1,300.00	1,273.17	1,313.06	1,288.51	5.70	5.77	-109.27	219.80	78.36	188.51	177.63	10.88	17.326	
1,300.55	1,273.68	1,313.59	1,289.02	5.70	5.78	-109.29	219.82	78.49	188.51	177.63	10.89	17.317	CC, ES
1,400.00	1,365.21	1,408.95	1,381.11	6.43	6.31	-113.39	225.51	102.54	190.55	178.63	11.92	15.983	
1,500.00	1,455.84	1,507.79	1,476.39	7.23	6.87	-118.01	232.64	127.85	195.80	182.85	12.95	15.117	
1,600.00	1,544.94	1,606.49	1,571.35	8.09	7.44	-122.98	239.92	153.78	203.77	189.84	13.93	14.626	
1,700.00	1,632.39	1,701.63	1,662.67	9.01	7.99	-127.66	248.34	179.08	215.82	200.97	14.85	14.530	SF
1,800.00	1,718.11	1,796.22	1,753.68	10.00	8.54	-132.38	257.08	203.36	232.70	217.00	15.70	14.822	
1,900.00	1,801.97	1,891.11	1,845.15	11.07	9.07	-137.05	265.60	227.11	254.17	237.70	16.47	15.431	
2,000.00	1,883.88	1,984.54	1,935.59	12.20	9.60	-141.78	271.90	249.67	280.17	263.03	17.14	16.347	
2,100.00	1,963.74	2,077.36	2,025.57	13.41	10.11	-146.19	277.30	271.82	310.86	293.10	17.77	17.496	
2,200.00	2,041.45	2,170.60	2,115.76	14.69	10.63	-149.99	283.19	294.73	345.48	327.06	18.42	18.754	
2,300.00	2,116.92	2,259.02	2,201.19	16.05	11.14	-153.05	289.36	316.69	384.13	365.05	19.08	20.128	
2,357.48	2,159.25	2,306.36	2,247.02	16.86	11.40	-154.55	292.45	328.11	408.51	389.06	19.45	21.002	
2,400.00	2,190.27	2,341.10	2,280.74	17.47	11.59	-155.78	294.47	336.24	427.39	407.67	19.72	21.675	
2,500.00	2,263.22	2,425.61	2,362.87	18.92	12.05	-158.40	299.31	355.57	472.90	452.53	20.37	23.210	
2,600.00	2,336.18	2,511.87	2,446.74	20.37	12.51	-160.60	304.52	375.02	519.41	498.34	21.07	24.650	
2,700.00	2,409.14	2,611.79	2,543.68	21.84	13.06	-162.80	309.87	398.58	565.60	543.73	21.87	25.862	
2,800.00	2,482.09	2,696.41	2,625.60	23.31	13.54	-164.53	313.03	419.58	611.28	588.70	22.58	27.076	
2,900.00	2,555.05	2,788.69	2,714.93	24.78	14.07	-166.15	316.54	442.45	657.40	634.05	23.35	28.152	
3,000.00	2,628.01	2,877.43	2,800.70	26.27	14.57	-167.48	320.19	464.95	703.29	679.16	24.13	29.151	
3,100.00	2,700.96	2,965.91	2,886.18	27.75	15.08	-168.74	322.82	487.59	749.42	724.51	24.90	30.092	
3,200.00	2,773.92	3,058.40	2,975.48	29.24	15.62	-169.88	325.86	511.50	795.52	769.79	25.73	30.921	
3,300.00	2,846.88	3,143.50	3,057.58	30.73	16.11	-170.73	329.88	533.53	841.52	815.00	26.52	31.731	
3,400.00	2,919.83	3,228.93	3,140.13	32.23	16.60	-171.39	335.15	554.90	888.13	860.80	27.33	32.497	
3,500.00	2,992.79	3,311.95	3,220.38	33.72	17.08	-171.96	340.48	575.46	935.01	906.89	28.12	33.245	
3,600.00	3,065.75	3,392.85	3,298.77	35.22	17.53	-172.45	345.67	594.81	982.71	953.80	28.91	33.997	
3,700.00	3,138.71	3,478.27	3,381.58	36.72	18.00	-172.94	350.89	615.08	1,030.69	1,000.97	29.72	34.676	
3,800.00	3,211.66	3,557.95	3,458.94	38.22	18.44	-173.42	354.65	633.81	1,079.24	1,048.75	30.49	35.393	
3,900.00	3,284.62	3,656.29	3,554.33	39.72	18.99	-174.02	358.29	657.41	1,127.67	1,096.26	31.42	35.892	
4,000.00	3,357.58	3,730.52	3,626.37	41.22	19.40	-174.43	361.25	675.03	1,176.31	1,144.16	32.15	36.589	
4,100.00	3,430.53	3,827.15	3,720.19	42.73	19.93	-174.90	365.27	697.82	1,225.12	1,192.05	33.07	37.042	
4,200.00	3,503.49	3,908.50	3,799.11	44.23	20.38	-175.28	368.49	717.31	1,273.71	1,239.84	33.87	37.604	
4,300.00	3,576.45	3,993.91	3,882.06	45.74	20.85	-175.64	372.09	737.37	1,322.67	1,287.96	34.71	38.110	
4,400.00	3,649.40	4,074.15	3,960.01	47.25	21.28	-175.93	375.84	755.98	1,371.81	1,336.32	35.50	38.645	
4,500.00	3,722.36	4,155.72	4,039.41	48.75	21.72	-176.15	380.76	774.04	1,421.51	1,385.21	36.30	39.158	
4,600.00	3,795.32	4,246.29	4,127.55	50.26	22.20	-176.41	385.42	794.35	1,471.23	1,434.04	37.19	39.563	
4,700.00	3,868.27	4,329.20	4,208.17	51.77	22.65	-176.62	390.00	813.13	1,520.69	1,482.68	38.01	40.012	
4,800.00	3,941.23	4,397.00	4,274.29	53.28	23.00	-176.78	393.74	827.65	1,571.16	1,532.47	38.68	40.614	
4,900.00	4,014.19	4,507.34	4,381.79	54.79	23.59	-177.07	398.62	852.03	1,621.41	1,581.65	39.76	40.784	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
5,000.00	4,087.15	4,588.31	4,460.55	56.30	24.03	-177.29	401.91	870.53	1,671.13	1,630.57	40.56	41.198	
5,100.00	4,160.10	4,676.02	4,545.90	57.81	24.50	-177.49	405.98	890.29	1,720.99	1,679.56	41.43	41.538	
5,200.00	4,233.06	4,760.62	4,628.23	59.32	24.95	-177.68	409.79	909.37	1,770.87	1,728.60	42.27	41.891	
5,300.00	4,306.02	4,819.88	4,685.98	60.83	25.26	-177.83	411.75	922.56	1,821.39	1,778.52	42.88	42.478	
5,400.00	4,378.97	4,864.00	4,729.08	62.34	25.49	-177.95	412.47	931.92	1,873.40	1,830.08	43.33	43.239	
5,500.00	4,451.93	4,921.72	4,785.68	63.85	25.76	-178.12	412.96	943.25	1,926.90	1,883.01	43.89	43.898	
5,600.00	4,524.89	4,970.56	4,833.77	65.36	25.99	-178.24	413.34	951.79	1,982.02	1,937.65	44.36	44.677	
5,700.00	4,597.84	5,024.01	4,886.53	66.88	26.22	-178.36	413.69	960.31	2,038.44	1,993.57	44.87	45.432	
5,800.00	4,670.80	5,079.00	4,940.94	68.39	26.46	-178.48	414.00	968.27	2,096.03	2,050.65	45.38	46.186	
5,900.00	4,743.76	5,135.97	4,997.40	69.90	26.69	-178.59	414.26	975.85	2,154.58	2,108.67	45.91	46.928	
6,000.00	4,816.71	5,190.67	5,051.70	71.41	26.90	-178.68	414.46	982.49	2,214.06	2,167.65	46.41	47.704	
6,100.00	4,889.67	5,239.00	5,099.73	72.93	27.08	-178.76	414.59	987.80	2,274.50	2,227.66	46.84	48.561	
6,200.00	4,962.63	5,286.61	5,147.13	74.44	27.24	-178.83	414.70	992.36	2,336.03	2,288.78	47.25	49.443	
6,300.00	5,035.59	5,332.00	5,192.37	75.95	27.40	-178.88	414.81	995.91	2,398.76	2,351.13	47.63	50.365	
6,400.00	5,108.54	5,376.67	5,236.95	77.47	27.54	-178.93	414.90	998.76	2,462.54	2,414.54	47.99	51.313	
6,500.00	5,181.50	5,426.00	5,286.22	78.98	27.69	-178.97	415.00	1,001.31	2,527.22	2,478.81	48.41	52.208	
6,600.00	5,254.46	5,482.36	5,342.52	80.49	27.85	-179.01	415.08	1,003.69	2,592.61	2,543.71	48.90	53.018	
6,700.00	5,327.41	5,543.87	5,404.00	82.01	28.03	-179.05	415.12	1,005.90	2,658.47	2,609.01	49.46	53.755	
6,800.00	5,400.37	5,610.80	5,470.89	83.52	28.21	-179.09	415.24	1,008.01	2,724.61	2,674.54	50.07	54.413	
6,900.00	5,473.33	5,661.58	5,521.65	85.04	28.35	-179.11	415.40	1,009.29	2,791.18	2,740.68	50.50	55.269	
7,000.00	5,546.28	5,707.00	5,567.07	86.55	28.47	-179.13	415.55	1,010.02	2,858.41	2,807.54	50.87	56.191	
7,100.00	5,619.24	5,765.35	5,625.41	88.06	28.62	-179.14	415.72	1,010.49	2,926.19	2,874.81	51.38	56.951	
7,200.00	5,692.20	5,824.44	5,684.51	89.58	28.77	-179.16	415.84	1,010.55	2,994.44	2,942.54	51.90	57.697	
7,300.00	5,765.15	5,894.13	5,754.19	91.09	28.94	-179.17	416.08	1,010.43	3,062.86	3,010.33	52.53	58.302	
7,400.00	5,838.11	5,963.07	5,823.13	92.61	29.10	-179.18	416.31	1,010.23	3,131.36	3,078.21	53.16	58.907	
7,500.00	5,911.07	6,031.09	5,891.15	94.12	29.26	-179.19	416.42	1,009.97	3,199.96	3,146.19	53.77	59.512	
7,600.00	5,984.03	6,098.95	5,959.02	95.64	29.42	-179.20	416.59	1,009.58	3,268.68	3,214.30	54.38	60.107	
7,700.00	6,056.98	6,167.91	6,027.97	97.15	29.58	-179.21	416.82	1,009.08	3,337.49	3,282.48	55.01	60.676	
7,800.00	6,129.94	6,239.80	6,099.86	98.67	29.75	-179.21	416.98	1,008.53	3,406.34	3,350.68	55.66	61.196	
7,900.00	6,202.90	6,305.61	6,165.67	100.18	29.90	-179.22	417.01	1,008.02	3,475.24	3,418.99	56.25	61.777	
8,000.00	6,275.85	6,367.35	6,227.40	101.70	30.04	-179.23	417.04	1,007.35	3,544.35	3,487.55	56.80	62.398	
8,100.00	6,348.81	6,431.50	6,291.54	103.21	30.19	-179.23	417.18	1,006.45	3,613.65	3,556.27	57.38	62.979	
8,200.00	6,421.77	6,498.06	6,358.10	104.73	30.35	-179.23	417.42	1,005.33	3,683.09	3,625.11	57.98	63.521	
8,300.00	6,494.72	6,564.91	6,424.94	106.24	30.50	-179.24	417.54	1,004.17	3,752.61	3,694.02	58.59	64.049	
8,400.00	6,567.68	6,628.18	6,488.20	107.76	30.65	-179.24	417.35	1,003.06	3,822.27	3,763.11	59.16	64.609	
8,500.00	6,640.64	6,721.69	6,581.69	109.27	30.87	-179.26	416.87	1,001.58	3,891.87	3,831.81	60.06	64.801	
8,600.00	6,713.59	6,870.56	6,730.55	110.79	31.25	-179.27	417.35	1,000.90	3,960.48	3,898.92	61.56	64.335	
8,700.00	6,786.55	6,970.63	6,830.62	112.30	31.53	-179.28	418.01	1,001.79	4,028.06	3,965.51	62.55	64.400	
8,800.00	6,859.51	7,047.61	6,907.59	113.82	31.75	-179.29	418.48	1,002.73	4,095.45	4,032.16	63.29	64.708	
8,900.00	6,932.46	7,122.58	6,982.56	115.33	31.97	-179.30	419.07	1,003.59	4,162.85	4,098.84	64.01	65.031	
9,000.00	7,005.42	7,218.17	7,078.13	116.85	32.24	-179.31	419.88	1,005.02	4,229.99	4,165.03	64.95	65.122	
9,104.89	7,081.95	7,295.39	7,155.34	118.44	32.47	-179.32	420.58	1,006.32	4,300.25	4,234.56	65.70	65.454	
9,150.00	7,115.15	7,322.02	7,181.96	119.12	32.55	172.11	420.86	1,006.74	4,330.13	4,264.19	65.95	65.662	
9,200.00	7,152.46	7,351.15	7,211.09	119.86	32.63	162.70	421.24	1,007.10	4,362.31	4,296.10	66.21	65.889	
9,250.00	7,190.04	7,380.29	7,240.22	120.57	32.72	153.54	421.70	1,007.38	4,393.29	4,326.83	66.46	66.105	
9,300.00	7,227.59	7,406.03	7,265.96	121.25	32.79	144.76	422.14	1,007.55	4,422.87	4,356.20	66.67	66.343	
9,350.00	7,264.83	7,429.59	7,289.52	121.89	32.85	136.49	422.49	1,007.65	4,450.88	4,384.04	66.84	66.589	
9,400.00	7,301.48	7,452.68	7,312.60	122.48	32.92	128.86	422.76	1,007.69	4,477.17	4,410.17	67.00	66.821	
9,450.00	7,337.26	7,484.00	7,343.92	123.01	33.01	122.01	423.03	1,007.67	4,501.58	4,434.34	67.24	66.947	
9,500.00	7,371.90	7,501.72	7,361.65	123.49	33.05	115.79	423.14	1,007.63	4,523.94	4,456.61	67.33	67.190	
9,550.00	7,405.13	7,530.37	7,390.30	123.91	33.13	110.42	423.32	1,007.54	4,544.11	4,476.58	67.53	67.291	
9,600.00	7,436.70	7,557.55	7,417.47	124.27	33.20	105.77	423.47	1,007.44	4,561.98	4,494.27	67.71	67.375	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,650.00	7,466.36	7,582.69	7,442.62	124.57	33.27	101.78	423.60	1,007.32	4,577.49	4,509.62	67.87	67.443	
9,700.00	7,493.91	7,604.63	7,464.55	124.81	33.33	98.40	423.71	1,007.19	4,590.57	4,522.56	68.00	67.505	
9,750.00	7,519.11	7,624.61	7,484.53	125.00	33.38	95.59	423.82	1,007.05	4,601.18	4,533.05	68.12	67.542	
9,800.00	7,541.79	7,642.51	7,502.43	125.12	33.43	93.31	423.93	1,006.90	4,609.29	4,541.06	68.24	67.550	
9,850.00	7,561.77	7,658.20	7,518.12	125.20	33.47	91.52	424.02	1,006.76	4,614.89	4,546.55	68.34	67.526	
9,900.00	7,578.90	7,672.00	7,531.92	125.23	33.51	90.18	424.10	1,006.62	4,617.96	4,549.51	68.45	67.462	
9,950.00	7,593.04	7,686.31	7,546.23	125.22	33.55	89.29	424.19	1,006.47	4,618.52	4,549.92	68.60	67.328	
10,000.00	7,604.09	7,697.92	7,557.84	125.17	33.58	88.81	424.26	1,006.36	4,616.57	4,547.83	68.75	67.153	
10,050.00	7,611.97	7,706.14	7,566.05	125.08	33.60	88.70	424.30	1,006.28	4,612.16	4,543.26	68.90	66.941	
10,100.00	7,616.61	7,710.88	7,570.79	124.97	33.61	88.96	424.33	1,006.23	4,605.32	4,536.26	69.06	66.690	
10,145.95	7,618.00	7,712.13	7,572.04	124.84	33.61	89.52	424.33	1,006.22	4,596.94	4,527.73	69.21	66.424	
10,200.00	7,618.00	7,711.83	7,571.75	124.69	33.61	89.51	424.33	1,006.22	4,586.22	4,516.83	69.40	66.085	
10,300.00	7,618.00	7,711.29	7,571.20	124.41	33.61	89.51	424.33	1,006.23	4,568.02	4,498.20	69.82	65.422	
10,400.00	7,618.00	7,710.73	7,570.65	124.14	33.61	89.50	424.32	1,006.23	4,551.95	4,481.61	70.33	64.719	
10,500.00	7,618.00	7,710.18	7,570.09	123.88	33.61	89.49	424.32	1,006.24	4,538.02	4,467.09	70.93	63.982	
10,600.00	7,618.00	7,709.62	7,569.54	123.63	33.61	89.48	424.32	1,006.24	4,526.25	4,454.66	71.60	63.217	
10,700.00	7,618.00	7,709.06	7,568.97	123.40	33.61	89.48	424.32	1,006.25	4,516.68	4,444.33	72.35	62.432	
10,800.00	7,618.00	7,708.49	7,568.40	123.18	33.61	89.47	424.31	1,006.25	4,509.29	4,436.13	73.16	61.633	
10,900.00	7,618.00	7,707.92	7,567.83	122.96	33.60	89.46	424.31	1,006.26	4,504.12	4,430.07	74.05	60.826	
11,000.00	7,618.00	7,707.34	7,567.26	122.76	33.60	89.46	424.31	1,006.27	4,501.17	4,426.17	74.99	60.020	
11,083.12	7,618.00	7,706.86	7,566.78	122.60	33.60	89.45	424.30	1,006.27	4,500.40	4,424.57	75.83	59.351	
11,100.00	7,618.00	7,706.76	7,566.68	122.57	33.60	89.45	424.30	1,006.27	4,500.43	4,424.43	76.00	59.220	
11,200.00	7,618.00	7,706.18	7,566.09	122.39	33.60	89.44	424.30	1,006.28	4,501.92	4,424.87	77.05	58.431	
11,300.00	7,618.00	7,705.59	7,565.51	122.23	33.60	89.43	424.30	1,006.28	4,505.62	4,427.48	78.14	57.660	
11,400.00	7,618.00	7,705.00	7,564.91	122.07	33.60	89.43	424.29	1,006.29	4,511.54	4,432.27	79.27	56.911	
11,500.00	7,618.00	7,704.40	7,564.32	121.93	33.59	89.42	424.29	1,006.29	4,519.67	4,439.23	80.44	56.188	
11,600.00	7,618.00	7,703.80	7,563.72	121.79	33.59	89.41	424.29	1,006.30	4,529.98	4,448.35	81.63	55.494	
11,700.00	7,618.00	7,703.19	7,563.11	121.67	33.59	89.40	424.29	1,006.31	4,542.48	4,459.64	82.84	54.832	
11,800.00	7,618.00	7,702.58	7,562.50	121.56	33.59	89.40	424.28	1,006.31	4,557.14	4,473.06	84.07	54.204	
11,900.00	7,618.00	7,701.97	7,561.89	121.46	33.59	89.39	424.28	1,006.32	4,573.93	4,488.62	85.31	53.612	
12,000.00	7,618.00	7,701.35	7,561.27	121.38	33.59	89.38	424.28	1,006.32	4,592.85	4,506.28	86.56	53.058	
12,100.00	7,618.00	7,700.73	7,560.64	121.30	33.58	89.37	424.27	1,006.33	4,613.85	4,526.04	87.81	52.542	
12,200.00	7,618.00	7,700.10	7,560.01	121.24	33.58	89.36	424.27	1,006.34	4,636.91	4,547.85	89.06	52.064	
12,300.00	7,618.00	7,699.47	7,559.38	121.19	33.58	89.36	424.27	1,006.34	4,662.01	4,571.71	90.31	51.625	
12,400.00	7,618.00	7,698.83	7,558.74	121.16	33.58	89.35	424.26	1,006.35	4,689.11	4,597.57	91.54	51.225	
12,500.00	7,618.00	7,698.18	7,558.10	121.14	33.58	89.34	424.26	1,006.35	4,718.17	4,625.40	92.76	50.863	
12,600.00	7,618.00	7,697.54	7,557.45	121.13	33.58	89.33	424.25	1,006.36	4,749.15	4,655.18	93.97	50.538	
12,700.00	7,618.00	7,696.88	7,556.80	121.13	33.57	89.32	424.25	1,006.37	4,782.03	4,686.87	95.16	50.251	
12,800.00	7,618.00	7,696.23	7,556.14	121.15	33.57	89.31	424.25	1,006.37	4,816.76	4,720.43	96.33	50.000	
12,900.00	7,618.00	7,695.56	7,555.48	121.18	33.57	89.31	424.24	1,006.38	4,853.30	4,755.82	97.49	49.785	
13,000.00	7,618.00	7,694.89	7,554.81	121.23	33.57	89.30	424.24	1,006.39	4,891.62	4,793.00	98.61	49.604	
13,100.00	7,618.00	7,694.22	7,554.14	121.29	33.57	89.29	424.24	1,006.39	4,931.66	4,831.94	99.72	49.456	
13,200.00	7,618.00	7,693.54	7,553.46	121.37	33.57	89.28	424.23	1,006.40	4,973.39	4,872.60	100.80	49.341	
13,300.00	7,618.00	7,692.86	7,552.78	121.46	33.56	89.27	424.23	1,006.41	5,016.77	4,914.92	101.85	49.257	
13,400.00	7,618.00	7,692.17	7,552.09	121.57	33.56	89.26	424.23	1,006.41	5,061.76	4,958.88	102.87	49.204	
13,500.00	7,618.00	7,691.48	7,551.39	121.70	33.56	89.25	424.22	1,006.42	5,108.30	5,004.43	103.87	49.179	
13,600.00	7,618.00	7,690.78	7,550.69	121.84	33.56	89.24	424.22	1,006.43	5,156.36	5,051.52	104.84	49.183	
13,700.00	7,618.00	7,690.07	7,549.99	122.01	33.56	89.24	424.21	1,006.44	5,205.91	5,100.12	105.78	49.213	
13,800.00	7,618.00	7,689.36	7,549.28	122.19	33.55	89.23	424.21	1,006.44	5,256.88	5,150.19	106.70	49.270	
13,900.00	7,618.00	7,688.64	7,548.56	122.39	33.55	89.22	424.20	1,006.45	5,309.25	5,201.67	107.58	49.351	
14,000.00	7,618.00	7,687.92	7,547.84	122.62	33.55	89.21	424.20	1,006.46	5,362.98	5,254.54	108.44	49.457	
14,100.00	7,618.00	7,687.19	7,547.11	122.86	33.55	89.20	424.20	1,006.46	5,418.01	5,308.75	109.27	49.585	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
14,200.00	7,618.00	7,686.46	7,546.37	123.12	33.55	89.19	424.19	1,006.47	5,474.32	5,364.26	110.07	49.736	
14,300.00	7,618.00	7,685.71	7,545.63	123.41	33.55	89.18	424.19	1,006.48	5,531.87	5,421.03	110.84	49.908	
14,400.00	7,618.00	7,684.97	7,544.89	123.72	33.54	89.17	424.18	1,006.49	5,590.61	5,479.02	111.59	50.100	
14,500.00	7,618.00	7,684.22	7,544.13	124.06	33.54	89.16	424.18	1,006.49	5,650.51	5,538.20	112.31	50.312	
14,600.00	7,618.00	7,683.46	7,543.37	124.42	33.54	89.15	424.17	1,006.50	5,711.54	5,598.53	113.01	50.542	
14,700.00	7,618.00	7,682.69	7,542.61	124.80	33.54	89.14	424.17	1,006.51	5,773.65	5,659.97	113.68	50.791	
14,800.00	7,618.00	7,681.92	7,541.84	125.21	33.54	89.13	424.17	1,006.52	5,836.81	5,722.49	114.32	51.056	
14,900.00	7,618.00	7,681.14	7,541.06	125.65	33.53	89.12	424.16	1,006.53	5,900.99	5,786.05	114.94	51.338	
15,000.00	7,618.00	7,680.36	7,540.27	126.11	33.53	89.11	424.16	1,006.53	5,966.16	5,850.61	115.54	51.636	
15,100.00	7,618.00	7,679.57	7,539.48	126.61	33.53	89.10	424.15	1,006.54	6,032.28	5,916.16	116.12	51.949	
15,200.00	7,618.00	7,678.77	7,538.68	127.13	33.53	89.09	424.15	1,006.55	6,099.32	5,982.65	116.68	52.276	
15,300.00	7,618.00	7,677.96	7,537.88	127.68	33.52	89.08	424.14	1,006.56	6,167.26	6,050.05	117.21	52.617	
15,400.00	7,618.00	7,677.15	7,537.07	128.26	33.52	89.07	424.14	1,006.57	6,236.06	6,118.33	117.72	52.972	
15,500.00	7,618.00	7,676.33	7,536.25	128.87	33.52	89.06	424.13	1,006.58	6,305.69	6,187.48	118.22	53.340	
15,600.00	7,618.00	7,675.51	7,535.42	129.51	33.52	89.05	424.13	1,006.58	6,376.14	6,257.44	118.69	53.720	
15,700.00	7,618.00	7,674.67	7,534.59	130.18	33.52	89.04	424.12	1,006.59	6,447.36	6,328.21	119.15	54.111	
15,800.00	7,618.00	7,673.83	7,533.75	130.88	33.51	89.03	424.12	1,006.60	6,519.34	6,399.75	119.59	54.514	
15,900.00	7,618.00	7,672.99	7,532.90	131.61	33.51	89.02	424.11	1,006.61	6,592.05	6,472.04	120.01	54.928	
16,000.00	7,618.00	7,672.13	7,532.05	132.37	33.51	89.01	424.11	1,006.62	6,665.47	6,545.05	120.42	55.353	
16,100.00	7,618.00	7,672.00	7,531.92	133.17	33.51	89.01	424.10	1,006.62	6,739.57	6,618.76	120.81	55.785	
16,200.00	7,618.00	7,672.00	7,531.92	133.99	33.51	89.01	424.10	1,006.62	6,814.33	6,693.14	121.19	56.228	
16,300.00	7,618.00	7,672.00	7,531.92	134.84	33.51	89.01	424.10	1,006.62	6,889.74	6,768.18	121.56	56.679	
16,400.00	7,618.00	7,672.00	7,531.92	135.72	33.51	89.01	424.10	1,006.62	6,965.76	6,843.85	121.91	57.140	
16,500.00	7,618.00	7,672.00	7,531.92	136.63	33.51	89.01	424.10	1,006.62	7,042.38	6,920.14	122.25	57.609	
16,600.00	7,618.00	7,672.00	7,531.92	137.57	33.51	89.01	424.10	1,006.62	7,119.59	6,997.01	122.57	58.086	
16,700.00	7,618.00	7,672.00	7,531.92	138.54	33.51	89.01	424.10	1,006.62	7,197.35	7,074.47	122.88	58.571	
16,800.00	7,618.00	7,672.00	7,531.92	139.53	33.51	89.01	424.10	1,006.62	7,275.66	7,152.47	123.18	59.064	
16,900.00	7,618.00	7,672.00	7,531.92	140.55	33.51	89.01	424.10	1,006.62	7,354.49	7,231.02	123.47	59.564	
17,000.00	7,618.00	7,672.00	7,531.92	141.60	33.51	89.01	424.10	1,006.62	7,433.83	7,310.08	123.75	60.071	
17,100.00	7,618.00	7,672.00	7,531.92	142.67	33.51	89.01	424.10	1,006.62	7,513.67	7,389.65	124.02	60.585	
17,200.00	7,618.00	7,666.52	7,526.43	143.77	33.49	88.94	424.07	1,006.68	7,593.98	7,469.72	124.25	61.117	
17,300.00	7,618.00	7,666.06	7,525.98	144.88	33.49	88.93	424.07	1,006.68	7,674.75	7,550.25	124.50	61.645	
17,400.00	7,618.00	7,665.60	7,525.52	146.02	33.49	88.92	424.06	1,006.69	7,755.97	7,631.24	124.74	62.179	
17,500.00	7,618.00	7,665.15	7,525.07	147.19	33.49	88.92	424.06	1,006.69	7,837.63	7,712.67	124.96	62.719	
17,600.00	7,618.00	7,664.69	7,524.61	148.37	33.49	88.91	424.06	1,006.70	7,919.71	7,794.52	125.18	63.264	
17,700.00	7,618.00	7,664.24	7,524.16	149.57	33.49	88.91	424.06	1,006.70	8,002.19	7,876.80	125.40	63.815	
17,800.00	7,618.00	7,663.79	7,523.71	150.79	33.49	88.90	424.05	1,006.70	8,085.08	7,959.47	125.60	64.371	
17,900.00	7,618.00	7,663.34	7,523.25	152.03	33.49	88.90	424.05	1,006.71	8,168.34	8,042.54	125.80	64.932	
18,000.00	7,618.00	7,662.89	7,522.80	153.29	33.48	88.89	424.05	1,006.71	8,251.98	8,125.99	125.99	65.498	
18,100.00	7,618.00	7,662.44	7,522.35	154.57	33.48	88.88	424.05	1,006.72	8,335.97	8,209.80	126.17	66.069	
18,200.00	7,618.00	7,661.99	7,521.91	155.86	33.48	88.88	424.04	1,006.72	8,420.32	8,293.97	126.35	66.644	
18,300.00	7,618.00	7,661.54	7,521.46	157.17	33.48	88.87	424.04	1,006.73	8,505.00	8,378.48	126.52	67.223	
18,400.00	7,618.00	7,661.09	7,521.01	158.49	33.48	88.87	424.04	1,006.73	8,590.02	8,463.33	126.68	67.807	
18,500.00	7,618.00	7,660.65	7,520.57	159.82	33.48	88.86	424.03	1,006.74	8,675.35	8,548.51	126.84	68.395	
18,600.00	7,618.00	7,660.20	7,520.12	161.17	33.48	88.86	424.03	1,006.74	8,761.00	8,634.00	127.00	68.987	
18,700.00	7,618.00	7,659.76	7,519.68	162.54	33.48	88.85	424.03	1,006.74	8,846.94	8,719.80	127.14	69.582	
18,800.00	7,618.00	7,659.31	7,519.23	163.91	33.48	88.84	424.03	1,006.75	8,933.18	8,805.89	127.29	70.181	
18,900.00	7,618.00	7,658.87	7,518.79	165.30	33.47	88.84	424.02	1,006.75	9,019.70	8,892.28	127.43	70.784	
19,000.00	7,618.00	7,658.43	7,518.35	166.70	33.47	88.83	424.02	1,006.76	9,106.50	8,978.94	127.56	71.390	
19,100.00	7,618.00	7,657.99	7,517.91	168.10	33.47	88.83	424.02	1,006.76	9,193.57	9,065.88	127.69	72.000	
19,200.00	7,618.00	7,657.55	7,517.47	169.52	33.47	88.82	424.02	1,006.77	9,280.89	9,153.08	127.81	72.612	
19,300.00	7,618.00	7,657.11	7,517.03	170.95	33.47	88.82	424.01	1,006.77	9,368.47	9,240.54	127.94	73.228	

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

Survey Program: 139-MWD OWSG

Offset Site Error: 0.00 usft

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
19,400.00	7,618.00	7,656.67	7,516.59	172.39	33.47	88.81	424.01	1,006.77	9,456.30	9,328.25	128.05	73.846	
19,500.00	7,618.00	7,656.24	7,516.16	173.84	33.47	88.81	424.01	1,006.78	9,544.37	9,416.20	128.17	74.468	
19,600.00	7,618.00	7,655.80	7,515.72	175.30	33.47	88.80	424.00	1,006.78	9,632.67	9,504.39	128.28	75.092	
19,700.00	7,618.00	7,655.36	7,515.28	176.76	33.46	88.79	424.00	1,006.79	9,721.19	9,592.81	128.38	75.719	
19,800.00	7,618.00	7,654.93	7,514.85	178.24	33.46	88.79	424.00	1,006.79	9,809.94	9,681.45	128.49	76.349	
19,896.19	7,618.00	7,654.51	7,514.43	179.66	33.46	88.78	424.00	1,006.79	9,895.50	9,766.92	128.59	76.956	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	68.01	1,835.16	4,543.85	9,330.04				
100.00	100.00	15,353.00	7,799.48	0.13	138.96	68.01	1,835.16	4,543.85	9,245.09	9,157.20	87.90	105.183	
200.00	200.00	15,353.00	7,799.48	0.49	138.96	68.01	1,835.16	4,543.85	9,160.45	9,072.15	88.30	103.739	
300.00	299.98	15,353.00	7,799.48	0.85	138.96	-1.39	1,835.16	4,543.85	9,075.19	8,986.45	88.75	102.256	
400.00	399.84	15,353.00	7,799.48	1.21	138.96	-1.47	1,835.16	4,543.85	8,988.45	8,899.23	89.22	100.746	
500.00	499.45	15,353.00	7,799.48	1.58	138.96	-1.57	1,835.16	4,543.85	8,900.27	8,810.59	89.68	99.241	
600.00	598.70	15,353.00	7,799.48	1.97	138.96	-1.69	1,835.16	4,543.85	8,810.73	8,720.59	90.14	97.744	
700.00	697.47	15,353.00	7,799.48	2.38	138.96	-1.82	1,835.16	4,543.85	8,719.89	8,629.31	90.59	96.261	
800.00	795.62	15,353.00	7,799.48	2.83	138.96	-1.98	1,835.16	4,543.85	8,627.83	8,536.82	91.02	94.793	
900.00	893.06	15,353.00	7,799.48	3.31	138.96	-2.16	1,835.16	4,543.85	8,534.63	8,443.19	91.43	93.345	
1,000.00	989.64	15,353.00	7,799.48	3.83	138.96	-2.39	1,835.16	4,543.85	8,440.35	8,348.52	91.82	91.918	
1,100.00	1,085.27	15,353.00	7,799.48	4.40	138.96	-2.66	1,835.16	4,543.85	8,345.08	8,252.88	92.20	90.514	
1,200.00	1,179.82	15,353.00	7,799.48	5.02	138.96	-3.01	1,835.16	4,543.85	8,248.90	8,156.36	92.54	89.136	
1,300.00	1,273.17	15,353.00	7,799.48	5.70	138.96	-3.46	1,835.16	4,543.85	8,151.91	8,059.04	92.86	87.785	
1,400.00	1,365.21	15,353.00	7,799.48	6.43	138.96	-4.06	1,835.16	4,543.85	8,054.18	7,961.03	93.15	86.461	
1,500.00	1,455.84	15,353.00	7,799.48	7.23	138.96	-4.92	1,835.16	4,543.85	7,955.82	7,862.41	93.41	85.168	
1,600.00	1,544.94	15,353.00	7,799.48	8.09	138.96	-6.22	1,835.16	4,543.85	7,856.92	7,763.28	93.64	83.906	
1,700.00	1,632.39	15,353.00	7,799.48	9.01	138.96	-8.41	1,835.16	4,543.85	7,757.59	7,663.76	93.83	82.676	
1,800.00	1,718.11	15,353.00	7,799.48	10.00	138.96	-12.90	1,835.16	4,543.85	7,657.93	7,563.95	93.99	81.480	
1,900.00	1,801.97	15,353.00	7,799.48	11.07	138.96	-26.60	1,835.16	4,543.85	7,558.06	7,463.96	94.10	80.319	
2,000.00	1,883.88	15,353.00	7,799.48	12.20	138.96	-108.99	1,835.16	4,543.85	7,458.08	7,363.91	94.18	79.193	
2,100.00	1,963.74	15,353.00	7,799.48	13.41	138.96	-159.35	1,835.16	4,543.85	7,358.13	7,263.92	94.21	78.105	
2,200.00	2,041.45	15,353.00	7,799.48	14.69	138.96	-168.53	1,835.16	4,543.85	7,258.31	7,164.11	94.20	77.054	
2,300.00	2,116.92	15,353.00	7,799.48	16.05	138.96	-172.06	1,835.16	4,543.85	7,158.77	7,064.63	94.14	76.040	
2,357.48	2,159.25	15,353.00	7,799.48	16.86	138.96	-173.24	1,835.16	4,543.85	7,101.73	7,007.64	94.09	75.476	
2,400.00	2,190.27	15,353.00	7,799.48	17.47	138.96	-173.24	1,835.16	4,543.85	7,059.60	6,965.55	94.05	75.062	
2,500.00	2,263.22	15,353.00	7,799.48	18.92	138.96	-173.24	1,835.16	4,543.85	6,960.52	6,866.57	93.96	74.083	
2,600.00	2,336.18	15,353.00	7,799.48	20.37	138.96	-173.24	1,835.16	4,543.85	6,861.47	6,767.61	93.86	73.102	
2,700.00	2,409.14	15,353.00	7,799.48	21.84	138.96	-173.24	1,835.16	4,543.85	6,762.45	6,668.68	93.77	72.118	
2,800.00	2,482.09	15,353.00	7,799.48	23.31	138.96	-173.24	1,835.16	4,543.85	6,663.46	6,569.78	93.68	71.131	
2,900.00	2,555.05	15,353.00	7,799.48	24.78	138.96	-173.24	1,835.16	4,543.85	6,564.50	6,470.91	93.59	70.143	
3,000.00	2,628.01	15,353.00	7,799.48	26.27	138.96	-173.24	1,835.16	4,543.85	6,465.57	6,372.07	93.50	69.152	
3,100.00	2,700.96	15,353.00	7,799.48	27.75	138.96	-173.24	1,835.16	4,543.85	6,366.67	6,273.26	93.41	68.159	
3,200.00	2,773.92	15,353.00	7,799.48	29.24	138.96	-173.24	1,835.16	4,543.85	6,267.81	6,174.49	93.32	67.164	
3,300.00	2,846.88	15,353.00	7,799.48	30.73	138.96	-173.24	1,835.16	4,543.85	6,168.99	6,075.75	93.23	66.167	
3,400.00	2,919.83	15,353.00	7,799.48	32.23	138.96	-173.24	1,835.16	4,543.85	6,070.20	5,977.06	93.15	65.169	
3,500.00	2,992.79	15,353.00	7,799.48	33.72	138.96	-173.24	1,835.16	4,543.85	5,971.46	5,878.40	93.06	64.169	
3,600.00	3,065.75	15,353.00	7,799.48	35.22	138.96	-173.24	1,835.16	4,543.85	5,872.75	5,779.78	92.97	63.168	
3,700.00	3,138.71	15,353.00	7,799.48	36.72	138.96	-173.24	1,835.16	4,543.85	5,774.09	5,681.21	92.88	62.166	
3,800.00	3,211.66	15,353.00	7,799.48	38.22	138.96	-173.24	1,835.16	4,543.85	5,675.48	5,582.69	92.79	61.163	
3,900.00	3,284.62	15,353.00	7,799.48	39.72	138.96	-173.24	1,835.16	4,543.85	5,576.92	5,484.22	92.70	60.159	
4,000.00	3,357.58	15,353.00	7,799.48	41.22	138.96	-173.24	1,835.16	4,543.85	5,478.41	5,385.80	92.61	59.154	
4,100.00	3,430.53	15,353.00	7,799.48	42.73	138.96	-173.24	1,835.16	4,543.85	5,379.96	5,287.44	92.52	58.150	
4,200.00	3,503.49	15,353.00	7,799.48	44.23	138.96	-173.24	1,835.16	4,543.85	5,281.56	5,189.14	92.43	57.144	
4,300.00	3,576.45	15,353.00	7,799.48	45.74	138.96	-173.24	1,835.16	4,543.85	5,183.22	5,090.90	92.33	56.139	
4,400.00	3,649.40	15,353.00	7,799.48	47.25	138.96	-173.24	1,835.16	4,543.85	5,084.95	4,992.72	92.23	55.133	
4,500.00	3,722.36	15,353.00	7,799.48	48.75	138.96	-173.24	1,835.16	4,543.85	4,986.75	4,894.62	92.13	54.128	
4,600.00	3,795.32	15,353.00	7,799.48	50.26	138.96	-173.24	1,835.16	4,543.85	4,888.62	4,796.60	92.03	53.122	
4,700.00	3,868.27	15,353.00	7,799.48	51.77	138.96	-173.24	1,835.16	4,543.85	4,790.57	4,698.65	91.92	52.117	
4,800.00	3,941.23	15,353.00	7,799.48	53.28	138.96	-173.24	1,835.16	4,543.85	4,692.60	4,600.79	91.81	51.113	
4,900.00	4,014.19	15,353.00	7,799.48	54.79	138.96	-173.24	1,835.16	4,543.85	4,594.72	4,503.03	91.69	50.109	
5,000.00	4,087.15	15,353.00	7,799.48	56.30	138.96	-173.24	1,835.16	4,543.85	4,496.93	4,405.36	91.58	49.106	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
5,100.00	4,160.10	15,353.00	7,799.48	57.81	138.96	-173.24	1,835.16	4,543.85	4,399.24	4,307.79	91.45	48.103	
5,200.00	4,233.06	15,353.00	7,799.48	59.32	138.96	-173.24	1,835.16	4,543.85	4,301.66	4,210.33	91.33	47.102	
5,300.00	4,306.02	15,353.00	7,799.48	60.83	138.96	-173.24	1,835.16	4,543.85	4,204.19	4,113.00	91.19	46.101	
5,400.00	4,378.97	15,353.00	7,799.48	62.34	138.96	-173.24	1,835.16	4,543.85	4,106.84	4,015.79	91.06	45.102	
5,500.00	4,451.93	15,353.00	7,799.48	63.85	138.96	-173.24	1,835.16	4,543.85	4,009.63	3,918.71	90.91	44.103	
5,600.00	4,524.89	15,353.00	7,799.48	65.36	138.96	-173.24	1,835.16	4,543.85	3,912.55	3,821.79	90.76	43.106	
5,700.00	4,597.84	15,353.00	7,799.48	66.88	138.96	-173.24	1,835.16	4,543.85	3,815.63	3,725.02	90.61	42.111	
5,800.00	4,670.80	15,353.00	7,799.48	68.39	138.96	-173.24	1,835.16	4,543.85	3,718.86	3,628.42	90.45	41.116	
5,900.00	4,743.76	15,353.00	7,799.48	69.90	138.96	-173.24	1,835.16	4,543.85	3,622.28	3,532.00	90.28	40.124	
6,000.00	4,816.71	15,353.00	7,799.48	71.41	138.96	-173.24	1,835.16	4,543.85	3,525.88	3,435.78	90.10	39.132	
6,100.00	4,889.67	15,353.00	7,799.48	72.93	138.96	-173.24	1,835.16	4,543.85	3,429.69	3,339.77	89.92	38.142	
6,200.00	4,962.63	15,353.00	7,799.48	74.44	138.96	-173.24	1,835.16	4,543.85	3,333.72	3,244.00	89.73	37.154	
6,300.00	5,035.59	15,353.00	7,799.48	75.95	138.96	-173.24	1,835.16	4,543.85	3,238.00	3,148.47	89.53	36.167	
6,400.00	5,108.54	15,353.00	7,799.48	77.47	138.96	-173.24	1,835.16	4,543.85	3,142.55	3,053.22	89.32	35.182	
6,500.00	5,181.50	15,353.00	7,799.48	78.98	138.96	-173.24	1,835.16	4,543.85	3,047.38	2,958.27	89.11	34.199	
6,600.00	5,254.46	15,353.00	7,799.48	80.49	138.96	-173.24	1,835.16	4,543.85	2,952.54	2,863.65	88.89	33.216	
6,700.00	5,327.41	15,353.00	7,799.48	82.01	138.96	-173.24	1,835.16	4,543.85	2,858.04	2,769.38	88.66	32.235	
6,800.00	5,400.37	15,353.00	7,799.48	83.52	138.96	-173.24	1,835.16	4,543.85	2,763.94	2,675.51	88.43	31.255	
6,900.00	5,473.33	15,353.00	7,799.48	85.04	138.96	-173.24	1,835.16	4,543.85	2,670.26	2,582.07	88.20	30.276	
7,000.00	5,546.28	15,353.00	7,799.48	86.55	138.96	-173.24	1,835.16	4,543.85	2,577.06	2,489.10	87.96	29.297	
7,100.00	5,619.24	15,353.00	7,799.48	88.06	138.96	-173.24	1,835.16	4,543.85	2,484.39	2,396.66	87.73	28.319	
7,200.00	5,692.20	15,353.00	7,799.48	89.58	138.96	-173.24	1,835.16	4,543.85	2,392.30	2,304.80	87.51	27.339	
7,300.00	5,765.15	15,353.00	7,799.48	91.09	138.96	-173.24	1,835.16	4,543.85	2,300.88	2,213.59	87.29	26.358	
7,400.00	5,838.11	15,353.00	7,799.48	92.61	138.96	-173.24	1,835.16	4,543.85	2,210.20	2,123.10	87.11	25.373	
7,500.00	5,911.07	15,353.00	7,799.48	94.12	138.96	-173.24	1,835.16	4,543.85	2,120.36	2,033.41	86.95	24.385	
7,600.00	5,984.03	15,353.00	7,799.48	95.64	138.96	-173.24	1,835.16	4,543.85	2,031.47	1,944.62	86.85	23.390	
7,700.00	6,056.98	15,353.00	7,799.48	97.15	138.96	-173.24	1,835.16	4,543.85	1,943.66	1,856.84	86.82	22.386	
7,800.00	6,129.94	15,353.00	7,799.48	98.67	138.96	-173.24	1,835.16	4,543.85	1,857.09	1,770.19	86.90	21.371	
7,900.00	6,202.90	15,353.00	7,799.48	100.18	138.96	-173.24	1,835.16	4,543.85	1,771.92	1,684.81	87.12	20.339	
8,000.00	6,275.85	15,353.00	7,799.48	101.70	138.96	-173.24	1,835.16	4,543.85	1,688.39	1,600.85	87.54	19.288	
8,100.00	6,348.81	15,353.00	7,799.48	103.21	138.96	-173.24	1,835.16	4,543.85	1,606.73	1,518.51	88.22	18.212	
8,200.00	6,421.77	15,353.00	7,799.48	104.73	138.96	-173.24	1,835.16	4,543.85	1,527.26	1,437.99	89.27	17.108	
8,300.00	6,494.72	15,353.00	7,799.48	106.24	138.96	-173.24	1,835.16	4,543.85	1,450.34	1,359.53	90.81	15.972	
8,400.00	6,567.68	15,353.00	7,799.48	107.76	138.96	-173.24	1,835.16	4,543.85	1,376.38	1,283.42	92.96	14.806	
8,500.00	6,640.64	15,353.00	7,799.48	109.27	138.96	-173.24	1,835.16	4,543.85	1,305.90	1,210.00	95.89	13.618	
8,600.00	6,713.59	15,353.00	7,799.48	110.79	138.96	-173.24	1,835.16	4,543.85	1,239.48	1,139.71	99.77	12.424	
8,700.00	6,786.55	15,353.00	7,799.48	112.30	138.96	-173.24	1,835.16	4,543.85	1,177.81	1,073.10	104.72	11.248	
8,800.00	6,859.51	15,353.00	7,799.48	113.82	138.96	-173.24	1,835.16	4,543.85	1,121.69	1,010.87	110.82	10.122	
8,900.00	6,932.46	15,349.32	7,799.51	115.33	138.89	-173.02	1,838.84	4,543.79	1,071.97	953.88	118.08	9.078	
9,000.00	7,005.42	15,325.57	7,799.73	116.85	138.48	-171.64	1,862.59	4,543.39	1,029.23	902.63	126.60	8.130	
9,104.89	7,081.95	15,300.83	7,799.95	118.44	138.05	-170.19	1,887.32	4,542.98	992.68	856.17	136.51	7.272	
9,150.00	7,115.15	15,291.18	7,800.04	119.12	137.88	-173.04	1,896.96	4,542.83	979.66	838.63	141.03	6.946	
9,200.00	7,152.46	15,284.74	7,800.10	119.86	137.77	-176.91	1,903.41	4,542.73	967.15	820.95	146.19	6.615	
9,250.00	7,190.04	15,282.94	7,800.12	120.57	137.74	178.56	1,905.20	4,542.71	956.90	805.49	151.42	6.320	
9,300.00	7,227.59	15,285.95	7,800.09	121.25	137.79	173.49	1,902.19	4,542.75	949.10	792.53	156.58	6.062	
9,350.00	7,264.83	15,293.89	7,800.01	121.89	137.93	168.03	1,894.26	4,542.87	943.83	782.27	161.56	5.842	
9,400.00	7,301.48	15,306.83	7,799.90	122.48	138.15	162.32	1,881.31	4,543.09	941.05	774.79	166.26	5.660	
9,433.15	7,325.32	15,315.72	7,799.82	122.83	138.31	158.60	1,872.42	4,543.23	940.55	771.28	169.27	5.557 CC	
9,450.00	7,337.26	15,321.46	7,799.76	123.01	138.41	156.68	1,866.68	4,543.32	940.67	769.95	170.72	5.510	
9,500.00	7,371.90	15,341.21	7,799.58	123.49	138.75	151.00	1,846.95	4,543.65	942.49	767.73	174.76	5.393	
9,550.00	7,405.13	15,353.00	7,799.48	123.91	138.96	146.06	1,835.16	4,543.85	946.29	767.44	178.85	5.291 ES	
9,600.00	7,436.70	15,353.00	7,799.48	124.27	138.96	141.99	1,835.16	4,543.85	952.34	769.15	183.18	5.199	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	15,353.00	7,799.48	124.57	138.96	138.13	1,835.16	4,543.85	960.61	773.36	187.25	5.130	
9,700.00	7,493.91	15,353.00	7,799.48	124.81	138.96	134.47	1,835.16	4,543.85	971.00	779.97	191.03	5.083	
9,750.00	7,519.11	15,353.00	7,799.48	125.00	138.96	130.98	1,835.16	4,543.85	983.35	788.86	194.49	5.056	
9,800.00	7,541.79	15,353.00	7,799.48	125.12	138.96	127.63	1,835.16	4,543.85	997.49	799.90	197.60	5.048	SF
9,850.00	7,561.77	15,353.00	7,799.48	125.20	138.96	124.43	1,835.16	4,543.85	1,013.26	812.92	200.34	5.058	
9,900.00	7,578.90	15,353.00	7,799.48	125.23	138.96	121.36	1,835.16	4,543.85	1,030.45	827.74	202.71	5.083	
9,950.00	7,593.04	15,353.00	7,799.48	125.22	138.96	118.41	1,835.16	4,543.85	1,048.88	844.18	204.69	5.124	
10,000.00	7,604.09	15,353.00	7,799.48	125.17	138.96	115.61	1,835.16	4,543.85	1,068.33	862.04	206.29	5.179	
10,050.00	7,611.97	15,353.00	7,799.48	125.08	138.96	112.96	1,835.16	4,543.85	1,088.61	881.12	207.50	5.246	
10,100.00	7,616.61	15,353.00	7,799.48	124.97	138.96	110.49	1,835.16	4,543.85	1,109.53	901.21	208.32	5.326	
10,145.95	7,618.00	15,353.00	7,799.48	124.84	138.96	108.38	1,835.16	4,543.85	1,129.15	920.41	208.75	5.409	
10,200.00	7,618.00	15,353.00	7,799.48	124.69	138.96	108.38	1,835.16	4,543.85	1,153.43	944.51	208.92	5.521	
10,300.00	7,618.00	15,353.00	7,799.48	124.41	138.96	108.38	1,835.16	4,543.85	1,203.47	994.92	208.54	5.771	
10,400.00	7,618.00	15,353.00	7,799.48	124.14	138.96	108.38	1,835.16	4,543.85	1,259.47	1,052.03	207.43	6.072	
10,500.00	7,618.00	15,353.00	7,799.48	123.88	138.96	108.38	1,835.16	4,543.85	1,320.68	1,114.90	205.78	6.418	
10,600.00	7,618.00	15,353.00	7,799.48	123.63	138.96	108.38	1,835.16	4,543.85	1,386.41	1,182.66	203.75	6.805	
10,700.00	7,618.00	15,353.00	7,799.48	123.40	138.96	108.38	1,835.16	4,543.85	1,456.04	1,254.57	201.47	7.227	
10,800.00	7,618.00	15,353.00	7,799.48	123.18	138.96	108.38	1,835.16	4,543.85	1,529.04	1,329.99	199.06	7.681	
10,900.00	7,618.00	15,353.00	7,799.48	122.96	138.96	108.38	1,835.16	4,543.85	1,604.96	1,408.37	196.59	8.164	
11,000.00	7,618.00	15,353.00	7,799.48	122.76	138.96	108.38	1,835.16	4,543.85	1,683.40	1,489.27	194.13	8.672	
11,100.00	7,618.00	15,353.00	7,799.48	122.57	138.96	108.38	1,835.16	4,543.85	1,764.02	1,572.31	191.71	9.201	
11,200.00	7,618.00	15,353.00	7,799.48	122.39	138.96	108.38	1,835.16	4,543.85	1,846.54	1,657.17	189.36	9.751	
11,300.00	7,618.00	15,353.00	7,799.48	122.23	138.96	108.38	1,835.16	4,543.85	1,930.71	1,743.60	187.10	10.319	
11,400.00	7,618.00	15,353.00	7,799.48	122.07	138.96	108.38	1,835.16	4,543.85	2,016.32	1,831.38	184.94	10.902	
11,500.00	7,618.00	15,353.00	7,799.48	121.93	138.96	108.38	1,835.16	4,543.85	2,103.21	1,920.32	182.89	11.500	
11,600.00	7,618.00	15,353.00	7,799.48	121.79	138.96	108.38	1,835.16	4,543.85	2,191.21	2,010.27	180.94	12.110	
11,700.00	7,618.00	15,353.00	7,799.48	121.67	138.96	108.38	1,835.16	4,543.85	2,280.21	2,101.11	179.10	12.732	
11,800.00	7,618.00	15,353.00	7,799.48	121.56	138.96	108.38	1,835.16	4,543.85	2,370.08	2,192.72	177.36	13.363	
11,900.00	7,618.00	15,353.00	7,799.48	121.46	138.96	108.38	1,835.16	4,543.85	2,460.73	2,285.01	175.72	14.004	
12,000.00	7,618.00	15,353.00	7,799.48	121.38	138.96	108.38	1,835.16	4,543.85	2,552.08	2,377.91	174.17	14.653	
12,100.00	7,618.00	15,353.00	7,799.48	121.30	138.96	108.38	1,835.16	4,543.85	2,644.06	2,471.35	172.71	15.309	
12,200.00	7,618.00	15,353.00	7,799.48	121.24	138.96	108.38	1,835.16	4,543.85	2,736.60	2,565.26	171.34	15.972	
12,300.00	7,618.00	15,353.00	7,799.48	121.19	138.96	108.38	1,835.16	4,543.85	2,829.65	2,659.60	170.05	16.640	
12,400.00	7,618.00	15,353.00	7,799.48	121.16	138.96	108.38	1,835.16	4,543.85	2,923.16	2,754.33	168.83	17.314	
12,500.00	7,618.00	15,353.00	7,799.48	121.14	138.96	108.38	1,835.16	4,543.85	3,017.08	2,849.40	167.68	17.993	
12,600.00	7,618.00	15,353.00	7,799.48	121.13	138.96	108.38	1,835.16	4,543.85	3,111.38	2,944.78	166.60	18.676	
12,700.00	7,618.00	15,353.00	7,799.48	121.13	138.96	108.38	1,835.16	4,543.85	3,206.03	3,040.45	165.58	19.363	
12,800.00	7,618.00	15,353.00	7,799.48	121.15	138.96	108.38	1,835.16	4,543.85	3,300.99	3,136.38	164.61	20.053	
12,900.00	7,618.00	15,353.00	7,799.48	121.18	138.96	108.38	1,835.16	4,543.85	3,396.25	3,232.54	163.70	20.746	
13,000.00	7,618.00	15,353.00	7,799.48	121.23	138.96	108.38	1,835.16	4,543.85	3,491.76	3,328.92	162.84	21.442	
13,100.00	7,618.00	15,353.00	7,799.48	121.29	138.96	108.38	1,835.16	4,543.85	3,587.53	3,425.50	162.03	22.141	
13,200.00	7,618.00	15,353.00	7,799.48	121.37	138.96	108.38	1,835.16	4,543.85	3,683.51	3,522.25	161.26	22.842	
13,300.00	7,618.00	15,353.00	7,799.48	121.46	138.96	108.38	1,835.16	4,543.85	3,779.71	3,619.18	160.53	23.545	
13,400.00	7,618.00	15,353.00	7,799.48	121.57	138.96	108.38	1,835.16	4,543.85	3,876.10	3,716.26	159.84	24.249	
13,500.00	7,618.00	15,353.00	7,799.48	121.70	138.96	108.38	1,835.16	4,543.85	3,972.66	3,813.48	159.19	24.956	
13,600.00	7,618.00	15,353.00	7,799.48	121.84	138.96	108.38	1,835.16	4,543.85	4,069.40	3,910.83	158.57	25.663	
13,700.00	7,618.00	15,353.00	7,799.48	122.01	138.96	108.38	1,835.16	4,543.85	4,166.28	4,008.31	157.98	26.372	
13,800.00	7,618.00	15,353.00	7,799.48	122.19	138.96	108.38	1,835.16	4,543.85	4,263.31	4,105.90	157.42	27.082	
13,900.00	7,618.00	15,353.00	7,799.48	122.39	138.96	108.38	1,835.16	4,543.85	4,360.48	4,203.59	156.89	27.794	
14,000.00	7,618.00	15,353.00	7,799.48	122.62	138.96	108.38	1,835.16	4,543.85	4,457.77	4,301.39	156.38	28.506	
14,100.00	7,618.00	15,353.00	7,799.48	122.86	138.96	108.38	1,835.16	4,543.85	4,555.18	4,399.28	155.90	29.218	
14,200.00	7,618.00	15,353.00	7,799.48	123.12	138.96	108.38	1,835.16	4,543.85	4,652.69	4,497.25	155.44	29.932	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	15,353.00	7,799.48	123.41	138.96	108.38	1,835.16	4,543.85	4,750.32	4,595.31	155.01	30.646	
14,400.00	7,618.00	15,353.00	7,799.48	123.72	138.96	108.38	1,835.16	4,543.85	4,848.03	4,693.44	154.59	31.360	
14,500.00	7,618.00	15,353.00	7,799.48	124.06	138.96	108.38	1,835.16	4,543.85	4,945.84	4,791.65	154.19	32.076	
14,600.00	7,618.00	15,353.00	7,799.48	124.42	138.96	108.38	1,835.16	4,543.85	5,043.74	4,889.92	153.82	32.791	
14,700.00	7,618.00	15,353.00	7,799.48	124.80	138.96	108.38	1,835.16	4,543.85	5,141.71	4,988.26	153.45	33.507	
14,800.00	7,618.00	15,353.00	7,799.48	125.21	138.96	108.38	1,835.16	4,543.85	5,239.77	5,086.66	153.11	34.223	
14,900.00	7,618.00	15,353.00	7,799.48	125.65	138.96	108.38	1,835.16	4,543.85	5,337.89	5,185.11	152.78	34.939	
15,000.00	7,618.00	15,353.00	7,799.48	126.11	138.96	108.38	1,835.16	4,543.85	5,436.08	5,283.62	152.46	35.655	
15,100.00	7,618.00	15,353.00	7,799.48	126.61	138.96	108.38	1,835.16	4,543.85	5,534.34	5,382.18	152.16	36.372	
15,200.00	7,618.00	15,353.00	7,799.48	127.13	138.96	108.38	1,835.16	4,543.85	5,632.66	5,480.79	151.87	37.088	
15,300.00	7,618.00	15,353.00	7,799.48	127.68	138.96	108.38	1,835.16	4,543.85	5,731.04	5,579.44	151.59	37.805	
15,400.00	7,618.00	15,353.00	7,799.48	128.26	138.96	108.38	1,835.16	4,543.85	5,829.47	5,678.14	151.33	38.522	
15,500.00	7,618.00	15,353.00	7,799.48	128.87	138.96	108.38	1,835.16	4,543.85	5,927.95	5,776.88	151.08	39.238	
15,600.00	7,618.00	15,353.00	7,799.48	129.51	138.96	108.38	1,835.16	4,543.85	6,026.49	5,875.66	150.83	39.955	
15,700.00	7,618.00	15,353.00	7,799.48	130.18	138.96	108.38	1,835.16	4,543.85	6,125.07	5,974.47	150.60	40.671	
15,800.00	7,618.00	15,353.00	7,799.48	130.88	138.96	108.38	1,835.16	4,543.85	6,223.70	6,073.32	150.37	41.388	
15,900.00	7,618.00	15,353.00	7,799.48	131.61	138.96	108.38	1,835.16	4,543.85	6,322.37	6,172.21	150.16	42.104	
16,000.00	7,618.00	15,353.00	7,799.48	132.37	138.96	108.38	1,835.16	4,543.85	6,421.08	6,271.13	149.95	42.821	
16,100.00	7,618.00	15,353.00	7,799.48	133.17	138.96	108.38	1,835.16	4,543.85	6,519.83	6,370.08	149.76	43.537	
16,200.00	7,618.00	15,353.00	7,799.48	133.99	138.96	108.38	1,835.16	4,543.85	6,618.62	6,469.06	149.56	44.253	
16,300.00	7,618.00	15,353.00	7,799.48	134.84	138.96	108.38	1,835.16	4,543.85	6,717.45	6,568.06	149.38	44.968	
16,400.00	7,618.00	15,353.00	7,799.48	135.72	138.96	108.38	1,835.16	4,543.85	6,816.30	6,667.10	149.21	45.684	
16,500.00	7,618.00	15,353.00	7,799.48	136.63	138.96	108.38	1,835.16	4,543.85	6,915.20	6,766.16	149.04	46.399	
16,600.00	7,618.00	15,353.00	7,799.48	137.57	138.96	108.38	1,835.16	4,543.85	7,014.12	6,865.25	148.87	47.115	
16,700.00	7,618.00	15,353.00	7,799.48	138.54	138.96	108.38	1,835.16	4,543.85	7,113.07	6,964.36	148.72	47.829	
16,800.00	7,618.00	15,353.00	7,799.48	139.53	138.96	108.38	1,835.16	4,543.85	7,212.05	7,063.49	148.57	48.544	
16,900.00	7,618.00	15,353.00	7,799.48	140.55	138.96	108.38	1,835.16	4,543.85	7,311.06	7,162.64	148.42	49.259	
17,000.00	7,618.00	15,353.00	7,799.48	141.60	138.96	108.38	1,835.16	4,543.85	7,410.10	7,261.82	148.28	49.973	
17,100.00	7,618.00	15,353.00	7,799.48	142.67	138.96	108.38	1,835.16	4,543.85	7,509.16	7,361.01	148.15	50.687	
17,200.00	7,618.00	15,353.00	7,799.48	143.77	138.96	108.38	1,835.16	4,543.85	7,608.25	7,460.23	148.02	51.401	
17,300.00	7,618.00	15,353.00	7,799.48	144.88	138.96	108.38	1,835.16	4,543.85	7,707.36	7,559.46	147.89	52.114	
17,400.00	7,618.00	15,353.00	7,799.48	146.02	138.96	108.38	1,835.16	4,543.85	7,806.49	7,658.72	147.77	52.827	
17,500.00	7,618.00	15,353.00	7,799.48	147.19	138.96	108.38	1,835.16	4,543.85	7,905.65	7,757.99	147.66	53.540	
17,600.00	7,618.00	15,353.00	7,799.48	148.37	138.96	108.38	1,835.16	4,543.85	8,004.82	7,857.27	147.55	54.253	
17,700.00	7,618.00	15,353.00	7,799.48	149.57	138.96	108.38	1,835.16	4,543.85	8,104.02	7,956.58	147.44	54.965	
17,800.00	7,618.00	15,353.00	7,799.48	150.79	138.96	108.38	1,835.16	4,543.85	8,203.23	8,055.90	147.34	55.677	
17,900.00	7,618.00	15,353.00	7,799.48	152.03	138.96	108.38	1,835.16	4,543.85	8,302.47	8,155.23	147.24	56.389	
18,000.00	7,618.00	15,353.00	7,799.48	153.29	138.96	108.38	1,835.16	4,543.85	8,401.72	8,254.58	147.14	57.100	
18,100.00	7,618.00	15,353.00	7,799.48	154.57	138.96	108.38	1,835.16	4,543.85	8,500.99	8,353.94	147.05	57.811	
18,200.00	7,618.00	15,353.00	7,799.48	155.86	138.96	108.38	1,835.16	4,543.85	8,600.28	8,453.32	146.96	58.522	
18,300.00	7,618.00	15,353.00	7,799.48	157.17	138.96	108.38	1,835.16	4,543.85	8,699.58	8,552.71	146.87	59.232	
18,400.00	7,618.00	15,353.00	7,799.48	158.49	138.96	108.38	1,835.16	4,543.85	8,798.90	8,652.11	146.79	59.942	
18,500.00	7,618.00	15,353.00	7,799.48	159.82	138.96	108.38	1,835.16	4,543.85	8,898.23	8,751.52	146.71	60.652	
18,600.00	7,618.00	15,353.00	7,799.48	161.17	138.96	108.38	1,835.16	4,543.85	8,997.58	8,850.95	146.63	61.361	
18,700.00	7,618.00	15,353.00	7,799.48	162.54	138.96	108.38	1,835.16	4,543.85	9,096.94	8,950.39	146.56	62.070	
18,800.00	7,618.00	15,353.00	7,799.48	163.91	138.96	108.38	1,835.16	4,543.85	9,196.32	9,049.83	146.49	62.779	
18,900.00	7,618.00	15,353.00	7,799.48	165.30	138.96	108.38	1,835.16	4,543.85	9,295.71	9,149.29	146.42	63.488	
19,000.00	7,618.00	15,353.00	7,799.48	166.70	138.96	108.38	1,835.16	4,543.85	9,395.11	9,248.76	146.35	64.196	
19,100.00	7,618.00	15,353.00	7,799.48	168.10	138.96	108.38	1,835.16	4,543.85	9,494.53	9,348.24	146.29	64.903	
19,200.00	7,618.00	15,353.00	7,799.48	169.52	138.96	108.38	1,835.16	4,543.85	9,593.96	9,447.73	146.23	65.610	
19,300.00	7,618.00	15,353.00	7,799.48	170.95	138.96	108.38	1,835.16	4,543.85	9,693.40	9,547.23	146.17	66.317	
19,400.00	7,618.00	15,353.00	7,799.48	172.39	138.96	108.38	1,835.16	4,543.85	9,792.85	9,646.74	146.11	67.024	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,500.00	7,618.00	15,353.00	7,799.48	173.84	138.96	108.38	1,835.16	4,543.85	9,892.31	9,746.26	146.05	67.730	
19,600.00	7,618.00	15,353.00	7,799.48	175.30	138.96	108.38	1,835.16	4,543.85	9,991.78	9,845.78	146.00	68.436	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	69.29	1,844.58	4,879.54	9,390.57				
100.00	100.00	15,243.00	7,668.35	0.13	138.66	69.29	1,844.58	4,879.54	9,307.58	9,216.87	90.71	102.613	
200.00	200.00	15,243.00	7,668.35	0.49	138.66	69.29	1,844.58	4,879.54	9,224.93	9,133.79	91.15	101.209	
300.00	299.98	15,243.00	7,668.35	0.85	138.66	-0.03	1,844.58	4,879.54	9,141.65	9,050.02	91.63	99.765	
400.00	399.84	15,243.00	7,668.35	1.21	138.66	-0.03	1,844.58	4,879.54	9,056.80	8,964.66	92.14	98.291	
500.00	499.45	15,243.00	7,668.35	1.58	138.66	-0.03	1,844.58	4,879.54	8,970.45	8,877.80	92.65	96.820	
600.00	598.70	15,243.00	7,668.35	1.97	138.66	-0.03	1,844.58	4,879.54	8,882.64	8,789.49	93.15	95.356	
700.00	697.47	15,243.00	7,668.35	2.38	138.66	-0.03	1,844.58	4,879.54	8,793.46	8,699.81	93.64	93.903	
800.00	795.62	15,243.00	7,668.35	2.83	138.66	-0.03	1,844.58	4,879.54	8,702.96	8,608.84	94.12	92.465	
900.00	893.06	15,243.00	7,668.35	3.31	138.66	-0.04	1,844.58	4,879.54	8,611.22	8,516.64	94.58	91.043	
1,000.00	989.64	15,243.00	7,668.35	3.83	138.66	-0.04	1,844.58	4,879.54	8,518.31	8,423.28	95.03	89.640	
1,100.00	1,085.27	15,243.00	7,668.35	4.40	138.66	-0.05	1,844.58	4,879.54	8,424.31	8,328.86	95.45	88.259	
1,200.00	1,179.82	15,243.00	7,668.35	5.02	138.66	-0.05	1,844.58	4,879.54	8,329.30	8,233.45	95.85	86.900	
1,300.00	1,273.17	15,243.00	7,668.35	5.70	138.66	-0.06	1,844.58	4,879.54	8,233.35	8,137.13	96.22	85.566	
1,400.00	1,365.21	15,243.00	7,668.35	6.43	138.66	-0.07	1,844.58	4,879.54	8,136.57	8,040.00	96.57	84.258	
1,500.00	1,455.84	15,243.00	7,668.35	7.23	138.66	-0.08	1,844.58	4,879.54	8,039.02	7,942.14	96.88	82.976	
1,600.00	1,544.94	15,243.00	7,668.35	8.09	138.66	-0.09	1,844.58	4,879.54	7,940.82	7,843.65	97.17	81.723	
1,700.00	1,632.39	15,243.00	7,668.35	9.01	138.66	-0.11	1,844.58	4,879.54	7,842.05	7,744.64	97.42	80.500	
1,800.00	1,718.11	15,243.00	7,668.35	10.00	138.66	-0.15	1,844.58	4,879.54	7,742.82	7,645.19	97.63	79.308	
1,900.00	1,801.97	15,243.00	7,668.35	11.07	138.66	-0.22	1,844.58	4,879.54	7,643.24	7,545.43	97.81	78.147	
2,000.00	1,883.88	15,243.00	7,668.35	12.20	138.66	-0.42	1,844.58	4,879.54	7,543.40	7,445.46	97.94	77.019	
2,100.00	1,963.74	15,243.00	7,668.35	13.41	138.66	-3.70	1,844.58	4,879.54	7,443.43	7,345.39	98.04	75.926	
2,200.00	2,041.45	15,243.00	7,668.35	14.69	138.66	-179.44	1,844.58	4,879.54	7,343.44	7,245.35	98.09	74.867	
2,300.00	2,116.92	15,243.00	7,668.35	16.05	138.66	-179.74	1,844.58	4,879.54	7,243.56	7,145.47	98.09	73.845	
2,357.48	2,159.25	15,243.00	7,668.35	16.86	138.66	-179.80	1,844.58	4,879.54	7,186.25	7,088.18	98.07	73.273	
2,400.00	2,190.27	15,243.00	7,668.35	17.47	138.66	-179.80	1,844.58	4,879.54	7,143.89	7,045.84	98.06	72.855	
2,500.00	2,263.22	15,243.00	7,668.35	18.92	138.66	-179.80	1,844.58	4,879.54	7,044.28	6,946.26	98.02	71.867	
2,600.00	2,336.18	15,243.00	7,668.35	20.37	138.66	-179.80	1,844.58	4,879.54	6,944.68	6,846.70	97.98	70.878	
2,700.00	2,409.14	15,243.00	7,668.35	21.84	138.66	-179.80	1,844.58	4,879.54	6,845.08	6,747.14	97.94	69.887	
2,800.00	2,482.09	15,243.00	7,668.35	23.31	138.66	-179.80	1,844.58	4,879.54	6,745.51	6,647.60	97.91	68.895	
2,900.00	2,555.05	15,243.00	7,668.35	24.78	138.66	-179.80	1,844.58	4,879.54	6,645.94	6,548.06	97.88	67.902	
3,000.00	2,628.01	15,243.00	7,668.35	26.27	138.66	-179.80	1,844.58	4,879.54	6,546.39	6,448.54	97.84	66.908	
3,100.00	2,700.96	15,243.00	7,668.35	27.75	138.66	-179.80	1,844.58	4,879.54	6,446.85	6,349.04	97.81	65.912	
3,200.00	2,773.92	15,243.00	7,668.35	29.24	138.66	-179.80	1,844.58	4,879.54	6,347.32	6,249.54	97.78	64.916	
3,300.00	2,846.88	15,243.00	7,668.35	30.73	138.66	-179.80	1,844.58	4,879.54	6,247.81	6,150.07	97.75	63.919	
3,400.00	2,919.83	15,243.00	7,668.35	32.23	138.66	-179.80	1,844.58	4,879.54	6,148.32	6,050.60	97.71	62.921	
3,500.00	2,992.79	15,243.00	7,668.35	33.72	138.66	-179.80	1,844.58	4,879.54	6,048.84	5,951.16	97.68	61.923	
3,600.00	3,065.75	15,243.00	7,668.35	35.22	138.66	-179.80	1,844.58	4,879.54	5,949.38	5,851.73	97.65	60.924	
3,700.00	3,138.71	15,243.00	7,668.35	36.72	138.66	-179.80	1,844.58	4,879.54	5,849.94	5,752.32	97.62	59.925	
3,800.00	3,211.66	15,243.00	7,668.35	38.22	138.66	-179.80	1,844.58	4,879.54	5,750.52	5,652.93	97.59	58.926	
3,900.00	3,284.62	15,243.00	7,668.35	39.72	138.66	-179.80	1,844.58	4,879.54	5,651.12	5,553.56	97.56	57.927	
4,000.00	3,357.58	15,243.00	7,668.35	41.22	138.66	-179.80	1,844.58	4,879.54	5,551.74	5,454.22	97.52	56.928	
4,100.00	3,430.53	15,243.00	7,668.35	42.73	138.66	-179.80	1,844.58	4,879.54	5,452.38	5,354.89	97.49	55.929	
4,200.00	3,503.49	15,243.00	7,668.35	44.23	138.66	-179.80	1,844.58	4,879.54	5,353.05	5,255.60	97.45	54.930	
4,300.00	3,576.45	15,243.00	7,668.35	45.74	138.66	-179.80	1,844.58	4,879.54	5,253.74	5,156.32	97.42	53.931	
4,400.00	3,649.40	15,243.00	7,668.35	47.25	138.66	-179.80	1,844.58	4,879.54	5,154.46	5,057.08	97.38	52.933	
4,500.00	3,722.36	15,243.00	7,668.35	48.75	138.66	-179.80	1,844.58	4,879.54	5,055.21	4,957.87	97.34	51.936	
4,600.00	3,795.32	15,243.00	7,668.35	50.26	138.66	-179.80	1,844.58	4,879.54	4,955.98	4,858.69	97.29	50.939	
4,700.00	3,868.27	15,243.00	7,668.35	51.77	138.66	-179.80	1,844.58	4,879.54	4,856.79	4,759.55	97.25	49.943	
4,800.00	3,941.23	15,243.00	7,668.35	53.28	138.66	-179.80	1,844.58	4,879.54	4,757.64	4,660.44	97.20	48.948	
4,900.00	4,014.19	15,243.00	7,668.35	54.79	138.66	-179.80	1,844.58	4,879.54	4,658.51	4,561.37	97.15	47.954	
5,000.00	4,087.15	15,243.00	7,668.35	56.30	138.66	-179.80	1,844.58	4,879.54	4,559.43	4,462.34	97.09	46.960	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	15,243.00	7,668.35	57.81	138.66	-179.80	1,844.58	4,879.54	4,460.39	4,363.36	97.03	45.968	
5,200.00	4,233.06	15,243.00	7,668.35	59.32	138.66	-179.80	1,844.58	4,879.54	4,361.39	4,264.42	96.97	44.977	
5,300.00	4,306.02	15,243.00	7,668.35	60.83	138.66	-179.80	1,844.58	4,879.54	4,262.44	4,165.54	96.90	43.988	
5,400.00	4,378.97	15,243.00	7,668.35	62.34	138.66	-179.80	1,844.58	4,879.54	4,163.54	4,066.71	96.83	42.999	
5,500.00	4,451.93	15,243.00	7,668.35	63.85	138.66	-179.80	1,844.58	4,879.54	4,064.69	3,967.94	96.75	42.013	
5,600.00	4,524.89	15,243.00	7,668.35	65.36	138.66	-179.80	1,844.58	4,879.54	3,965.90	3,869.24	96.66	41.027	
5,700.00	4,597.84	15,243.00	7,668.35	66.88	138.66	-179.80	1,844.58	4,879.54	3,867.18	3,770.60	96.57	40.044	
5,800.00	4,670.80	15,243.00	7,668.35	68.39	138.66	-179.80	1,844.58	4,879.54	3,768.52	3,672.04	96.48	39.062	
5,900.00	4,743.76	15,243.00	7,668.35	69.90	138.66	-179.80	1,844.58	4,879.54	3,669.93	3,573.56	96.37	38.081	
6,000.00	4,816.71	15,243.00	7,668.35	71.41	138.66	-179.80	1,844.58	4,879.54	3,571.42	3,475.16	96.26	37.103	
6,100.00	4,889.67	15,243.00	7,668.35	72.93	138.66	-179.80	1,844.58	4,879.54	3,473.00	3,376.86	96.13	36.127	
6,200.00	4,962.63	15,243.00	7,668.35	74.44	138.66	-179.80	1,844.58	4,879.54	3,374.67	3,278.66	96.00	35.152	
6,300.00	5,035.59	15,243.00	7,668.35	75.95	138.66	-179.80	1,844.58	4,879.54	3,276.44	3,180.58	95.86	34.179	
6,400.00	5,108.54	15,243.00	7,668.35	77.47	138.66	-179.80	1,844.58	4,879.54	3,178.32	3,082.61	95.71	33.209	
6,500.00	5,181.50	15,243.00	7,668.35	78.98	138.66	-179.80	1,844.58	4,879.54	3,080.32	2,984.78	95.54	32.241	
6,600.00	5,254.46	15,243.00	7,668.35	80.49	138.66	-179.80	1,844.58	4,879.54	2,982.45	2,887.09	95.36	31.275	
6,700.00	5,327.41	15,243.00	7,668.35	82.01	138.66	-179.80	1,844.58	4,879.54	2,884.73	2,789.56	95.17	30.311	
6,800.00	5,400.37	15,243.00	7,668.35	83.52	138.66	-179.80	1,844.58	4,879.54	2,787.17	2,692.21	94.96	29.350	
6,900.00	5,473.33	15,243.00	7,668.35	85.04	138.66	-179.80	1,844.58	4,879.54	2,689.80	2,595.05	94.74	28.391	
7,000.00	5,546.28	15,243.00	7,668.35	86.55	138.66	-179.80	1,844.58	4,879.54	2,592.62	2,498.12	94.50	27.435	
7,100.00	5,619.24	15,243.00	7,668.35	88.06	138.66	-179.80	1,844.58	4,879.54	2,495.66	2,401.42	94.24	26.481	
7,200.00	5,692.20	15,243.00	7,668.35	89.58	138.66	-179.80	1,844.58	4,879.54	2,398.96	2,304.99	93.97	25.530	
7,300.00	5,765.15	15,243.00	7,668.35	91.09	138.66	-179.80	1,844.58	4,879.54	2,302.53	2,208.86	93.67	24.581	
7,400.00	5,838.11	15,243.00	7,668.35	92.61	138.66	-179.80	1,844.58	4,879.54	2,206.43	2,113.07	93.36	23.635	
7,500.00	5,911.07	15,243.00	7,668.35	94.12	138.66	-179.80	1,844.58	4,879.54	2,110.68	2,017.66	93.02	22.691	
7,600.00	5,984.03	15,243.00	7,668.35	95.64	138.66	-179.80	1,844.58	4,879.54	2,015.35	1,922.69	92.66	21.750	
7,700.00	6,056.98	15,243.00	7,668.35	97.15	138.66	-179.80	1,844.58	4,879.54	1,920.49	1,828.21	92.28	20.812	
7,800.00	6,129.94	15,243.00	7,668.35	98.67	138.66	-179.80	1,844.58	4,879.54	1,826.19	1,734.30	91.88	19.875	
7,900.00	6,202.90	15,243.00	7,668.35	100.18	138.66	-179.80	1,844.58	4,879.54	1,732.52	1,641.05	91.47	18.940	
8,000.00	6,275.85	15,243.00	7,668.35	101.70	138.66	-179.80	1,844.58	4,879.54	1,639.60	1,548.54	91.06	18.007	
8,100.00	6,348.81	15,243.00	7,668.35	103.21	138.66	-179.80	1,844.58	4,879.54	1,547.56	1,456.92	90.65	17.073	
8,200.00	6,421.77	15,243.00	7,668.35	104.73	138.66	-179.80	1,844.58	4,879.54	1,456.58	1,366.31	90.26	16.137	
8,300.00	6,494.72	15,243.00	7,668.35	106.24	138.66	-179.80	1,844.58	4,879.54	1,366.85	1,276.91	89.94	15.198	
8,400.00	6,567.68	15,243.00	7,668.35	107.76	138.66	-179.80	1,844.58	4,879.54	1,278.65	1,188.92	89.73	14.250	
8,500.00	6,640.64	15,243.00	7,668.35	109.27	138.66	-179.80	1,844.58	4,879.54	1,192.31	1,102.59	89.72	13.290	
8,600.00	6,713.59	15,243.00	7,668.35	110.79	138.66	-179.80	1,844.58	4,879.54	1,108.27	1,018.22	90.05	12.308	
8,700.00	6,786.55	15,243.00	7,668.35	112.30	138.66	-179.80	1,844.58	4,879.54	1,027.09	936.17	90.93	11.296	
8,800.00	6,859.51	15,243.00	7,668.35	113.82	138.66	-179.80	1,844.58	4,879.54	949.52	856.84	92.68	10.245	
8,900.00	6,932.46	15,227.50	7,668.23	115.33	138.39	-178.44	1,860.08	4,879.19	876.36	780.88	95.48	9.178	
9,000.00	7,005.42	15,205.35	7,668.06	116.85	138.00	-176.48	1,882.22	4,878.69	808.39	708.15	100.24	8.065	
9,104.89	7,081.95	15,182.76	7,667.89	118.44	137.61	-174.46	1,904.81	4,878.18	744.19	636.04	108.15	6.881	
9,150.00	7,115.15	15,175.28	7,667.85	119.12	137.48	-175.55	1,912.28	4,878.03	719.09	606.48	112.62	6.385	
9,200.00	7,152.46	15,170.56	7,667.83	119.86	137.40	-177.64	1,917.00	4,877.93	693.19	574.78	118.40	5.854	
9,250.00	7,190.04	15,169.74	7,667.82	120.57	137.38	179.40	1,917.82	4,877.91	669.80	544.80	125.00	5.358	
9,300.00	7,227.59	15,172.95	7,667.84	121.25	137.44	175.65	1,914.61	4,877.98	649.40	517.15	132.25	4.910	
9,350.00	7,264.83	15,180.31	7,667.88	121.89	137.57	171.26	1,907.26	4,878.13	632.38	492.46	139.93	4.519	
9,400.00	7,301.48	15,192.08	7,667.96	122.48	137.77	166.35	1,895.48	4,878.39	618.99	471.26	147.73	4.190	
9,450.00	7,337.26	15,208.53	7,668.09	123.01	138.06	161.02	1,879.04	4,878.76	609.33	453.98	155.35	3.922	
9,500.00	7,371.90	15,229.03	7,668.24	123.49	138.42	155.46	1,858.55	4,879.22	603.29	440.77	162.52	3.712	
9,550.00	7,405.13	15,243.00	7,668.35	123.91	138.66	150.62	1,844.58	4,879.54	600.72	431.05	169.67	3.541	
9,557.48	7,409.96	15,243.00	7,668.35	123.97	138.66	150.08	1,844.58	4,879.54	600.68	429.85	170.83	3.516 CC	
9,600.00	7,436.70	15,243.00	7,668.35	124.27	138.66	147.01	1,844.58	4,879.54	602.20	424.96	177.24	3.398	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	15,243.00	7,668.35	124.57	138.66	143.43	1,844.58	4,879.54	607.83	423.59	184.24	3.299	ES
9,700.00	7,493.91	15,243.00	7,668.35	124.81	138.66	139.84	1,844.58	4,879.54	617.46	426.97	190.49	3.241	
9,750.00	7,519.11	15,243.00	7,668.35	125.00	138.66	136.22	1,844.58	4,879.54	630.84	434.98	195.86	3.221	SF
9,800.00	7,541.79	15,243.00	7,668.35	125.12	138.66	132.55	1,844.58	4,879.54	647.64	447.37	200.27	3.234	
9,850.00	7,561.77	15,243.00	7,668.35	125.20	138.66	128.83	1,844.58	4,879.54	667.48	463.76	203.72	3.276	
9,900.00	7,578.90	15,243.00	7,668.35	125.23	138.66	125.06	1,844.58	4,879.54	689.95	483.72	206.23	3.346	
9,950.00	7,593.04	15,243.00	7,668.35	125.22	138.66	121.25	1,844.58	4,879.54	714.64	506.77	207.87	3.438	
10,000.00	7,604.09	15,243.00	7,668.35	125.17	138.66	117.44	1,844.58	4,879.54	741.15	532.43	208.72	3.551	
10,050.00	7,611.97	15,243.00	7,668.35	125.08	138.66	113.67	1,844.58	4,879.54	769.10	560.24	208.86	3.682	
10,100.00	7,616.61	15,243.00	7,668.35	124.97	138.66	110.00	1,844.58	4,879.54	798.15	589.76	208.39	3.830	
10,145.95	7,618.00	15,243.00	7,668.35	124.84	138.66	106.77	1,844.58	4,879.54	825.52	618.05	207.47	3.979	
10,200.00	7,618.00	15,243.00	7,668.35	124.69	138.66	106.77	1,844.58	4,879.54	859.09	653.09	206.00	4.170	
10,300.00	7,618.00	15,243.00	7,668.35	124.41	138.66	106.77	1,844.58	4,879.54	926.32	723.65	202.67	4.571	
10,400.00	7,618.00	15,243.00	7,668.35	124.14	138.66	106.77	1,844.58	4,879.54	999.06	800.12	198.94	5.022	
10,500.00	7,618.00	15,243.00	7,668.35	123.88	138.66	106.77	1,844.58	4,879.54	1,076.18	881.07	195.10	5.516	
10,600.00	7,618.00	15,243.00	7,668.35	123.63	138.66	106.77	1,844.58	4,879.54	1,156.80	965.45	191.36	6.045	
10,700.00	7,618.00	15,243.00	7,668.35	123.40	138.66	106.77	1,844.58	4,879.54	1,240.26	1,052.46	187.80	6.604	
10,800.00	7,618.00	15,243.00	7,668.35	123.18	138.66	106.77	1,844.58	4,879.54	1,326.00	1,141.52	184.48	7.188	
10,900.00	7,618.00	15,243.00	7,668.35	122.96	138.66	106.77	1,844.58	4,879.54	1,413.62	1,232.20	181.42	7.792	
11,000.00	7,618.00	15,243.00	7,668.35	122.76	138.66	106.77	1,844.58	4,879.54	1,502.78	1,324.16	178.62	8.413	
11,100.00	7,618.00	15,243.00	7,668.35	122.57	138.66	106.77	1,844.58	4,879.54	1,593.23	1,417.17	176.06	9.049	
11,200.00	7,618.00	15,243.00	7,668.35	122.39	138.66	106.77	1,844.58	4,879.54	1,684.77	1,511.03	173.74	9.697	
11,300.00	7,618.00	15,243.00	7,668.35	122.23	138.66	106.77	1,844.58	4,879.54	1,777.21	1,605.59	171.62	10.355	
11,400.00	7,618.00	15,243.00	7,668.35	122.07	138.66	106.77	1,844.58	4,879.54	1,870.43	1,700.73	169.70	11.022	
11,500.00	7,618.00	15,243.00	7,668.35	121.93	138.66	106.77	1,844.58	4,879.54	1,964.32	1,796.37	167.95	11.696	
11,600.00	7,618.00	15,243.00	7,668.35	121.79	138.66	106.77	1,844.58	4,879.54	2,058.79	1,892.43	166.36	12.376	
11,700.00	7,618.00	15,243.00	7,668.35	121.67	138.66	106.77	1,844.58	4,879.54	2,153.75	1,988.84	164.91	13.060	
11,800.00	7,618.00	15,243.00	7,668.35	121.56	138.66	106.77	1,844.58	4,879.54	2,249.15	2,085.57	163.58	13.749	
11,900.00	7,618.00	15,243.00	7,668.35	121.46	138.66	106.77	1,844.58	4,879.54	2,344.93	2,182.56	162.37	14.442	
12,000.00	7,618.00	15,243.00	7,668.35	121.38	138.66	106.77	1,844.58	4,879.54	2,441.06	2,279.79	161.27	15.137	
12,100.00	7,618.00	15,243.00	7,668.35	121.30	138.66	106.77	1,844.58	4,879.54	2,537.48	2,377.22	160.25	15.834	
12,200.00	7,618.00	15,243.00	7,668.35	121.24	138.66	106.77	1,844.58	4,879.54	2,634.17	2,474.84	159.32	16.533	
12,300.00	7,618.00	15,243.00	7,668.35	121.19	138.66	106.77	1,844.58	4,879.54	2,731.09	2,572.63	158.47	17.234	
12,400.00	7,618.00	15,243.00	7,668.35	121.16	138.66	106.77	1,844.58	4,879.54	2,828.24	2,670.56	157.68	17.936	
12,500.00	7,618.00	15,243.00	7,668.35	121.14	138.66	106.77	1,844.58	4,879.54	2,925.57	2,768.61	156.96	18.640	
12,600.00	7,618.00	15,243.00	7,668.35	121.13	138.66	106.77	1,844.58	4,879.54	3,023.08	2,866.79	156.29	19.343	
12,700.00	7,618.00	15,243.00	7,668.35	121.13	138.66	106.77	1,844.58	4,879.54	3,120.74	2,965.08	155.67	20.048	
12,800.00	7,618.00	15,243.00	7,668.35	121.15	138.66	106.77	1,844.58	4,879.54	3,218.55	3,063.46	155.09	20.753	
12,900.00	7,618.00	15,243.00	7,668.35	121.18	138.66	106.77	1,844.58	4,879.54	3,316.49	3,161.93	154.56	21.458	
13,000.00	7,618.00	15,243.00	7,668.35	121.23	138.66	106.77	1,844.58	4,879.54	3,414.55	3,260.49	154.07	22.163	
13,100.00	7,618.00	15,243.00	7,668.35	121.29	138.66	106.77	1,844.58	4,879.54	3,512.72	3,359.11	153.61	22.868	
13,200.00	7,618.00	15,243.00	7,668.35	121.37	138.66	106.77	1,844.58	4,879.54	3,610.99	3,457.81	153.18	23.574	
13,300.00	7,618.00	15,243.00	7,668.35	121.46	138.66	106.77	1,844.58	4,879.54	3,709.35	3,556.57	152.78	24.279	
13,400.00	7,618.00	15,243.00	7,668.35	121.57	138.66	106.77	1,844.58	4,879.54	3,807.80	3,655.39	152.41	24.984	
13,500.00	7,618.00	15,243.00	7,668.35	121.70	138.66	106.77	1,844.58	4,879.54	3,906.32	3,754.26	152.06	25.689	
13,600.00	7,618.00	15,243.00	7,668.35	121.84	138.66	106.77	1,844.58	4,879.54	4,004.92	3,853.18	151.74	26.394	
13,700.00	7,618.00	15,243.00	7,668.35	122.01	138.66	106.77	1,844.58	4,879.54	4,103.59	3,952.15	151.44	27.098	
13,800.00	7,618.00	15,243.00	7,668.35	122.19	138.66	106.77	1,844.58	4,879.54	4,202.32	4,051.17	151.15	27.802	
13,900.00	7,618.00	15,243.00	7,668.35	122.39	138.66	106.77	1,844.58	4,879.54	4,301.11	4,150.22	150.88	28.506	
14,000.00	7,618.00	15,243.00	7,668.35	122.62	138.66	106.77	1,844.58	4,879.54	4,399.95	4,249.32	150.63	29.210	
14,100.00	7,618.00	15,243.00	7,668.35	122.86	138.66	106.77	1,844.58	4,879.54	4,498.84	4,348.45	150.40	29.913	
14,200.00	7,618.00	15,243.00	7,668.35	123.12	138.66	106.77	1,844.58	4,879.54	4,597.79	4,447.61	150.18	30.616	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	15,243.00	7,668.35	123.41	138.66	106.77	1,844.58	4,879.54	4,696.77	4,546.81	149.97	31.319	
14,400.00	7,618.00	15,243.00	7,668.35	123.72	138.66	106.77	1,844.58	4,879.54	4,795.80	4,646.03	149.77	32.021	
14,500.00	7,618.00	15,243.00	7,668.35	124.06	138.66	106.77	1,844.58	4,879.54	4,894.87	4,745.28	149.59	32.723	
14,600.00	7,618.00	15,243.00	7,668.35	124.42	138.66	106.77	1,844.58	4,879.54	4,993.98	4,844.57	149.41	33.424	
14,700.00	7,618.00	15,243.00	7,668.35	124.80	138.66	106.77	1,844.58	4,879.54	5,093.12	4,943.87	149.25	34.125	
14,800.00	7,618.00	15,243.00	7,668.35	125.21	138.66	106.77	1,844.58	4,879.54	5,192.29	5,043.20	149.09	34.826	
14,900.00	7,618.00	15,243.00	7,668.35	125.65	138.66	106.77	1,844.58	4,879.54	5,291.50	5,142.55	148.94	35.527	
15,000.00	7,618.00	15,243.00	7,668.35	126.11	138.66	106.77	1,844.58	4,879.54	5,390.73	5,241.92	148.80	36.227	
15,100.00	7,618.00	15,243.00	7,668.35	126.61	138.66	106.77	1,844.58	4,879.54	5,489.99	5,341.32	148.67	36.927	
15,200.00	7,618.00	15,243.00	7,668.35	127.13	138.66	106.77	1,844.58	4,879.54	5,589.28	5,440.73	148.55	37.626	
15,300.00	7,618.00	15,243.00	7,668.35	127.68	138.66	106.77	1,844.58	4,879.54	5,688.59	5,540.16	148.43	38.325	
15,400.00	7,618.00	15,243.00	7,668.35	128.26	138.66	106.77	1,844.58	4,879.54	5,787.93	5,639.61	148.32	39.024	
15,500.00	7,618.00	15,243.00	7,668.35	128.87	138.66	106.77	1,844.58	4,879.54	5,887.29	5,739.08	148.21	39.722	
15,600.00	7,618.00	15,243.00	7,668.35	129.51	138.66	106.77	1,844.58	4,879.54	5,986.67	5,838.56	148.11	40.420	
15,700.00	7,618.00	15,243.00	7,668.35	130.18	138.66	106.77	1,844.58	4,879.54	6,086.07	5,938.05	148.02	41.117	
15,800.00	7,618.00	15,243.00	7,668.35	130.88	138.66	106.77	1,844.58	4,879.54	6,185.49	6,037.56	147.93	41.815	
15,900.00	7,618.00	15,243.00	7,668.35	131.61	138.66	106.77	1,844.58	4,879.54	6,284.93	6,137.09	147.84	42.512	
16,000.00	7,618.00	15,243.00	7,668.35	132.37	138.66	106.77	1,844.58	4,879.54	6,384.38	6,236.63	147.76	43.208	
16,100.00	7,618.00	15,243.00	7,668.35	133.17	138.66	106.77	1,844.58	4,879.54	6,483.86	6,336.18	147.68	43.904	
16,200.00	7,618.00	15,243.00	7,668.35	133.99	138.66	106.77	1,844.58	4,879.54	6,583.35	6,435.74	147.61	44.600	
16,300.00	7,618.00	15,243.00	7,668.35	134.84	138.66	106.77	1,844.58	4,879.54	6,682.85	6,535.31	147.54	45.296	
16,400.00	7,618.00	15,243.00	7,668.35	135.72	138.66	106.77	1,844.58	4,879.54	6,782.37	6,634.90	147.47	45.991	
16,500.00	7,618.00	15,243.00	7,668.35	136.63	138.66	106.77	1,844.58	4,879.54	6,881.90	6,734.49	147.41	46.686	
16,600.00	7,618.00	15,243.00	7,668.35	137.57	138.66	106.77	1,844.58	4,879.54	6,981.45	6,834.10	147.35	47.380	
16,700.00	7,618.00	15,243.00	7,668.35	138.54	138.66	106.77	1,844.58	4,879.54	7,081.01	6,933.71	147.29	48.074	
16,800.00	7,618.00	15,243.00	7,668.35	139.53	138.66	106.77	1,844.58	4,879.54	7,180.58	7,033.34	147.24	48.768	
16,900.00	7,618.00	15,243.00	7,668.35	140.55	138.66	106.77	1,844.58	4,879.54	7,280.16	7,132.97	147.19	49.462	
17,000.00	7,618.00	15,243.00	7,668.35	141.60	138.66	106.77	1,844.58	4,879.54	7,379.75	7,232.61	147.14	50.155	
17,100.00	7,618.00	15,243.00	7,668.35	142.67	138.66	106.77	1,844.58	4,879.54	7,479.36	7,332.27	147.09	50.848	
17,200.00	7,618.00	15,243.00	7,668.35	143.77	138.66	106.77	1,844.58	4,879.54	7,578.97	7,431.92	147.05	51.540	
17,300.00	7,618.00	15,243.00	7,668.35	144.88	138.66	106.77	1,844.58	4,879.54	7,678.60	7,531.59	147.01	52.232	
17,400.00	7,618.00	15,243.00	7,668.35	146.02	138.66	106.77	1,844.58	4,879.54	7,778.23	7,631.27	146.97	52.924	
17,500.00	7,618.00	15,243.00	7,668.35	147.19	138.66	106.77	1,844.58	4,879.54	7,877.88	7,730.95	146.93	53.616	
17,600.00	7,618.00	15,243.00	7,668.35	148.37	138.66	106.77	1,844.58	4,879.54	7,977.53	7,830.63	146.90	54.307	
17,700.00	7,618.00	15,243.00	7,668.35	149.57	138.66	106.77	1,844.58	4,879.54	8,077.19	7,930.33	146.86	54.998	
17,800.00	7,618.00	15,243.00	7,668.35	150.79	138.66	106.77	1,844.58	4,879.54	8,176.86	8,030.03	146.83	55.688	
17,900.00	7,618.00	15,243.00	7,668.35	152.03	138.66	106.77	1,844.58	4,879.54	8,276.54	8,129.74	146.80	56.379	
18,000.00	7,618.00	15,243.00	7,668.35	153.29	138.66	106.77	1,844.58	4,879.54	8,376.23	8,229.45	146.78	57.068	
18,100.00	7,618.00	15,243.00	7,668.35	154.57	138.66	106.77	1,844.58	4,879.54	8,475.92	8,329.17	146.75	57.758	
18,200.00	7,618.00	15,243.00	7,668.35	155.86	138.66	106.77	1,844.58	4,879.54	8,575.62	8,428.90	146.72	58.447	
18,300.00	7,618.00	15,243.00	7,668.35	157.17	138.66	106.77	1,844.58	4,879.54	8,675.33	8,528.63	146.70	59.136	
18,400.00	7,618.00	15,243.00	7,668.35	158.49	138.66	106.77	1,844.58	4,879.54	8,775.04	8,628.36	146.68	59.825	
18,500.00	7,618.00	15,243.00	7,668.35	159.82	138.66	106.77	1,844.58	4,879.54	8,874.76	8,728.10	146.66	60.513	
18,600.00	7,618.00	15,243.00	7,668.35	161.17	138.66	106.77	1,844.58	4,879.54	8,974.49	8,827.85	146.64	61.201	
18,700.00	7,618.00	15,243.00	7,668.35	162.54	138.66	106.77	1,844.58	4,879.54	9,074.22	8,927.60	146.62	61.888	
18,800.00	7,618.00	15,243.00	7,668.35	163.91	138.66	106.77	1,844.58	4,879.54	9,173.96	9,027.35	146.61	62.576	
18,900.00	7,618.00	15,243.00	7,668.35	165.30	138.66	106.77	1,844.58	4,879.54	9,273.70	9,127.11	146.59	63.262	
19,000.00	7,618.00	15,243.00	7,668.35	166.70	138.66	106.77	1,844.58	4,879.54	9,373.45	9,226.87	146.58	63.949	
19,100.00	7,618.00	15,243.00	7,668.35	168.10	138.66	106.77	1,844.58	4,879.54	9,473.21	9,326.64	146.56	64.635	
19,200.00	7,618.00	15,243.00	7,668.35	169.52	138.66	106.77	1,844.58	4,879.54	9,572.96	9,426.41	146.55	65.321	
19,300.00	7,618.00	15,243.00	7,668.35	170.95	138.66	106.77	1,844.58	4,879.54	9,672.73	9,526.19	146.54	66.007	
19,400.00	7,618.00	15,243.00	7,668.35	172.39	138.66	106.77	1,844.58	4,879.54	9,772.50	9,625.97	146.53	66.692	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,500.00	7,618.00	15,243.00	7,668.35	173.84	138.66	106.77	1,844.58	4,879.54	9,872.27	9,725.75	146.52	67.377	
19,600.00	7,618.00	15,243.00	7,668.35	175.30	138.66	106.77	1,844.58	4,879.54	9,972.05	9,825.54	146.52	68.061	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	65.33	1,824.04	3,971.27	8,859.42				
100.00	100.00	15,134.00	7,566.57	0.13	139.08	65.33	1,824.04	3,971.27	8,772.58	8,687.35	85.23	102.931	
200.00	200.00	15,134.00	7,566.57	0.49	139.08	65.33	1,824.04	3,971.27	8,686.01	8,600.41	85.60	101.475	
300.00	299.98	15,134.00	7,566.57	0.85	139.08	-4.24	1,824.04	3,971.27	8,598.87	8,512.87	86.00	99.984	
400.00	399.84	15,134.00	7,566.57	1.21	139.08	-4.53	1,824.04	3,971.27	8,510.33	8,423.90	86.43	98.469	
500.00	499.45	15,134.00	7,566.57	1.58	139.08	-4.87	1,824.04	3,971.27	8,420.46	8,333.62	86.84	96.961	
600.00	598.70	15,134.00	7,566.57	1.97	139.08	-5.26	1,824.04	3,971.27	8,329.33	8,242.07	87.25	95.462	
700.00	697.47	15,134.00	7,566.57	2.38	139.08	-5.72	1,824.04	3,971.27	8,237.00	8,149.35	87.65	93.978	
800.00	795.62	15,134.00	7,566.57	2.83	139.08	-6.27	1,824.04	3,971.27	8,143.55	8,055.52	88.03	92.512	
900.00	893.06	15,134.00	7,566.57	3.31	139.08	-6.93	1,824.04	3,971.27	8,049.06	7,960.68	88.39	91.065	
1,000.00	989.64	15,134.00	7,566.57	3.83	139.08	-7.75	1,824.04	3,971.27	7,953.61	7,864.89	88.73	89.641	
1,100.00	1,085.27	15,134.00	7,566.57	4.40	139.08	-8.78	1,824.04	3,971.27	7,857.29	7,768.24	89.04	88.241	
1,200.00	1,179.82	15,134.00	7,566.57	5.02	139.08	-10.12	1,824.04	3,971.27	7,760.16	7,670.83	89.33	86.868	
1,300.00	1,273.17	15,134.00	7,566.57	5.70	139.08	-11.92	1,824.04	3,971.27	7,662.34	7,572.75	89.59	85.522	
1,400.00	1,365.21	15,134.00	7,566.57	6.43	139.08	-14.47	1,824.04	3,971.27	7,563.91	7,474.09	89.83	84.206	
1,500.00	1,455.84	15,134.00	7,566.57	7.23	139.08	-18.32	1,824.04	3,971.27	7,464.98	7,374.95	90.03	82.921	
1,600.00	1,544.94	15,134.00	7,566.57	8.09	139.08	-24.70	1,824.04	3,971.27	7,365.63	7,275.44	90.19	81.668	
1,700.00	1,632.39	15,134.00	7,566.57	9.01	139.08	-36.80	1,824.04	3,971.27	7,265.99	7,175.67	90.32	80.449	
1,800.00	1,718.11	15,134.00	7,566.57	10.00	139.08	-63.03	1,824.04	3,971.27	7,166.16	7,075.75	90.41	79.264	
1,900.00	1,801.97	15,134.00	7,566.57	11.07	139.08	-107.13	1,824.04	3,971.27	7,066.26	6,975.80	90.46	78.115	
2,000.00	1,883.88	15,134.00	7,566.57	12.20	139.08	-138.07	1,824.04	3,971.27	6,966.40	6,875.93	90.47	77.002	
2,100.00	1,963.74	15,134.00	7,566.57	13.41	139.08	-152.31	1,824.04	3,971.27	6,866.72	6,776.29	90.44	75.927	
2,200.00	2,041.45	15,134.00	7,566.57	14.69	139.08	-159.56	1,824.04	3,971.27	6,767.36	6,676.99	90.37	74.888	
2,300.00	2,116.92	15,134.00	7,566.57	16.05	139.08	-163.82	1,824.04	3,971.27	6,668.43	6,578.18	90.25	73.888	
2,357.48	2,159.25	15,134.00	7,566.57	16.86	139.08	-165.55	1,824.04	3,971.27	6,611.82	6,521.66	90.16	73.331	
2,400.00	2,190.27	15,134.00	7,566.57	17.47	139.08	-165.55	1,824.04	3,971.27	6,570.04	6,479.94	90.10	72.921	
2,500.00	2,263.22	15,134.00	7,566.57	18.92	139.08	-165.55	1,824.04	3,971.27	6,471.79	6,381.85	89.95	71.950	
2,600.00	2,336.18	15,134.00	7,566.57	20.37	139.08	-165.55	1,824.04	3,971.27	6,373.61	6,283.80	89.80	70.974	
2,700.00	2,409.14	15,134.00	7,566.57	21.84	139.08	-165.55	1,824.04	3,971.27	6,275.48	6,185.82	89.66	69.994	
2,800.00	2,482.09	15,134.00	7,566.57	23.31	139.08	-165.55	1,824.04	3,971.27	6,177.40	6,087.89	89.52	69.010	
2,900.00	2,555.05	15,134.00	7,566.57	24.78	139.08	-165.55	1,824.04	3,971.27	6,079.40	5,990.02	89.38	68.021	
3,000.00	2,628.01	15,134.00	7,566.57	26.27	139.08	-165.55	1,824.04	3,971.27	5,981.45	5,892.22	89.24	67.029	
3,100.00	2,700.96	15,134.00	7,566.57	27.75	139.08	-165.55	1,824.04	3,971.27	5,883.58	5,794.48	89.10	66.033	
3,200.00	2,773.92	15,134.00	7,566.57	29.24	139.08	-165.55	1,824.04	3,971.27	5,785.78	5,696.81	88.97	65.033	
3,300.00	2,846.88	15,134.00	7,566.57	30.73	139.08	-165.55	1,824.04	3,971.27	5,688.06	5,599.22	88.83	64.031	
3,400.00	2,919.83	15,134.00	7,566.57	32.23	139.08	-165.55	1,824.04	3,971.27	5,590.41	5,501.71	88.70	63.026	
3,500.00	2,992.79	15,134.00	7,566.57	33.72	139.08	-165.55	1,824.04	3,971.27	5,492.85	5,404.29	88.57	62.018	
3,600.00	3,065.75	15,134.00	7,566.57	35.22	139.08	-165.55	1,824.04	3,971.27	5,395.38	5,306.95	88.44	61.008	
3,700.00	3,138.71	15,134.00	7,566.57	36.72	139.08	-165.55	1,824.04	3,971.27	5,298.01	5,209.70	88.31	59.995	
3,800.00	3,211.66	15,134.00	7,566.57	38.22	139.08	-165.55	1,824.04	3,971.27	5,200.73	5,112.56	88.18	58.981	
3,900.00	3,284.62	15,134.00	7,566.57	39.72	139.08	-165.55	1,824.04	3,971.27	5,103.56	5,015.52	88.04	57.966	
4,000.00	3,357.58	15,134.00	7,566.57	41.22	139.08	-165.55	1,824.04	3,971.27	5,006.51	4,918.59	87.91	56.949	
4,100.00	3,430.53	15,134.00	7,566.57	42.73	139.08	-165.55	1,824.04	3,971.27	4,909.57	4,821.79	87.78	55.930	
4,200.00	3,503.49	15,134.00	7,566.57	44.23	139.08	-165.55	1,824.04	3,971.27	4,812.75	4,725.10	87.65	54.911	
4,300.00	3,576.45	15,134.00	7,566.57	45.74	139.08	-165.55	1,824.04	3,971.27	4,716.07	4,628.56	87.51	53.891	
4,400.00	3,649.40	15,134.00	7,566.57	47.25	139.08	-165.55	1,824.04	3,971.27	4,619.53	4,532.15	87.37	52.871	
4,500.00	3,722.36	15,134.00	7,566.57	48.75	139.08	-165.55	1,824.04	3,971.27	4,523.14	4,435.90	87.24	51.850	
4,600.00	3,795.32	15,134.00	7,566.57	50.26	139.08	-165.55	1,824.04	3,971.27	4,426.91	4,339.81	87.10	50.828	
4,700.00	3,868.27	15,134.00	7,566.57	51.77	139.08	-165.55	1,824.04	3,971.27	4,330.85	4,243.89	86.95	49.807	
4,800.00	3,941.23	15,134.00	7,566.57	53.28	139.08	-165.55	1,824.04	3,971.27	4,234.97	4,148.16	86.81	48.785	
4,900.00	4,014.19	15,134.00	7,566.57	54.79	139.08	-165.55	1,824.04	3,971.27	4,139.29	4,052.62	86.66	47.763	
5,000.00	4,087.15	15,134.00	7,566.57	56.30	139.08	-165.55	1,824.04	3,971.27	4,043.81	3,957.30	86.51	46.742	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	15,134.00	7,566.57	57.81	139.08	-165.55	1,824.04	3,971.27	3,948.56	3,862.20	86.36	45.720	
5,200.00	4,233.06	15,134.00	7,566.57	59.32	139.08	-165.55	1,824.04	3,971.27	3,853.56	3,767.34	86.21	44.699	
5,300.00	4,306.02	15,134.00	7,566.57	60.83	139.08	-165.55	1,824.04	3,971.27	3,758.81	3,672.75	86.06	43.678	
5,400.00	4,378.97	15,134.00	7,566.57	62.34	139.08	-165.55	1,824.04	3,971.27	3,664.34	3,578.43	85.90	42.657	
5,500.00	4,451.93	15,134.00	7,566.57	63.85	139.08	-165.55	1,824.04	3,971.27	3,570.17	3,484.42	85.75	41.635	
5,600.00	4,524.89	15,134.00	7,566.57	65.36	139.08	-165.55	1,824.04	3,971.27	3,476.32	3,390.73	85.59	40.614	
5,700.00	4,597.84	15,134.00	7,566.57	66.88	139.08	-165.55	1,824.04	3,971.27	3,382.83	3,297.39	85.44	39.592	
5,800.00	4,670.80	15,134.00	7,566.57	68.39	139.08	-165.55	1,824.04	3,971.27	3,289.72	3,204.43	85.29	38.570	
5,900.00	4,743.76	15,134.00	7,566.57	69.90	139.08	-165.55	1,824.04	3,971.27	3,197.03	3,111.88	85.15	37.547	
6,000.00	4,816.71	15,134.00	7,566.57	71.41	139.08	-165.55	1,824.04	3,971.27	3,104.79	3,019.78	85.01	36.522	
6,100.00	4,889.67	15,134.00	7,566.57	72.93	139.08	-165.55	1,824.04	3,971.27	3,013.05	2,928.16	84.89	35.495	
6,200.00	4,962.63	15,134.00	7,566.57	74.44	139.08	-165.55	1,824.04	3,971.27	2,921.85	2,837.07	84.78	34.465	
6,300.00	5,035.59	15,134.00	7,566.57	75.95	139.08	-165.55	1,824.04	3,971.27	2,831.24	2,746.56	84.69	33.432	
6,400.00	5,108.54	15,134.00	7,566.57	77.47	139.08	-165.55	1,824.04	3,971.27	2,741.29	2,656.67	84.62	32.395	
6,500.00	5,181.50	15,134.00	7,566.57	78.98	139.08	-165.55	1,824.04	3,971.27	2,652.06	2,567.46	84.59	31.351	
6,600.00	5,254.46	15,134.00	7,566.57	80.49	139.08	-165.55	1,824.04	3,971.27	2,563.62	2,479.01	84.61	30.300	
6,700.00	5,327.41	15,134.00	7,566.57	82.01	139.08	-165.55	1,824.04	3,971.27	2,476.06	2,391.38	84.68	29.240	
6,800.00	5,400.37	15,134.00	7,566.57	83.52	139.08	-165.55	1,824.04	3,971.27	2,389.48	2,304.65	84.83	28.168	
6,900.00	5,473.33	15,134.00	7,566.57	85.04	139.08	-165.55	1,824.04	3,971.27	2,303.98	2,218.91	85.07	27.083	
7,000.00	5,546.28	15,134.00	7,566.57	86.55	139.08	-165.55	1,824.04	3,971.27	2,219.70	2,134.26	85.44	25.981	
7,100.00	5,619.24	15,134.00	7,566.57	88.06	139.08	-165.55	1,824.04	3,971.27	2,136.77	2,050.82	85.95	24.859	
7,200.00	5,692.20	15,134.00	7,566.57	89.58	139.08	-165.55	1,824.04	3,971.27	2,055.37	1,968.70	86.67	23.716	
7,300.00	5,765.15	15,134.00	7,566.57	91.09	139.08	-165.55	1,824.04	3,971.27	1,975.67	1,888.05	87.62	22.548	
7,400.00	5,838.11	15,134.00	7,566.57	92.61	139.08	-165.55	1,824.04	3,971.27	1,897.89	1,809.02	88.87	21.356	
7,500.00	5,911.07	15,134.00	7,566.57	94.12	139.08	-165.55	1,824.04	3,971.27	1,822.28	1,731.80	90.49	20.139	
7,600.00	5,984.03	15,134.00	7,566.57	95.64	139.08	-165.55	1,824.04	3,971.27	1,749.13	1,656.59	92.54	18.900	
7,700.00	6,056.98	15,134.00	7,566.57	97.15	139.08	-165.55	1,824.04	3,971.27	1,678.75	1,583.63	95.12	17.649	
7,800.00	6,129.94	15,134.00	7,566.57	98.67	139.08	-165.55	1,824.04	3,971.27	1,611.50	1,513.21	98.29	16.395	
7,900.00	6,202.90	15,134.00	7,566.57	100.18	139.08	-165.55	1,824.04	3,971.27	1,547.79	1,445.66	102.12	15.156	
8,000.00	6,275.85	15,134.00	7,566.57	101.70	139.08	-165.55	1,824.04	3,971.27	1,488.08	1,381.41	106.67	13.951	
8,100.00	6,348.81	15,134.00	7,566.57	103.21	139.08	-165.55	1,824.04	3,971.27	1,432.87	1,320.93	111.94	12.800	
8,200.00	6,421.77	15,134.00	7,566.57	104.73	139.08	-165.55	1,824.04	3,971.27	1,382.69	1,264.78	117.91	11.727	
8,300.00	6,494.72	15,134.00	7,566.57	106.24	139.08	-165.55	1,824.04	3,971.27	1,338.12	1,213.62	124.51	10.747	
8,400.00	6,567.68	15,134.00	7,566.57	107.76	139.08	-165.55	1,824.04	3,971.27	1,299.73	1,168.13	131.60	9.876	
8,500.00	6,640.64	15,134.00	7,566.57	109.27	139.08	-165.55	1,824.04	3,971.27	1,268.09	1,129.08	139.01	9.123	
8,600.00	6,713.59	15,134.00	7,566.57	110.79	139.08	-165.55	1,824.04	3,971.27	1,243.69	1,097.19	146.51	8.489	
8,700.00	6,786.55	15,134.00	7,566.57	112.30	139.08	-165.55	1,824.04	3,971.27	1,226.99	1,073.14	153.85	7.975	
8,800.00	6,859.51	15,122.80	7,566.33	113.82	138.88	-165.03	1,835.23	3,971.10	1,218.24	1,057.12	161.12	7.561	
8,861.61	6,904.46	15,109.52	7,566.03	114.75	138.65	-164.42	1,848.50	3,970.90	1,216.75	1,051.23	165.52	7.351	CC
8,900.00	6,932.46	15,101.25	7,565.85	115.33	138.51	-164.04	1,856.77	3,970.77	1,217.33	1,049.19	168.14	7.240	ES
9,000.00	7,005.42	15,079.71	7,565.37	116.85	138.13	-163.05	1,878.31	3,970.44	1,224.24	1,049.79	174.44	7.018	
9,104.89	7,081.95	15,056.83	7,564.89	118.44	137.74	-162.00	1,901.18	3,970.11	1,239.73	1,059.59	180.14	6.882	
9,150.00	7,115.15	15,048.55	7,564.73	119.12	137.59	-167.34	1,909.45	3,970.00	1,248.99	1,066.68	182.31	6.851	
9,200.00	7,152.46	15,043.48	7,564.64	119.86	137.51	-173.90	1,914.52	3,969.93	1,261.15	1,076.63	184.52	6.835	SF
9,250.00	7,190.04	15,042.85	7,564.62	120.57	137.49	178.97	1,915.15	3,969.92	1,275.21	1,088.70	186.51	6.837	
9,300.00	7,227.59	15,046.76	7,564.70	121.25	137.56	171.45	1,911.24	3,969.97	1,291.01	1,102.75	188.26	6.857	
9,350.00	7,264.83	15,055.26	7,564.86	121.89	137.71	163.70	1,902.74	3,970.09	1,308.32	1,118.55	189.77	6.894	
9,400.00	7,301.48	15,068.39	7,565.13	122.48	137.94	155.90	1,889.62	3,970.27	1,326.88	1,135.85	191.03	6.946	
9,450.00	7,337.26	15,085.62	7,565.50	123.01	138.24	148.23	1,872.40	3,970.53	1,346.37	1,154.29	192.09	7.009	
9,500.00	7,371.90	15,106.40	7,565.96	123.49	138.60	140.84	1,851.63	3,970.85	1,366.46	1,173.49	192.97	7.081	
9,550.00	7,405.13	15,131.06	7,566.51	123.91	139.03	133.81	1,826.97	3,971.23	1,386.80	1,193.11	193.69	7.160	
9,600.00	7,436.70	15,134.00	7,566.57	124.27	139.08	128.10	1,824.04	3,971.27	1,407.25	1,212.08	195.18	7.210	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	15,134.00	7,566.57	124.57	139.08	122.94	1,824.04	3,971.27	1,427.92	1,231.19	196.73	7.258	
9,700.00	7,493.91	15,134.00	7,566.57	124.81	139.08	118.22	1,824.04	3,971.27	1,448.65	1,250.39	198.26	7.307	
9,750.00	7,519.11	15,134.00	7,566.57	125.00	139.08	113.92	1,824.04	3,971.27	1,469.28	1,269.52	199.75	7.355	
9,800.00	7,541.79	15,134.00	7,566.57	125.12	139.08	110.02	1,824.04	3,971.27	1,489.65	1,288.44	201.21	7.403	
9,850.00	7,561.77	15,134.00	7,566.57	125.20	139.08	106.53	1,824.04	3,971.27	1,509.64	1,307.00	202.63	7.450	
9,900.00	7,578.90	15,134.00	7,566.57	125.23	139.08	103.41	1,824.04	3,971.27	1,529.10	1,325.09	204.01	7.495	
9,950.00	7,593.04	15,134.00	7,566.57	125.22	139.08	100.66	1,824.04	3,971.27	1,547.90	1,342.57	205.33	7.539	
10,000.00	7,604.09	15,134.00	7,566.57	125.17	139.08	98.27	1,824.04	3,971.27	1,565.94	1,359.35	206.59	7.580	
10,050.00	7,611.97	15,134.00	7,566.57	125.08	139.08	96.24	1,824.04	3,971.27	1,583.11	1,375.32	207.78	7.619	
10,100.00	7,616.61	15,134.00	7,566.57	124.97	139.08	94.55	1,824.04	3,971.27	1,599.29	1,390.40	208.90	7.656	
10,145.95	7,618.00	15,134.00	7,566.57	124.84	139.08	93.29	1,824.04	3,971.27	1,613.23	1,403.39	209.84	7.688	
10,200.00	7,618.00	15,134.00	7,566.57	124.69	139.08	93.29	1,824.04	3,971.27	1,629.88	1,419.07	210.81	7.732	
10,300.00	7,618.00	15,134.00	7,566.57	124.41	139.08	93.29	1,824.04	3,971.27	1,664.88	1,452.72	212.16	7.847	
10,400.00	7,618.00	15,134.00	7,566.57	124.14	139.08	93.29	1,824.04	3,971.27	1,705.03	1,492.07	212.96	8.006	
10,500.00	7,618.00	15,134.00	7,566.57	123.88	139.08	93.29	1,824.04	3,971.27	1,749.99	1,536.72	213.27	8.206	
10,600.00	7,618.00	15,134.00	7,566.57	123.63	139.08	93.29	1,824.04	3,971.27	1,799.38	1,586.25	213.14	8.442	
10,700.00	7,618.00	15,134.00	7,566.57	123.40	139.08	93.29	1,824.04	3,971.27	1,852.86	1,640.23	212.63	8.714	
10,800.00	7,618.00	15,134.00	7,566.57	123.18	139.08	93.29	1,824.04	3,971.27	1,910.08	1,698.27	211.81	9.018	
10,900.00	7,618.00	15,134.00	7,566.57	122.96	139.08	93.29	1,824.04	3,971.27	1,970.72	1,759.98	210.74	9.351	
11,000.00	7,618.00	15,134.00	7,566.57	122.76	139.08	93.29	1,824.04	3,971.27	2,034.47	1,825.00	209.47	9.713	
11,100.00	7,618.00	15,134.00	7,566.57	122.57	139.08	93.29	1,824.04	3,971.27	2,101.04	1,893.00	208.04	10.099	
11,200.00	7,618.00	15,134.00	7,566.57	122.39	139.08	93.29	1,824.04	3,971.27	2,170.18	1,963.68	206.50	10.509	
11,300.00	7,618.00	15,134.00	7,566.57	122.23	139.08	93.29	1,824.04	3,971.27	2,241.65	2,036.77	204.88	10.941	
11,400.00	7,618.00	15,134.00	7,566.57	122.07	139.08	93.29	1,824.04	3,971.27	2,315.24	2,112.03	203.21	11.393	
11,500.00	7,618.00	15,134.00	7,566.57	121.93	139.08	93.29	1,824.04	3,971.27	2,390.74	2,189.24	201.51	11.864	
11,600.00	7,618.00	15,134.00	7,566.57	121.79	139.08	93.29	1,824.04	3,971.27	2,467.99	2,268.19	199.80	12.353	
11,700.00	7,618.00	15,134.00	7,566.57	121.67	139.08	93.29	1,824.04	3,971.27	2,546.82	2,348.73	198.09	12.857	
11,800.00	7,618.00	15,134.00	7,566.57	121.56	139.08	93.29	1,824.04	3,971.27	2,627.09	2,430.69	196.40	13.376	
11,900.00	7,618.00	15,134.00	7,566.57	121.46	139.08	93.29	1,824.04	3,971.27	2,708.68	2,513.93	194.74	13.909	
12,000.00	7,618.00	15,134.00	7,566.57	121.38	139.08	93.29	1,824.04	3,971.27	2,791.46	2,598.35	193.11	14.455	
12,100.00	7,618.00	15,134.00	7,566.57	121.30	139.08	93.29	1,824.04	3,971.27	2,875.34	2,683.81	191.53	15.013	
12,200.00	7,618.00	15,134.00	7,566.57	121.24	139.08	93.29	1,824.04	3,971.27	2,960.22	2,770.24	189.98	15.582	
12,300.00	7,618.00	15,134.00	7,566.57	121.19	139.08	93.29	1,824.04	3,971.27	3,046.02	2,857.54	188.48	16.161	
12,400.00	7,618.00	15,134.00	7,566.57	121.16	139.08	93.29	1,824.04	3,971.27	3,132.66	2,945.63	187.02	16.750	
12,500.00	7,618.00	15,134.00	7,566.57	121.14	139.08	93.29	1,824.04	3,971.27	3,220.07	3,034.46	185.61	17.348	
12,600.00	7,618.00	15,134.00	7,566.57	121.13	139.08	93.29	1,824.04	3,971.27	3,308.20	3,123.95	184.25	17.955	
12,700.00	7,618.00	15,134.00	7,566.57	121.13	139.08	93.29	1,824.04	3,971.27	3,396.98	3,214.05	182.94	18.569	
12,800.00	7,618.00	15,134.00	7,566.57	121.15	139.08	93.29	1,824.04	3,971.27	3,486.37	3,304.71	181.67	19.191	
12,900.00	7,618.00	15,134.00	7,566.57	121.18	139.08	93.29	1,824.04	3,971.27	3,576.33	3,395.88	180.45	19.819	
13,000.00	7,618.00	15,134.00	7,566.57	121.23	139.08	93.29	1,824.04	3,971.27	3,666.80	3,487.54	179.27	20.454	
13,100.00	7,618.00	15,134.00	7,566.57	121.29	139.08	93.29	1,824.04	3,971.27	3,757.76	3,579.63	178.13	21.095	
13,200.00	7,618.00	15,134.00	7,566.57	121.37	139.08	93.29	1,824.04	3,971.27	3,849.17	3,672.13	177.04	21.742	
13,300.00	7,618.00	15,134.00	7,566.57	121.46	139.08	93.29	1,824.04	3,971.27	3,940.99	3,765.00	175.99	22.394	
13,400.00	7,618.00	15,134.00	7,566.57	121.57	139.08	93.29	1,824.04	3,971.27	4,033.20	3,858.23	174.97	23.050	
13,500.00	7,618.00	15,134.00	7,566.57	121.70	139.08	93.29	1,824.04	3,971.27	4,125.78	3,951.78	174.00	23.712	
13,600.00	7,618.00	15,134.00	7,566.57	121.84	139.08	93.29	1,824.04	3,971.27	4,218.69	4,045.63	173.06	24.377	
13,700.00	7,618.00	15,134.00	7,566.57	122.01	139.08	93.29	1,824.04	3,971.27	4,311.92	4,139.77	172.15	25.047	
13,800.00	7,618.00	15,134.00	7,566.57	122.19	139.08	93.29	1,824.04	3,971.27	4,405.45	4,234.17	171.28	25.720	
13,900.00	7,618.00	15,134.00	7,566.57	122.39	139.08	93.29	1,824.04	3,971.27	4,499.26	4,328.81	170.44	26.397	
14,000.00	7,618.00	15,134.00	7,566.57	122.62	139.08	93.29	1,824.04	3,971.27	4,593.33	4,423.69	169.64	27.078	
14,100.00	7,618.00	15,134.00	7,566.57	122.86	139.08	93.29	1,824.04	3,971.27	4,687.64	4,518.78	168.86	27.761	
14,200.00	7,618.00	15,134.00	7,566.57	123.12	139.08	93.29	1,824.04	3,971.27	4,782.18	4,614.08	168.10	28.448	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	15,134.00	7,566.57	123.41	139.08	93.29	1,824.04	3,971.27	4,876.95	4,709.56	167.38	29.137	
14,400.00	7,618.00	15,134.00	7,566.57	123.72	139.08	93.29	1,824.04	3,971.27	4,971.91	4,805.23	166.68	29.829	
14,500.00	7,618.00	15,134.00	7,566.57	124.06	139.08	93.29	1,824.04	3,971.27	5,067.07	4,901.06	166.01	30.523	
14,600.00	7,618.00	15,134.00	7,566.57	124.42	139.08	93.29	1,824.04	3,971.27	5,162.42	4,997.06	165.36	31.219	
14,700.00	7,618.00	15,134.00	7,566.57	124.80	139.08	93.29	1,824.04	3,971.27	5,257.93	5,093.20	164.73	31.918	
14,800.00	7,618.00	15,134.00	7,566.57	125.21	139.08	93.29	1,824.04	3,971.27	5,353.62	5,189.49	164.13	32.619	
14,900.00	7,618.00	15,134.00	7,566.57	125.65	139.08	93.29	1,824.04	3,971.27	5,449.45	5,285.91	163.54	33.321	
15,000.00	7,618.00	15,134.00	7,566.57	126.11	139.08	93.29	1,824.04	3,971.27	5,545.43	5,382.45	162.98	34.025	
15,100.00	7,618.00	15,134.00	7,566.57	126.61	139.08	93.29	1,824.04	3,971.27	5,641.56	5,479.12	162.43	34.731	
15,200.00	7,618.00	15,134.00	7,566.57	127.13	139.08	93.29	1,824.04	3,971.27	5,737.81	5,575.90	161.91	35.439	
15,300.00	7,618.00	15,134.00	7,566.57	127.68	139.08	93.29	1,824.04	3,971.27	5,834.19	5,672.79	161.40	36.148	
15,400.00	7,618.00	15,134.00	7,566.57	128.26	139.08	93.29	1,824.04	3,971.27	5,930.69	5,769.79	160.90	36.858	
15,500.00	7,618.00	15,134.00	7,566.57	128.87	139.08	93.29	1,824.04	3,971.27	6,027.31	5,866.88	160.43	37.570	
15,600.00	7,618.00	15,134.00	7,566.57	129.51	139.08	93.29	1,824.04	3,971.27	6,124.03	5,964.06	159.97	38.283	
15,700.00	7,618.00	15,134.00	7,566.57	130.18	139.08	93.29	1,824.04	3,971.27	6,220.86	6,061.34	159.52	38.997	
15,800.00	7,618.00	15,134.00	7,566.57	130.88	139.08	93.29	1,824.04	3,971.27	6,317.78	6,158.69	159.09	39.712	
15,900.00	7,618.00	15,134.00	7,566.57	131.61	139.08	93.29	1,824.04	3,971.27	6,414.80	6,256.13	158.67	40.428	
16,000.00	7,618.00	15,134.00	7,566.57	132.37	139.08	93.29	1,824.04	3,971.27	6,511.91	6,353.65	158.27	41.145	
16,100.00	7,618.00	15,134.00	7,566.57	133.17	139.08	93.29	1,824.04	3,971.27	6,609.11	6,451.23	157.88	41.863	
16,200.00	7,618.00	15,134.00	7,566.57	133.99	139.08	93.29	1,824.04	3,971.27	6,706.39	6,548.89	157.50	42.581	
16,300.00	7,618.00	15,134.00	7,566.57	134.84	139.08	93.29	1,824.04	3,971.27	6,803.75	6,646.62	157.13	43.301	
16,400.00	7,618.00	15,134.00	7,566.57	135.72	139.08	93.29	1,824.04	3,971.27	6,901.18	6,744.41	156.77	44.021	
16,500.00	7,618.00	15,134.00	7,566.57	136.63	139.08	93.29	1,824.04	3,971.27	6,998.69	6,842.26	156.43	44.741	
16,600.00	7,618.00	15,134.00	7,566.57	137.57	139.08	93.29	1,824.04	3,971.27	7,096.26	6,940.17	156.09	45.463	
16,700.00	7,618.00	15,134.00	7,566.57	138.54	139.08	93.29	1,824.04	3,971.27	7,193.90	7,038.14	155.77	46.184	
16,800.00	7,618.00	15,134.00	7,566.57	139.53	139.08	93.29	1,824.04	3,971.27	7,291.61	7,136.16	155.45	46.907	
16,900.00	7,618.00	15,134.00	7,566.57	140.55	139.08	93.29	1,824.04	3,971.27	7,389.38	7,234.23	155.14	47.629	
17,000.00	7,618.00	15,134.00	7,566.57	141.60	139.08	93.29	1,824.04	3,971.27	7,487.20	7,332.36	154.85	48.353	
17,100.00	7,618.00	15,134.00	7,566.57	142.67	139.08	93.29	1,824.04	3,971.27	7,585.09	7,430.53	154.56	49.076	
17,200.00	7,618.00	15,134.00	7,566.57	143.77	139.08	93.29	1,824.04	3,971.27	7,683.02	7,528.75	154.28	49.800	
17,300.00	7,618.00	15,134.00	7,566.57	144.88	139.08	93.29	1,824.04	3,971.27	7,781.01	7,627.01	154.00	50.524	
17,400.00	7,618.00	15,134.00	7,566.57	146.02	139.08	93.29	1,824.04	3,971.27	7,879.05	7,725.31	153.74	51.249	
17,500.00	7,618.00	15,134.00	7,566.57	147.19	139.08	93.29	1,824.04	3,971.27	7,977.14	7,823.66	153.48	51.974	
17,600.00	7,618.00	15,134.00	7,566.57	148.37	139.08	93.29	1,824.04	3,971.27	8,075.28	7,922.05	153.23	52.699	
17,700.00	7,618.00	15,134.00	7,566.57	149.57	139.08	93.29	1,824.04	3,971.27	8,173.46	8,020.47	152.99	53.424	
17,800.00	7,618.00	15,134.00	7,566.57	150.79	139.08	93.29	1,824.04	3,971.27	8,271.69	8,118.93	152.76	54.150	
17,900.00	7,618.00	15,134.00	7,566.57	152.03	139.08	93.29	1,824.04	3,971.27	8,369.95	8,217.43	152.53	54.875	
18,000.00	7,618.00	15,134.00	7,566.57	153.29	139.08	93.29	1,824.04	3,971.27	8,468.26	8,315.96	152.30	55.601	
18,100.00	7,618.00	15,134.00	7,566.57	154.57	139.08	93.29	1,824.04	3,971.27	8,566.61	8,414.52	152.09	56.327	
18,200.00	7,618.00	15,134.00	7,566.57	155.86	139.08	93.29	1,824.04	3,971.27	8,664.99	8,513.11	151.88	57.053	
18,300.00	7,618.00	15,134.00	7,566.57	157.17	139.08	93.29	1,824.04	3,971.27	8,763.41	8,611.74	151.67	57.779	
18,400.00	7,618.00	15,134.00	7,566.57	158.49	139.08	93.29	1,824.04	3,971.27	8,861.87	8,710.39	151.47	58.505	
18,500.00	7,618.00	15,134.00	7,566.57	159.82	139.08	93.29	1,824.04	3,971.27	8,960.36	8,809.08	151.28	59.231	
18,600.00	7,618.00	15,134.00	7,566.57	161.17	139.08	93.29	1,824.04	3,971.27	9,058.88	8,907.79	151.09	59.957	
18,700.00	7,618.00	15,134.00	7,566.57	162.54	139.08	93.29	1,824.04	3,971.27	9,157.44	9,006.53	150.91	60.683	
18,800.00	7,618.00	15,134.00	7,566.57	163.91	139.08	93.29	1,824.04	3,971.27	9,256.02	9,105.30	150.73	61.409	
18,900.00	7,618.00	15,134.00	7,566.57	165.30	139.08	93.29	1,824.04	3,971.27	9,354.64	9,204.09	150.55	62.135	
19,000.00	7,618.00	15,134.00	7,566.57	166.70	139.08	93.29	1,824.04	3,971.27	9,453.29	9,302.90	150.38	62.861	
19,100.00	7,618.00	15,134.00	7,566.57	168.10	139.08	93.29	1,824.04	3,971.27	9,551.96	9,401.74	150.22	63.587	
19,200.00	7,618.00	15,134.00	7,566.57	169.52	139.08	93.29	1,824.04	3,971.27	9,650.66	9,500.60	150.06	64.312	
19,300.00	7,618.00	15,134.00	7,566.57	170.95	139.08	93.29	1,824.04	3,971.27	9,749.39	9,599.49	149.90	65.038	
19,400.00	7,618.00	15,134.00	7,566.57	172.39	139.08	93.29	1,824.04	3,971.27	9,848.14	9,698.39	149.75	65.763	

Anticollision Report

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

Survey Program: 16-MWD OWSG

Offset Site Error: 0.00 usft

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
19,500.00	7,618.00	15,134.00	7,566.57	173.84	139.08	93.29	1,824.04	3,971.27	9,946.92	9,797.32	149.60	66.489	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	71.20	1,855.89	5,450.09	9,817.68				
100.00	100.00	15,352.00	7,829.29	0.13	138.31	71.20	1,855.89	5,450.09	9,736.85	9,642.95	93.90	103.692	
200.00	200.00	15,352.00	7,829.29	0.49	138.31	71.20	1,855.89	5,450.09	9,656.39	9,562.05	94.34	102.355	
300.00	299.98	15,352.00	7,829.29	0.85	138.31	1.97	1,855.89	5,450.09	9,575.26	9,480.43	94.83	100.973	
400.00	399.84	15,352.00	7,829.29	1.21	138.31	2.08	1,855.89	5,450.09	9,492.48	9,397.13	95.35	99.558	
500.00	499.45	15,352.00	7,829.29	1.58	138.31	2.19	1,855.89	5,450.09	9,408.10	9,312.23	95.86	98.140	
600.00	598.70	15,352.00	7,829.29	1.97	138.31	2.33	1,855.89	5,450.09	9,322.18	9,225.80	96.38	96.725	
700.00	697.47	15,352.00	7,829.29	2.38	138.31	2.48	1,855.89	5,450.09	9,234.79	9,137.90	96.88	95.318	
800.00	795.62	15,352.00	7,829.29	2.83	138.31	2.65	1,855.89	5,450.09	9,145.99	9,048.61	97.38	93.922	
900.00	893.06	15,352.00	7,829.29	3.31	138.31	2.85	1,855.89	5,450.09	9,055.86	8,958.00	97.86	92.539	
1,000.00	989.64	15,352.00	7,829.29	3.83	138.31	3.08	1,855.89	5,450.09	8,964.45	8,866.13	98.33	91.171	
1,100.00	1,085.27	15,352.00	7,829.29	4.40	138.31	3.36	1,855.89	5,450.09	8,871.86	8,773.08	98.77	89.821	
1,200.00	1,179.82	15,352.00	7,829.29	5.02	138.31	3.69	1,855.89	5,450.09	8,778.14	8,678.94	99.20	88.491	
1,300.00	1,273.17	15,352.00	7,829.29	5.70	138.31	4.09	1,855.89	5,450.09	8,683.39	8,583.79	99.60	87.181	
1,400.00	1,365.21	15,352.00	7,829.29	6.43	138.31	4.59	1,855.89	5,450.09	8,587.69	8,487.70	99.98	85.893	
1,500.00	1,455.84	15,352.00	7,829.29	7.23	138.31	5.23	1,855.89	5,450.09	8,491.11	8,390.78	100.33	84.629	
1,600.00	1,544.94	15,352.00	7,829.29	8.09	138.31	6.06	1,855.89	5,450.09	8,393.76	8,293.10	100.66	83.389	
1,700.00	1,632.39	15,352.00	7,829.29	9.01	138.31	7.21	1,855.89	5,450.09	8,295.73	8,194.78	100.95	82.175	
1,800.00	1,718.11	15,352.00	7,829.29	10.00	138.31	8.89	1,855.89	5,450.09	8,197.11	8,095.89	101.21	80.988	
1,900.00	1,801.97	15,352.00	7,829.29	11.07	138.31	11.53	1,855.89	5,450.09	8,098.00	7,996.55	101.44	79.829	
2,000.00	1,883.88	15,352.00	7,829.29	12.20	138.31	16.29	1,855.89	5,450.09	7,998.51	7,896.87	101.63	78.699	
2,100.00	1,963.74	15,352.00	7,829.29	13.41	138.31	27.09	1,855.89	5,450.09	7,898.74	7,796.95	101.79	77.599	
2,200.00	2,041.45	15,352.00	7,829.29	14.69	138.31	63.23	1,855.89	5,450.09	7,798.82	7,696.91	101.91	76.530	
2,300.00	2,116.92	15,352.00	7,829.29	16.05	138.31	132.86	1,855.89	5,450.09	7,698.86	7,596.87	101.98	75.493	
2,357.48	2,159.25	15,352.00	7,829.29	16.86	138.31	150.15	1,855.89	5,450.09	7,641.42	7,539.42	102.01	74.912	
2,400.00	2,190.27	15,352.00	7,829.29	17.47	138.31	150.15	1,855.89	5,450.09	7,598.96	7,496.94	102.02	74.486	
2,500.00	2,263.22	15,352.00	7,829.29	18.92	138.31	150.15	1,855.89	5,450.09	7,499.08	7,397.03	102.05	73.482	
2,600.00	2,336.18	15,352.00	7,829.29	20.37	138.31	150.15	1,855.89	5,450.09	7,399.21	7,297.12	102.09	72.477	
2,700.00	2,409.14	15,352.00	7,829.29	21.84	138.31	150.15	1,855.89	5,450.09	7,299.35	7,197.22	102.13	71.471	
2,800.00	2,482.09	15,352.00	7,829.29	23.31	138.31	150.15	1,855.89	5,450.09	7,199.48	7,097.31	102.17	70.463	
2,900.00	2,555.05	15,352.00	7,829.29	24.78	138.31	150.15	1,855.89	5,450.09	7,099.62	6,997.41	102.22	69.455	
3,000.00	2,628.01	15,352.00	7,829.29	26.27	138.31	150.15	1,855.89	5,450.09	6,999.77	6,897.50	102.27	68.446	
3,100.00	2,700.96	15,352.00	7,829.29	27.75	138.31	150.15	1,855.89	5,450.09	6,899.92	6,797.60	102.32	67.436	
3,200.00	2,773.92	15,352.00	7,829.29	29.24	138.31	150.15	1,855.89	5,450.09	6,800.07	6,697.70	102.37	66.426	
3,300.00	2,846.88	15,352.00	7,829.29	30.73	138.31	150.15	1,855.89	5,450.09	6,700.23	6,597.80	102.43	65.415	
3,400.00	2,919.83	15,352.00	7,829.29	32.23	138.31	150.15	1,855.89	5,450.09	6,600.39	6,497.91	102.48	64.404	
3,500.00	2,992.79	15,352.00	7,829.29	33.72	138.31	150.15	1,855.89	5,450.09	6,500.56	6,398.01	102.55	63.392	
3,600.00	3,065.75	15,352.00	7,829.29	35.22	138.31	150.15	1,855.89	5,450.09	6,400.73	6,298.13	102.61	62.380	
3,700.00	3,138.71	15,352.00	7,829.29	36.72	138.31	150.15	1,855.89	5,450.09	6,300.91	6,198.24	102.67	61.368	
3,800.00	3,211.66	15,352.00	7,829.29	38.22	138.31	150.15	1,855.89	5,450.09	6,201.10	6,098.36	102.74	60.357	
3,900.00	3,284.62	15,352.00	7,829.29	39.72	138.31	150.15	1,855.89	5,450.09	6,101.29	5,998.48	102.81	59.345	
4,000.00	3,357.58	15,352.00	7,829.29	41.22	138.31	150.15	1,855.89	5,450.09	6,001.48	5,898.60	102.88	58.333	
4,100.00	3,430.53	15,352.00	7,829.29	42.73	138.31	150.15	1,855.89	5,450.09	5,901.69	5,798.73	102.96	57.322	
4,200.00	3,503.49	15,352.00	7,829.29	44.23	138.31	150.15	1,855.89	5,450.09	5,801.90	5,698.86	103.03	56.311	
4,300.00	3,576.45	15,352.00	7,829.29	45.74	138.31	150.15	1,855.89	5,450.09	5,702.11	5,599.00	103.11	55.301	
4,400.00	3,649.40	15,352.00	7,829.29	47.25	138.31	150.15	1,855.89	5,450.09	5,602.34	5,499.15	103.19	54.291	
4,500.00	3,722.36	15,352.00	7,829.29	48.75	138.31	150.15	1,855.89	5,450.09	5,502.57	5,399.30	103.27	53.282	
4,600.00	3,795.32	15,352.00	7,829.29	50.26	138.31	150.15	1,855.89	5,450.09	5,402.82	5,299.46	103.36	52.274	
4,700.00	3,868.27	15,352.00	7,829.29	51.77	138.31	150.15	1,855.89	5,450.09	5,303.07	5,199.62	103.44	51.266	
4,800.00	3,941.23	15,352.00	7,829.29	53.28	138.31	150.15	1,855.89	5,450.09	5,203.33	5,099.80	103.53	50.259	
4,900.00	4,014.19	15,352.00	7,829.29	54.79	138.31	150.15	1,855.89	5,450.09	5,103.60	4,999.98	103.62	49.254	
5,000.00	4,087.15	15,352.00	7,829.29	56.30	138.31	150.15	1,855.89	5,450.09	5,003.88	4,900.17	103.71	48.249	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	15,352.00	7,829.29	57.81	138.31	150.15	1,855.89	5,450.09	4,904.17	4,800.37	103.80	47.245	
5,200.00	4,233.06	15,352.00	7,829.29	59.32	138.31	150.15	1,855.89	5,450.09	4,804.48	4,700.58	103.90	46.242	
5,300.00	4,306.02	15,352.00	7,829.29	60.83	138.31	150.15	1,855.89	5,450.09	4,704.80	4,600.80	103.99	45.241	
5,400.00	4,378.97	15,352.00	7,829.29	62.34	138.31	150.15	1,855.89	5,450.09	4,605.13	4,501.04	104.09	44.241	
5,500.00	4,451.93	15,352.00	7,829.29	63.85	138.31	150.15	1,855.89	5,450.09	4,505.48	4,401.29	104.19	43.242	
5,600.00	4,524.89	15,352.00	7,829.29	65.36	138.31	150.15	1,855.89	5,450.09	4,405.84	4,301.55	104.29	42.245	
5,700.00	4,597.84	15,352.00	7,829.29	66.88	138.31	150.15	1,855.89	5,450.09	4,306.22	4,201.82	104.40	41.248	
5,800.00	4,670.80	15,352.00	7,829.29	68.39	138.31	150.15	1,855.89	5,450.09	4,206.62	4,102.12	104.50	40.254	
5,900.00	4,743.76	15,352.00	7,829.29	69.90	138.31	150.15	1,855.89	5,450.09	4,107.04	4,002.43	104.61	39.261	
6,000.00	4,816.71	15,352.00	7,829.29	71.41	138.31	150.15	1,855.89	5,450.09	4,007.47	3,902.76	104.72	38.270	
6,100.00	4,889.67	15,352.00	7,829.29	72.93	138.31	150.15	1,855.89	5,450.09	3,907.93	3,803.11	104.83	37.280	
6,200.00	4,962.63	15,352.00	7,829.29	74.44	138.31	150.15	1,855.89	5,450.09	3,808.42	3,703.48	104.94	36.292	
6,300.00	5,035.59	15,352.00	7,829.29	75.95	138.31	150.15	1,855.89	5,450.09	3,708.93	3,603.88	105.05	35.305	
6,400.00	5,108.54	15,352.00	7,829.29	77.47	138.31	150.15	1,855.89	5,450.09	3,609.47	3,504.30	105.17	34.320	
6,500.00	5,181.50	15,352.00	7,829.29	78.98	138.31	150.15	1,855.89	5,450.09	3,510.04	3,404.75	105.29	33.338	
6,600.00	5,254.46	15,352.00	7,829.29	80.49	138.31	150.15	1,855.89	5,450.09	3,410.64	3,305.23	105.41	32.357	
6,700.00	5,327.41	15,352.00	7,829.29	82.01	138.31	150.15	1,855.89	5,450.09	3,311.28	3,205.75	105.53	31.377	
6,800.00	5,400.37	15,352.00	7,829.29	83.52	138.31	150.15	1,855.89	5,450.09	3,211.96	3,106.30	105.66	30.400	
6,900.00	5,473.33	15,352.00	7,829.29	85.04	138.31	150.15	1,855.89	5,450.09	3,112.68	3,006.89	105.78	29.425	
7,000.00	5,546.28	15,352.00	7,829.29	86.55	138.31	150.15	1,855.89	5,450.09	3,013.45	2,907.53	105.92	28.451	
7,100.00	5,619.24	15,352.00	7,829.29	88.06	138.31	150.15	1,855.89	5,450.09	2,914.27	2,808.22	106.05	27.480	
7,200.00	5,692.20	15,352.00	7,829.29	89.58	138.31	150.15	1,855.89	5,450.09	2,815.15	2,708.96	106.19	26.510	
7,300.00	5,765.15	15,352.00	7,829.29	91.09	138.31	150.15	1,855.89	5,450.09	2,716.10	2,609.76	106.33	25.543	
7,400.00	5,838.11	15,352.00	7,829.29	92.61	138.31	150.15	1,855.89	5,450.09	2,617.11	2,510.63	106.48	24.578	
7,500.00	5,911.07	15,352.00	7,829.29	94.12	138.31	150.15	1,855.89	5,450.09	2,518.21	2,411.57	106.64	23.615	
7,600.00	5,984.03	15,352.00	7,829.29	95.64	138.31	150.15	1,855.89	5,450.09	2,419.40	2,312.60	106.80	22.654	
7,700.00	6,056.98	15,352.00	7,829.29	97.15	138.31	150.15	1,855.89	5,450.09	2,320.69	2,213.72	106.97	21.695	
7,800.00	6,129.94	15,352.00	7,829.29	98.67	138.31	150.15	1,855.89	5,450.09	2,222.09	2,114.95	107.15	20.739	
7,900.00	6,202.90	15,352.00	7,829.29	100.18	138.31	150.15	1,855.89	5,450.09	2,123.63	2,016.29	107.34	19.785	
8,000.00	6,275.85	15,352.00	7,829.29	101.70	138.31	150.15	1,855.89	5,450.09	2,025.31	1,917.78	107.54	18.833	
8,100.00	6,348.81	15,352.00	7,829.29	103.21	138.31	150.15	1,855.89	5,450.09	1,927.17	1,819.42	107.76	17.885	
8,200.00	6,421.77	15,352.00	7,829.29	104.73	138.31	150.15	1,855.89	5,450.09	1,829.24	1,721.24	107.99	16.939	
8,300.00	6,494.72	15,352.00	7,829.29	106.24	138.31	150.15	1,855.89	5,450.09	1,731.53	1,623.29	108.25	15.996	
8,400.00	6,567.68	15,352.00	7,829.29	107.76	138.31	150.15	1,855.89	5,450.09	1,634.11	1,525.58	108.53	15.057	
8,500.00	6,640.64	15,352.00	7,829.29	109.27	138.31	150.15	1,855.89	5,450.09	1,537.01	1,428.17	108.84	14.122	
8,600.00	6,713.59	15,352.00	7,829.29	110.79	138.31	150.15	1,855.89	5,450.09	1,440.32	1,331.13	109.19	13.191	
8,700.00	6,786.55	15,352.00	7,829.29	112.30	138.31	150.15	1,855.89	5,450.09	1,344.10	1,234.52	109.58	12.266	
8,800.00	6,859.51	15,354.14	7,829.34	113.82	138.34	149.93	1,853.75	5,450.09	1,248.48	1,138.29	110.20	11.329	
8,900.00	6,932.46	15,331.57	7,828.84	115.33	137.95	152.32	1,876.32	5,450.10	1,153.43	1,044.61	108.82	10.600	
9,000.00	7,005.42	15,308.99	7,828.34	116.85	137.56	154.91	1,898.89	5,450.12	1,058.81	951.57	107.23	9.874	
9,104.89	7,081.95	15,286.53	7,827.84	118.44	137.17	157.71	1,921.34	5,450.14	960.16	854.73	105.44	9.106	
9,150.00	7,115.15	15,278.79	7,827.68	119.12	137.04	164.85	1,929.08	5,450.17	917.66	813.06	104.60	8.773	
9,200.00	7,152.46	15,273.85	7,827.57	119.86	136.95	174.54	1,934.02	5,450.19	870.18	766.63	103.56	8.403	
9,250.00	7,190.04	15,272.87	7,827.55	120.57	136.94	-175.92	1,935.00	5,450.19	822.73	720.32	102.41	8.033	
9,300.00	7,227.59	15,275.90	7,827.62	121.25	136.99	-168.64	1,931.96	5,450.18	775.70	674.51	101.19	7.666	
9,350.00	7,264.83	15,283.03	7,827.77	121.89	137.11	-164.31	1,924.84	5,450.15	729.52	629.60	99.92	7.301	
9,400.00	7,301.48	15,301.99	7,828.01	122.48	137.44	-162.45	1,913.87	5,450.13	684.61	585.90	98.71	6.935	
9,450.00	7,337.26	15,310.25	7,828.37	123.01	137.58	-162.52	1,897.63	5,450.12	641.39	543.85	97.54	6.575	
9,500.00	7,371.90	15,330.55	7,828.82	123.49	137.93	-163.72	1,877.33	5,450.11	600.23	503.64	96.59	6.214	
9,550.00	7,405.13	15,354.75	7,829.35	123.91	138.35	-165.62	1,853.14	5,450.09	561.51	465.65	95.86	5.858	
9,600.00	7,436.70	15,352.00	7,829.29	124.27	138.31	-165.41	1,855.89	5,450.09	526.46	432.63	93.82	5.611	
9,650.00	7,466.36	15,352.00	7,829.29	124.57	138.31	-165.99	1,855.89	5,450.09	496.58	402.08	94.50	5.255	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,700.00	7,493.91	15,352.00	7,829.29	124.81	138.31	-166.94	1,855.89	5,450.09	473.12	374.84	98.28	4.814	
9,750.00	7,519.11	15,352.00	7,829.29	125.00	138.31	-168.15	1,855.89	5,450.09	457.26	352.50	104.76	4.365	
9,800.00	7,541.79	15,352.00	7,829.29	125.12	138.31	-169.59	1,855.89	5,450.09	449.91	337.05	112.86	3.986	
9,815.86	7,548.43	15,352.00	7,829.29	125.15	138.31	-170.09	1,855.89	5,450.09	449.46	333.89	115.57	3.889	CC
9,850.00	7,561.77	15,352.00	7,829.29	125.20	138.31	-171.25	1,855.89	5,450.09	451.57	330.18	121.39	3.720	ES
9,900.00	7,578.90	15,352.00	7,829.29	125.23	138.31	-173.18	1,855.89	5,450.09	462.11	332.78	129.33	3.573	
9,950.00	7,593.04	15,352.00	7,829.29	125.22	138.31	-175.44	1,855.89	5,450.09	480.88	344.88	136.00	3.536	SF
10,000.00	7,604.09	15,352.00	7,829.29	125.17	138.31	-178.14	1,855.89	5,450.09	506.83	365.70	141.13	3.591	
10,050.00	7,611.97	15,352.00	7,829.29	125.08	138.31	178.56	1,855.89	5,450.09	538.74	394.00	144.74	3.722	
10,100.00	7,616.61	15,352.00	7,829.29	124.97	138.31	174.43	1,855.89	5,450.09	575.41	428.36	147.05	3.913	
10,145.95	7,618.00	15,352.00	7,829.29	124.84	138.31	169.62	1,855.89	5,450.09	612.35	464.11	148.24	4.131	
10,200.00	7,618.00	15,352.00	7,829.29	124.69	138.31	169.62	1,855.89	5,450.09	657.99	508.94	149.05	4.415	
10,300.00	7,618.00	15,352.00	7,829.29	124.41	138.31	169.62	1,855.89	5,450.09	745.41	595.44	149.98	4.970	
10,400.00	7,618.00	15,352.00	7,829.29	124.14	138.31	169.62	1,855.89	5,450.09	835.66	685.19	150.47	5.554	
10,500.00	7,618.00	15,352.00	7,829.29	123.88	138.31	169.62	1,855.89	5,450.09	927.91	777.19	150.72	6.156	
10,600.00	7,618.00	15,352.00	7,829.29	123.63	138.31	169.62	1,855.89	5,450.09	1,021.61	870.77	150.85	6.772	
10,700.00	7,618.00	15,352.00	7,829.29	123.40	138.31	169.62	1,855.89	5,450.09	1,116.42	965.51	150.91	7.398	
10,800.00	7,618.00	15,352.00	7,829.29	123.18	138.31	169.62	1,855.89	5,450.09	1,212.05	1,061.13	150.93	8.031	
10,900.00	7,618.00	15,352.00	7,829.29	122.96	138.31	169.62	1,855.89	5,450.09	1,308.34	1,157.42	150.92	8.669	
11,000.00	7,618.00	15,352.00	7,829.29	122.76	138.31	169.62	1,855.89	5,450.09	1,405.15	1,254.24	150.91	9.311	
11,100.00	7,618.00	15,352.00	7,829.29	122.57	138.31	169.62	1,855.89	5,450.09	1,502.37	1,351.49	150.89	9.957	
11,200.00	7,618.00	15,352.00	7,829.29	122.39	138.31	169.62	1,855.89	5,450.09	1,599.94	1,449.08	150.86	10.605	
11,300.00	7,618.00	15,352.00	7,829.29	122.23	138.31	169.62	1,855.89	5,450.09	1,697.79	1,546.95	150.84	11.256	
11,400.00	7,618.00	15,352.00	7,829.29	122.07	138.31	169.62	1,855.89	5,450.09	1,795.88	1,645.07	150.81	11.908	
11,500.00	7,618.00	15,352.00	7,829.29	121.93	138.31	169.62	1,855.89	5,450.09	1,894.17	1,743.38	150.79	12.562	
11,600.00	7,618.00	15,352.00	7,829.29	121.79	138.31	169.62	1,855.89	5,450.09	1,992.63	1,841.86	150.77	13.216	
11,700.00	7,618.00	15,352.00	7,829.29	121.67	138.31	169.62	1,855.89	5,450.09	2,091.23	1,940.48	150.75	13.872	
11,800.00	7,618.00	15,352.00	7,829.29	121.56	138.31	169.62	1,855.89	5,450.09	2,189.96	2,039.23	150.73	14.529	
11,900.00	7,618.00	15,352.00	7,829.29	121.46	138.31	169.62	1,855.89	5,450.09	2,288.80	2,138.09	150.71	15.187	
12,000.00	7,618.00	15,352.00	7,829.29	121.38	138.31	169.62	1,855.89	5,450.09	2,387.74	2,237.05	150.69	15.845	
12,100.00	7,618.00	15,352.00	7,829.29	121.30	138.31	169.62	1,855.89	5,450.09	2,486.76	2,336.09	150.68	16.504	
12,200.00	7,618.00	15,352.00	7,829.29	121.24	138.31	169.62	1,855.89	5,450.09	2,585.86	2,435.20	150.66	17.163	
12,300.00	7,618.00	15,352.00	7,829.29	121.19	138.31	169.62	1,855.89	5,450.09	2,685.03	2,534.37	150.65	17.823	
12,400.00	7,618.00	15,352.00	7,829.29	121.16	138.31	169.62	1,855.89	5,450.09	2,784.25	2,633.61	150.64	18.483	
12,500.00	7,618.00	15,352.00	7,829.29	121.14	138.31	169.62	1,855.89	5,450.09	2,883.53	2,732.90	150.63	19.143	
12,600.00	7,618.00	15,352.00	7,829.29	121.13	138.31	169.62	1,855.89	5,450.09	2,982.85	2,832.24	150.62	19.804	
12,700.00	7,618.00	15,352.00	7,829.29	121.13	138.31	169.62	1,855.89	5,450.09	3,082.22	2,931.61	150.61	20.465	
12,800.00	7,618.00	15,352.00	7,829.29	121.15	138.31	169.62	1,855.89	5,450.09	3,181.63	3,031.03	150.60	21.126	
12,900.00	7,618.00	15,352.00	7,829.29	121.18	138.31	169.62	1,855.89	5,450.09	3,281.08	3,130.48	150.59	21.787	
13,000.00	7,618.00	15,352.00	7,829.29	121.23	138.31	169.62	1,855.89	5,450.09	3,380.56	3,229.97	150.59	22.449	
13,100.00	7,618.00	15,352.00	7,829.29	121.29	138.31	169.62	1,855.89	5,450.09	3,480.06	3,329.48	150.58	23.111	
13,200.00	7,618.00	15,352.00	7,829.29	121.37	138.31	169.62	1,855.89	5,450.09	3,579.60	3,429.02	150.58	23.772	
13,300.00	7,618.00	15,352.00	7,829.29	121.46	138.31	169.62	1,855.89	5,450.09	3,679.16	3,528.59	150.57	24.434	
13,400.00	7,618.00	15,352.00	7,829.29	121.57	138.31	169.62	1,855.89	5,450.09	3,778.74	3,628.17	150.57	25.096	
13,500.00	7,618.00	15,352.00	7,829.29	121.70	138.31	169.62	1,855.89	5,450.09	3,878.35	3,727.78	150.57	25.758	
13,600.00	7,618.00	15,352.00	7,829.29	121.84	138.31	169.62	1,855.89	5,450.09	3,977.97	3,827.41	150.57	26.420	
13,700.00	7,618.00	15,352.00	7,829.29	122.01	138.31	169.62	1,855.89	5,450.09	4,077.62	3,927.05	150.56	27.082	
13,800.00	7,618.00	15,352.00	7,829.29	122.19	138.31	169.62	1,855.89	5,450.09	4,177.28	4,026.72	150.56	27.744	
13,900.00	7,618.00	15,352.00	7,829.29	122.39	138.31	169.62	1,855.89	5,450.09	4,276.95	4,126.39	150.56	28.407	
14,000.00	7,618.00	15,352.00	7,829.29	122.62	138.31	169.62	1,855.89	5,450.09	4,376.65	4,226.08	150.56	29.069	
14,100.00	7,618.00	15,352.00	7,829.29	122.86	138.31	169.62	1,855.89	5,450.09	4,476.35	4,325.79	150.56	29.731	
14,200.00	7,618.00	15,352.00	7,829.29	123.12	138.31	169.62	1,855.89	5,450.09	4,576.07	4,425.51	150.56	30.393	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	15,352.00	7,829.29	123.41	138.31	169.62	1,855.89	5,450.09	4,675.80	4,525.23	150.56	31.055	
14,400.00	7,618.00	15,352.00	7,829.29	123.72	138.31	169.62	1,855.89	5,450.09	4,775.54	4,624.97	150.57	31.717	
14,500.00	7,618.00	15,352.00	7,829.29	124.06	138.31	169.62	1,855.89	5,450.09	4,875.29	4,724.72	150.57	32.380	
14,600.00	7,618.00	15,352.00	7,829.29	124.42	138.31	169.62	1,855.89	5,450.09	4,975.05	4,824.48	150.57	33.042	
14,700.00	7,618.00	15,352.00	7,829.29	124.80	138.31	169.62	1,855.89	5,450.09	5,074.82	4,924.25	150.57	33.704	
14,800.00	7,618.00	15,352.00	7,829.29	125.21	138.31	169.62	1,855.89	5,450.09	5,174.60	5,024.03	150.58	34.365	
14,900.00	7,618.00	15,352.00	7,829.29	125.65	138.31	169.62	1,855.89	5,450.09	5,274.39	5,123.81	150.58	35.027	
15,000.00	7,618.00	15,352.00	7,829.29	126.11	138.31	169.62	1,855.89	5,450.09	5,374.19	5,223.60	150.58	35.689	
15,100.00	7,618.00	15,352.00	7,829.29	126.61	138.31	169.62	1,855.89	5,450.09	5,473.99	5,323.40	150.59	36.351	
15,200.00	7,618.00	15,352.00	7,829.29	127.13	138.31	169.62	1,855.89	5,450.09	5,573.80	5,423.21	150.59	37.013	
15,300.00	7,618.00	15,352.00	7,829.29	127.68	138.31	169.62	1,855.89	5,450.09	5,673.62	5,523.02	150.60	37.674	
15,400.00	7,618.00	15,352.00	7,829.29	128.26	138.31	169.62	1,855.89	5,450.09	5,773.44	5,622.84	150.60	38.336	
15,500.00	7,618.00	15,352.00	7,829.29	128.87	138.31	169.62	1,855.89	5,450.09	5,873.27	5,722.66	150.61	38.997	
15,600.00	7,618.00	15,352.00	7,829.29	129.51	138.31	169.62	1,855.89	5,450.09	5,973.11	5,822.49	150.61	39.658	
15,700.00	7,618.00	15,352.00	7,829.29	130.18	138.31	169.62	1,855.89	5,450.09	6,072.95	5,922.33	150.62	40.320	
15,800.00	7,618.00	15,352.00	7,829.29	130.88	138.31	169.62	1,855.89	5,450.09	6,172.79	6,022.17	150.63	40.981	
15,900.00	7,618.00	15,352.00	7,829.29	131.61	138.31	169.62	1,855.89	5,450.09	6,272.64	6,122.01	150.63	41.642	
16,000.00	7,618.00	15,352.00	7,829.29	132.37	138.31	169.62	1,855.89	5,450.09	6,372.50	6,221.86	150.64	42.303	
16,100.00	7,618.00	15,352.00	7,829.29	133.17	138.31	169.62	1,855.89	5,450.09	6,472.36	6,321.71	150.65	42.964	
16,200.00	7,618.00	15,352.00	7,829.29	133.99	138.31	169.62	1,855.89	5,450.09	6,572.22	6,421.57	150.66	43.624	
16,300.00	7,618.00	15,352.00	7,829.29	134.84	138.31	169.62	1,855.89	5,450.09	6,672.09	6,521.43	150.66	44.285	
16,400.00	7,618.00	15,352.00	7,829.29	135.72	138.31	169.62	1,855.89	5,450.09	6,771.96	6,621.29	150.67	44.945	
16,500.00	7,618.00	15,352.00	7,829.29	136.63	138.31	169.62	1,855.89	5,450.09	6,871.84	6,721.16	150.68	45.605	
16,600.00	7,618.00	15,352.00	7,829.29	137.57	138.31	169.62	1,855.89	5,450.09	6,971.72	6,821.03	150.69	46.265	
16,700.00	7,618.00	15,352.00	7,829.29	138.54	138.31	169.62	1,855.89	5,450.09	7,071.60	6,920.90	150.70	46.925	
16,800.00	7,618.00	15,352.00	7,829.29	139.53	138.31	169.62	1,855.89	5,450.09	7,171.49	7,020.78	150.71	47.585	
16,900.00	7,618.00	15,352.00	7,829.29	140.55	138.31	169.62	1,855.89	5,450.09	7,271.38	7,120.66	150.72	48.245	
17,000.00	7,618.00	15,352.00	7,829.29	141.60	138.31	169.62	1,855.89	5,450.09	7,371.27	7,220.54	150.73	48.905	
17,100.00	7,618.00	15,352.00	7,829.29	142.67	138.31	169.62	1,855.89	5,450.09	7,471.16	7,320.43	150.74	49.564	
17,200.00	7,618.00	15,352.00	7,829.29	143.77	138.31	169.62	1,855.89	5,450.09	7,571.06	7,420.31	150.75	50.223	
17,300.00	7,618.00	15,352.00	7,829.29	144.88	138.31	169.62	1,855.89	5,450.09	7,670.96	7,520.20	150.76	50.882	
17,400.00	7,618.00	15,352.00	7,829.29	146.02	138.31	169.62	1,855.89	5,450.09	7,770.87	7,620.10	150.77	51.541	
17,500.00	7,618.00	15,352.00	7,829.29	147.19	138.31	169.62	1,855.89	5,450.09	7,870.77	7,719.99	150.78	52.200	
17,600.00	7,618.00	15,352.00	7,829.29	148.37	138.31	169.62	1,855.89	5,450.09	7,970.68	7,819.89	150.79	52.858	
17,700.00	7,618.00	15,352.00	7,829.29	149.57	138.31	169.62	1,855.89	5,450.09	8,070.59	7,919.78	150.81	53.517	
17,800.00	7,618.00	15,352.00	7,829.29	150.79	138.31	169.62	1,855.89	5,450.09	8,170.50	8,019.68	150.82	54.175	
17,900.00	7,618.00	15,352.00	7,829.29	152.03	138.31	169.62	1,855.89	5,450.09	8,270.42	8,119.59	150.83	54.833	
18,000.00	7,618.00	15,352.00	7,829.29	153.29	138.31	169.62	1,855.89	5,450.09	8,370.33	8,219.49	150.84	55.491	
18,100.00	7,618.00	15,352.00	7,829.29	154.57	138.31	169.62	1,855.89	5,450.09	8,470.25	8,319.40	150.85	56.148	
18,200.00	7,618.00	15,352.00	7,829.29	155.86	138.31	169.62	1,855.89	5,450.09	8,570.17	8,419.30	150.87	56.806	
18,300.00	7,618.00	15,352.00	7,829.29	157.17	138.31	169.62	1,855.89	5,450.09	8,670.09	8,519.21	150.88	57.463	
18,400.00	7,618.00	15,352.00	7,829.29	158.49	138.31	169.62	1,855.89	5,450.09	8,770.02	8,619.12	150.89	58.120	
18,500.00	7,618.00	15,352.00	7,829.29	159.82	138.31	169.62	1,855.89	5,450.09	8,869.94	8,719.04	150.91	58.777	
18,600.00	7,618.00	15,352.00	7,829.29	161.17	138.31	169.62	1,855.89	5,450.09	8,969.87	8,818.95	150.92	59.433	
18,700.00	7,618.00	15,352.00	7,829.29	162.54	138.31	169.62	1,855.89	5,450.09	9,069.80	8,918.86	150.94	60.090	
18,800.00	7,618.00	15,352.00	7,829.29	163.91	138.31	169.62	1,855.89	5,450.09	9,169.73	9,018.78	150.95	60.746	
18,900.00	7,618.00	15,352.00	7,829.29	165.30	138.31	169.62	1,855.89	5,450.09	9,269.66	9,118.70	150.97	61.402	
19,000.00	7,618.00	15,352.00	7,829.29	166.70	138.31	169.62	1,855.89	5,450.09	9,369.60	9,218.61	150.98	62.058	
19,100.00	7,618.00	15,352.00	7,829.29	168.10	138.31	169.62	1,855.89	5,450.09	9,469.53	9,318.53	151.00	62.713	
19,200.00	7,618.00	15,352.00	7,829.29	169.52	138.31	169.62	1,855.89	5,450.09	9,569.47	9,418.46	151.01	63.369	
19,300.00	7,618.00	15,352.00	7,829.29	170.95	138.31	169.62	1,855.89	5,450.09	9,669.41	9,518.38	151.03	64.024	
19,400.00	7,618.00	15,352.00	7,829.29	172.39	138.31	169.62	1,855.89	5,450.09	9,769.34	9,618.30	151.04	64.679	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,500.00	7,618.00	15,352.00	7,829.29	173.84	138.31	169.62	1,855.89	5,450.09	9,869.28	9,718.22	151.06	65.333	
19,600.00	7,618.00	15,352.00	7,829.29	175.30	138.31	169.62	1,855.89	5,450.09	9,969.23	9,818.15	151.08	65.988	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	58.06	2,114.20	3,391.38	3,996.58				
100.00	100.00	52.08	52.08	0.13	0.10	58.06	2,114.20	3,391.43	3,996.46	3,996.23	0.23	N/A	
200.00	200.00	125.00	125.00	0.49	0.36	58.06	2,114.21	3,391.97	3,997.10	3,996.25	0.85	4,689.729	
300.00	299.98	204.92	204.91	0.85	0.65	-11.25	2,114.53	3,392.93	3,996.61	3,995.12	1.49	2,678.348	
400.00	399.84	307.94	307.92	1.21	1.01	-11.28	2,115.36	3,394.21	3,992.96	3,990.74	2.22	1,798.697	
500.00	499.45	444.31	444.28	1.58	1.50	-11.33	2,115.21	3,395.72	3,985.28	3,982.20	3.07	1,297.512	
600.00	598.70	538.72	538.68	1.97	1.83	-11.40	2,114.52	3,396.72	3,973.83	3,970.06	3.78	1,052.525	
700.00	697.47	634.11	634.07	2.38	2.17	-11.49	2,114.40	3,397.54	3,959.15	3,954.66	4.49	882.141	
800.00	795.62	773.94	773.90	2.83	2.65	-11.66	2,115.09	3,397.28	3,940.53	3,935.18	5.35	737.070	
900.00	893.06	903.18	903.13	3.31	3.09	-11.84	2,114.44	3,396.48	3,917.72	3,911.55	6.17	635.441	
1,000.00	989.64	987.80	987.74	3.83	3.38	-12.02	2,113.87	3,395.68	3,891.25	3,884.41	6.84	568.795	
1,100.00	1,085.27	1,075.92	1,075.86	4.40	3.68	-12.24	2,114.01	3,394.85	3,861.92	3,854.38	7.54	512.373	
1,200.00	1,179.82	1,184.43	1,184.36	5.02	4.05	-12.52	2,114.14	3,393.67	3,829.24	3,820.93	8.31	460.716	
1,300.00	1,273.17	1,281.40	1,281.33	5.70	4.39	-12.82	2,113.94	3,392.53	3,793.14	3,784.09	9.06	418.869	
1,400.00	1,365.21	1,400.02	1,399.91	6.43	4.80	-13.21	2,114.03	3,389.78	3,753.06	3,743.17	9.88	379.819	
1,500.00	1,455.84	1,448.19	1,448.08	7.23	4.97	-13.52	2,114.04	3,389.00	3,710.51	3,700.03	10.48	353.996	
1,600.00	1,544.94	1,600.00	1,709.21	8.09	5.50	-14.09	2,101.18	3,388.04	3,663.77	3,652.38	11.39	321.657	
1,700.00	1,632.39	1,860.66	1,859.05	9.01	6.44	-14.47	2,083.53	3,387.41	3,610.39	3,597.67	12.72	283.898	
1,800.00	1,718.11	1,944.55	1,941.96	10.00	6.75	-14.81	2,070.85	3,388.39	3,553.94	3,540.48	13.45	264.140	
1,900.00	1,801.97	2,039.34	2,035.30	11.07	7.12	-15.16	2,054.48	3,390.38	3,494.39	3,480.15	14.24	245.429	
2,000.00	1,883.88	2,101.72	2,096.54	12.20	7.37	-15.55	2,042.77	3,392.42	3,432.30	3,417.37	14.93	229.868	
2,100.00	1,963.74	2,158.04	2,151.74	13.41	7.59	-15.98	2,031.88	3,394.82	3,368.01	3,352.39	15.62	215.653	
2,200.00	2,041.45	2,214.35	2,206.95	14.69	7.82	-16.46	2,021.11	3,397.55	3,301.63	3,285.32	16.32	202.346	
2,300.00	2,116.92	2,275.84	2,267.28	16.05	8.08	-17.01	2,009.66	3,400.65	3,233.11	3,216.07	17.04	189.743	
2,357.48	2,159.25	2,331.97	2,322.40	16.86	8.31	-17.38	1,999.41	3,403.37	3,192.67	3,175.15	17.52	182.250	
2,400.00	2,190.27	2,389.63	2,379.01	17.47	8.56	-17.42	1,988.68	3,405.76	3,162.22	3,144.31	17.91	176.549	
2,500.00	2,263.22	2,442.99	2,431.41	18.92	8.78	-17.46	1,978.85	3,407.80	3,090.49	3,071.88	18.62	166.000	
2,600.00	2,336.18	2,564.48	2,550.76	20.37	9.30	-17.57	1,956.57	3,412.08	3,018.85	2,999.35	19.50	154.832	
2,700.00	2,409.14	2,617.84	2,603.07	21.84	9.54	-17.61	1,946.15	3,413.64	2,946.20	2,925.98	20.22	145.687	
2,800.00	2,482.09	2,666.00	2,650.33	23.31	9.75	-17.65	1,937.06	3,415.30	2,874.08	2,853.13	20.95	137.179	
2,900.00	2,555.05	2,713.45	2,696.96	24.78	9.96	-17.70	1,928.42	3,417.14	2,802.48	2,780.79	21.69	129.186	
3,000.00	2,628.01	2,766.06	2,748.71	26.27	10.19	-17.76	1,919.25	3,419.41	2,731.41	2,708.95	22.46	121.614	
3,100.00	2,700.96	2,866.37	2,847.24	27.75	10.63	-17.87	1,900.94	3,423.75	2,660.02	2,636.72	23.31	114.136	
3,200.00	2,773.92	2,931.08	2,910.81	29.24	10.92	-17.94	1,889.13	3,426.27	2,588.42	2,564.32	24.10	107.384	
3,300.00	2,846.88	3,018.81	2,996.98	30.73	11.32	-18.05	1,872.97	3,429.60	2,516.71	2,491.78	24.93	100.943	
3,400.00	2,919.83	3,078.18	3,055.11	32.23	11.59	-18.09	1,861.23	3,432.12	2,444.74	2,419.00	25.74	94.983	
3,500.00	2,992.79	3,132.00	3,107.93	33.72	11.83	-18.15	1,851.14	3,434.52	2,373.27	2,346.71	26.56	89.365	
3,600.00	3,065.75	3,227.14	3,201.33	35.22	12.27	-18.28	1,833.47	3,438.43	2,301.69	2,274.30	27.39	84.046	
3,700.00	3,138.71	3,282.17	3,255.40	36.72	12.52	-18.37	1,823.42	3,440.38	2,229.90	2,201.68	28.22	79.016	
3,800.00	3,211.66	3,348.11	3,320.34	38.22	12.81	-18.51	1,812.25	3,442.58	2,158.49	2,129.42	29.07	74.260	
3,900.00	3,284.62	3,434.23	3,405.08	39.72	13.20	-18.70	1,797.13	3,445.33	2,086.78	2,056.89	29.90	69.803	
4,000.00	3,357.58	3,520.95	3,490.20	41.22	13.60	-18.86	1,780.76	3,448.02	2,014.51	1,983.80	30.71	65.595	
4,100.00	3,430.53	3,574.66	3,543.00	42.73	13.85	-18.99	1,771.01	3,449.48	1,942.28	1,910.69	31.59	61.476	
4,200.00	3,503.49	3,631.66	3,599.18	44.23	14.11	-19.17	1,761.45	3,450.86	1,870.47	1,837.97	32.50	57.560	
4,300.00	3,576.45	3,688.27	3,654.96	45.74	14.36	-19.35	1,752.01	3,452.69	1,799.17	1,765.75	33.42	53.841	
4,400.00	3,649.40	3,759.02	3,724.64	47.25	14.68	-19.57	1,740.04	3,455.44	1,728.16	1,693.85	34.31	50.369	
4,500.00	3,722.36	3,827.77	3,792.28	48.75	15.00	-19.79	1,728.11	3,458.25	1,657.10	1,621.88	35.22	47.050	
4,600.00	3,795.32	3,900.67	3,863.91	50.26	15.33	-20.01	1,714.99	3,461.76	1,586.22	1,550.10	36.12	43.918	
4,700.00	3,868.27	3,998.76	3,960.12	51.77	15.79	-20.32	1,696.25	3,465.30	1,514.08	1,477.22	36.87	41.068	
4,800.00	3,941.23	4,048.75	4,009.33	53.28	16.02	-20.55	1,687.52	3,466.62	1,442.19	1,404.27	37.93	38.027	
4,900.00	4,014.19	4,104.81	4,064.72	54.79	16.27	-20.89	1,679.01	3,468.04	1,371.19	1,332.19	39.00	35.157	
5,000.00	4,087.15	4,167.05	4,126.21	56.30	16.54	-21.29	1,669.63	3,470.11	1,300.74	1,260.67	40.07	32.460	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	4,276.11	4,233.70	57.81	17.04	-22.02	1,651.45	3,473.15	1,229.31	1,188.57	40.74	30.176	
5,200.00	4,233.06	4,347.44	4,303.84	59.32	17.37	-22.54	1,638.55	3,474.53	1,156.92	1,115.18	41.74	27.717	
5,300.00	4,306.02	4,416.49	4,371.65	60.83	17.70	-23.07	1,625.61	3,476.08	1,084.47	1,041.68	42.79	25.342	
5,400.00	4,378.97	4,486.04	4,439.79	62.34	18.03	-23.62	1,611.86	3,478.16	1,012.04	968.19	43.86	23.077	
5,500.00	4,451.93	4,556.95	4,509.25	63.85	18.37	-24.25	1,597.75	3,480.21	939.56	894.62	44.94	20.907	
5,600.00	4,524.89	4,631.86	4,582.62	65.36	18.73	-25.06	1,582.72	3,481.96	866.77	820.77	46.00	18.844	
5,700.00	4,597.84	4,692.20	4,641.75	66.88	19.02	-25.84	1,570.76	3,483.24	794.05	746.62	47.43	16.742	
5,800.00	4,670.80	4,752.79	4,701.25	68.39	19.30	-26.80	1,559.43	3,484.88	722.24	673.22	49.02	14.734	
5,900.00	4,743.76	4,816.69	4,764.13	69.90	19.60	-28.07	1,548.23	3,486.72	651.22	600.47	50.75	12.833	
6,000.00	4,816.71	4,885.16	4,831.58	71.41	19.92	-29.76	1,536.68	3,488.83	580.85	528.24	52.61	11.041	
6,100.00	4,889.67	4,955.05	4,900.38	72.93	20.24	-31.88	1,524.60	3,491.29	510.84	456.12	54.72	9.336	
6,200.00	4,962.63	5,024.98	4,969.26	74.44	20.56	-34.69	1,512.74	3,493.49	441.31	384.00	57.31	7.700	
6,300.00	5,035.59	5,091.52	5,034.91	75.95	20.86	-38.36	1,502.07	3,495.37	372.91	312.03	60.88	6.125	
6,400.00	5,108.54	5,160.21	5,102.78	77.47	21.17	-43.67	1,491.64	3,497.33	306.43	240.77	65.66	4.667	
6,500.00	5,181.50	5,230.17	5,171.85	78.98	21.48	-51.30	1,480.87	3,499.88	242.77	170.42	72.35	3.356	
6,600.00	5,254.46	5,300.73	5,241.49	80.49	21.80	-62.69	1,469.90	3,502.95	184.45	102.32	82.13	2.246	
6,700.00	5,327.41	5,372.56	5,312.35	82.01	22.12	-80.10	1,458.56	3,506.16	137.72	42.66	95.05	1.449	Level 3
6,799.63	5,400.10	5,441.76	5,380.62	83.52	22.43	-102.57	1,447.65	3,508.89	117.80	16.06	101.73	1.158	Level 2, CC, ES, SF
6,800.00	5,400.37	5,442.01	5,380.88	83.52	22.43	-102.65	1,447.62	3,508.90	117.80	16.08	101.72	1.158	Level 2
6,900.00	5,473.33	5,511.32	5,449.42	85.04	22.74	-125.11	1,437.65	3,511.17	137.96	48.89	89.07	1.549	
7,000.00	5,546.28	5,580.82	5,518.17	86.55	23.05	-142.19	1,427.58	3,512.94	185.34	111.70	73.64	2.517	
7,100.00	5,619.24	5,652.46	5,589.00	88.06	23.36	-153.93	1,416.96	3,514.73	244.55	180.16	64.39	3.798	
7,200.00	5,692.20	5,724.77	5,660.46	89.58	23.68	-161.73	1,406.21	3,517.05	308.40	248.68	59.72	5.164	
7,300.00	5,765.15	5,796.04	5,730.87	91.09	24.00	-167.07	1,395.43	3,519.73	374.44	316.94	57.50	6.513	
7,400.00	5,838.11	5,864.01	5,797.94	92.61	24.31	-170.83	1,384.68	3,522.13	442.16	385.71	56.45	7.833	
7,500.00	5,911.07	5,937.35	5,870.38	94.12	24.63	-173.80	1,373.51	3,524.57	510.79	454.41	56.38	9.059	
7,600.00	5,984.03	6,008.55	5,940.86	95.64	24.95	-175.89	1,363.73	3,526.97	579.62	522.95	56.66	10.229	
7,700.00	6,056.98	6,078.67	6,010.20	97.15	25.25	-177.58	1,353.57	3,529.36	648.92	591.82	57.11	11.363	
7,800.00	6,129.94	6,150.92	6,081.59	98.67	25.57	-179.04	1,342.77	3,532.01	718.42	660.65	57.77	12.437	
7,900.00	6,202.90	6,224.89	6,154.77	100.18	25.90	179.80	1,332.38	3,534.70	787.90	729.33	58.57	13.453	
8,000.00	6,275.85	6,295.12	6,224.39	101.70	26.20	178.96	1,323.44	3,537.05	857.36	798.08	59.28	14.464	
8,100.00	6,348.81	6,365.29	6,293.91	103.21	26.50	178.22	1,314.15	3,539.34	927.10	867.08	60.01	15.448	
8,200.00	6,421.77	6,439.59	6,367.55	104.73	26.81	177.56	1,304.56	3,541.78	996.81	935.91	60.90	16.368	
8,300.00	6,494.72	6,521.75	6,449.14	106.24	27.15	177.03	1,295.40	3,544.48	1,066.08	1,004.09	61.99	17.197	
8,400.00	6,567.68	6,590.11	6,517.16	107.76	27.42	176.72	1,288.89	3,546.53	1,135.11	1,072.44	62.67	18.114	
8,500.00	6,640.64	6,655.54	6,582.29	109.27	27.68	176.48	1,282.83	3,548.09	1,204.49	1,141.22	63.27	19.039	
8,600.00	6,713.59	6,719.51	6,645.99	110.79	27.93	176.29	1,277.04	3,549.12	1,274.33	1,210.50	63.83	19.963	
8,700.00	6,786.55	6,795.70	6,721.92	112.30	28.22	176.13	1,270.80	3,549.98	1,344.26	1,279.55	64.70	20.776	
8,800.00	6,859.51	6,879.61	6,805.65	113.82	28.52	176.05	1,265.38	3,550.81	1,413.78	1,348.06	65.72	21.512	
8,900.00	6,932.46	6,965.60	6,891.55	115.33	28.82	176.06	1,261.63	3,551.77	1,482.60	1,415.87	66.73	22.217	
9,000.00	7,005.42	7,048.53	6,974.44	116.85	29.10	176.13	1,259.33	3,552.87	1,550.83	1,483.19	67.64	22.927	
9,104.89	7,081.95	7,136.46	7,062.35	118.44	29.38	176.24	1,257.92	3,554.14	1,621.95	1,553.37	68.58	23.649	
9,150.00	7,115.15	7,176.50	7,102.39	119.12	29.50	167.88	1,257.61	3,554.83	1,651.88	1,582.88	69.01	23.938	
9,200.00	7,152.46	7,214.54	7,140.42	119.86	29.62	158.87	1,257.50	3,555.52	1,683.75	1,614.43	69.31	24.292	
9,250.00	7,190.04	7,249.92	7,175.80	120.57	29.72	150.21	1,257.57	3,556.02	1,714.20	1,644.66	69.54	24.650	
9,300.00	7,227.59	7,286.35	7,212.22	121.25	29.83	142.04	1,257.84	3,556.41	1,743.10	1,673.32	69.77	24.982	
9,350.00	7,264.83	7,364.72	7,290.52	121.89	30.03	135.27	1,260.80	3,557.25	1,769.83	1,699.10	70.72	25.025	
9,400.00	7,301.48	7,434.93	7,360.37	122.48	30.19	129.24	1,267.75	3,557.98	1,793.95	1,722.47	71.48	25.097	
9,450.00	7,337.26	9,450.00	7,420.23	123.01	33.70	123.87	1,278.40	3,557.82	1,815.91	1,740.35	75.55	24.035	
9,500.00	7,371.90	7,598.65	7,519.39	123.49	30.46	120.50	1,305.50	3,557.76	1,835.03	1,761.69	73.33	25.023	
9,550.00	7,405.13	7,622.64	7,541.92	123.91	30.48	115.72	1,313.75	3,557.54	1,852.44	1,778.91	73.54	25.191	
9,600.00	7,436.70	7,636.55	7,554.86	124.27	30.50	111.28	1,318.82	3,557.28	1,868.55	1,794.88	73.67	25.363	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	7,647.20	7,564.72	124.57	30.51	107.32	1,322.85	3,557.00	1,883.36	1,809.51	73.85	25.502	
9,700.00	7,493.91	7,654.87	7,571.79	124.81	30.51	103.82	1,325.83	3,556.77	1,896.85	1,822.77	74.08	25.604	
9,750.00	7,519.11	7,661.00	7,577.41	125.00	30.52	100.79	1,328.26	3,556.56	1,909.00	1,834.59	74.41	25.656	
9,800.00	7,541.79	7,665.45	7,581.48	125.12	30.52	98.17	1,330.05	3,556.40	1,919.77	1,844.94	74.83	25.656	
9,850.00	7,561.77	7,666.21	7,582.18	125.20	30.52	95.89	1,330.36	3,556.37	1,929.12	1,853.81	75.30	25.617	
9,900.00	7,578.90	7,661.69	7,578.04	125.23	30.52	93.86	1,328.53	3,556.53	1,936.99	1,861.19	75.80	25.553	
9,950.00	7,593.04	7,661.00	7,577.41	125.22	30.52	92.34	1,328.26	3,556.56	1,943.35	1,866.82	76.53	25.394	
10,000.00	7,604.09	7,661.00	7,577.41	125.17	30.52	91.20	1,328.26	3,556.56	1,948.15	1,870.73	77.42	25.163	
10,050.00	7,611.97	7,647.03	7,564.57	125.08	30.50	90.03	1,322.79	3,557.01	1,951.29	1,873.18	78.11	24.982	
10,100.00	7,616.61	7,639.66	7,557.75	124.97	30.50	89.40	1,319.99	3,557.20	1,952.79	1,873.70	79.09	24.690	
10,145.95	7,618.00	7,631.92	7,550.57	124.84	30.49	89.11	1,317.11	3,557.37	1,952.67	1,872.59	80.09	24.382	
10,184.23	7,618.00	7,625.26	7,544.36	124.73	30.48	88.92	1,314.68	3,557.50	1,952.32	1,871.35	80.97	24.111	
10,200.00	7,618.00	7,614.00	7,533.83	124.69	30.47	88.62	1,310.70	3,557.64	1,952.42	1,871.30	81.13	24.066	
10,300.00	7,618.00	7,604.32	7,524.74	124.41	30.46	88.35	1,307.39	3,557.73	1,955.55	1,871.74	83.81	23.333	
10,400.00	7,618.00	7,585.95	7,507.36	124.14	30.44	87.84	1,301.41	3,557.81	1,963.48	1,877.07	86.42	22.721	
10,500.00	7,618.00	7,567.00	7,489.30	123.88	30.42	87.31	1,295.69	3,557.81	1,976.18	1,887.08	89.11	22.178	
10,600.00	7,618.00	7,550.31	7,473.28	123.63	30.39	86.84	1,291.00	3,557.76	1,993.56	1,901.68	91.88	21.698	
10,700.00	7,618.00	7,532.61	7,456.19	123.40	30.37	86.34	1,286.41	3,557.73	2,015.50	1,920.88	94.62	21.302	
10,800.00	7,618.00	7,520.00	7,443.95	123.18	30.35	85.98	1,283.37	3,557.72	2,041.91	1,944.50	97.41	20.962	
10,900.00	7,618.00	7,501.93	7,426.34	122.96	30.32	85.47	1,279.34	3,557.75	2,072.63	1,972.63	100.00	20.727	
11,000.00	7,618.00	7,489.02	7,413.70	122.76	30.30	85.10	1,276.71	3,557.80	2,107.52	2,004.94	102.58	20.546	
11,100.00	7,618.00	7,473.00	7,397.96	122.57	30.27	84.64	1,273.73	3,557.91	2,146.40	2,041.44	104.96	20.449	
11,200.00	7,618.00	7,473.00	7,397.96	122.39	30.27	84.64	1,273.73	3,557.91	2,189.07	2,081.58	107.48	20.367	
11,300.00	7,618.00	7,473.00	7,397.96	122.23	30.27	84.64	1,273.73	3,557.91	2,235.39	2,125.57	109.83	20.354	
11,400.00	7,618.00	7,457.67	7,382.85	122.07	30.24	84.20	1,271.15	3,558.00	2,285.01	2,173.26	111.76	20.447	
11,500.00	7,618.00	7,452.29	7,377.54	121.93	30.23	84.05	1,270.30	3,558.01	2,337.88	2,224.19	113.68	20.565	
11,600.00	7,618.00	7,447.26	7,372.57	121.79	30.22	83.90	1,269.53	3,558.01	2,393.72	2,278.26	115.46	20.732	
11,700.00	7,618.00	7,442.55	7,367.91	121.67	30.21	83.77	1,268.83	3,558.00	2,452.34	2,335.25	117.09	20.944	
11,800.00	7,618.00	7,426.00	7,351.51	121.56	30.18	83.29	1,266.56	3,557.92	2,513.64	2,395.21	118.43	21.225	
11,900.00	7,618.00	7,426.00	7,351.51	121.46	30.18	83.29	1,266.56	3,557.92	2,577.19	2,457.35	119.85	21.504	
12,000.00	7,618.00	7,426.00	7,351.51	121.38	30.18	83.29	1,266.56	3,557.92	2,643.00	2,521.87	121.14	21.818	
12,100.00	7,618.00	7,426.00	7,351.51	121.30	30.18	83.29	1,266.56	3,557.92	2,710.91	2,588.60	122.31	22.164	
12,200.00	7,618.00	7,426.00	7,351.51	121.24	30.18	83.29	1,266.56	3,557.92	2,780.75	2,657.37	123.37	22.539	
12,300.00	7,618.00	7,426.00	7,351.51	121.19	30.18	83.29	1,266.56	3,557.92	2,852.39	2,728.05	124.34	22.940	
12,400.00	7,618.00	7,426.00	7,351.51	121.16	30.18	83.29	1,266.56	3,557.92	2,925.69	2,800.48	125.21	23.366	
12,500.00	7,618.00	7,426.00	7,351.51	121.14	30.18	83.29	1,266.56	3,557.92	3,000.53	2,874.53	126.00	23.813	
12,600.00	7,618.00	7,426.00	7,351.51	121.13	30.18	83.29	1,266.56	3,557.92	3,076.81	2,950.09	126.72	24.280	
12,700.00	7,618.00	7,407.60	7,333.25	121.13	30.13	82.76	1,264.39	3,557.76	3,154.19	3,026.98	127.21	24.796	
12,800.00	7,618.00	7,405.07	7,330.73	121.15	30.13	82.69	1,264.12	3,557.73	3,232.95	3,105.17	127.78	25.301	
12,900.00	7,618.00	7,402.67	7,328.35	121.18	30.12	82.62	1,263.87	3,557.71	3,312.86	3,184.56	128.30	25.822	
13,000.00	7,618.00	7,400.40	7,326.08	121.23	30.12	82.56	1,263.64	3,557.69	3,393.82	3,265.05	128.77	26.356	
13,100.00	7,618.00	7,398.24	7,323.94	121.29	30.11	82.50	1,263.43	3,557.66	3,475.77	3,346.57	129.19	26.903	
13,200.00	7,618.00	7,379.00	7,304.77	121.37	30.07	81.94	1,261.79	3,557.43	3,558.83	3,429.37	129.45	27.491	
13,300.00	7,618.00	7,379.00	7,304.77	121.46	30.07	81.94	1,261.79	3,557.43	3,642.50	3,512.68	129.82	28.057	
13,400.00	7,618.00	7,379.00	7,304.77	121.57	30.07	81.94	1,261.79	3,557.43	3,726.99	3,596.83	130.16	28.634	
13,500.00	7,618.00	7,379.00	7,304.77	121.70	30.07	81.94	1,261.79	3,557.43	3,812.22	3,681.76	130.46	29.221	
13,600.00	7,618.00	7,379.00	7,304.77	121.84	30.07	81.94	1,261.79	3,557.43	3,898.15	3,767.41	130.74	29.816	
13,700.00	7,618.00	7,379.00	7,304.77	122.01	30.07	81.94	1,261.79	3,557.43	3,984.75	3,853.76	130.99	30.420	
13,800.00	7,618.00	7,379.00	7,304.77	122.19	30.07	81.94	1,261.79	3,557.43	4,071.95	3,940.73	131.22	31.032	
13,900.00	7,618.00	7,379.00	7,304.77	122.39	30.07	81.94	1,261.79	3,557.43	4,159.73	4,028.31	131.43	31.651	
14,000.00	7,618.00	7,379.00	7,304.77	122.62	30.07	81.94	1,261.79	3,557.43	4,248.06	4,116.44	131.61	32.277	
14,100.00	7,618.00	7,379.00	7,304.77	122.86	30.07	81.94	1,261.79	3,557.43	4,336.88	4,205.10	131.78	32.909	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,200.00	7,618.00	7,379.00	7,304.77	123.12	30.07	81.94	1,261.79	3,557.43	4,426.19	4,294.25	131.94	33.547	
14,300.00	7,618.00	7,379.00	7,304.77	123.41	30.07	81.94	1,261.79	3,557.43	4,515.94	4,383.86	132.08	34.191	
14,400.00	7,618.00	7,379.00	7,304.77	123.72	30.07	81.94	1,261.79	3,557.43	4,606.12	4,473.91	132.21	34.839	
14,500.00	7,618.00	7,379.00	7,304.77	124.06	30.07	81.94	1,261.79	3,557.43	4,696.69	4,564.37	132.33	35.493	
14,600.00	7,618.00	7,379.00	7,304.77	124.42	30.07	81.94	1,261.79	3,557.43	4,787.64	4,655.21	132.43	36.152	
14,700.00	7,618.00	7,379.00	7,304.77	124.80	30.07	81.94	1,261.79	3,557.43	4,878.95	4,746.42	132.53	36.814	
14,800.00	7,618.00	7,379.00	7,304.77	125.21	30.07	81.94	1,261.79	3,557.43	4,970.59	4,837.97	132.62	37.481	
14,900.00	7,618.00	7,379.00	7,304.77	125.65	30.07	81.94	1,261.79	3,557.43	5,062.54	4,929.84	132.70	38.151	
15,000.00	7,618.00	7,379.00	7,304.77	126.11	30.07	81.94	1,261.79	3,557.43	5,154.79	5,022.03	132.77	38.825	
15,100.00	7,618.00	7,379.00	7,304.77	126.61	30.07	81.94	1,261.79	3,557.43	5,247.33	5,114.50	132.83	39.503	
15,200.00	7,618.00	7,379.00	7,304.77	127.13	30.07	81.94	1,261.79	3,557.43	5,340.14	5,207.25	132.89	40.184	
15,300.00	7,618.00	7,379.00	7,304.77	127.68	30.07	81.94	1,261.79	3,557.43	5,433.20	5,300.25	132.95	40.867	
15,400.00	7,618.00	7,379.00	7,304.77	128.26	30.07	81.94	1,261.79	3,557.43	5,526.51	5,393.51	133.00	41.554	
15,500.00	7,618.00	7,379.00	7,304.77	128.87	30.07	81.94	1,261.79	3,557.43	5,620.04	5,487.00	133.04	42.243	
15,600.00	7,618.00	7,379.00	7,304.77	129.51	30.07	81.94	1,261.79	3,557.43	5,713.80	5,580.71	133.08	42.935	
15,700.00	7,618.00	7,379.00	7,304.77	130.18	30.07	81.94	1,261.79	3,557.43	5,807.76	5,674.64	133.12	43.629	
15,800.00	7,618.00	7,379.00	7,304.77	130.88	30.07	81.94	1,261.79	3,557.43	5,901.92	5,768.77	133.15	44.325	
15,900.00	7,618.00	7,379.00	7,304.77	131.61	30.07	81.94	1,261.79	3,557.43	5,996.27	5,863.09	133.18	45.024	
16,000.00	7,618.00	7,379.00	7,304.77	132.37	30.07	81.94	1,261.79	3,557.43	6,090.80	5,957.59	133.21	45.725	
16,100.00	7,618.00	7,379.00	7,304.77	133.17	30.07	81.94	1,261.79	3,557.43	6,185.50	6,052.27	133.23	46.427	
16,200.00	7,618.00	7,379.00	7,304.77	133.99	30.07	81.94	1,261.79	3,557.43	6,280.37	6,147.11	133.25	47.131	
16,300.00	7,618.00	7,379.00	7,304.77	134.84	30.07	81.94	1,261.79	3,557.43	6,375.39	6,242.12	133.27	47.838	
16,400.00	7,618.00	7,379.00	7,304.77	135.72	30.07	81.94	1,261.79	3,557.43	6,470.56	6,337.27	133.29	48.545	
16,500.00	7,618.00	7,379.00	7,304.77	136.63	30.07	81.94	1,261.79	3,557.43	6,565.88	6,432.58	133.30	49.255	
16,600.00	7,618.00	7,379.00	7,304.77	137.57	30.07	81.94	1,261.79	3,557.43	6,661.33	6,528.02	133.32	49.965	
16,700.00	7,618.00	7,379.00	7,304.77	138.54	30.07	81.94	1,261.79	3,557.43	6,756.92	6,623.59	133.33	50.678	
16,800.00	7,618.00	7,379.00	7,304.77	139.53	30.07	81.94	1,261.79	3,557.43	6,852.63	6,719.29	133.34	51.391	
16,900.00	7,618.00	7,379.00	7,304.77	140.55	30.07	81.94	1,261.79	3,557.43	6,948.46	6,815.11	133.35	52.106	
17,000.00	7,618.00	7,379.00	7,304.77	141.60	30.07	81.94	1,261.79	3,557.43	7,044.41	6,911.05	133.36	52.822	
17,100.00	7,618.00	7,379.00	7,304.77	142.67	30.07	81.94	1,261.79	3,557.43	7,140.47	7,007.10	133.37	53.539	
17,200.00	7,618.00	7,340.87	7,266.71	143.77	29.97	80.85	1,259.46	3,556.96	7,236.07	7,102.83	133.24	54.308	
17,300.00	7,618.00	7,340.02	7,265.87	144.88	29.97	80.83	1,259.42	3,556.95	7,332.31	7,199.07	133.25	55.029	
17,400.00	7,618.00	7,339.20	7,265.04	146.02	29.97	80.81	1,259.38	3,556.94	7,428.66	7,295.41	133.25	55.750	
17,500.00	7,618.00	7,338.40	7,264.24	147.19	29.96	80.78	1,259.34	3,556.93	7,525.09	7,391.84	133.25	56.472	
17,600.00	7,618.00	7,337.61	7,263.46	148.37	29.96	80.76	1,259.30	3,556.92	7,621.62	7,488.37	133.26	57.195	
17,700.00	7,618.00	7,336.85	7,262.69	149.57	29.96	80.74	1,259.27	3,556.91	7,718.24	7,584.98	133.26	57.919	
17,800.00	7,618.00	7,336.10	7,261.94	150.79	29.96	80.72	1,259.24	3,556.91	7,814.94	7,681.68	133.26	58.644	
17,900.00	7,618.00	7,335.36	7,261.21	152.03	29.96	80.70	1,259.20	3,556.90	7,911.73	7,778.46	133.26	59.369	
18,000.00	7,618.00	7,334.64	7,260.49	153.29	29.95	80.68	1,259.17	3,556.89	8,008.59	7,875.32	133.26	60.095	
18,100.00	7,618.00	7,333.94	7,259.79	154.57	29.95	80.66	1,259.14	3,556.88	8,105.52	7,972.26	133.27	60.822	
18,200.00	7,618.00	7,333.26	7,259.11	155.86	29.95	80.64	1,259.11	3,556.87	8,202.54	8,069.27	133.27	61.549	
18,300.00	7,618.00	7,332.58	7,258.44	157.17	29.95	80.62	1,259.08	3,556.87	8,299.62	8,166.35	133.27	62.277	
18,400.00	7,618.00	7,331.93	7,257.78	158.49	29.95	80.60	1,259.05	3,556.86	8,396.77	8,263.50	133.27	63.006	
18,500.00	7,618.00	7,331.28	7,257.13	159.82	29.95	80.58	1,259.03	3,556.85	8,493.98	8,360.71	133.27	63.735	
18,600.00	7,618.00	7,330.65	7,256.50	161.17	29.94	80.56	1,259.00	3,556.85	8,591.26	8,457.99	133.27	64.464	
18,700.00	7,618.00	7,330.03	7,255.89	162.54	29.94	80.55	1,258.98	3,556.84	8,688.60	8,555.33	133.27	65.194	
18,800.00	7,618.00	7,329.43	7,255.28	163.91	29.94	80.53	1,258.95	3,556.83	8,786.00	8,652.73	133.27	65.924	
18,900.00	7,618.00	7,328.83	7,254.69	165.30	29.94	80.51	1,258.93	3,556.83	8,883.46	8,750.18	133.28	66.655	
19,000.00	7,618.00	7,328.25	7,254.11	166.70	29.94	80.50	1,258.90	3,556.82	8,980.97	8,847.69	133.28	67.386	
19,100.00	7,618.00	7,327.68	7,253.54	168.10	29.94	80.48	1,258.88	3,556.81	9,078.54	8,945.26	133.28	68.117	
19,200.00	7,618.00	7,327.12	7,252.98	169.52	29.93	80.46	1,258.86	3,556.81	9,176.16	9,042.88	133.28	68.848	
19,300.00	7,618.00	7,326.57	7,252.43	170.95	29.93	80.45	1,258.84	3,556.80	9,273.83	9,140.55	133.28	69.580	

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

Survey Program: 25-MWD OWSG

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
19,400.00	7,618.00	7,326.04	7,251.89	172.39	29.93	80.43	1,258.82	3,556.79	9,371.55	9,238.26	133.28	70.313	
19,500.00	7,618.00	7,325.51	7,251.36	173.84	29.93	80.42	1,258.80	3,556.79	9,469.31	9,336.03	133.29	71.045	
19,600.00	7,618.00	7,324.99	7,250.85	175.30	29.93	80.40	1,258.78	3,556.78	9,567.12	9,433.84	133.29	71.778	
19,700.00	7,618.00	7,324.48	7,250.34	176.76	29.93	80.39	1,258.76	3,556.78	9,664.98	9,531.69	133.29	72.510	
19,800.00	7,618.00	7,323.98	7,249.84	178.24	29.93	80.37	1,258.74	3,556.77	9,762.88	9,629.59	133.29	73.243	
19,896.19	7,618.00	7,284.00	7,209.87	179.66	29.82	79.24	1,257.82	3,556.39	9,857.68	9,724.50	133.18	74.016	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	57.62	2,113.10	3,331.75	3,945.52				
100.00	100.00	53.26	53.26	0.13	0.10	57.62	2,113.09	3,331.79	3,945.39	3,945.15	0.24	N/A	
200.00	200.00	128.38	128.38	0.49	0.37	57.62	2,113.00	3,332.36	3,945.96	3,945.10	0.86	4,565.482	
300.00	299.98	224.58	224.57	0.85	0.71	-11.70	2,113.13	3,333.33	3,945.18	3,943.61	1.56	2,525.011	
400.00	399.84	312.41	312.39	1.21	1.03	-11.73	2,113.60	3,334.20	3,941.18	3,938.94	2.24	1,763.046	
500.00	499.45	449.19	449.17	1.58	1.51	-11.79	2,114.22	3,334.99	3,933.34	3,930.25	3.09	1,274.263	
600.00	598.70	534.06	534.04	1.97	1.81	-11.88	2,114.98	3,335.08	3,921.96	3,918.21	3.75	1,044.878	
700.00	697.47	661.68	661.65	2.38	2.26	-12.03	2,116.51	3,334.56	3,906.94	3,902.36	4.57	854.336	
800.00	795.62	771.71	771.67	2.83	2.64	-12.19	2,117.10	3,333.91	3,888.06	3,882.72	5.33	729.277	
900.00	893.06	877.75	877.71	3.31	3.00	-12.37	2,117.32	3,333.22	3,865.63	3,859.55	6.08	635.751	
1,000.00	989.64	974.14	974.10	3.83	3.33	-12.58	2,117.38	3,332.47	3,839.72	3,832.92	6.80	564.587	
1,100.00	1,085.27	1,058.51	1,058.47	4.40	3.62	-12.79	2,117.00	3,332.28	3,810.72	3,803.23	7.49	508.945	
1,200.00	1,179.82	1,966.11	1,957.47	5.02	6.98	-13.97	2,054.65	3,255.80	3,769.90	3,759.03	10.86	347.046	
1,300.00	1,273.17	2,018.00	2,008.12	5.70	7.21	-14.31	2,046.06	3,248.46	3,716.02	3,704.58	11.44	324.886	
1,400.00	1,365.21	2,152.65	2,139.23	6.43	7.81	-14.75	2,022.51	3,228.87	3,658.56	3,646.28	12.28	297.972	
1,500.00	1,455.84	2,201.00	2,186.29	7.23	8.03	-15.17	2,013.89	3,221.87	3,598.46	3,585.60	12.86	279.885	
1,600.00	1,544.94	2,256.72	2,240.61	8.09	8.28	-15.65	2,004.19	3,214.13	3,536.28	3,522.81	13.47	262.578	
1,700.00	1,632.39	2,322.38	2,304.74	9.01	8.58	-16.21	1,993.09	3,205.46	3,472.10	3,457.99	14.11	245.995	
1,800.00	1,718.11	2,471.15	2,449.71	10.00	9.28	-17.00	1,966.99	3,184.56	3,404.71	3,389.71	15.00	226.992	
1,900.00	1,801.97	1,900.00	2,544.33	11.07	6.56	-17.84	1,949.03	3,169.21	3,333.36	3,320.24	13.12	254.108	
2,000.00	1,883.88	2,618.37	2,592.52	12.20	10.00	-18.67	1,939.91	3,161.30	3,259.80	3,243.45	16.35	199.386	
2,100.00	1,963.74	2,653.95	2,627.14	13.41	10.17	-19.56	1,933.74	3,155.82	3,184.70	3,167.76	16.94	188.034	
2,200.00	2,041.45	2,688.79	2,661.10	14.69	10.34	-20.54	1,928.01	3,150.63	3,108.08	3,090.54	17.53	177.251	
2,300.00	2,116.92	2,722.84	2,694.38	16.05	10.50	-21.64	1,922.70	3,145.71	3,029.99	3,011.84	18.14	166.989	
2,357.48	2,159.25	2,761.00	2,731.75	16.86	10.69	-22.46	1,917.10	3,140.39	2,984.56	2,966.02	18.54	160.965	
2,400.00	2,190.27	2,761.00	2,731.75	17.47	10.69	-22.46	1,917.10	3,140.39	2,950.66	2,931.88	18.78	157.122	
2,500.00	2,263.22	2,801.75	2,771.71	18.92	10.88	-22.76	1,911.26	3,134.94	2,871.48	2,852.05	19.43	147.777	
2,600.00	2,336.18	2,849.96	2,819.00	20.37	11.11	-23.11	1,904.20	3,128.82	2,792.62	2,772.50	20.12	138.811	
2,700.00	2,409.14	2,956.51	2,923.37	21.84	11.61	-23.93	1,887.57	3,115.28	2,713.50	2,692.60	20.91	129.795	
2,800.00	2,482.09	3,010.52	2,976.16	23.31	11.87	-24.36	1,878.46	3,108.41	2,633.98	2,612.35	21.63	121.758	
2,900.00	2,555.05	3,123.29	3,086.17	24.78	12.43	-25.30	1,858.33	3,093.94	2,554.29	2,531.87	22.42	113.921	
3,000.00	2,628.01	3,205.61	3,166.16	26.27	12.85	-26.08	1,843.22	3,081.69	2,473.33	2,450.15	23.19	106.666	
3,100.00	2,700.96	3,271.07	3,229.67	27.75	13.19	-26.76	1,831.06	3,071.56	2,392.13	2,368.17	23.96	99.842	
3,200.00	2,773.92	3,335.39	3,292.05	29.24	13.52	-27.48	1,819.10	3,061.41	2,310.89	2,286.14	24.75	93.375	
3,300.00	2,846.88	3,426.58	3,380.28	30.73	14.00	-28.62	1,801.96	3,046.03	2,229.18	2,203.64	25.54	87.276	
3,400.00	2,919.83	3,456.21	3,408.96	32.23	14.16	-29.02	1,796.46	3,040.96	2,147.53	2,121.13	26.40	81.338	
3,500.00	2,992.79	3,490.36	3,442.09	33.72	14.34	-29.51	1,790.34	3,035.34	2,066.59	2,039.28	27.31	75.683	
3,600.00	3,065.75	3,544.43	3,494.65	35.22	14.62	-30.32	1,780.94	3,026.83	1,986.32	1,958.09	28.23	70.366	
3,700.00	3,138.71	3,622.01	3,569.83	36.72	15.03	-31.55	1,766.35	3,014.46	1,905.57	1,876.44	29.14	65.400	
3,800.00	3,211.66	3,659.77	3,606.43	38.22	15.23	-32.19	1,759.24	3,008.55	1,825.18	1,795.00	30.18	60.484	
3,900.00	3,284.62	3,704.00	3,649.43	39.72	15.46	-32.99	1,751.30	3,001.88	1,745.58	1,714.32	31.26	55.835	
4,000.00	3,357.58	3,763.61	3,707.42	41.22	15.77	-34.15	1,740.68	2,993.03	1,666.43	1,634.07	32.37	51.486	
4,100.00	3,430.53	3,821.96	3,764.10	42.73	16.08	-35.38	1,729.91	2,984.34	1,587.28	1,553.74	33.54	47.331	
4,200.00	3,503.49	3,870.73	3,811.52	44.23	16.33	-36.48	1,720.86	2,977.36	1,508.68	1,473.86	34.82	43.327	
4,300.00	3,576.45	3,919.19	3,858.69	45.74	16.58	-37.65	1,711.95	2,970.72	1,430.78	1,394.58	36.20	39.522	
4,400.00	3,649.40	3,967.47	3,905.76	47.25	16.83	-38.91	1,703.43	2,964.21	1,353.73	1,316.03	37.70	35.905	
4,500.00	3,722.36	4,019.63	3,956.70	48.75	17.09	-40.41	1,694.63	2,957.25	1,277.58	1,238.27	39.32	32.493	
4,600.00	3,795.32	4,074.23	4,010.07	50.26	17.37	-42.13	1,685.72	2,949.92	1,202.30	1,161.22	41.08	29.269	
4,700.00	3,868.27	4,128.26	4,062.92	51.77	17.63	-44.02	1,677.25	2,942.58	1,128.02	1,084.99	43.03	26.214	
4,800.00	3,941.23	4,185.84	4,119.29	53.28	17.92	-46.26	1,668.68	2,934.58	1,054.95	1,009.77	45.19	23.346	
4,900.00	4,014.19	4,263.23	4,194.88	54.79	18.31	-49.69	1,656.95	2,922.83	982.50	935.05	47.46	20.703	
5,000.00	4,087.15	4,322.36	4,252.48	56.30	18.62	-52.67	1,647.68	2,913.17	910.96	860.76	50.19	18.149	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	4,381.57	4,310.12	57.81	18.93	-55.98	1,638.38	2,903.40	841.31	788.01	53.30	15.784	
5,200.00	4,233.06	4,444.38	4,371.19	59.32	19.26	-59.91	1,628.30	2,892.65	773.82	717.00	56.82	13.618	
5,300.00	4,306.02	4,513.59	4,438.24	60.83	19.64	-64.77	1,616.55	2,880.18	708.91	648.13	60.78	11.664	
5,400.00	4,378.97	4,573.55	4,496.06	62.34	19.97	-69.45	1,605.42	2,868.88	647.24	581.85	65.39	9.898	
5,500.00	4,451.93	4,622.41	4,543.23	63.85	20.24	-73.59	1,596.48	2,859.78	591.36	520.67	70.69	8.365	
5,600.00	4,524.89	4,677.22	4,596.24	65.36	20.54	-78.55	1,586.73	2,849.84	543.13	466.84	76.29	7.119	
5,700.00	4,597.84	4,736.46	4,653.47	66.88	20.87	-84.24	1,575.76	2,839.15	503.88	422.07	81.81	6.159	
5,800.00	4,670.80	4,788.17	4,703.46	68.39	21.16	-89.42	1,566.12	2,830.11	476.17	389.41	86.77	5.488	
5,900.00	4,743.76	4,842.00	4,755.71	69.90	21.45	-94.90	1,556.58	2,821.39	462.38	372.18	90.20	5.126	
5,944.85	4,776.48	4,868.09	4,781.05	70.58	21.59	-97.58	1,551.99	2,817.22	460.91	369.85	91.06	5.061	CC, ES
6,000.00	4,816.71	4,899.52	4,811.52	71.41	21.76	-100.82	1,546.31	2,812.01	463.15	371.64	91.51	5.061	SF
6,100.00	4,889.67	4,955.58	4,865.72	72.93	22.07	-106.58	1,535.79	2,802.26	478.49	387.86	90.63	5.280	
6,200.00	4,962.63	5,010.00	4,918.08	74.44	22.38	-112.07	1,524.87	2,792.22	507.32	419.36	87.96	5.768	
6,300.00	5,035.59	5,063.73	4,969.61	75.95	22.69	-117.29	1,513.64	2,781.99	547.82	463.59	84.23	6.504	
6,400.00	5,108.54	5,119.51	5,023.26	77.47	23.02	-122.37	1,502.30	2,771.73	597.52	517.31	80.21	7.450	
6,500.00	5,181.50	5,186.72	5,088.05	78.98	23.40	-127.97	1,488.60	2,760.29	653.70	577.32	76.38	8.558	
6,600.00	5,254.46	5,246.41	5,145.66	80.49	23.73	-132.49	1,476.04	2,751.00	714.42	641.51	72.91	9.799	
6,700.00	5,327.41	5,299.48	5,196.80	82.01	24.03	-136.19	1,464.59	2,742.64	779.38	709.55	69.83	11.161	
6,800.00	5,400.37	5,360.92	5,256.04	83.52	24.38	-140.07	1,451.39	2,733.07	847.51	780.26	67.26	12.601	
6,900.00	5,473.33	5,421.35	5,314.54	85.04	24.71	-143.45	1,439.09	2,724.24	917.64	852.48	65.16	14.083	
7,000.00	5,546.28	5,472.40	5,363.92	86.55	25.00	-146.05	1,428.56	2,716.69	989.81	926.48	63.33	15.629	
7,100.00	5,619.24	5,526.06	5,415.73	88.06	25.30	-148.55	1,417.23	2,708.51	1,063.78	1,001.96	61.83	17.206	
7,200.00	5,692.20	5,583.42	5,471.19	89.58	25.62	-150.96	1,405.46	2,699.78	1,138.98	1,078.33	60.66	18.777	
7,300.00	5,765.15	5,644.92	5,530.72	91.09	25.95	-153.27	1,393.12	2,690.57	1,215.03	1,155.24	59.79	20.321	
7,400.00	5,838.11	5,705.21	5,589.14	92.61	26.28	-155.31	1,381.07	2,681.81	1,291.64	1,232.52	59.12	21.849	
7,500.00	5,911.07	5,761.54	5,643.78	94.12	26.59	-157.02	1,370.04	2,673.64	1,368.88	1,310.31	58.57	23.371	
7,600.00	5,984.03	5,811.84	5,692.59	95.64	26.86	-158.41	1,360.46	2,666.22	1,446.78	1,388.69	58.09	24.904	
7,700.00	6,056.98	5,858.65	5,738.03	97.15	27.12	-159.59	1,351.82	2,658.98	1,525.49	1,467.80	57.70	26.440	
7,800.00	6,129.94	5,918.42	5,796.07	98.67	27.44	-160.95	1,341.21	2,649.45	1,604.78	1,547.18	57.60	27.859	
7,900.00	6,202.90	5,986.11	5,861.95	100.18	27.80	-162.33	1,329.74	2,638.94	1,684.06	1,626.33	57.74	29.168	
8,000.00	6,275.85	6,039.93	5,914.25	101.70	28.09	-163.36	1,320.00	2,630.78	1,763.54	1,705.83	57.71	30.558	
8,100.00	6,348.81	6,163.56	6,034.65	103.21	28.74	-165.48	1,297.66	2,613.87	1,842.66	1,783.88	58.78	31.346	
8,200.00	6,421.77	6,294.12	6,163.17	104.73	29.35	-167.21	1,278.85	2,600.78	1,918.82	1,858.77	60.05	31.955	
8,300.00	6,494.72	6,362.93	6,231.15	106.24	29.66	-167.99	1,270.12	2,594.75	1,994.37	1,933.92	60.45	32.993	
8,400.00	6,567.68	6,418.21	6,285.83	107.76	29.90	-168.54	1,263.70	2,589.68	2,070.15	2,009.46	60.69	34.108	
8,500.00	6,640.64	8,500.00	6,379.15	109.27	38.48	-169.33	1,254.76	2,581.37	2,145.40	2,076.28	69.11	31.041	
8,600.00	6,713.59	6,658.30	6,524.40	110.79	30.85	-170.32	1,244.34	2,571.70	2,218.63	2,155.44	63.19	35.111	
8,700.00	6,786.55	6,735.42	6,601.30	112.30	31.12	-170.75	1,240.33	2,567.41	2,291.30	2,227.46	63.84	35.892	
8,800.00	6,859.51	6,816.47	6,682.16	113.82	31.41	-171.14	1,236.85	2,563.12	2,363.68	2,299.12	64.56	36.615	
8,900.00	6,932.46	6,928.76	6,794.29	115.33	31.78	-171.60	1,233.61	2,558.15	2,435.25	2,369.55	65.71	37.063	
9,000.00	7,005.42	7,023.01	6,888.47	116.85	32.07	-171.92	1,232.17	2,554.95	2,505.93	2,439.32	66.61	37.620	
9,104.89	7,081.95	7,095.19	6,960.61	118.44	32.29	-172.15	1,231.29	2,552.71	2,579.81	2,512.60	67.21	38.384	
9,150.00	7,115.15	7,139.73	7,005.13	119.12	32.43	178.69	1,230.71	2,551.45	2,611.31	2,543.66	67.66	38.597	
9,200.00	7,152.46	7,193.87	7,059.25	119.86	32.60	168.73	1,229.82	2,550.31	2,645.37	2,577.14	68.23	38.771	
9,250.00	7,190.04	7,275.45	7,140.82	120.57	32.84	159.33	1,228.69	2,549.51	2,678.10	2,608.94	69.16	38.723	
9,300.00	7,227.59	7,320.19	7,185.56	121.25	32.96	150.29	1,228.46	2,549.48	2,709.27	2,639.62	69.65	38.897	
9,350.00	7,264.83	7,355.50	7,220.87	121.89	33.06	141.75	1,228.49	2,549.39	2,739.14	2,669.09	70.06	39.100	
9,400.00	7,301.48	7,626.14	7,487.03	122.48	33.54	137.41	1,268.19	2,551.02	2,765.47	2,692.13	73.34	37.706	
9,450.00	7,337.26	7,659.06	7,517.57	123.01	33.55	130.72	1,280.47	2,550.71	2,789.59	2,715.73	73.86	37.766	
9,500.00	7,371.90	7,684.80	7,540.97	123.49	33.56	124.59	1,291.18	2,550.22	2,812.37	2,738.02	74.34	37.829	
9,550.00	7,405.13	8,040.38	7,802.92	123.91	33.23	126.28	1,523.23	2,543.06	2,833.40	2,753.13	80.28	35.295	
9,600.00	7,436.70	8,023.81	7,794.23	124.27	33.26	120.54	1,509.13	2,543.35	2,852.91	2,772.61	80.31	35.526	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	8,004.76	7,783.78	124.57	33.30	115.35	1,493.20	2,543.64	2,871.34	2,791.03	80.31	35.751	
9,700.00	7,493.91	7,979.20	7,769.03	124.81	33.35	110.62	1,472.34	2,544.00	2,888.53	2,808.30	80.23	36.003	
9,750.00	7,519.11	7,952.88	7,753.00	125.00	33.39	106.45	1,451.46	2,544.32	2,904.29	2,824.12	80.17	36.226	
9,800.00	7,541.79	7,743.03	7,592.36	125.12	33.57	99.17	1,318.46	2,548.47	2,918.27	2,841.37	76.90	37.947	
9,850.00	7,561.77	7,738.35	7,588.31	125.20	33.57	96.54	1,316.12	2,548.63	2,930.16	2,852.86	77.30	37.908	
9,900.00	7,578.90	7,730.95	7,581.88	125.23	33.57	94.32	1,312.48	2,548.88	2,940.18	2,862.48	77.70	37.838	
9,950.00	7,593.04	7,721.34	7,573.48	125.22	33.57	92.50	1,307.83	2,549.20	2,948.27	2,870.13	78.14	37.731	
10,000.00	7,604.09	7,717.00	7,569.66	125.17	33.57	91.18	1,305.77	2,549.34	2,954.36	2,875.62	78.73	37.523	
10,050.00	7,611.97	7,702.05	7,556.42	125.08	33.57	90.07	1,298.83	2,549.78	2,958.37	2,879.16	79.21	37.348	
10,100.00	7,616.61	7,691.29	7,546.81	124.97	33.56	89.42	1,294.01	2,550.06	2,960.28	2,880.45	79.83	37.082	
10,145.95	7,618.00	7,680.60	7,537.18	124.84	33.56	89.15	1,289.37	2,550.31	2,960.16	2,879.71	80.45	36.796	
10,200.00	7,618.00	7,670.00	7,527.57	124.69	33.56	88.97	1,284.91	2,550.52	2,959.38	2,878.12	81.26	36.421	
10,217.31	7,618.00	7,670.00	7,527.57	124.64	33.56	88.97	1,284.91	2,550.52	2,959.33	2,877.74	81.58	36.273	
10,300.00	7,618.00	7,649.15	7,508.45	124.41	33.55	88.60	1,276.60	2,550.84	2,960.33	2,877.53	82.80	35.754	
10,400.00	7,618.00	7,622.00	7,483.15	124.14	33.53	88.11	1,266.76	2,551.04	2,964.46	2,880.15	84.31	35.160	
10,500.00	7,618.00	7,622.00	7,483.15	123.88	33.53	88.11	1,266.76	2,551.04	2,971.69	2,885.33	86.36	34.412	
10,600.00	7,618.00	7,601.12	7,463.39	123.63	33.51	87.72	1,260.01	2,551.06	2,982.10	2,894.02	88.09	33.855	
10,700.00	7,618.00	7,587.78	7,450.64	123.40	33.50	87.48	1,256.11	2,551.05	2,995.68	2,905.70	89.97	33.295	
10,800.00	7,618.00	7,575.00	7,438.33	123.18	33.49	87.24	1,252.66	2,551.02	3,012.40	2,920.52	91.88	32.786	
10,900.00	7,618.00	7,575.00	7,438.33	122.96	33.49	87.24	1,252.66	2,551.02	3,032.26	2,938.29	93.98	32.266	
11,000.00	7,618.00	7,559.13	7,422.94	122.76	33.47	86.94	1,248.75	2,550.93	3,055.15	2,959.34	95.81	31.888	
11,100.00	7,618.00	7,551.82	7,415.83	122.57	33.46	86.80	1,247.09	2,550.86	3,081.08	2,983.35	97.74	31.524	
11,200.00	7,618.00	7,545.19	7,409.36	122.39	33.45	86.68	1,245.65	2,550.79	3,109.97	3,010.34	99.63	31.214	
11,300.00	7,618.00	7,528.00	7,392.51	122.23	33.43	86.35	1,242.24	2,550.55	3,141.80	3,040.46	101.34	31.002	
11,400.00	7,618.00	7,528.00	7,392.51	122.07	33.43	86.35	1,242.24	2,550.55	3,176.30	3,073.09	103.21	30.775	
11,500.00	7,618.00	7,528.00	7,392.51	121.93	33.43	86.35	1,242.24	2,550.55	3,213.55	3,108.54	105.01	30.602	
11,600.00	7,618.00	7,528.00	7,392.51	121.79	33.43	86.35	1,242.24	2,550.55	3,253.45	3,146.71	106.73	30.482	
11,700.00	7,618.00	7,528.00	7,392.51	121.67	33.43	86.35	1,242.24	2,550.55	3,295.89	3,187.51	108.38	30.410	
11,800.00	7,618.00	7,510.75	7,375.53	121.56	33.40	86.03	1,239.23	2,550.26	3,340.66	3,230.89	109.76	30.435	
11,900.00	7,618.00	7,505.62	7,370.47	121.46	33.39	85.93	1,238.40	2,550.17	3,387.82	3,276.61	111.21	30.463	
12,000.00	7,618.00	7,500.86	7,365.77	121.38	33.38	85.84	1,237.66	2,550.09	3,437.22	3,324.64	112.58	30.530	
12,100.00	7,618.00	7,496.44	7,361.39	121.30	33.37	85.76	1,237.00	2,550.01	3,488.77	3,374.88	113.89	30.634	
12,200.00	7,618.00	7,481.00	7,346.11	121.24	33.35	85.46	1,234.87	2,549.72	3,542.44	3,427.42	115.02	30.799	
12,300.00	7,618.00	7,481.00	7,346.11	121.19	33.35	85.46	1,234.87	2,549.72	3,597.97	3,481.75	116.22	30.958	
12,400.00	7,618.00	7,481.00	7,346.11	121.16	33.35	85.46	1,234.87	2,549.72	3,655.40	3,538.04	117.35	31.149	
12,500.00	7,618.00	7,481.00	7,346.11	121.14	33.35	85.46	1,234.87	2,549.72	3,714.63	3,596.21	118.41	31.370	
12,600.00	7,618.00	7,481.00	7,346.11	121.13	33.35	85.46	1,234.87	2,549.72	3,775.58	3,656.16	119.41	31.618	
12,700.00	7,618.00	7,481.00	7,346.11	121.13	33.35	85.46	1,234.87	2,549.72	3,838.16	3,717.82	120.35	31.893	
12,800.00	7,618.00	7,481.00	7,346.11	121.15	33.35	85.46	1,234.87	2,549.72	3,902.31	3,781.09	121.22	32.192	
12,900.00	7,618.00	7,481.00	7,346.11	121.18	33.35	85.46	1,234.87	2,549.72	3,967.94	3,845.90	122.04	32.514	
13,000.00	7,618.00	7,481.00	7,346.11	121.23	33.35	85.46	1,234.87	2,549.72	4,034.98	3,912.18	122.80	32.857	
13,100.00	7,618.00	7,462.20	7,327.44	121.29	33.31	85.10	1,232.70	2,549.41	4,103.19	3,979.81	123.39	33.255	
13,200.00	7,618.00	7,459.75	7,325.00	121.37	33.31	85.06	1,232.45	2,549.38	4,172.80	4,048.76	124.04	33.641	
13,300.00	7,618.00	7,457.46	7,322.71	121.46	33.30	85.01	1,232.23	2,549.35	4,243.62	4,118.97	124.65	34.044	
13,400.00	7,618.00	7,455.31	7,320.58	121.57	33.30	84.97	1,232.03	2,549.33	4,315.58	4,190.36	125.22	34.464	
13,500.00	7,618.00	7,453.30	7,318.57	121.70	33.29	84.93	1,231.85	2,549.31	4,388.65	4,262.89	125.75	34.899	
13,600.00	7,618.00	7,451.40	7,316.69	121.84	33.29	84.90	1,231.68	2,549.29	4,462.75	4,336.50	126.25	35.349	
13,700.00	7,618.00	7,433.00	7,298.33	122.01	33.25	84.55	1,230.32	2,549.18	4,537.99	4,411.37	126.62	35.840	
13,800.00	7,618.00	7,433.00	7,298.33	122.19	33.25	84.55	1,230.32	2,549.18	4,614.00	4,486.93	127.06	36.313	
13,900.00	7,618.00	7,433.00	7,298.33	122.39	33.25	84.55	1,230.32	2,549.18	4,690.90	4,563.43	127.47	36.799	
14,000.00	7,618.00	7,433.00	7,298.33	122.62	33.25	84.55	1,230.32	2,549.18	4,768.67	4,640.81	127.86	37.296	
14,100.00	7,618.00	7,433.00	7,298.33	122.86	33.25	84.55	1,230.32	2,549.18	4,847.25	4,719.03	128.22	37.805	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,200.00	7,618.00	7,433.00	7,298.33	123.12	33.25	84.55	1,230.32	2,549.18	4,926.61	4,798.06	128.55	38.325	
14,300.00	7,618.00	7,433.00	7,298.33	123.41	33.25	84.55	1,230.32	2,549.18	5,006.70	4,877.84	128.86	38.854	
14,400.00	7,618.00	7,433.00	7,298.33	123.72	33.25	84.55	1,230.32	2,549.18	5,087.50	4,958.35	129.15	39.393	
14,500.00	7,618.00	7,433.00	7,298.33	124.06	33.25	84.55	1,230.32	2,549.18	5,168.97	5,039.56	129.42	39.941	
14,600.00	7,618.00	7,433.00	7,298.33	124.42	33.25	84.55	1,230.32	2,549.18	5,251.09	5,121.42	129.66	40.497	
14,700.00	7,618.00	7,433.00	7,298.33	124.80	33.25	84.55	1,230.32	2,549.18	5,333.81	5,203.91	129.90	41.062	
14,800.00	7,618.00	7,433.00	7,298.33	125.21	33.25	84.55	1,230.32	2,549.18	5,417.12	5,287.00	130.11	41.634	
14,900.00	7,618.00	7,433.00	7,298.33	125.65	33.25	84.55	1,230.32	2,549.18	5,500.98	5,370.67	130.31	42.214	
15,000.00	7,618.00	7,433.00	7,298.33	126.11	33.25	84.55	1,230.32	2,549.18	5,585.37	5,454.87	130.50	42.800	
15,100.00	7,618.00	7,433.00	7,298.33	126.61	33.25	84.55	1,230.32	2,549.18	5,670.27	5,539.60	130.67	43.393	
15,200.00	7,618.00	7,433.00	7,298.33	127.13	33.25	84.55	1,230.32	2,549.18	5,755.66	5,624.83	130.83	43.992	
15,300.00	7,618.00	7,433.00	7,298.33	127.68	33.25	84.55	1,230.32	2,549.18	5,841.51	5,710.53	130.98	44.598	
15,400.00	7,618.00	7,433.00	7,298.33	128.26	33.25	84.55	1,230.32	2,549.18	5,927.80	5,796.68	131.12	45.209	
15,500.00	7,618.00	7,433.00	7,298.33	128.87	33.25	84.55	1,230.32	2,549.18	6,014.52	5,883.27	131.25	45.825	
15,600.00	7,618.00	7,433.00	7,298.33	129.51	33.25	84.55	1,230.32	2,549.18	6,101.65	5,970.28	131.37	46.446	
15,700.00	7,618.00	7,433.00	7,298.33	130.18	33.25	84.55	1,230.32	2,549.18	6,189.16	6,057.68	131.48	47.073	
15,800.00	7,618.00	7,433.00	7,298.33	130.88	33.25	84.55	1,230.32	2,549.18	6,277.05	6,145.47	131.58	47.704	
15,900.00	7,618.00	7,433.00	7,298.33	131.61	33.25	84.55	1,230.32	2,549.18	6,365.29	6,233.61	131.68	48.339	
16,000.00	7,618.00	7,433.00	7,298.33	132.37	33.25	84.55	1,230.32	2,549.18	6,453.88	6,322.11	131.77	48.979	
16,100.00	7,618.00	7,433.00	7,298.33	133.17	33.25	84.55	1,230.32	2,549.18	6,542.80	6,410.95	131.85	49.623	
16,200.00	7,618.00	7,433.00	7,298.33	133.99	33.25	84.55	1,230.32	2,549.18	6,632.03	6,500.10	131.93	50.270	
16,300.00	7,618.00	7,433.00	7,298.33	134.84	33.25	84.55	1,230.32	2,549.18	6,721.57	6,589.57	132.00	50.922	
16,400.00	7,618.00	7,433.00	7,298.33	135.72	33.25	84.55	1,230.32	2,549.18	6,811.39	6,679.33	132.06	51.577	
16,500.00	7,618.00	7,433.00	7,298.33	136.63	33.25	84.55	1,230.32	2,549.18	6,901.50	6,769.37	132.12	52.235	
16,600.00	7,618.00	7,433.00	7,298.33	137.57	33.25	84.55	1,230.32	2,549.18	6,991.87	6,859.69	132.18	52.897	
16,700.00	7,618.00	7,433.00	7,298.33	138.54	33.25	84.55	1,230.32	2,549.18	7,082.51	6,950.28	132.23	53.561	
16,800.00	7,618.00	7,433.00	7,298.33	139.53	33.25	84.55	1,230.32	2,549.18	7,173.39	7,041.11	132.28	54.229	
16,900.00	7,618.00	7,433.00	7,298.33	140.55	33.25	84.55	1,230.32	2,549.18	7,264.51	7,132.19	132.32	54.899	
17,000.00	7,618.00	7,433.00	7,298.33	141.60	33.25	84.55	1,230.32	2,549.18	7,355.87	7,223.50	132.36	55.573	
17,100.00	7,618.00	7,433.00	7,298.33	142.67	33.25	84.55	1,230.32	2,549.18	7,447.44	7,315.04	132.40	56.248	
17,200.00	7,618.00	7,433.00	7,298.33	143.77	33.25	84.55	1,230.32	2,549.18	7,539.23	7,406.79	132.44	56.927	
17,300.00	7,618.00	7,433.00	7,298.33	144.88	33.25	84.55	1,230.32	2,549.18	7,631.23	7,498.76	132.47	57.607	
17,400.00	7,618.00	7,433.00	7,298.33	146.02	33.25	84.55	1,230.32	2,549.18	7,723.42	7,590.92	132.50	58.290	
17,500.00	7,618.00	7,433.00	7,298.33	147.19	33.25	84.55	1,230.32	2,549.18	7,815.81	7,683.28	132.53	58.975	
17,600.00	7,618.00	7,433.00	7,298.33	148.37	33.25	84.55	1,230.32	2,549.18	7,908.38	7,775.83	132.55	59.663	
17,700.00	7,618.00	7,433.00	7,298.33	149.57	33.25	84.55	1,230.32	2,549.18	8,001.13	7,868.56	132.57	60.352	
17,800.00	7,618.00	7,433.00	7,298.33	150.79	33.25	84.55	1,230.32	2,549.18	8,094.05	7,961.46	132.60	61.043	
17,900.00	7,618.00	7,433.00	7,298.33	152.03	33.25	84.55	1,230.32	2,549.18	8,187.14	8,054.53	132.62	61.736	
18,000.00	7,618.00	7,433.00	7,298.33	153.29	33.25	84.55	1,230.32	2,549.18	8,280.40	8,147.76	132.63	62.431	
18,100.00	7,618.00	7,433.00	7,298.33	154.57	33.25	84.55	1,230.32	2,549.18	8,373.80	8,241.15	132.65	63.127	
18,200.00	7,618.00	7,412.28	7,277.64	155.86	33.20	84.15	1,229.30	2,549.17	8,467.13	8,334.52	132.60	63.853	
18,300.00	7,618.00	7,411.87	7,277.24	157.17	33.20	84.14	1,229.28	2,549.17	8,560.82	8,428.20	132.62	64.553	
18,400.00	7,618.00	7,411.48	7,276.84	158.49	33.20	84.13	1,229.27	2,549.17	8,654.65	8,522.02	132.63	65.255	
18,500.00	7,618.00	7,411.10	7,276.46	159.82	33.20	84.13	1,229.25	2,549.17	8,748.62	8,615.98	132.64	65.958	
18,600.00	7,618.00	7,410.72	7,276.08	161.17	33.20	84.12	1,229.24	2,549.17	8,842.73	8,710.08	132.65	66.662	
18,700.00	7,618.00	7,410.36	7,275.72	162.54	33.20	84.11	1,229.23	2,549.17	8,936.96	8,804.30	132.66	67.368	
18,800.00	7,618.00	7,410.00	7,275.36	163.91	33.20	84.10	1,229.21	2,549.17	9,031.31	8,898.65	132.67	68.075	
18,900.00	7,618.00	7,409.65	7,275.01	165.30	33.19	84.10	1,229.20	2,549.17	9,125.79	8,993.11	132.68	68.783	
19,000.00	7,618.00	7,409.30	7,274.67	166.70	33.19	84.09	1,229.19	2,549.17	9,220.38	9,087.70	132.68	69.492	
19,100.00	7,618.00	7,408.97	7,274.33	168.10	33.19	84.09	1,229.18	2,549.17	9,315.09	9,182.40	132.69	70.202	
19,200.00	7,618.00	7,408.64	7,274.00	169.52	33.19	84.08	1,229.17	2,549.17	9,409.90	9,277.20	132.70	70.914	
19,300.00	7,618.00	7,408.32	7,273.68	170.95	33.19	84.07	1,229.16	2,549.17	9,504.82	9,372.12	132.70	71.626	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,400.00	7,618.00	7,408.00	7,273.37	172.39	33.19	84.07	1,229.15	2,549.17	9,599.84	9,467.14	132.71	72.339	
19,500.00	7,618.00	7,407.70	7,273.06	173.84	33.19	84.06	1,229.14	2,549.17	9,694.97	9,562.26	132.71	73.054	
19,600.00	7,618.00	7,407.39	7,272.76	175.30	33.19	84.05	1,229.13	2,549.17	9,790.19	9,657.47	132.71	73.769	
19,700.00	7,618.00	7,407.10	7,272.46	176.76	33.19	84.05	1,229.12	2,549.17	9,885.50	9,752.78	132.72	74.485	
19,800.00	7,618.00	7,386.00	7,251.37	178.24	33.14	83.65	1,228.69	2,549.25	9,981.15	9,848.48	132.67	75.233	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	57.85	2,113.10	3,362.27	3,971.32				
100.00	100.00	52.14	52.14	0.13	0.10	57.85	2,113.11	3,362.31	3,971.20	3,970.97	0.23	N/A	
200.00	200.00	125.00	125.00	0.49	0.36	57.86	2,113.17	3,362.82	3,971.84	3,970.98	0.85	4,660.202	
300.00	299.98	196.27	196.26	0.85	0.61	-11.46	2,113.46	3,363.77	3,971.46	3,970.00	1.46	2,716.480	
400.00	399.84	291.86	291.83	1.21	0.96	-11.49	2,114.31	3,365.33	3,968.18	3,966.02	2.16	1,834.598	
500.00	499.45	445.57	445.53	1.58	1.51	-11.55	2,114.98	3,367.07	3,960.87	3,957.79	3.08	1,286.744	
600.00	598.70	568.26	568.22	1.97	1.93	-11.64	2,114.79	3,367.21	3,948.91	3,945.05	3.87	1,020.623	
700.00	697.47	677.62	677.58	2.38	2.29	-11.76	2,115.02	3,366.79	3,933.39	3,928.78	4.61	852.731	
800.00	795.62	799.04	799.00	2.83	2.71	-11.92	2,115.04	3,365.69	3,913.95	3,908.55	5.41	724.126	
900.00	893.06	878.79	878.74	3.31	2.98	-12.08	2,114.89	3,364.90	3,891.04	3,884.97	6.06	641.836	
1,000.00	989.64	965.89	965.84	3.83	3.29	-12.27	2,115.15	3,364.44	3,865.41	3,858.65	6.75	572.316	
1,100.00	1,085.27	1,092.77	1,092.71	4.40	3.73	-12.55	2,115.72	3,362.98	3,836.10	3,828.51	7.59	505.314	
1,200.00	1,179.82	1,170.64	1,170.57	5.02	4.00	-12.79	2,115.47	3,362.07	3,803.20	3,794.94	8.27	460.062	
1,300.00	1,273.17	1,931.30	1,925.49	5.70	6.80	-13.85	2,063.33	3,306.38	3,756.81	3,745.64	11.17	336.310	
1,400.00	1,365.21	1,987.60	1,980.61	6.43	7.03	-14.16	2,053.23	3,300.93	3,702.69	3,690.92	11.77	314.531	
1,500.00	1,455.84	1,500.00	2,078.64	7.23	5.15	-14.48	2,033.50	3,292.37	3,645.78	3,635.49	10.29	354.453	
1,600.00	1,544.94	2,171.63	2,160.16	8.09	7.81	-14.83	2,016.08	3,285.36	3,585.68	3,572.46	13.22	271.197	
1,700.00	1,632.39	2,244.28	2,231.04	9.01	8.13	-15.25	2,001.24	3,279.48	3,523.29	3,509.39	13.90	253.508	
1,800.00	1,718.11	2,320.12	2,304.96	10.00	8.47	-15.72	1,985.41	3,273.40	3,458.17	3,443.58	14.59	237.020	
1,900.00	1,801.97	2,377.20	2,360.67	11.07	8.73	-16.25	1,973.87	3,268.82	3,390.81	3,375.57	15.23	222.591	
2,000.00	1,883.88	2,426.27	2,408.65	12.20	8.94	-16.85	1,964.36	3,264.93	3,321.41	3,305.55	15.86	209.399	
2,100.00	1,963.74	2,472.94	2,454.37	13.41	9.15	-17.53	1,955.64	3,261.41	3,250.16	3,233.66	16.49	197.079	
2,200.00	2,041.45	2,518.61	2,499.17	14.69	9.36	-18.29	1,947.40	3,258.15	3,177.09	3,159.96	17.13	185.494	
2,300.00	2,116.92	2,573.00	2,552.61	16.05	9.60	-19.17	1,937.99	3,254.49	3,102.29	3,084.49	17.79	174.348	
2,357.48	2,159.25	2,573.00	2,552.61	16.86	9.60	-19.62	1,937.99	3,254.49	3,058.54	3,040.43	18.11	168.884	
2,400.00	2,190.27	2,605.65	2,584.74	17.47	9.74	-19.75	1,932.56	3,252.41	3,025.94	3,007.52	18.42	164.281	
2,500.00	2,263.22	2,648.09	2,626.56	18.92	9.93	-19.92	1,925.81	3,249.84	2,949.75	2,930.68	19.08	154.629	
2,600.00	2,336.18	2,691.22	2,669.12	20.37	10.11	-20.11	1,919.28	3,247.37	2,874.06	2,854.31	19.75	145.486	
2,700.00	2,409.14	2,735.04	2,712.43	21.84	10.30	-20.31	1,913.01	3,245.01	2,798.89	2,778.44	20.46	136.828	
2,800.00	2,482.09	2,802.98	2,779.66	23.31	10.59	-20.65	1,903.89	3,241.39	2,724.13	2,702.92	21.21	128.416	
2,900.00	2,555.05	2,907.31	2,882.86	24.78	11.04	-21.26	1,890.41	3,234.24	2,648.80	2,626.77	22.03	120.237	
3,000.00	2,628.01	2,990.51	2,965.03	26.27	11.40	-21.80	1,879.19	3,227.58	2,572.65	2,549.83	22.82	112.728	
3,100.00	2,700.96	3,054.04	3,027.68	27.75	11.68	-22.20	1,869.79	3,222.83	2,496.38	2,472.78	23.60	105.763	
3,200.00	2,773.92	3,105.39	3,078.32	29.24	11.91	-22.54	1,862.10	3,219.28	2,420.39	2,395.99	24.40	99.209	
3,300.00	2,846.88	3,152.16	3,124.49	30.73	12.11	-22.86	1,855.24	3,216.25	2,344.82	2,319.61	25.21	93.004	
3,400.00	2,919.83	3,194.99	3,166.84	32.23	12.30	-23.17	1,849.39	3,213.64	2,269.90	2,243.84	26.06	87.119	
3,500.00	2,992.79	3,295.51	3,266.33	33.72	12.73	-24.00	1,836.51	3,207.22	2,195.44	2,168.53	26.91	81.578	
3,600.00	3,065.75	3,418.04	3,387.15	35.22	13.27	-25.18	1,819.64	3,195.87	2,118.93	2,091.18	27.75	76.364	
3,700.00	3,138.71	3,467.22	3,435.59	36.72	13.49	-25.72	1,812.97	3,190.69	2,042.05	2,013.39	28.66	71.241	
3,800.00	3,211.66	3,526.09	3,493.64	38.22	13.76	-26.41	1,805.15	3,184.72	1,965.61	1,936.01	29.60	66.395	
3,900.00	3,284.62	3,615.57	3,581.75	39.72	14.16	-27.54	1,792.84	3,175.08	1,888.83	1,858.31	30.52	61.889	
4,000.00	3,357.58	3,672.81	3,638.05	41.22	14.43	-28.34	1,784.81	3,168.69	1,811.92	1,780.39	31.53	57.458	
4,100.00	3,430.53	3,753.29	3,717.16	42.73	14.80	-29.55	1,773.10	3,159.63	1,734.99	1,702.46	32.53	53.342	
4,200.00	3,503.49	3,826.78	3,789.18	44.23	15.15	-30.72	1,761.11	3,151.22	1,657.43	1,623.87	33.56	49.383	
4,300.00	3,576.45	3,887.88	3,848.99	45.74	15.44	-31.76	1,750.58	3,144.54	1,579.97	1,545.28	34.69	45.545	
4,400.00	3,649.40	3,932.03	3,892.24	47.25	15.65	-32.56	1,742.97	3,140.01	1,503.07	1,467.10	35.97	41.790	
4,500.00	3,722.36	3,980.00	3,939.33	48.75	15.88	-33.49	1,735.00	3,135.50	1,427.10	1,389.78	37.32	38.244	
4,600.00	3,795.32	4,046.04	4,004.17	50.26	16.19	-34.87	1,723.85	3,129.74	1,351.66	1,313.01	38.64	34.978	
4,700.00	3,868.27	4,101.10	4,058.17	51.77	16.45	-36.09	1,714.08	3,125.22	1,276.44	1,236.31	40.13	31.807	
4,800.00	3,941.23	4,147.38	4,103.63	53.28	16.66	-37.19	1,706.09	3,121.98	1,202.36	1,160.55	41.81	28.757	
4,900.00	4,014.19	4,206.50	4,161.82	54.79	16.93	-38.73	1,696.29	3,118.34	1,129.45	1,085.92	43.53	25.945	
5,000.00	4,087.15	4,279.09	4,233.30	56.30	17.27	-40.92	1,684.83	3,112.92	1,056.97	1,011.65	45.32	23.322	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	4,371.18	4,323.68	57.81	17.70	-44.26	1,669.75	3,103.78	983.93	936.82	47.11	20.886	
5,200.00	4,233.06	4,438.51	4,389.53	59.32	18.03	-47.12	1,657.87	3,096.32	910.86	861.47	49.39	18.443	
5,300.00	4,306.02	4,494.73	4,444.45	60.83	18.31	-49.80	1,647.66	3,090.03	838.74	786.62	52.12	16.092	
5,400.00	4,378.97	4,549.56	4,498.11	62.34	18.58	-52.75	1,638.09	3,084.06	768.68	713.40	55.28	13.905	
5,500.00	4,451.93	4,623.48	4,570.34	63.85	18.95	-57.26	1,624.59	3,076.03	700.29	641.71	58.58	11.954	
5,600.00	4,524.89	4,679.50	4,624.96	65.36	19.23	-61.15	1,613.74	3,069.92	634.05	571.31	62.74	10.106	
5,700.00	4,597.84	4,731.92	4,676.20	66.88	19.49	-65.22	1,604.16	3,064.48	572.16	504.53	67.63	8.461	
5,800.00	4,670.80	4,788.74	4,731.87	68.39	19.76	-70.15	1,594.38	3,058.56	515.84	442.72	73.12	7.055	
5,900.00	4,743.76	4,849.77	4,791.68	69.90	20.06	-76.06	1,584.35	3,051.76	466.75	387.65	79.10	5.901	
6,000.00	4,816.71	4,920.34	4,860.66	71.41	20.41	-83.56	1,571.66	3,043.98	426.04	341.09	84.95	5.015	
6,100.00	4,889.67	4,981.33	4,920.14	72.93	20.72	-90.53	1,559.84	3,037.46	396.60	306.34	90.27	4.394	
6,200.00	4,962.63	5,041.93	4,979.24	74.44	21.02	-97.74	1,547.99	3,031.17	381.90	288.24	93.65	4.078	
6,239.97	4,991.79	5,066.25	5,002.96	75.04	21.14	-100.67	1,543.24	3,028.73	380.57	286.35	94.22	4.039	CC, ES, SF
6,300.00	5,035.59	5,103.06	5,038.88	75.95	21.33	-105.08	1,536.05	3,025.16	383.54	289.40	94.15	4.074	
6,400.00	5,108.54	5,163.38	5,097.80	77.47	21.63	-112.15	1,524.42	3,019.57	401.27	309.43	91.83	4.370	
6,500.00	5,181.50	5,225.11	5,158.20	78.98	21.94	-119.00	1,512.84	3,014.10	433.05	345.40	87.65	4.941	
6,600.00	5,254.46	5,289.99	5,221.74	80.49	22.25	-125.62	1,500.86	3,008.84	475.65	392.87	82.78	5.746	
6,700.00	5,327.41	5,357.27	5,287.69	82.01	22.58	-131.78	1,488.47	3,004.01	526.07	448.00	78.07	6.739	
6,800.00	5,400.37	5,421.49	5,350.66	83.52	22.89	-137.00	1,476.53	2,999.93	582.09	508.20	73.89	7.878	
6,900.00	5,473.33	5,479.60	5,407.61	85.04	23.17	-141.22	1,465.65	2,995.95	642.93	572.61	70.31	9.144	
7,000.00	5,546.28	5,547.64	5,474.29	86.55	23.50	-145.57	1,452.98	2,991.23	707.20	639.77	67.43	10.488	
7,100.00	5,619.24	5,614.32	5,539.75	88.06	23.81	-149.24	1,440.91	2,987.24	773.40	708.24	65.16	11.870	
7,200.00	5,692.20	5,676.26	5,600.61	89.58	24.10	-152.22	1,430.03	2,983.52	841.52	778.17	63.35	13.284	
7,300.00	5,765.15	5,738.29	5,661.61	91.09	24.40	-154.83	1,419.46	2,979.66	911.18	849.22	61.96	14.706	
7,400.00	5,838.11	5,794.04	5,716.47	92.61	24.66	-156.90	1,410.20	2,976.02	982.16	921.33	60.83	16.147	
7,500.00	5,911.07	5,840.38	5,761.99	94.12	24.88	-158.47	1,402.37	2,972.35	1,054.88	995.09	59.79	17.642	
7,600.00	5,984.03	5,888.81	5,809.47	95.64	25.12	-159.98	1,393.96	2,967.81	1,129.25	1,070.25	58.99	19.142	
7,700.00	6,056.98	5,941.70	5,861.25	97.15	25.38	-161.49	1,384.61	2,962.45	1,204.70	1,146.26	58.45	20.612	
7,800.00	6,129.94	6,013.87	5,931.90	98.67	25.72	-163.32	1,371.89	2,955.04	1,280.75	1,222.37	58.39	21.936	
7,900.00	6,202.90	6,101.60	6,018.10	100.18	26.14	-165.22	1,357.54	2,947.30	1,356.14	1,297.38	58.76	23.080	
8,000.00	6,275.85	6,173.80	6,089.27	101.70	26.48	-166.55	1,346.66	2,941.92	1,430.80	1,371.82	58.98	24.257	
8,100.00	6,348.81	6,224.55	6,139.30	103.21	26.72	-167.40	1,339.17	2,937.89	1,506.01	1,447.09	58.92	25.561	
8,200.00	6,421.77	6,285.18	6,199.03	104.73	27.00	-168.32	1,330.12	2,932.69	1,581.83	1,522.74	59.10	26.767	
8,300.00	6,494.72	6,361.18	6,273.84	106.24	27.35	-169.41	1,318.25	2,926.55	1,657.69	1,598.09	59.59	27.817	
8,400.00	6,567.68	6,469.29	6,380.59	107.76	27.84	-170.73	1,302.71	2,919.57	1,732.46	1,671.77	60.69	28.544	
8,500.00	6,640.64	6,575.29	6,485.64	109.27	28.29	-171.81	1,289.38	2,914.81	1,805.83	1,744.04	61.79	29.227	
8,600.00	6,713.59	6,686.79	6,596.48	110.79	28.73	-172.74	1,277.61	2,911.80	1,877.78	1,814.80	62.98	29.813	
8,700.00	6,786.55	6,783.03	6,692.33	112.30	29.09	-173.41	1,268.95	2,910.77	1,948.41	1,884.46	63.94	30.471	
8,800.00	6,859.51	6,853.04	6,762.14	113.82	29.34	-173.82	1,263.81	2,910.22	2,018.60	1,954.10	64.51	31.293	
8,900.00	6,932.46	6,921.29	6,830.28	115.33	29.58	-174.13	1,260.36	2,908.94	2,089.11	2,024.04	65.07	32.104	
9,000.00	7,005.42	7,026.40	6,935.34	116.85	29.93	-174.48	1,257.59	2,907.41	2,158.83	2,092.61	66.22	32.602	
9,104.89	7,081.95	7,106.35	7,015.29	118.44	30.18	-174.70	1,256.49	2,906.53	2,231.51	2,164.56	66.95	33.330	
9,150.00	7,115.15	7,145.46	7,054.39	119.12	30.29	176.37	1,256.26	2,906.11	2,262.42	2,195.07	67.35	33.594	
9,200.00	7,152.46	8,247.95	7,775.50	119.86	30.53	-172.58	1,930.15	2,916.46	2,284.75	2,196.98	87.77	26.031	
9,250.00	7,190.04	8,252.35	7,775.70	120.57	30.53	179.53	1,934.55	2,916.54	2,305.85	2,217.71	88.13	26.163	
9,300.00	7,227.59	8,251.98	7,775.68	121.25	30.53	171.39	1,934.18	2,916.54	2,327.82	2,239.44	88.38	26.338	
9,350.00	7,264.83	8,247.32	7,775.47	121.89	30.53	163.22	1,929.53	2,916.45	2,350.48	2,261.95	88.53	26.550	
9,400.00	7,301.48	8,238.82	7,775.03	122.48	30.52	155.18	1,921.04	2,916.27	2,373.61	2,285.02	88.59	26.792	
9,450.00	7,337.26	8,226.89	7,774.33	123.01	30.52	147.42	1,909.13	2,916.01	2,396.99	2,308.40	88.58	27.059	
9,500.00	7,371.90	8,211.89	7,773.30	123.49	30.51	140.08	1,894.18	2,915.64	2,420.37	2,331.85	88.51	27.344	
9,550.00	7,405.13	8,194.24	7,771.87	123.91	30.50	133.21	1,876.59	2,915.15	2,443.51	2,355.10	88.41	27.640	
9,600.00	7,436.70	8,176.00	7,770.16	124.27	30.50	126.93	1,858.44	2,914.58	2,466.18	2,377.85	88.33	27.921	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	8,157.70	7,768.06	124.57	30.51	121.24	1,840.28	2,913.91	2,488.16	2,399.86	88.30	28.179	
9,700.00	7,493.91	8,139.79	7,765.53	124.81	30.51	116.14	1,822.57	2,913.11	2,509.28	2,420.95	88.33	28.407	
9,750.00	7,519.11	7,999.78	7,730.39	125.00	30.59	109.35	1,687.44	2,907.75	2,528.79	2,443.99	84.80	29.821	
9,800.00	7,541.79	7,973.27	7,719.98	125.12	30.61	105.35	1,663.07	2,906.99	2,546.08	2,461.36	84.71	30.056	
9,850.00	7,561.77	9,850.00	7,698.95	125.20	29.75	101.52	1,622.22	2,905.43	2,561.80	2,477.95	83.85	30.552	
9,900.00	7,578.90	7,841.21	7,653.58	125.23	30.73	97.49	1,549.18	2,903.56	2,575.26	2,492.67	82.59	31.182	
9,950.00	7,593.04	7,816.16	7,638.88	125.22	30.75	95.09	1,528.90	2,903.18	2,586.54	2,503.80	82.74	31.261	
10,000.00	7,604.09	7,783.51	7,618.81	125.17	30.78	93.01	1,503.16	2,902.63	2,595.81	2,513.05	82.76	31.364	
10,050.00	7,611.97	7,664.37	7,535.34	125.08	30.87	89.84	1,418.47	2,903.14	2,601.90	2,521.20	80.70	32.243	
10,100.00	7,616.61	7,637.22	7,513.99	124.97	30.88	88.74	1,401.70	2,903.62	2,605.76	2,524.73	81.03	32.157	
10,145.95	7,618.00	7,614.00	7,495.26	124.84	30.89	88.12	1,387.99	2,904.04	2,607.30	2,525.85	81.45	32.011	
10,200.00	7,618.00	7,593.13	7,478.05	124.69	30.89	87.74	1,376.19	2,904.39	2,608.41	2,526.26	82.14	31.754	
10,300.00	7,618.00	7,567.00	7,456.03	124.41	30.89	87.25	1,362.13	2,904.73	2,612.87	2,529.08	83.80	31.182	
10,400.00	7,618.00	7,544.89	7,436.98	124.14	30.89	86.84	1,350.89	2,904.84	2,620.67	2,535.06	85.61	30.612	
10,500.00	7,618.00	7,519.00	7,414.24	123.88	30.88	86.34	1,338.54	2,904.63	2,631.98	2,544.59	87.39	30.118	
10,600.00	7,618.00	7,506.98	7,403.52	123.63	30.88	86.10	1,333.09	2,904.45	2,646.62	2,557.11	89.51	29.568	
10,700.00	7,618.00	7,479.02	7,378.30	123.40	30.87	85.55	1,321.05	2,904.06	2,664.54	2,573.25	91.29	29.188	
10,800.00	7,618.00	7,445.87	7,347.89	123.18	30.85	84.89	1,307.87	2,903.70	2,685.61	2,592.65	92.97	28.887	
10,900.00	7,618.00	7,417.62	7,321.58	122.96	30.83	84.31	1,297.57	2,903.60	2,709.75	2,615.01	94.74	28.601	
11,000.00	7,618.00	7,398.24	7,303.31	122.76	30.81	83.92	1,291.10	2,903.62	2,737.04	2,640.37	96.67	28.313	
11,100.00	7,618.00	7,378.00	7,284.04	122.57	30.79	83.50	1,284.92	2,903.71	2,767.47	2,668.93	98.54	28.085	
11,200.00	7,618.00	7,378.00	7,284.04	122.39	30.79	83.50	1,284.92	2,903.71	2,801.01	2,700.31	100.70	27.815	
11,300.00	7,618.00	7,357.33	7,264.19	122.23	30.76	83.07	1,279.17	2,903.85	2,837.50	2,735.07	102.43	27.702	
11,400.00	7,618.00	7,347.16	7,254.36	122.07	30.75	82.85	1,276.55	2,903.92	2,876.93	2,772.68	104.26	27.595	
11,500.00	7,618.00	7,331.00	7,238.68	121.93	30.73	82.51	1,272.65	2,904.04	2,919.20	2,813.29	105.91	27.563	
11,600.00	7,618.00	7,331.00	7,238.68	121.79	30.73	82.51	1,272.65	2,904.04	2,964.13	2,856.42	107.71	27.519	
11,700.00	7,618.00	7,331.00	7,238.68	121.67	30.73	82.51	1,272.65	2,904.04	3,011.71	2,902.30	109.42	27.525	
11,800.00	7,618.00	7,331.00	7,238.68	121.56	30.73	82.51	1,272.65	2,904.04	3,061.82	2,950.80	111.02	27.580	
11,900.00	7,618.00	7,310.81	7,218.95	121.46	30.70	82.09	1,268.35	2,904.22	3,114.09	3,001.83	112.26	27.740	
12,000.00	7,618.00	7,305.65	7,213.89	121.38	30.69	81.98	1,267.36	2,904.27	3,168.74	3,055.13	113.62	27.890	
12,100.00	7,618.00	7,300.94	7,209.26	121.30	30.68	81.88	1,266.50	2,904.32	3,225.54	3,110.65	114.89	28.075	
12,200.00	7,618.00	7,284.00	7,192.55	121.24	30.65	81.52	1,263.72	2,904.55	3,284.48	3,168.53	115.94	28.328	
12,300.00	7,618.00	7,284.00	7,192.55	121.19	30.65	81.52	1,263.72	2,904.55	3,345.20	3,228.09	117.11	28.565	
12,400.00	7,618.00	7,284.00	7,192.55	121.16	30.65	81.52	1,263.72	2,904.55	3,407.77	3,289.58	118.19	28.834	
12,500.00	7,618.00	7,284.00	7,192.55	121.14	30.65	81.52	1,263.72	2,904.55	3,472.09	3,352.90	119.19	29.130	
12,600.00	7,618.00	7,284.00	7,192.55	121.13	30.65	81.52	1,263.72	2,904.55	3,538.07	3,417.95	120.12	29.454	
12,700.00	7,618.00	7,284.00	7,192.55	121.13	30.65	81.52	1,263.72	2,904.55	3,605.62	3,484.63	120.99	29.801	
12,800.00	7,618.00	7,284.00	7,192.55	121.15	30.65	81.52	1,263.72	2,904.55	3,674.65	3,552.86	121.79	30.172	
12,900.00	7,618.00	7,284.00	7,192.55	121.18	30.65	81.52	1,263.72	2,904.55	3,745.07	3,622.54	122.53	30.564	
13,000.00	7,618.00	7,284.00	7,192.55	121.23	30.65	81.52	1,263.72	2,904.55	3,816.82	3,693.60	123.22	30.976	
13,100.00	7,618.00	7,284.00	7,192.55	121.29	30.65	81.52	1,263.72	2,904.55	3,889.81	3,765.96	123.86	31.406	
13,200.00	7,618.00	7,284.00	7,192.55	121.37	30.65	81.52	1,263.72	2,904.55	3,963.99	3,839.54	124.44	31.853	
13,300.00	7,618.00	7,284.00	7,192.55	121.46	30.65	81.52	1,263.72	2,904.55	4,039.27	3,914.28	124.99	32.317	
13,400.00	7,618.00	7,284.00	7,192.55	121.57	30.65	81.52	1,263.72	2,904.55	4,115.61	3,990.12	125.49	32.796	
13,500.00	7,618.00	7,284.00	7,192.55	121.70	30.65	81.52	1,263.72	2,904.55	4,192.95	4,066.99	125.96	33.289	
13,600.00	7,618.00	7,284.00	7,192.55	121.84	30.65	81.52	1,263.72	2,904.55	4,271.22	4,144.84	126.39	33.795	
13,700.00	7,618.00	7,284.00	7,192.55	122.01	30.65	81.52	1,263.72	2,904.55	4,350.39	4,223.60	126.78	34.314	
13,800.00	7,618.00	7,284.00	7,192.55	122.19	30.65	81.52	1,263.72	2,904.55	4,430.40	4,303.25	127.15	34.844	
13,900.00	7,618.00	7,284.00	7,192.55	122.39	30.65	81.52	1,263.72	2,904.55	4,511.20	4,383.71	127.49	35.385	
14,000.00	7,618.00	7,284.00	7,192.55	122.62	30.65	81.52	1,263.72	2,904.55	4,592.76	4,464.96	127.80	35.937	
14,100.00	7,618.00	7,284.00	7,192.55	122.86	30.65	81.52	1,263.72	2,904.55	4,675.04	4,546.95	128.09	36.498	
14,200.00	7,618.00	7,284.00	7,192.55	123.12	30.65	81.52	1,263.72	2,904.55	4,758.00	4,629.64	128.36	37.068	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	7,284.00	7,192.55	123.41	30.65	81.52	1,263.72	2,904.55	4,841.60	4,713.00	128.60	37.647	
14,400.00	7,618.00	7,284.00	7,192.55	123.72	30.65	81.52	1,263.72	2,904.55	4,925.81	4,796.98	128.83	38.234	
14,500.00	7,618.00	7,284.00	7,192.55	124.06	30.65	81.52	1,263.72	2,904.55	5,010.61	4,881.56	129.04	38.829	
14,600.00	7,618.00	7,284.00	7,192.55	124.42	30.65	81.52	1,263.72	2,904.55	5,095.95	4,966.71	129.24	39.431	
14,700.00	7,618.00	7,243.53	7,152.38	124.80	30.55	80.65	1,258.91	2,905.09	5,180.57	5,051.36	129.20	40.097	
14,800.00	7,618.00	7,242.43	7,151.29	125.21	30.55	80.63	1,258.81	2,905.10	5,266.86	5,137.49	129.37	40.713	
14,900.00	7,618.00	7,241.38	7,150.24	125.65	30.55	80.61	1,258.72	2,905.11	5,353.63	5,224.11	129.52	41.335	
15,000.00	7,618.00	7,240.37	7,149.23	126.11	30.55	80.59	1,258.64	2,905.13	5,440.86	5,311.20	129.66	41.963	
15,100.00	7,618.00	7,239.39	7,148.25	126.61	30.54	80.57	1,258.55	2,905.14	5,528.51	5,398.72	129.79	42.596	
15,200.00	7,618.00	7,238.44	7,147.31	127.13	30.54	80.54	1,258.48	2,905.15	5,616.58	5,486.67	129.91	43.235	
15,300.00	7,618.00	7,237.53	7,146.40	127.68	30.54	80.53	1,258.40	2,905.16	5,705.03	5,575.01	130.02	43.878	
15,400.00	7,618.00	7,236.65	7,145.52	128.26	30.54	80.51	1,258.33	2,905.17	5,793.86	5,663.74	130.12	44.527	
15,500.00	7,618.00	7,235.79	7,144.67	128.87	30.53	80.49	1,258.27	2,905.18	5,883.05	5,752.84	130.22	45.179	
15,600.00	7,618.00	7,234.97	7,143.85	129.51	30.53	80.47	1,258.21	2,905.19	5,972.58	5,842.28	130.30	45.836	
15,700.00	7,618.00	7,234.17	7,143.05	130.18	30.53	80.45	1,258.15	2,905.20	6,062.44	5,932.06	130.38	46.497	
15,800.00	7,618.00	7,233.40	7,142.28	130.88	30.53	80.44	1,258.09	2,905.21	6,152.61	6,022.15	130.46	47.162	
15,900.00	7,618.00	7,232.65	7,141.53	131.61	30.53	80.42	1,258.03	2,905.22	6,243.08	6,112.55	130.52	47.831	
16,000.00	7,618.00	7,231.92	7,140.81	132.37	30.53	80.41	1,257.98	2,905.23	6,333.83	6,203.24	130.59	48.503	
16,100.00	7,618.00	7,231.22	7,140.10	133.17	30.52	80.39	1,257.93	2,905.23	6,424.86	6,294.21	130.64	49.178	
16,200.00	7,618.00	7,189.00	7,097.93	133.99	30.42	79.49	1,256.34	2,905.68	6,517.50	6,386.96	130.54	49.928	
16,300.00	7,618.00	7,189.00	7,097.93	134.84	30.42	79.49	1,256.34	2,905.68	6,609.00	6,478.41	130.59	50.608	
16,400.00	7,618.00	7,189.00	7,097.93	135.72	30.42	79.49	1,256.34	2,905.68	6,700.74	6,570.10	130.64	51.291	
16,500.00	7,618.00	7,189.00	7,097.93	136.63	30.42	79.49	1,256.34	2,905.68	6,792.71	6,662.03	130.69	51.977	
16,600.00	7,618.00	7,189.00	7,097.93	137.57	30.42	79.49	1,256.34	2,905.68	6,884.91	6,754.18	130.73	52.666	
16,700.00	7,618.00	7,189.00	7,097.93	138.54	30.42	79.49	1,256.34	2,905.68	6,977.33	6,846.56	130.77	53.357	
16,800.00	7,618.00	7,189.00	7,097.93	139.53	30.42	79.49	1,256.34	2,905.68	7,069.95	6,939.14	130.80	54.050	
16,900.00	7,618.00	7,189.00	7,097.93	140.55	30.42	79.49	1,256.34	2,905.68	7,162.77	7,031.93	130.84	54.746	
17,000.00	7,618.00	7,189.00	7,097.93	141.60	30.42	79.49	1,256.34	2,905.68	7,255.78	7,124.91	130.87	55.444	
17,100.00	7,618.00	7,189.00	7,097.93	142.67	30.42	79.49	1,256.34	2,905.68	7,348.97	7,218.07	130.89	56.144	
17,200.00	7,618.00	7,189.00	7,097.93	143.77	30.42	79.49	1,256.34	2,905.68	7,442.34	7,311.42	130.92	56.846	
17,300.00	7,618.00	7,189.00	7,097.93	144.88	30.42	79.49	1,256.34	2,905.68	7,535.88	7,404.93	130.94	57.550	
17,400.00	7,618.00	7,189.00	7,097.93	146.02	30.42	79.49	1,256.34	2,905.68	7,629.58	7,498.62	130.97	58.256	
17,500.00	7,618.00	7,189.00	7,097.93	147.19	30.42	79.49	1,256.34	2,905.68	7,723.44	7,592.46	130.99	58.964	
17,600.00	7,618.00	7,189.00	7,097.93	148.37	30.42	79.49	1,256.34	2,905.68	7,817.46	7,686.45	131.00	59.673	
17,700.00	7,618.00	7,189.00	7,097.93	149.57	30.42	79.49	1,256.34	2,905.68	7,911.62	7,780.60	131.02	60.384	
17,800.00	7,618.00	7,189.00	7,097.93	150.79	30.42	79.49	1,256.34	2,905.68	8,005.92	7,874.88	131.04	61.097	
17,900.00	7,618.00	7,189.00	7,097.93	152.03	30.42	79.49	1,256.34	2,905.68	8,100.36	7,969.31	131.05	61.811	
18,000.00	7,618.00	7,189.00	7,097.93	153.29	30.42	79.49	1,256.34	2,905.68	8,194.93	8,063.87	131.06	62.526	
18,100.00	7,618.00	7,189.00	7,097.93	154.57	30.42	79.49	1,256.34	2,905.68	8,289.63	8,158.55	131.08	63.243	
18,200.00	7,618.00	7,189.00	7,097.93	155.86	30.42	79.49	1,256.34	2,905.68	8,384.45	8,253.36	131.09	63.961	
18,300.00	7,618.00	7,189.00	7,097.93	157.17	30.42	79.49	1,256.34	2,905.68	8,479.39	8,348.29	131.10	64.680	
18,400.00	7,618.00	7,189.00	7,097.93	158.49	30.42	79.49	1,256.34	2,905.68	8,574.45	8,443.34	131.11	65.401	
18,500.00	7,618.00	7,189.00	7,097.93	159.82	30.42	79.49	1,256.34	2,905.68	8,669.61	8,538.50	131.11	66.122	
18,600.00	7,618.00	7,189.00	7,097.93	161.17	30.42	79.49	1,256.34	2,905.68	8,764.89	8,633.77	131.12	66.845	
18,700.00	7,618.00	7,189.00	7,097.93	162.54	30.42	79.49	1,256.34	2,905.68	8,860.27	8,729.14	131.13	67.569	
18,800.00	7,618.00	7,189.00	7,097.93	163.91	30.42	79.49	1,256.34	2,905.68	8,955.75	8,824.61	131.14	68.293	
18,900.00	7,618.00	7,189.00	7,097.93	165.30	30.42	79.49	1,256.34	2,905.68	9,051.32	8,920.18	131.14	69.019	
19,000.00	7,618.00	7,189.00	7,097.93	166.70	30.42	79.49	1,256.34	2,905.68	9,146.99	9,015.85	131.15	69.745	
19,100.00	7,618.00	7,189.00	7,097.93	168.10	30.42	79.49	1,256.34	2,905.68	9,242.76	9,111.60	131.15	70.472	
19,200.00	7,618.00	7,189.00	7,097.93	169.52	30.42	79.49	1,256.34	2,905.68	9,338.61	9,207.45	131.16	71.200	
19,300.00	7,618.00	7,189.00	7,097.93	170.95	30.42	79.49	1,256.34	2,905.68	9,434.55	9,303.38	131.17	71.929	
19,400.00	7,618.00	7,189.00	7,097.93	172.39	30.42	79.49	1,256.34	2,905.68	9,530.57	9,399.40	131.17	72.658	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,500.00	7,618.00	7,189.00	7,097.93	173.84	30.42	79.49	1,256.34	2,905.68	9,626.67	9,495.50	131.17	73.388	
19,600.00	7,618.00	7,189.00	7,097.93	175.30	30.42	79.49	1,256.34	2,905.68	9,722.85	9,591.67	131.18	74.119	
19,700.00	7,618.00	7,189.00	7,097.93	176.76	30.42	79.49	1,256.34	2,905.68	9,819.11	9,687.93	131.18	74.850	
19,800.00	7,618.00	7,189.00	7,097.93	178.24	30.42	79.49	1,256.34	2,905.68	9,915.44	9,784.26	131.19	75.582	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	176.06	-4,018.10	276.41	4,027.62				
100.00	100.00	54.22	54.22	0.13	0.09	176.06	-4,018.30	276.66	4,027.93	4,027.71	0.22	N/A	
200.00	200.00	120.00	119.99	0.49	0.20	176.05	-4,019.06	277.65	4,029.18	4,028.50	0.69	5,864.882	
300.00	299.98	298.64	298.60	0.85	0.83	106.71	-4,020.40	280.55	4,030.70	4,029.02	1.68	2,399.897	
400.00	399.84	411.95	411.90	1.21	1.23	106.76	-4,019.73	281.54	4,031.67	4,029.23	2.44	1,653.055	
500.00	499.45	516.99	516.90	1.58	1.61	106.81	-4,018.90	283.97	4,033.57	4,030.38	3.19	1,265.673	
600.00	598.70	819.47	817.62	1.97	2.75	106.90	-4,007.30	312.33	4,034.06	4,029.35	4.71	855.604	
700.00	697.47	1,010.54	1,005.45	2.38	3.57	106.89	-3,991.80	343.70	4,031.49	4,025.56	5.93	679.988	
800.00	795.62	1,101.00	1,093.83	2.83	3.98	106.91	-3,983.38	361.04	4,029.01	4,022.24	6.78	594.610	
900.00	893.06	1,181.44	1,172.37	3.31	4.36	106.95	-3,976.31	376.88	4,028.08	4,020.45	7.62	528.283	
1,000.00	989.64	1,316.90	1,305.01	3.83	5.00	107.07	-3,963.72	401.33	4,027.45	4,018.69	8.76	459.793	
1,005.09	994.54	1,320.49	1,308.53	3.86	5.01	107.08	-3,963.39	401.96	4,027.45	4,018.65	8.80	457.448	CC
1,100.00	1,085.27	1,402.14	1,388.50	4.40	5.40	107.18	-3,956.01	416.67	4,028.20	4,018.49	9.71	414.744	ES
1,200.00	1,179.82	1,548.75	1,531.59	5.02	6.12	107.39	-3,941.85	445.30	4,029.54	4,018.53	11.01	365.842	
1,300.00	1,273.17	1,671.00	1,650.40	5.70	6.75	107.59	-3,928.79	470.98	4,030.99	4,018.72	12.27	328.455	
1,400.00	1,365.21	1,777.52	1,753.97	6.43	7.30	107.80	-3,916.98	492.83	4,033.12	4,019.61	13.51	298.556	
1,500.00	1,455.84	1,862.34	1,836.67	7.23	7.73	108.00	-3,907.70	509.28	4,036.52	4,021.84	14.69	274.834	
1,600.00	1,544.94	1,940.79	1,913.14	8.09	8.12	108.17	-3,899.45	524.70	4,041.54	4,025.65	15.89	254.318	
1,700.00	1,632.39	2,038.21	2,008.13	9.01	8.62	108.43	-3,889.39	543.87	4,048.00	4,030.76	17.25	234.710	
1,800.00	1,718.11	2,143.72	2,110.79	10.00	9.17	108.73	-3,878.32	565.50	4,055.62	4,036.91	18.71	216.778	
1,900.00	1,801.97	2,244.01	2,208.09	11.07	9.70	109.01	-3,867.57	587.33	4,064.40	4,044.18	20.22	201.043	
2,000.00	1,883.88	2,353.52	2,314.33	12.20	10.29	109.36	-3,855.64	611.09	4,074.42	4,052.59	21.83	186.644	
2,100.00	1,963.74	2,465.69	2,423.18	13.41	10.89	109.75	-3,842.72	634.88	4,085.30	4,061.79	23.51	173.786	
2,200.00	2,041.45	2,542.79	2,498.01	14.69	11.31	109.97	-3,833.77	651.11	4,097.68	4,072.61	25.07	163.458	
2,300.00	2,116.92	2,705.08	2,655.23	16.05	12.19	110.70	-3,814.68	686.55	4,111.85	4,084.74	27.11	151.673	
2,357.48	2,159.25	2,751.54	2,700.31	16.86	12.44	110.86	-3,808.60	695.99	4,119.90	4,091.84	28.06	146.800	
2,400.00	2,190.27	2,785.63	2,733.40	17.47	12.62	111.09	-3,804.16	702.84	4,126.15	4,097.38	28.77	143.394	
2,500.00	2,263.22	2,825.76	2,772.39	18.92	12.83	111.36	-3,799.16	710.95	4,141.75	4,111.49	30.26	136.892	
2,600.00	2,336.18	2,881.00	2,826.09	20.37	13.12	111.72	-3,793.06	722.38	4,158.93	4,127.13	31.80	130.770	
2,700.00	2,409.14	2,987.13	2,929.16	21.84	13.69	112.41	-3,781.53	744.88	4,176.98	4,143.38	33.60	124.309	
2,800.00	2,482.09	3,067.24	3,006.82	23.31	14.13	112.92	-3,772.49	762.35	4,195.02	4,159.75	35.27	118.941	
2,900.00	2,555.05	3,114.32	3,052.44	24.78	14.39	113.22	-3,767.41	772.81	4,213.95	4,177.19	36.76	114.625	
3,000.00	2,628.01	3,165.00	3,101.59	26.27	14.66	113.53	-3,762.47	784.13	4,234.22	4,195.96	38.26	110.663	
3,100.00	2,700.96	3,328.59	3,259.91	27.75	15.57	114.54	-3,745.05	821.41	4,253.84	4,213.50	40.35	105.432	
3,200.00	2,773.92	3,410.96	3,339.66	29.24	16.03	115.04	-3,735.90	839.92	4,273.84	4,231.84	41.99	101.777	
3,300.00	2,846.88	3,506.58	3,432.24	30.73	16.56	115.62	-3,725.28	861.34	4,294.30	4,250.61	43.69	98.289	
3,400.00	2,919.83	3,584.91	3,508.12	32.23	16.99	116.10	-3,716.42	878.63	4,315.06	4,269.78	45.28	95.289	
3,500.00	2,992.79	3,650.97	3,572.20	33.72	17.35	116.50	-3,709.24	893.03	4,336.69	4,289.89	46.80	92.666	
3,600.00	3,065.75	3,729.64	3,648.57	35.22	17.77	116.98	-3,700.92	909.98	4,359.03	4,310.67	48.36	90.135	
3,700.00	3,138.71	3,788.12	3,705.40	36.72	18.09	117.33	-3,694.94	922.37	4,382.18	4,332.38	49.80	87.993	
3,800.00	3,211.66	3,845.44	3,761.21	38.22	18.39	117.68	-3,689.41	934.19	4,406.34	4,355.12	51.22	86.035	
3,900.00	3,284.62	3,902.46	3,816.88	39.72	18.68	118.03	-3,684.17	945.37	4,431.51	4,378.91	52.60	84.244	
4,000.00	3,357.58	3,956.75	3,870.03	41.22	18.95	118.37	-3,679.42	955.37	4,457.71	4,403.76	53.95	82.629	
4,100.00	3,430.53	4,016.00	3,928.22	42.73	19.24	118.74	-3,674.52	965.41	4,484.99	4,429.69	55.29	81.114	
4,200.00	3,503.49	4,050.16	3,961.85	44.23	19.39	118.96	-3,671.89	970.79	4,513.41	4,456.93	56.48	79.905	
4,300.00	3,576.45	4,089.02	4,000.18	45.74	19.57	119.22	-3,669.19	976.56	4,543.15	4,485.48	57.68	78.771	
4,400.00	3,649.40	4,129.22	4,039.91	47.25	19.74	119.48	-3,666.70	982.13	4,574.18	4,515.33	58.84	77.734	
4,500.00	3,722.36	4,171.20	4,081.50	48.75	19.91	119.76	-3,664.33	987.36	4,606.42	4,546.43	59.99	76.785	
4,600.00	3,795.32	4,216.22	4,126.19	50.26	20.09	120.07	-3,662.02	992.29	4,639.87	4,578.74	61.13	75.908	
4,700.00	3,868.27	4,278.04	4,187.67	51.77	20.33	120.50	-3,658.88	997.94	4,674.27	4,611.97	62.30	75.033	
4,800.00	3,941.23	4,323.95	4,233.40	53.28	20.49	120.82	-3,656.53	1,001.33	4,709.60	4,646.23	63.37	74.321	
4,900.00	4,014.19	4,361.51	4,270.84	54.79	20.62	121.09	-3,654.83	1,003.67	4,746.12	4,681.74	64.38	73.722	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,087.15	4,394.00	4,303.26	56.30	20.73	121.32	-3,653.53	1,005.38	4,783.86	4,718.52	65.34	73.210	
5,100.00	4,160.10	4,426.81	4,336.02	57.81	20.83	121.56	-3,652.45	1,006.83	4,822.86	4,756.57	66.28	72.765	
5,200.00	4,233.06	4,455.64	4,364.82	59.32	20.92	121.77	-3,651.74	1,007.89	4,863.14	4,795.97	67.18	72.394	
5,300.00	4,306.02	4,488.00	4,397.16	60.83	21.02	122.01	-3,651.22	1,008.84	4,904.70	4,836.64	68.06	72.060	
5,400.00	4,378.97	4,538.50	4,447.65	62.34	21.17	122.37	-3,650.67	1,010.01	4,947.33	4,878.32	69.00	71.696	
5,500.00	4,451.93	4,603.94	4,513.08	63.85	21.36	122.84	-3,650.04	1,011.21	4,990.72	4,920.72	69.99	71.305	
5,600.00	4,524.89	4,692.17	4,601.29	65.36	21.61	123.47	-3,649.11	1,012.87	5,034.54	4,963.48	71.06	70.848	
5,700.00	4,597.84	4,763.57	4,672.66	66.88	21.82	123.98	-3,648.36	1,014.38	5,078.81	5,006.76	72.05	70.489	
5,800.00	4,670.80	4,844.37	4,753.43	68.39	22.06	124.53	-3,647.54	1,016.28	5,123.52	5,050.45	73.07	70.114	
5,900.00	4,743.76	4,929.90	4,838.93	69.90	22.32	125.11	-3,646.61	1,018.51	5,168.58	5,094.47	74.11	69.743	
6,000.00	4,816.71	5,005.66	4,914.66	71.41	22.55	125.62	-3,645.67	1,020.52	5,213.97	5,138.88	75.09	69.437	
6,100.00	4,889.67	5,079.04	4,988.01	72.93	22.77	126.11	-3,644.78	1,022.38	5,259.86	5,183.81	76.05	69.166	
6,200.00	4,962.63	5,158.29	5,067.23	74.44	23.01	126.63	-3,643.66	1,024.18	5,306.13	5,229.11	77.02	68.896	
6,300.00	5,035.59	5,225.36	5,134.29	75.95	23.21	127.07	-3,642.58	1,025.32	5,352.86	5,274.94	77.91	68.704	
6,400.00	5,108.54	5,285.16	5,194.08	77.47	23.39	127.46	-3,641.56	1,025.97	5,400.15	5,321.39	78.76	68.567	
6,500.00	5,181.50	5,338.00	5,246.90	78.98	23.54	127.81	-3,640.73	1,026.31	5,448.09	5,368.53	79.56	68.481	
6,600.00	5,254.46	5,387.64	5,296.54	80.49	23.68	128.13	-3,640.07	1,026.40	5,496.75	5,416.43	80.32	68.435	
6,700.00	5,327.41	5,432.00	5,340.90	82.01	23.80	128.42	-3,639.61	1,026.25	5,546.17	5,465.13	81.05	68.432	
6,800.00	5,400.37	5,485.90	5,394.79	83.52	23.95	128.77	-3,639.23	1,025.91	5,596.31	5,514.51	81.80	68.418	
6,900.00	5,473.33	5,542.93	5,451.82	85.04	24.10	129.13	-3,639.02	1,025.46	5,647.10	5,564.55	82.55	68.410	
7,000.00	5,546.28	5,619.64	5,528.53	86.55	24.30	129.61	-3,638.78	1,024.84	5,698.31	5,614.93	83.38	68.344	
7,100.00	5,619.24	5,686.73	5,595.61	88.06	24.48	130.03	-3,638.54	1,024.22	5,749.90	5,665.74	84.15	68.326	
7,200.00	5,692.20	5,760.21	5,669.09	89.58	24.68	130.49	-3,638.23	1,023.37	5,801.89	5,716.94	84.95	68.298	
7,300.00	5,765.15	5,832.80	5,741.67	91.09	24.87	130.93	-3,637.83	1,022.46	5,854.19	5,768.46	85.73	68.284	
7,400.00	5,838.11	5,894.63	5,803.50	92.61	25.04	131.30	-3,637.52	1,021.59	5,906.92	5,820.46	86.46	68.322	
7,500.00	5,911.07	5,974.15	5,883.01	94.12	25.25	131.78	-3,637.13	1,020.41	5,960.02	5,872.76	87.26	68.304	
7,600.00	5,984.03	6,091.85	6,000.69	95.64	25.58	132.47	-3,636.17	1,018.99	6,013.18	5,924.95	88.23	68.151	
7,700.00	6,056.98	6,175.31	6,084.15	97.15	25.82	132.95	-3,635.29	1,018.47	6,066.25	5,977.20	89.06	68.118	
7,800.00	6,129.94	6,272.32	6,181.15	98.67	26.10	133.49	-3,634.17	1,018.23	6,119.44	6,029.49	89.94	68.036	
7,900.00	6,202.90	6,357.47	6,266.29	100.18	26.36	133.97	-3,632.86	1,018.00	6,172.68	6,081.92	90.77	68.005	
8,000.00	6,275.85	6,424.61	6,333.42	101.70	26.56	134.34	-3,631.62	1,017.58	6,226.17	6,134.68	91.49	68.052	
8,100.00	6,348.81	6,487.74	6,396.53	103.21	26.74	134.68	-3,630.40	1,016.92	6,280.07	6,187.89	92.19	68.124	
8,200.00	6,421.77	6,556.70	6,465.47	104.73	26.94	135.06	-3,629.09	1,016.08	6,334.33	6,241.43	92.90	68.186	
8,300.00	6,494.72	6,642.95	6,551.70	106.24	27.20	135.52	-3,627.44	1,015.13	6,388.82	6,295.13	93.69	68.190	
8,400.00	6,567.68	6,690.43	6,599.18	107.76	27.34	135.77	-3,626.60	1,014.73	6,443.59	6,349.29	94.29	68.337	
8,500.00	6,640.64	6,726.36	6,635.10	109.27	27.44	135.95	-3,626.20	1,014.40	6,499.01	6,404.18	94.83	68.537	
8,600.00	6,713.59	6,770.58	6,679.32	110.79	27.57	136.18	-3,626.00	1,013.96	6,555.09	6,459.69	95.39	68.716	
8,700.00	6,786.55	6,855.88	6,764.62	112.30	27.81	136.61	-3,625.60	1,013.07	6,611.45	6,515.29	96.17	68.751	
8,800.00	6,859.51	6,938.56	6,847.29	113.82	28.06	137.03	-3,625.18	1,012.39	6,667.93	6,571.00	96.92	68.795	
8,900.00	6,932.46	7,051.21	6,959.94	115.33	28.40	137.57	-3,624.53	1,012.09	6,724.38	6,626.53	97.85	68.721	
9,000.00	7,005.42	7,102.25	7,010.98	116.85	28.55	137.82	-3,624.29	1,012.08	6,780.97	6,682.52	98.45	68.877	
9,104.89	7,081.95	7,187.27	7,096.00	118.44	28.82	138.22	-3,624.04	1,012.11	6,840.67	6,741.42	99.25	68.924	
9,150.00	7,115.15	7,236.50	7,145.22	119.12	28.97	132.14	-3,623.74	1,012.14	6,865.07	6,765.41	99.67	68.880	
9,200.00	7,152.46	7,267.04	7,175.77	119.86	29.06	125.34	-3,623.53	1,012.14	6,889.13	6,789.11	100.01	68.882	
9,250.00	7,190.04	7,301.05	7,209.77	120.57	29.17	118.69	-3,623.30	1,012.12	6,909.91	6,809.52	100.39	68.828	
9,300.00	7,227.59	7,341.29	7,250.01	121.25	29.29	112.34	-3,623.02	1,012.08	6,927.30	6,826.48	100.82	68.710	
9,350.00	7,264.83	7,392.81	7,301.53	121.89	29.45	106.42	-3,622.63	1,012.10	6,941.11	6,839.79	101.31	68.512	
9,400.00	7,301.48	7,432.85	7,341.57	122.48	29.58	100.94	-3,622.31	1,012.19	6,951.26	6,849.52	101.74	68.322	
9,450.00	7,337.26	7,462.33	7,371.05	123.01	29.67	95.97	-3,622.08	1,012.25	6,957.80	6,855.69	102.11	68.140	
9,500.00	7,371.90	7,490.81	7,399.53	123.49	29.76	91.61	-3,621.87	1,012.27	6,960.69	6,858.23	102.46	67.934	
9,550.00	7,405.13	7,522.24	7,430.96	123.91	29.86	87.92	-3,621.64	1,012.28	6,959.95	6,857.14	102.82	67.694	
9,600.00	7,436.70	7,563.40	7,472.12	124.27	29.99	84.93	-3,621.35	1,012.32	6,955.55	6,852.34	103.21	67.395	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	7,602.13	7,510.85	124.57	30.11	82.56	-3,621.05	1,012.44	6,947.52	6,843.95	103.56	67.085	
9,700.00	7,493.91	7,638.49	7,547.20	124.81	30.23	80.79	-3,620.75	1,012.59	6,935.94	6,832.05	103.89	66.765	
9,750.00	7,519.11	7,671.65	7,580.36	125.00	30.33	79.61	-3,620.44	1,012.75	6,920.92	6,816.75	104.17	66.441	
9,800.00	7,541.79	7,701.32	7,610.03	125.12	30.43	78.99	-3,620.12	1,012.90	6,902.59	6,798.19	104.40	66.115	
9,850.00	7,561.77	7,716.35	7,625.06	125.20	30.48	78.84	-3,619.97	1,012.98	6,881.11	6,776.58	104.53	65.829	
9,900.00	7,578.90	7,730.00	7,638.70	125.23	30.52	79.26	-3,619.83	1,013.06	6,856.65	6,752.03	104.63	65.534	
9,950.00	7,593.04	7,741.25	7,649.95	125.22	30.56	80.29	-3,619.73	1,013.12	6,829.39	6,724.70	104.69	65.235	
10,000.00	7,604.09	7,749.99	7,658.70	125.17	30.58	81.93	-3,619.66	1,013.17	6,799.52	6,694.80	104.72	64.932	
10,050.00	7,611.97	7,756.16	7,664.86	125.08	30.60	84.25	-3,619.61	1,013.21	6,767.23	6,662.52	104.71	64.625	
10,100.00	7,616.61	7,759.67	7,668.38	124.97	30.62	87.31	-3,619.58	1,013.23	6,732.77	6,628.08	104.68	64.315	
10,145.95	7,618.00	7,760.53	7,669.24	124.84	30.62	90.83	-3,619.58	1,013.24	6,699.36	6,594.72	104.64	64.026	
10,200.00	7,618.00	7,760.19	7,668.90	124.69	30.62	90.83	-3,619.58	1,013.23	6,659.27	6,554.71	104.57	63.684	
10,300.00	7,618.00	7,759.56	7,668.26	124.41	30.62	90.82	-3,619.58	1,013.23	6,585.63	6,481.19	104.44	63.056	
10,400.00	7,618.00	7,758.92	7,667.62	124.14	30.61	90.81	-3,619.59	1,013.23	6,512.69	6,408.37	104.32	62.430	
10,500.00	7,618.00	7,758.27	7,666.98	123.88	30.61	90.81	-3,619.59	1,013.22	6,440.48	6,336.27	104.20	61.807	
10,600.00	7,618.00	7,757.62	7,666.32	123.63	30.61	90.80	-3,619.60	1,013.22	6,369.01	6,264.92	104.09	61.188	
10,700.00	7,618.00	7,756.96	7,665.66	123.40	30.61	90.79	-3,619.60	1,013.21	6,298.33	6,194.35	103.98	60.571	
10,800.00	7,618.00	7,756.30	7,665.00	123.18	30.60	90.78	-3,619.61	1,013.21	6,228.45	6,124.57	103.88	59.957	
10,900.00	7,618.00	7,755.62	7,664.33	122.96	30.60	90.77	-3,619.61	1,013.21	6,159.40	6,055.61	103.79	59.347	
11,000.00	7,618.00	7,754.95	7,663.65	122.76	30.60	90.76	-3,619.62	1,013.20	6,091.20	5,987.51	103.70	58.740	
11,100.00	7,618.00	7,754.26	7,662.97	122.57	30.60	90.75	-3,619.63	1,013.20	6,023.90	5,920.28	103.62	58.136	
11,200.00	7,618.00	7,753.57	7,662.28	122.39	30.60	90.75	-3,619.63	1,013.19	5,957.51	5,853.97	103.55	57.535	
11,300.00	7,618.00	7,752.88	7,661.58	122.23	30.59	90.74	-3,619.64	1,013.19	5,892.08	5,788.59	103.48	56.938	
11,400.00	7,618.00	7,752.17	7,660.88	122.07	30.59	90.73	-3,619.64	1,013.19	5,827.62	5,724.19	103.43	56.344	
11,500.00	7,618.00	7,751.46	7,660.17	121.93	30.59	90.72	-3,619.65	1,013.18	5,764.18	5,660.79	103.39	55.754	
11,600.00	7,618.00	7,750.75	7,659.45	121.79	30.59	90.71	-3,619.65	1,013.18	5,701.78	5,598.43	103.35	55.167	
11,700.00	7,618.00	7,750.02	7,658.73	121.67	30.58	90.70	-3,619.66	1,013.17	5,640.47	5,537.14	103.33	54.584	
11,800.00	7,618.00	7,749.29	7,657.99	121.56	30.58	90.69	-3,619.67	1,013.17	5,580.28	5,476.95	103.33	54.006	
11,900.00	7,618.00	7,748.55	7,657.26	121.46	30.58	90.68	-3,619.67	1,013.16	5,521.24	5,417.91	103.33	53.431	
12,000.00	7,618.00	7,747.80	7,656.51	121.38	30.58	90.67	-3,619.68	1,013.16	5,463.40	5,360.04	103.36	52.860	
12,100.00	7,618.00	7,747.05	7,655.75	121.30	30.58	90.66	-3,619.68	1,013.15	5,406.78	5,303.39	103.39	52.294	
12,200.00	7,618.00	7,746.29	7,654.99	121.24	30.57	90.65	-3,619.69	1,013.15	5,351.44	5,247.99	103.44	51.732	
12,300.00	7,618.00	7,745.52	7,654.22	121.19	30.57	90.64	-3,619.70	1,013.15	5,297.40	5,193.89	103.51	51.175	
12,400.00	7,618.00	7,744.74	7,653.45	121.16	30.57	90.63	-3,619.70	1,013.14	5,244.72	5,141.12	103.60	50.624	
12,500.00	7,618.00	7,743.96	7,652.66	121.14	30.57	90.62	-3,619.71	1,013.14	5,193.42	5,089.72	103.71	50.077	
12,600.00	7,618.00	7,743.16	7,651.87	121.13	30.56	90.61	-3,619.72	1,013.13	5,143.56	5,039.73	103.83	49.536	
12,700.00	7,618.00	7,742.36	7,651.07	121.13	30.56	90.60	-3,619.72	1,013.13	5,095.18	4,991.19	103.98	49.001	
12,800.00	7,618.00	7,741.55	7,650.26	121.15	30.56	90.59	-3,619.73	1,013.12	5,048.31	4,944.16	104.15	48.472	
12,900.00	7,618.00	7,740.73	7,649.44	121.18	30.56	90.58	-3,619.74	1,013.12	5,003.00	4,898.66	104.34	47.950	
13,000.00	7,618.00	7,739.91	7,648.61	121.23	30.55	90.57	-3,619.75	1,013.11	4,959.29	4,854.74	104.55	47.435	
13,100.00	7,618.00	7,739.07	7,647.78	121.29	30.55	90.56	-3,619.75	1,013.11	4,917.23	4,812.44	104.78	46.927	
13,200.00	7,618.00	7,738.23	7,646.93	121.37	30.55	90.55	-3,619.76	1,013.10	4,876.85	4,771.81	105.04	46.428	
13,300.00	7,618.00	7,737.37	7,646.08	121.46	30.54	90.54	-3,619.77	1,013.10	4,838.21	4,732.89	105.32	45.937	
13,400.00	7,618.00	7,736.51	7,645.22	121.57	30.54	90.53	-3,619.78	1,013.09	4,801.34	4,695.71	105.63	45.455	
13,500.00	7,618.00	7,735.64	7,644.35	121.70	30.54	90.52	-3,619.78	1,013.09	4,766.28	4,660.32	105.96	44.982	
13,600.00	7,618.00	7,734.76	7,643.46	121.84	30.54	90.50	-3,619.79	1,013.08	4,733.07	4,626.76	106.31	44.520	
13,700.00	7,618.00	7,733.87	7,642.57	122.01	30.53	90.49	-3,619.80	1,013.08	4,701.76	4,595.07	106.69	44.069	
13,800.00	7,618.00	7,732.97	7,641.67	122.19	30.53	90.48	-3,619.81	1,013.07	4,672.38	4,565.29	107.09	43.630	
13,900.00	7,618.00	7,732.06	7,640.76	122.39	30.53	90.47	-3,619.82	1,013.07	4,644.96	4,537.45	107.52	43.203	
14,000.00	7,618.00	7,731.14	7,639.84	122.62	30.52	90.46	-3,619.82	1,013.06	4,619.55	4,511.59	107.96	42.789	
14,100.00	7,618.00	7,730.20	7,638.91	122.86	30.52	90.45	-3,619.83	1,013.06	4,596.17	4,487.74	108.43	42.388	
14,200.00	7,618.00	7,729.26	7,637.97	123.12	30.52	90.43	-3,619.84	1,013.05	4,574.86	4,465.94	108.92	42.002	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	7,728.31	7,637.02	123.41	30.52	90.42	-3,619.85	1,013.05	4,555.65	4,446.22	109.43	41.631	
14,400.00	7,618.00	7,727.35	7,636.05	123.72	30.51	90.41	-3,619.86	1,013.04	4,538.55	4,428.60	109.96	41.276	
14,500.00	7,618.00	7,726.37	7,635.08	124.06	30.51	90.40	-3,619.87	1,013.04	4,523.61	4,413.11	110.50	40.937	
14,600.00	7,618.00	7,725.39	7,634.10	124.42	30.51	90.38	-3,619.88	1,013.03	4,510.83	4,399.77	111.06	40.615	
14,700.00	7,618.00	7,724.39	7,633.10	124.80	30.50	90.37	-3,619.89	1,013.02	4,500.24	4,388.60	111.64	40.311	
14,800.00	7,618.00	7,723.38	7,632.09	125.21	30.50	90.36	-3,619.90	1,013.02	4,491.84	4,379.62	112.22	40.025	
14,900.00	7,618.00	7,722.36	7,631.07	125.65	30.50	90.35	-3,619.91	1,013.01	4,485.67	4,372.84	112.82	39.758	
15,000.00	7,618.00	7,721.33	7,630.04	126.11	30.49	90.33	-3,619.92	1,013.01	4,481.71	4,368.28	113.43	39.510	
15,100.00	7,618.00	7,720.29	7,629.00	126.61	30.49	90.32	-3,619.93	1,013.00	4,479.99	4,365.94	114.05	39.282	
15,127.30	7,618.00	7,720.00	7,628.71	126.74	30.49	90.32	-3,619.93	1,013.00	4,479.90	4,365.69	114.22	39.223	
15,200.00	7,618.00	7,719.23	7,627.94	127.13	30.49	90.31	-3,619.94	1,013.00	4,480.49	4,365.83	114.67	39.074	
15,300.00	7,618.00	7,718.16	7,626.87	127.68	30.48	90.29	-3,619.95	1,012.99	4,483.23	4,367.94	115.29	38.887	
15,400.00	7,618.00	7,717.08	7,625.79	128.26	30.48	90.28	-3,619.96	1,012.98	4,488.20	4,372.28	115.92	38.720	
15,500.00	7,618.00	7,715.99	7,624.69	128.87	30.48	90.26	-3,619.97	1,012.98	4,495.38	4,378.84	116.54	38.574	
15,600.00	7,618.00	7,714.88	7,623.58	129.51	30.47	90.25	-3,619.98	1,012.97	4,504.77	4,387.61	117.16	38.449	
15,700.00	7,618.00	7,713.76	7,622.46	130.18	30.47	90.24	-3,619.99	1,012.97	4,516.36	4,398.58	117.78	38.345	
15,800.00	7,618.00	7,712.62	7,621.33	130.88	30.47	90.22	-3,620.00	1,012.96	4,530.12	4,411.73	118.39	38.263	
15,900.00	7,618.00	7,711.47	7,620.18	131.61	30.46	90.21	-3,620.02	1,012.95	4,546.05	4,427.05	119.00	38.202	
16,000.00	7,618.00	7,710.30	7,619.01	132.37	30.46	90.19	-3,620.03	1,012.95	4,564.11	4,444.51	119.60	38.162	
16,100.00	7,618.00	7,709.13	7,617.83	133.17	30.45	90.18	-3,620.04	1,012.94	4,584.28	4,464.09	120.19	38.143	SF
16,200.00	7,618.00	7,707.93	7,616.64	133.99	30.45	90.16	-3,620.05	1,012.93	4,606.53	4,485.76	120.76	38.145	
16,300.00	7,618.00	7,706.72	7,615.43	134.84	30.45	90.15	-3,620.07	1,012.93	4,630.83	4,509.51	121.33	38.168	
16,400.00	7,618.00	7,705.50	7,614.21	135.72	30.44	90.13	-3,620.08	1,012.92	4,657.16	4,535.28	121.88	38.212	
16,500.00	7,618.00	7,704.26	7,612.97	136.63	30.44	90.11	-3,620.09	1,012.91	4,685.47	4,563.06	122.41	38.276	
16,600.00	7,618.00	7,703.00	7,611.71	137.57	30.43	90.10	-3,620.11	1,012.91	4,715.73	4,592.80	122.93	38.360	
16,700.00	7,618.00	7,701.73	7,610.44	138.54	30.43	90.08	-3,620.12	1,012.90	4,747.91	4,624.47	123.44	38.464	
16,800.00	7,618.00	7,700.44	7,609.15	139.53	30.43	90.07	-3,620.13	1,012.89	4,781.96	4,658.03	123.93	38.587	
16,900.00	7,618.00	7,699.13	7,607.84	140.55	30.42	90.05	-3,620.15	1,012.89	4,817.84	4,693.45	124.40	38.729	
17,000.00	7,618.00	7,698.01	7,606.72	141.60	30.42	90.03	-3,620.16	1,012.88	4,855.53	4,730.67	124.86	38.889	
17,100.00	7,618.00	7,696.92	7,605.63	142.67	30.41	90.02	-3,620.17	1,012.88	4,894.96	4,769.66	125.30	39.067	
17,200.00	7,618.00	7,695.84	7,604.55	143.77	30.41	90.01	-3,620.18	1,012.87	4,936.10	4,810.38	125.72	39.263	
17,300.00	7,618.00	7,694.77	7,603.48	144.88	30.41	89.99	-3,620.20	1,012.86	4,978.91	4,852.79	126.12	39.476	
17,400.00	7,618.00	7,693.70	7,602.41	146.02	30.40	89.98	-3,620.21	1,012.86	5,023.35	4,896.84	126.51	39.706	
17,500.00	7,618.00	7,692.64	7,601.35	147.19	30.40	89.97	-3,620.22	1,012.85	5,069.37	4,942.49	126.88	39.953	
17,600.00	7,618.00	7,691.59	7,600.30	148.37	30.40	89.95	-3,620.23	1,012.85	5,116.94	4,989.70	127.24	40.216	
17,700.00	7,618.00	7,690.54	7,599.25	149.57	30.39	89.94	-3,620.24	1,012.84	5,166.00	5,038.42	127.58	40.494	
17,800.00	7,618.00	7,689.50	7,598.21	150.79	30.39	89.93	-3,620.25	1,012.84	5,216.51	5,088.61	127.90	40.787	
17,900.00	7,618.00	7,688.47	7,597.18	152.03	30.39	89.91	-3,620.26	1,012.83	5,268.44	5,140.24	128.20	41.095	
18,000.00	7,618.00	7,687.45	7,596.16	153.29	30.38	89.90	-3,620.27	1,012.83	5,321.74	5,193.25	128.49	41.417	
18,100.00	7,618.00	7,686.43	7,595.14	154.57	30.38	89.89	-3,620.29	1,012.82	5,376.37	5,247.61	128.77	41.753	
18,200.00	7,618.00	7,685.42	7,594.13	155.86	30.38	89.87	-3,620.30	1,012.82	5,432.30	5,303.27	129.03	42.102	
18,300.00	7,618.00	7,684.42	7,593.13	157.17	30.37	89.86	-3,620.31	1,012.81	5,489.48	5,360.20	129.27	42.464	
18,400.00	7,618.00	7,683.42	7,592.13	158.49	30.37	89.85	-3,620.32	1,012.81	5,547.86	5,418.36	129.51	42.839	
18,500.00	7,618.00	7,682.43	7,591.14	159.82	30.37	89.84	-3,620.33	1,012.80	5,607.43	5,477.70	129.73	43.225	
18,600.00	7,618.00	7,681.45	7,590.15	161.17	30.37	89.82	-3,620.34	1,012.80	5,668.13	5,538.20	129.93	43.624	
18,700.00	7,618.00	7,680.47	7,589.18	162.54	30.36	89.81	-3,620.35	1,012.79	5,729.94	5,599.81	130.13	44.034	
18,800.00	7,618.00	7,679.50	7,588.21	163.91	30.36	89.80	-3,620.36	1,012.79	5,792.81	5,662.50	130.31	44.455	
18,900.00	7,618.00	7,678.53	7,587.24	165.30	30.36	89.79	-3,620.37	1,012.78	5,856.71	5,726.23	130.48	44.886	
19,000.00	7,618.00	7,677.57	7,586.28	166.70	30.35	89.77	-3,620.38	1,012.78	5,921.62	5,790.98	130.64	45.328	
19,100.00	7,618.00	7,676.62	7,585.33	168.10	30.35	89.76	-3,620.39	1,012.77	5,987.49	5,856.69	130.79	45.779	
19,200.00	7,618.00	7,675.68	7,584.39	169.52	30.35	89.75	-3,620.40	1,012.77	6,054.29	5,923.36	130.93	46.240	
19,300.00	7,618.00	7,674.74	7,583.45	170.95	30.34	89.74	-3,620.41	1,012.76	6,122.00	5,990.94	131.06	46.710	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 120-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			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
19,400.00	7,618.00	7,673.80	7,582.51	172.39	30.34	89.73	-3,620.42	1,012.76	6,190.58	6,059.40	131.19	47.190	
19,500.00	7,618.00	7,672.88	7,581.59	173.84	30.34	89.71	-3,620.43	1,012.75	6,260.01	6,128.71	131.30	47.677	
19,600.00	7,618.00	7,671.96	7,580.67	175.30	30.34	89.70	-3,620.44	1,012.75	6,330.26	6,198.86	131.41	48.174	
19,700.00	7,618.00	7,671.04	7,579.75	176.76	30.33	89.69	-3,620.44	1,012.74	6,401.30	6,269.80	131.50	48.678	
19,800.00	7,618.00	7,670.13	7,578.84	178.24	30.33	89.68	-3,620.45	1,012.74	6,473.10	6,341.51	131.60	49.189	
19,896.19	7,618.00	7,669.26	7,577.97	179.66	30.33	89.67	-3,620.46	1,012.74	6,542.87	6,411.19	131.68	49.689	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	176.08	-4,029.02	276.41	4,038.52				
100.00	100.00	100.12	100.12	0.13	0.17	176.07	-4,028.85	276.64	4,038.36	4,038.06	0.31	N/A	
200.00	200.00	251.82	251.80	0.49	0.72	176.04	-4,027.20	278.74	4,037.37	4,036.16	1.21	3,334.158	
292.30	292.28	292.30	325.89	0.82	0.86	106.73	-4,025.85	280.45	4,036.31	4,034.63	1.68	2,399.108	CC, ES
300.00	299.98	305.00	304.94	0.85	0.91	106.73	-4,026.12	280.10	4,036.40	4,034.64	1.76	2,299.487	
400.00	399.84	305.00	304.94	1.21	0.91	106.68	-4,026.12	280.10	4,038.67	4,036.55	2.12	1,905.947	
500.00	499.45	419.25	419.09	1.58	1.33	106.67	-4,025.56	284.68	4,040.68	4,037.77	2.91	1,390.853	
600.00	598.70	462.23	461.99	1.97	1.48	106.60	-4,026.41	287.08	4,046.54	4,043.09	3.45	1,171.907	
700.00	697.47	505.03	504.68	2.38	1.64	106.49	-4,027.83	289.83	4,054.81	4,050.79	4.02	1,008.171	
800.00	795.62	547.59	547.09	2.83	1.80	106.35	-4,029.81	292.93	4,065.46	4,060.84	4.62	880.668	
900.00	893.06	639.00	637.94	3.31	2.13	106.29	-4,035.97	300.79	4,079.17	4,073.75	5.42	752.905	
1,000.00	989.64	639.00	637.94	3.83	2.13	106.00	-4,035.97	300.79	4,093.88	4,087.96	5.92	691.128	
1,100.00	1,085.27	676.53	675.16	4.40	2.28	105.76	-4,039.23	304.41	4,111.55	4,104.94	6.61	621.952	
1,200.00	1,179.82	731.00	729.08	5.02	2.50	105.54	-4,044.63	309.87	4,131.48	4,124.07	7.40	558.037	
1,300.00	1,273.17	731.00	729.08	5.70	2.50	105.10	-4,044.63	309.87	4,153.87	4,145.84	8.03	517.499	
1,400.00	1,365.21	791.24	788.52	6.43	2.75	104.84	-4,051.80	316.51	4,178.21	4,169.27	8.94	467.239	
1,500.00	1,455.84	825.00	821.70	7.23	2.89	104.45	-4,056.47	320.63	4,205.15	4,195.35	9.80	429.232	
1,600.00	1,544.94	859.41	855.41	8.09	3.04	104.01	-4,061.68	325.10	4,234.37	4,223.66	10.71	395.371	
1,700.00	1,632.39	893.92	889.13	9.01	3.20	103.54	-4,067.34	329.84	4,265.81	4,254.13	11.67	365.447	
1,800.00	1,718.11	920.00	914.53	10.00	3.32	102.99	-4,071.90	333.59	4,299.42	4,286.78	12.65	339.973	
1,900.00	1,801.97	959.34	952.74	11.07	3.51	102.47	-4,079.26	339.40	4,335.14	4,321.40	13.74	315.541	
2,000.00	1,883.88	1,014.00	1,005.60	12.20	3.78	102.01	-4,090.47	347.64	4,373.12	4,358.16	14.96	292.343	
2,100.00	1,963.74	1,014.00	1,005.60	13.41	3.78	101.16	-4,090.47	347.64	4,412.80	4,396.85	15.95	276.665	
2,200.00	2,041.45	1,062.94	1,052.73	14.69	4.04	100.61	-4,101.26	355.19	4,454.46	4,437.21	17.25	258.253	
2,300.00	2,116.92	1,108.00	1,096.00	16.05	4.28	99.99	-4,111.66	362.27	4,497.86	4,479.29	18.57	242.164	
2,357.48	2,159.25	1,138.70	1,125.45	16.86	4.45	99.67	-4,118.88	367.05	4,523.52	4,504.13	19.39	233.343	
2,400.00	2,190.27	1,169.70	1,155.22	17.47	4.62	99.92	-4,126.17	371.69	4,542.69	4,522.65	20.04	226.710	
2,500.00	2,263.22	1,305.89	1,286.40	18.92	5.37	100.98	-4,156.85	391.65	4,587.22	4,565.26	21.95	208.973	
2,600.00	2,336.18	1,348.36	1,327.24	20.37	5.61	101.31	-4,166.44	398.27	4,632.48	4,609.16	23.32	198.609	
2,700.00	2,409.14	1,454.68	1,429.22	21.84	6.22	102.09	-4,190.77	415.94	4,678.50	4,653.41	25.10	186.424	
2,800.00	2,482.09	1,531.27	1,502.68	23.31	6.67	102.64	-4,207.87	429.24	4,724.45	4,697.76	26.69	177.010	
2,900.00	2,555.05	1,596.11	1,564.83	24.78	7.05	103.10	-4,222.44	440.60	4,770.94	4,742.74	28.21	169.134	
3,000.00	2,628.01	1,657.74	1,623.81	26.27	7.42	103.53	-4,236.49	451.65	4,818.10	4,788.40	29.70	162.222	
3,100.00	2,700.96	1,726.30	1,689.39	27.75	7.84	104.00	-4,252.26	463.94	4,865.83	4,834.59	31.24	155.775	
3,200.00	2,773.92	1,860.01	1,817.36	29.24	8.65	104.89	-4,282.33	488.36	4,913.51	4,880.28	33.23	147.883	
3,300.00	2,846.88	1,910.86	1,866.09	30.73	8.95	105.23	-4,293.61	497.53	4,961.39	4,926.76	34.63	143.264	
3,400.00	2,919.83	1,986.68	1,938.85	32.23	9.41	105.73	-4,310.61	510.42	5,009.95	4,973.75	36.20	138.403	
3,500.00	2,992.79	2,080.56	2,029.07	33.72	9.97	106.34	-4,331.30	526.10	5,058.64	5,020.75	37.89	133.525	
3,600.00	3,065.75	2,143.96	2,089.98	35.22	10.35	106.75	-4,345.19	536.92	5,107.58	5,068.23	39.35	129.794	
3,700.00	3,138.71	2,181.97	2,126.39	36.72	10.58	106.99	-4,353.80	543.61	5,157.35	5,116.73	40.62	126.951	
3,800.00	3,211.66	2,221.09	2,163.75	38.22	10.82	107.23	-4,362.97	550.70	5,208.01	5,166.12	41.89	124.320	
3,900.00	3,284.62	2,309.90	2,248.59	39.72	11.37	107.77	-4,383.93	566.53	5,259.16	5,215.63	43.53	120.804	
4,000.00	3,357.58	2,410.60	2,344.91	41.22	11.99	108.38	-4,407.31	584.29	5,310.37	5,265.11	45.26	117.323	
4,100.00	3,430.53	2,527.75	2,457.22	42.73	12.71	109.07	-4,433.44	604.99	5,361.09	5,313.97	47.12	113.786	
4,200.00	3,503.49	2,571.13	2,498.74	44.23	12.98	109.33	-4,443.24	612.84	5,412.36	5,363.98	48.39	111.857	
4,300.00	3,576.45	2,667.70	2,591.01	45.74	13.58	109.87	-4,465.44	630.70	5,464.22	5,414.14	50.08	109.113	
4,400.00	3,649.40	2,794.08	2,712.15	47.25	14.35	110.58	-4,493.27	653.61	5,515.63	5,463.63	52.00	106.066	
4,500.00	3,722.36	2,862.56	2,777.88	48.75	14.77	110.95	-4,508.08	665.78	5,567.09	5,513.64	53.45	104.157	
4,600.00	3,795.32	2,916.92	2,830.09	50.26	15.10	111.25	-4,519.89	675.27	5,618.97	5,564.20	54.77	102.588	
4,700.00	3,868.27	2,971.00	2,881.96	51.77	15.43	111.55	-4,531.92	684.75	5,671.48	5,615.39	56.08	101.126	
4,800.00	3,941.23	3,049.90	2,957.60	53.28	15.91	111.97	-4,549.59	698.56	5,724.38	5,666.79	57.59	99.395	
4,900.00	4,014.19	3,116.24	3,021.22	54.79	16.31	112.32	-4,564.43	710.16	5,777.50	5,718.51	58.99	97.940	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
5,000.00	4,087.15	3,180.84	3,083.08	56.30	16.71	112.65	-4,579.07	721.63	5,831.05	5,770.68	60.37	96.592	
5,100.00	4,160.10	3,252.92	3,152.08	57.81	17.16	113.02	-4,595.49	734.45	5,884.91	5,823.10	61.80	95.219	
5,200.00	4,233.06	3,386.77	3,280.37	59.32	17.98	113.69	-4,625.24	758.37	5,938.51	5,874.74	63.77	93.127	
5,300.00	4,306.02	3,461.31	3,351.77	60.83	18.44	114.05	-4,641.63	772.15	5,992.10	5,926.88	65.22	91.875	
5,400.00	4,378.97	3,524.18	3,411.96	62.34	18.83	114.35	-4,655.57	783.80	6,046.02	5,979.45	66.57	90.828	
5,500.00	4,451.93	3,575.14	3,460.74	63.85	19.15	114.59	-4,666.98	793.15	6,100.37	6,032.57	67.80	89.981	
5,600.00	4,524.89	3,621.13	3,504.73	65.36	19.44	114.81	-4,677.48	801.45	6,155.28	6,086.31	68.97	89.244	
5,700.00	4,597.84	5,700.00	3,593.37	66.88	32.32	115.24	-4,698.55	817.91	6,210.40	6,128.71	81.69	76.019	
5,800.00	4,670.80	3,853.23	3,727.37	68.39	20.86	115.88	-4,728.84	842.24	6,264.83	6,192.29	72.54	86.360	
5,900.00	4,743.76	3,895.67	3,768.14	69.90	21.11	116.08	-4,738.08	849.56	6,319.74	6,246.08	73.66	85.795	
6,000.00	4,816.71	3,919.00	3,790.53	71.41	21.25	116.18	-4,743.25	853.59	6,375.30	6,300.71	74.59	85.467	
6,100.00	4,889.67	3,964.29	3,833.96	72.93	21.53	116.39	-4,753.55	861.24	6,431.47	6,355.76	75.71	84.946	
6,200.00	4,962.63	4,014.00	3,881.60	74.44	21.84	116.61	-4,765.27	869.28	6,488.45	6,411.58	76.86	84.417	
6,300.00	5,035.59	4,052.86	3,918.81	75.95	22.08	116.78	-4,774.60	875.49	6,545.91	6,468.01	77.90	84.029	
6,400.00	5,108.54	5,193.10	5,035.83	77.47	27.39	122.21	-4,930.77	1,001.58	6,598.64	6,512.14	86.51	76.277	
6,500.00	5,181.50	5,281.16	5,123.87	78.98	27.62	122.70	-4,931.90	1,002.42	6,644.50	6,556.85	87.65	75.806	
6,600.00	5,254.46	5,436.71	5,279.41	80.49	28.02	123.54	-4,932.71	1,004.27	6,690.17	6,601.16	89.01	75.161	
6,700.00	5,327.41	5,511.17	5,353.87	82.01	28.20	123.94	-4,932.54	1,004.96	6,735.74	6,645.66	90.08	74.779	
6,800.00	5,400.37	5,582.41	5,425.11	83.52	28.37	124.32	-4,932.30	1,005.50	6,781.65	6,690.54	91.11	74.430	
6,900.00	5,473.33	5,659.72	5,502.42	85.04	28.56	124.74	-4,932.02	1,006.00	6,827.95	6,735.79	92.16	74.087	
7,000.00	5,546.28	5,740.68	5,583.37	86.55	28.75	125.16	-4,931.64	1,006.56	6,874.51	6,781.31	93.21	73.755	
7,100.00	5,619.24	5,814.43	5,657.12	88.06	28.93	125.55	-4,931.27	1,007.08	6,921.40	6,827.18	94.22	73.460	
7,200.00	5,692.20	5,894.45	5,737.14	89.58	29.12	125.96	-4,930.78	1,007.57	6,968.60	6,873.36	95.24	73.169	
7,300.00	5,765.15	5,979.45	5,822.13	91.09	29.32	126.40	-4,930.10	1,007.97	7,016.04	6,919.78	96.26	72.887	
7,400.00	5,838.11	6,063.98	5,906.66	92.61	29.52	126.82	-4,929.25	1,008.32	7,063.69	6,966.42	97.27	72.622	
7,500.00	5,911.07	6,147.84	5,990.51	94.12	29.72	127.25	-4,928.26	1,008.67	7,111.56	7,013.30	98.26	72.376	
7,600.00	5,984.03	6,226.02	6,068.68	95.64	29.90	127.64	-4,927.22	1,008.97	7,159.66	7,060.44	99.22	72.157	
7,700.00	6,056.98	6,312.12	6,154.77	97.15	30.11	128.06	-4,926.04	1,009.32	7,208.05	7,107.85	100.20	71.934	
7,800.00	6,129.94	6,422.00	6,264.64	98.67	30.37	128.60	-4,924.09	1,009.90	7,256.43	7,155.18	101.25	71.668	
7,900.00	6,202.90	6,496.27	6,338.89	100.18	30.55	128.96	-4,922.52	1,010.30	7,304.89	7,202.72	102.18	71.494	
8,000.00	6,275.85	6,548.68	6,391.29	101.70	30.67	129.21	-4,921.64	1,010.76	7,353.82	7,250.80	103.02	71.380	
8,100.00	6,348.81	6,607.12	6,449.72	103.21	30.82	129.48	-4,920.92	1,011.46	7,403.23	7,299.35	103.89	71.262	
8,200.00	6,421.77	6,669.25	6,511.84	104.73	30.99	129.77	-4,920.30	1,012.24	7,453.06	7,348.30	104.76	71.145	
8,300.00	6,494.72	6,737.95	6,580.53	106.24	31.17	130.08	-4,919.72	1,013.15	7,503.23	7,397.58	105.65	71.021	
8,400.00	6,567.68	6,832.58	6,675.15	107.76	31.42	130.51	-4,918.91	1,014.53	7,553.62	7,446.99	106.63	70.840	
8,500.00	6,640.64	6,948.35	6,790.89	109.27	31.73	131.03	-4,917.49	1,016.46	7,603.95	7,496.27	107.68	70.615	
8,600.00	6,713.59	6,987.21	6,829.74	110.79	31.83	131.20	-4,916.92	1,016.94	7,654.52	7,546.09	108.43	70.594	
8,700.00	6,786.55	7,036.00	6,878.53	112.30	31.95	131.42	-4,916.22	1,017.17	7,705.64	7,596.44	109.20	70.563	
8,800.00	6,859.51	7,134.78	6,977.30	113.82	32.20	131.86	-4,914.57	1,017.18	7,757.06	7,646.93	110.13	70.433	
8,900.00	6,932.46	7,231.94	7,074.43	115.33	32.43	132.30	-4,912.43	1,017.04	7,808.43	7,697.39	111.04	70.318	
9,000.00	7,005.42	7,331.56	7,174.01	116.85	32.67	132.74	-4,909.63	1,016.51	7,859.82	7,747.87	111.95	70.210	
9,104.89	7,081.95	7,386.27	7,228.70	118.44	32.81	132.98	-4,908.05	1,016.11	7,914.00	7,801.28	112.72	70.210	
9,150.00	7,115.15	7,414.00	7,256.42	119.12	32.87	127.18	-4,907.29	1,015.90	7,936.06	7,822.99	113.07	70.185	
9,200.00	7,152.46	7,432.31	7,274.72	119.86	32.92	120.69	-4,906.83	1,015.78	7,957.34	7,843.89	113.45	70.141	
9,250.00	7,190.04	7,451.91	7,294.32	120.57	32.97	114.28	-4,906.40	1,015.67	7,975.17	7,861.32	113.85	70.051	
9,300.00	7,227.59	7,471.51	7,313.92	121.25	33.02	108.08	-4,906.03	1,015.59	7,989.44	7,875.17	114.26	69.921	
9,350.00	7,264.83	7,508.00	7,350.40	121.89	33.11	102.30	-4,905.54	1,015.51	8,000.09	7,885.34	114.75	69.717	
9,400.00	7,301.48	7,515.38	7,357.78	122.48	33.13	96.83	-4,905.46	1,015.50	8,006.96	7,891.83	115.13	69.545	
9,450.00	7,337.26	7,578.99	7,421.38	123.01	33.29	92.19	-4,904.72	1,015.58	8,010.00	7,894.27	115.73	69.213	
9,500.00	7,371.90	7,633.36	7,475.75	123.49	33.44	88.12	-4,904.01	1,015.83	8,009.09	7,892.81	116.28	68.875	
9,550.00	7,405.13	7,681.57	7,523.95	123.91	33.57	84.65	-4,903.38	1,016.26	8,004.32	7,887.51	116.81	68.527	
9,600.00	7,436.70	7,778.07	7,620.43	124.27	33.83	82.11	-4,901.91	1,017.60	7,995.66	7,878.16	117.50	68.046	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	7,826.67	7,669.02	124.57	33.97	79.94	-4,900.96	1,018.47	7,983.14	7,865.15	117.99	67.659	
9,700.00	7,493.91	7,864.61	7,706.94	124.81	34.07	78.34	-4,900.18	1,019.20	7,967.02	7,848.61	118.41	67.284	
9,750.00	7,519.11	7,899.15	7,741.46	125.00	34.17	77.34	-4,899.43	1,019.90	7,947.44	7,828.65	118.79	66.904	
9,800.00	7,541.79	7,885.00	7,727.32	125.12	34.13	76.61	-4,899.74	1,019.61	7,924.65	7,805.71	118.95	66.624	
9,850.00	7,561.77	7,908.91	7,751.22	125.20	34.20	76.77	-4,899.25	1,020.05	7,898.71	7,779.49	119.22	66.251	
9,900.00	7,578.90	7,916.52	7,758.83	125.23	34.22	77.45	-4,899.10	1,020.18	7,869.90	7,750.49	119.41	65.907	
9,950.00	7,593.04	7,922.73	7,765.04	125.22	34.23	78.80	-4,898.98	1,020.27	7,838.37	7,718.81	119.56	65.560	
10,000.00	7,604.09	7,927.50	7,769.80	125.17	34.25	80.90	-4,898.89	1,020.34	7,804.36	7,684.67	119.68	65.210	
10,050.00	7,611.97	7,930.77	7,773.08	125.08	34.26	83.82	-4,898.83	1,020.38	7,768.08	7,648.31	119.77	64.857	
10,100.00	7,616.61	7,932.53	7,774.84	124.97	34.26	87.69	-4,898.80	1,020.41	7,729.80	7,609.96	119.84	64.501	
10,145.95	7,618.00	7,932.80	7,775.11	124.84	34.26	92.19	-4,898.80	1,020.41	7,693.07	7,573.19	119.88	64.172	
10,200.00	7,618.00	7,932.35	7,774.65	124.69	34.26	92.19	-4,898.80	1,020.41	7,649.15	7,529.23	119.92	63.785	
10,300.00	7,618.00	7,931.51	7,773.81	124.41	34.26	92.18	-4,898.82	1,020.39	7,568.24	7,448.25	119.99	63.072	
10,400.00	7,618.00	7,930.66	7,772.96	124.14	34.26	92.17	-4,898.83	1,020.38	7,487.79	7,367.72	120.07	62.360	
10,500.00	7,618.00	7,929.80	7,772.11	123.88	34.25	92.15	-4,898.85	1,020.37	7,407.82	7,287.66	120.16	61.651	
10,600.00	7,618.00	7,928.94	7,771.25	123.63	34.25	92.14	-4,898.87	1,020.36	7,328.34	7,208.09	120.25	60.944	
10,700.00	7,618.00	7,928.08	7,770.38	123.40	34.25	92.13	-4,898.88	1,020.35	7,249.37	7,129.02	120.34	60.240	
10,800.00	7,618.00	7,927.21	7,769.51	123.18	34.25	92.12	-4,898.90	1,020.34	7,170.92	7,050.48	120.44	59.538	
10,900.00	7,618.00	7,926.33	7,768.63	122.96	34.24	92.11	-4,898.91	1,020.32	7,093.01	6,972.46	120.55	58.840	
11,000.00	7,618.00	7,925.44	7,767.75	122.76	34.24	92.10	-4,898.93	1,020.31	7,015.67	6,895.00	120.66	58.144	
11,100.00	7,618.00	7,924.55	7,766.86	122.57	34.24	92.09	-4,898.95	1,020.30	6,938.90	6,818.12	120.78	57.451	
11,200.00	7,618.00	7,923.65	7,765.96	122.39	34.24	92.08	-4,898.96	1,020.28	6,862.73	6,741.82	120.91	56.761	
11,300.00	7,618.00	7,922.75	7,765.05	122.23	34.23	92.06	-4,898.98	1,020.27	6,787.18	6,666.14	121.04	56.075	
11,400.00	7,618.00	7,921.83	7,764.14	122.07	34.23	92.05	-4,899.00	1,020.26	6,712.27	6,591.09	121.18	55.392	
11,500.00	7,618.00	7,920.92	7,763.22	121.93	34.23	92.04	-4,899.01	1,020.24	6,638.02	6,516.69	121.32	54.713	
11,600.00	7,618.00	7,919.99	7,762.30	121.79	34.23	92.03	-4,899.03	1,020.23	6,564.45	6,442.97	121.48	54.038	
11,700.00	7,618.00	7,919.06	7,761.37	121.67	34.22	92.02	-4,899.05	1,020.22	6,491.59	6,369.95	121.64	53.367	
11,800.00	7,618.00	7,918.12	7,760.43	121.56	34.22	92.00	-4,899.07	1,020.20	6,419.46	6,297.64	121.81	52.700	
11,900.00	7,618.00	7,917.17	7,759.48	121.46	34.22	91.99	-4,899.09	1,020.19	6,348.08	6,226.09	121.99	52.037	
12,000.00	7,618.00	7,916.22	7,758.53	121.38	34.22	91.98	-4,899.10	1,020.17	6,277.49	6,155.31	122.18	51.380	
12,100.00	7,618.00	7,915.26	7,757.57	121.30	34.21	91.97	-4,899.12	1,020.16	6,207.70	6,085.33	122.38	50.727	
12,200.00	7,618.00	7,914.29	7,756.60	121.24	34.21	91.96	-4,899.14	1,020.14	6,138.75	6,016.17	122.58	50.079	
12,300.00	7,618.00	7,913.31	7,755.62	121.19	34.21	91.94	-4,899.16	1,020.13	6,070.66	5,947.87	122.80	49.437	
12,400.00	7,618.00	7,912.33	7,754.64	121.16	34.20	91.93	-4,899.18	1,020.11	6,003.47	5,880.45	123.02	48.800	
12,500.00	7,618.00	7,911.34	7,753.65	121.14	34.20	91.92	-4,899.20	1,020.09	5,937.20	5,813.94	123.26	48.170	
12,600.00	7,618.00	7,910.34	7,752.65	121.13	34.20	91.91	-4,899.22	1,020.08	5,871.89	5,748.38	123.50	47.545	
12,700.00	7,618.00	7,909.34	7,751.65	121.13	34.20	91.89	-4,899.24	1,020.06	5,807.56	5,683.80	123.76	46.927	
12,800.00	7,618.00	7,908.32	7,750.64	121.15	34.19	91.88	-4,899.26	1,020.04	5,744.25	5,620.23	124.02	46.316	
12,900.00	7,618.00	7,907.30	7,749.61	121.18	34.19	91.87	-4,899.28	1,020.03	5,682.00	5,557.70	124.30	45.713	
13,000.00	7,618.00	7,906.27	7,748.58	121.23	34.19	91.85	-4,899.30	1,020.01	5,620.83	5,496.25	124.59	45.116	
13,100.00	7,618.00	7,905.23	7,747.55	121.29	34.19	91.84	-4,899.32	1,019.99	5,560.79	5,435.91	124.88	44.528	
13,200.00	7,618.00	7,904.19	7,746.50	121.37	34.18	91.83	-4,899.34	1,019.97	5,501.92	5,376.73	125.19	43.948	
13,300.00	7,618.00	7,903.13	7,745.45	121.46	34.18	91.81	-4,899.36	1,019.95	5,444.24	5,318.73	125.51	43.377	
13,400.00	7,618.00	7,885.00	7,727.32	121.57	34.13	91.58	-4,899.74	1,019.61	5,387.85	5,262.13	125.73	42.854	
13,500.00	7,618.00	7,885.00	7,727.32	121.70	34.13	91.58	-4,899.74	1,019.61	5,332.69	5,206.62	126.07	42.299	
13,600.00	7,618.00	7,885.00	7,727.32	121.84	34.13	91.58	-4,899.74	1,019.61	5,278.84	5,152.41	126.43	41.754	
13,700.00	7,618.00	7,885.00	7,727.32	122.01	34.13	91.58	-4,899.74	1,019.61	5,226.35	5,099.55	126.80	41.218	
13,800.00	7,618.00	7,885.00	7,727.32	122.19	34.13	91.58	-4,899.74	1,019.61	5,175.26	5,048.08	127.17	40.694	
13,900.00	7,618.00	7,885.00	7,727.32	122.39	34.13	91.58	-4,899.74	1,019.61	5,125.61	4,998.05	127.56	40.181	
14,000.00	7,618.00	7,885.00	7,727.32	122.62	34.13	91.58	-4,899.74	1,019.61	5,077.45	4,949.49	127.96	39.680	
14,100.00	7,618.00	14,100.00	7,735.95	122.86	51.94	91.69	-4,899.56	1,019.77	5,030.80	4,884.95	145.86	34.491	
14,200.00	7,618.00	7,903.61	7,745.92	123.12	34.18	91.82	-4,899.34	1,019.99	4,985.71	4,856.79	128.92	38.672	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	7,900.92	7,743.24	123.41	34.17	91.78	-4,899.39	1,019.94	4,942.27	4,812.94	129.33	38.215	
14,400.00	7,618.00	7,898.25	7,740.56	123.72	34.17	91.75	-4,899.45	1,019.88	4,900.47	4,770.74	129.74	37.772	
14,500.00	7,618.00	7,895.59	7,737.91	124.06	34.16	91.72	-4,899.51	1,019.83	4,860.38	4,730.22	130.16	37.343	
14,600.00	7,618.00	7,892.95	7,735.26	124.42	34.15	91.68	-4,899.57	1,019.77	4,822.02	4,691.44	130.58	36.928	
14,700.00	7,618.00	7,890.32	7,732.64	124.80	34.14	91.65	-4,899.63	1,019.72	4,785.45	4,654.44	131.01	36.528	
14,800.00	7,618.00	7,887.70	7,730.02	125.21	34.14	91.62	-4,899.68	1,019.67	4,750.70	4,619.26	131.44	36.144	
14,900.00	7,618.00	7,885.10	7,727.43	125.65	34.13	91.58	-4,899.74	1,019.61	4,717.81	4,585.94	131.87	35.776	
15,000.00	7,618.00	7,882.52	7,724.84	126.11	34.12	91.55	-4,899.79	1,019.56	4,686.82	4,554.51	132.31	35.424	
15,100.00	7,618.00	7,879.95	7,722.27	126.61	34.12	91.52	-4,899.85	1,019.51	4,657.77	4,525.03	132.74	35.089	
15,200.00	7,618.00	7,877.39	7,719.71	127.13	34.11	91.48	-4,899.90	1,019.46	4,630.70	4,497.53	133.18	34.771	
15,300.00	7,618.00	7,874.85	7,717.17	127.68	34.10	91.45	-4,899.96	1,019.40	4,605.64	4,472.04	133.61	34.471	
15,400.00	7,618.00	7,872.32	7,714.64	128.26	34.09	91.42	-4,900.01	1,019.35	4,582.63	4,448.59	134.04	34.190	
15,500.00	7,618.00	7,869.80	7,712.13	128.87	34.09	91.39	-4,900.07	1,019.30	4,561.69	4,427.23	134.46	33.926	
15,600.00	7,618.00	7,867.30	7,709.62	129.51	34.08	91.35	-4,900.12	1,019.25	4,542.85	4,407.98	134.88	33.681	
15,700.00	7,618.00	7,864.81	7,707.14	130.18	34.07	91.32	-4,900.17	1,019.20	4,526.15	4,390.86	135.29	33.456	
15,800.00	7,618.00	7,862.33	7,704.66	130.88	34.07	91.29	-4,900.22	1,019.16	4,511.60	4,375.91	135.69	33.250	
15,900.00	7,618.00	7,859.87	7,702.20	131.61	34.06	91.26	-4,900.27	1,019.11	4,499.22	4,363.14	136.08	33.063	
16,000.00	7,618.00	7,857.42	7,699.75	132.37	34.05	91.23	-4,900.33	1,019.06	4,489.04	4,352.58	136.46	32.896	
16,100.00	7,618.00	7,854.98	7,697.31	133.17	34.05	91.20	-4,900.38	1,019.01	4,481.06	4,344.24	136.83	32.750	
16,200.00	7,618.00	7,852.56	7,694.89	133.99	34.04	91.16	-4,900.43	1,018.96	4,475.31	4,338.13	137.18	32.623	
16,300.00	7,618.00	7,850.15	7,692.48	134.84	34.03	91.13	-4,900.48	1,018.92	4,471.78	4,334.26	137.52	32.517	
16,400.00	7,618.00	7,847.75	7,690.08	135.72	34.03	91.10	-4,900.53	1,018.87	4,470.49	4,332.64	137.85	32.431	
16,407.88	7,618.00	7,847.56	7,689.90	135.79	34.03	91.10	-4,900.53	1,018.87	4,470.48	4,332.61	137.87	32.425	
16,500.00	7,618.00	7,845.36	7,687.70	136.63	34.02	91.07	-4,900.58	1,018.83	4,471.43	4,333.27	138.16	32.365	
16,600.00	7,618.00	7,842.99	7,685.33	137.57	34.01	91.04	-4,900.63	1,018.78	4,474.60	4,336.16	138.45	32.320	
16,700.00	7,618.00	7,840.63	7,682.97	138.54	34.01	91.01	-4,900.67	1,018.73	4,480.01	4,341.29	138.72	32.295	
16,800.00	7,618.00	7,838.28	7,680.62	139.53	34.00	90.98	-4,900.72	1,018.69	4,487.64	4,348.66	138.98	32.290	SF
16,900.00	7,618.00	7,835.94	7,678.28	140.55	33.99	90.95	-4,900.77	1,018.65	4,497.47	4,358.25	139.22	32.305	
17,000.00	7,618.00	7,833.62	7,675.96	141.60	33.99	90.92	-4,900.82	1,018.60	4,509.50	4,370.07	139.44	32.341	
17,100.00	7,618.00	7,831.31	7,673.65	142.67	33.98	90.89	-4,900.86	1,018.56	4,523.71	4,384.07	139.64	32.396	
17,200.00	7,618.00	7,829.01	7,671.35	143.77	33.97	90.86	-4,900.91	1,018.51	4,540.08	4,400.26	139.82	32.471	
17,300.00	7,618.00	7,826.72	7,669.06	144.88	33.97	90.83	-4,900.96	1,018.47	4,558.58	4,418.60	139.98	32.565	
17,400.00	7,618.00	7,824.44	7,666.79	146.02	33.96	90.80	-4,901.00	1,018.43	4,579.19	4,439.06	140.13	32.678	
17,500.00	7,618.00	7,822.18	7,664.52	147.19	33.96	90.78	-4,901.05	1,018.39	4,601.88	4,461.63	140.26	32.811	
17,600.00	7,618.00	7,819.92	7,662.27	148.37	33.95	90.75	-4,901.09	1,018.35	4,626.63	4,486.26	140.37	32.961	
17,700.00	7,618.00	7,817.68	7,660.03	149.57	33.94	90.72	-4,901.14	1,018.30	4,653.38	4,512.93	140.46	33.131	
17,800.00	7,618.00	7,815.45	7,657.80	150.79	33.94	90.69	-4,901.18	1,018.26	4,682.12	4,541.59	140.53	33.318	
17,900.00	7,618.00	7,813.23	7,655.58	152.03	33.93	90.66	-4,901.23	1,018.22	4,712.81	4,572.22	140.59	33.522	
18,000.00	7,618.00	7,811.02	7,653.37	153.29	33.92	90.63	-4,901.27	1,018.18	4,745.40	4,604.77	140.63	33.744	
18,100.00	7,618.00	7,808.82	7,651.18	154.57	33.92	90.60	-4,901.32	1,018.14	4,779.86	4,639.21	140.66	33.983	
18,200.00	7,618.00	7,807.62	7,649.97	155.86	33.92	90.59	-4,901.33	1,018.13	4,816.16	4,675.48	140.68	34.236	
18,300.00	7,618.00	7,805.23	7,647.58	157.17	33.91	90.56	-4,901.38	1,018.08	4,854.24	4,713.56	140.67	34.507	
18,400.00	7,618.00	7,802.88	7,645.23	158.49	33.90	90.53	-4,901.43	1,018.04	4,894.06	4,753.41	140.66	34.795	
18,500.00	7,618.00	7,800.56	7,642.92	159.82	33.90	90.50	-4,901.48	1,018.00	4,935.60	4,794.97	140.63	35.097	
18,600.00	7,618.00	7,798.29	7,640.64	161.17	33.89	90.47	-4,901.52	1,017.95	4,978.79	4,838.20	140.59	35.414	
18,700.00	7,618.00	7,796.05	7,638.40	162.54	33.88	90.44	-4,901.57	1,017.91	5,023.60	4,883.06	140.54	35.746	
18,800.00	7,618.00	7,793.84	7,636.20	163.91	33.88	90.41	-4,901.61	1,017.87	5,069.99	4,929.51	140.48	36.091	
18,900.00	7,618.00	7,791.67	7,634.03	165.30	33.87	90.38	-4,901.65	1,017.84	5,117.91	4,977.50	140.41	36.450	
19,000.00	7,618.00	7,789.53	7,631.89	166.70	33.87	90.36	-4,901.69	1,017.80	5,167.32	5,026.99	140.33	36.822	
19,100.00	7,618.00	7,787.43	7,629.79	168.10	33.86	90.33	-4,901.74	1,017.76	5,218.17	5,077.93	140.25	37.207	
19,200.00	7,618.00	7,785.36	7,627.72	169.52	33.85	90.30	-4,901.77	1,017.73	5,270.44	5,130.28	140.15	37.604	
19,300.00	7,618.00	7,783.31	7,625.68	170.95	33.85	90.28	-4,901.81	1,017.69	5,324.07	5,184.01	140.06	38.014	

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

Survey Program: 92-MWD OWSG

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
19,400.00	7,618.00	7,781.30	7,623.67	172.39	33.84	90.25	-4,901.85	1,017.66	5,379.02	5,239.07	139.95	38.435	
19,500.00	7,618.00	7,779.32	7,621.69	173.84	33.84	90.23	-4,901.89	1,017.62	5,435.26	5,295.41	139.84	38.867	
19,600.00	7,618.00	7,777.37	7,619.74	175.30	33.83	90.20	-4,901.92	1,017.59	5,492.74	5,353.01	139.73	39.309	
19,700.00	7,618.00	7,775.45	7,617.81	176.76	33.83	90.18	-4,901.96	1,017.56	5,551.42	5,411.81	139.61	39.763	
19,800.00	7,618.00	7,773.56	7,615.92	178.24	33.82	90.15	-4,901.99	1,017.53	5,611.28	5,471.79	139.49	40.226	
19,896.19	7,618.00	7,771.76	7,614.12	179.66	33.82	90.13	-4,902.03	1,017.50	5,669.92	5,530.54	139.37	40.681	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	135.79	-2,139.01	2,081.16	2,984.78				
100.00	100.00	53.31	53.31	0.13	0.09	135.78	-2,138.95	2,081.21	2,984.38	2,984.16	0.22	N/A	
200.00	200.00	159.55	159.55	0.49	0.37	135.78	-2,138.54	2,081.44	2,984.26	2,983.40	0.86	3,451.216	
300.00	299.98	258.82	258.82	0.85	0.72	66.50	-2,138.22	2,081.34	2,983.26	2,981.69	1.57	1,903.476	
400.00	399.84	354.13	354.12	1.21	1.05	66.64	-2,138.32	2,081.05	2,981.04	2,978.79	2.26	1,321.844	
500.00	499.45	454.14	454.14	1.58	1.40	66.86	-2,138.53	2,080.75	2,977.53	2,974.56	2.97	1,001.423	
600.00	598.70	554.94	554.93	1.97	1.75	67.19	-2,138.92	2,080.16	2,972.61	2,968.90	3.71	800.346	
700.00	697.47	655.43	655.42	2.38	2.11	67.60	-2,139.34	2,079.48	2,966.38	2,961.90	4.48	662.503	
800.00	795.62	762.53	762.52	2.83	2.49	68.13	-2,139.83	2,078.48	2,958.76	2,953.46	5.29	558.998	
900.00	893.06	863.06	863.04	3.31	2.85	68.73	-2,140.27	2,077.10	2,949.67	2,943.55	6.12	482.102	
1,000.00	989.64	949.49	949.46	3.83	3.16	69.35	-2,140.77	2,075.90	2,939.63	2,932.70	6.93	424.095	
1,100.00	1,085.27	1,034.58	1,034.53	4.40	3.47	70.03	-2,141.62	2,074.92	2,929.04	2,921.25	7.78	376.316	
1,200.00	1,179.82	1,131.33	1,131.27	5.02	3.81	70.86	-2,142.74	2,073.81	2,917.70	2,908.98	8.73	334.362	
1,300.00	1,273.17	1,233.40	1,233.33	5.70	4.18	71.82	-2,143.73	2,072.36	2,905.32	2,895.58	9.74	298.206	
1,400.00	1,365.21	1,324.00	1,323.91	6.43	4.50	72.77	-2,144.67	2,070.88	2,892.24	2,881.46	10.78	268.357	
1,500.00	1,455.84	1,413.53	1,413.42	7.23	4.82	73.79	-2,145.67	2,069.35	2,878.73	2,866.85	11.87	242.478	
1,600.00	1,544.94	1,504.49	1,504.36	8.09	5.15	74.90	-2,146.68	2,067.74	2,864.86	2,851.82	13.04	219.712	
1,700.00	1,632.39	1,588.63	1,588.48	9.01	5.45	76.00	-2,147.64	2,066.20	2,850.85	2,836.59	14.25	200.015	
1,800.00	1,718.11	1,671.98	1,671.81	10.00	5.75	77.16	-2,148.64	2,064.69	2,836.93	2,821.39	15.54	182.575	
1,900.00	1,801.97	1,755.94	1,755.76	11.07	6.06	78.37	-2,149.62	2,063.24	2,823.24	2,806.33	16.90	167.031	
2,000.00	1,883.88	1,842.32	1,842.12	12.20	6.37	79.67	-2,150.52	2,061.73	2,809.87	2,791.52	18.35	153.097	
2,100.00	1,963.74	1,928.99	1,928.77	13.41	6.68	81.01	-2,151.19	2,060.13	2,796.90	2,777.01	19.89	140.652	
2,200.00	2,041.45	2,011.35	2,011.11	14.69	6.98	82.34	-2,151.61	2,058.58	2,784.57	2,763.09	21.48	129.625	
2,300.00	2,116.92	2,087.21	2,086.96	16.05	7.25	83.62	-2,151.89	2,057.15	2,773.18	2,750.04	23.13	119.871	
2,357.48	2,159.25	2,131.23	2,130.97	16.86	7.41	84.37	-2,152.00	2,056.34	2,767.15	2,743.03	24.12	114.722	
2,400.00	2,190.27	2,163.90	2,163.64	17.47	7.52	84.84	-2,152.04	2,055.76	2,762.99	2,738.13	24.86	111.139	
2,500.00	2,263.22	2,242.41	2,242.13	18.92	7.80	85.97	-2,151.96	2,054.44	2,754.32	2,727.70	26.62	103.471	
2,600.00	2,336.18	2,318.33	2,318.05	20.37	8.07	87.07	-2,151.65	2,053.21	2,747.18	2,718.81	28.38	96.807	
2,700.00	2,409.14	2,383.87	2,383.57	21.84	8.31	88.02	-2,151.41	2,052.23	2,741.86	2,711.76	30.11	91.076	
2,800.00	2,482.09	2,451.81	2,451.51	23.31	8.55	89.00	-2,151.28	2,051.28	2,738.43	2,706.59	31.84	86.002	
2,900.00	2,555.05	2,529.74	2,529.43	24.78	8.83	90.13	-2,151.22	2,050.14	2,736.81	2,703.20	33.61	81.430	
2,987.32	2,618.75	2,616.70	2,616.37	26.08	9.14	91.40	-2,150.68	2,048.48	2,736.41	2,701.20	35.21	77.711	CC
3,000.00	2,628.01	2,621.95	2,621.62	26.27	9.16	91.47	-2,150.64	2,048.38	2,736.45	2,701.03	35.42	77.259	
3,100.00	2,700.96	2,696.33	2,695.98	27.75	9.42	92.56	-2,149.97	2,046.79	2,737.63	2,700.47	37.16	73.681	ES
3,200.00	2,773.92	2,807.44	2,807.04	29.24	9.81	94.17	-2,148.15	2,044.26	2,740.05	2,701.05	39.00	70.260	
3,300.00	2,846.88	2,874.63	2,874.20	30.73	10.05	95.15	-2,146.68	2,042.54	2,743.79	2,703.11	40.68	67.451	
3,400.00	2,919.83	2,939.02	2,938.56	32.23	10.28	96.09	-2,145.39	2,040.77	2,749.38	2,707.05	42.33	64.953	
3,500.00	2,992.79	3,000.81	3,000.31	33.72	10.50	96.98	-2,144.32	2,039.31	2,756.98	2,713.03	43.95	62.733	
3,600.00	3,065.75	3,073.78	3,073.26	35.22	10.75	98.03	-2,143.11	2,037.92	2,766.42	2,720.84	45.58	60.695	
3,700.00	3,138.71	3,140.30	3,139.76	36.72	10.99	98.98	-2,141.98	2,036.92	2,777.58	2,730.42	47.16	58.895	
3,800.00	3,211.66	3,202.93	3,202.38	38.22	11.21	99.87	-2,141.12	2,036.05	2,790.63	2,741.93	48.70	57.301	
3,900.00	3,284.62	3,266.03	3,265.48	39.72	11.43	100.76	-2,140.45	2,035.30	2,805.57	2,755.36	50.21	55.874	
4,000.00	3,357.58	3,330.24	3,329.69	41.22	11.66	101.65	-2,139.95	2,034.71	2,822.34	2,770.65	51.70	54.595	
4,100.00	3,430.53	3,395.73	3,395.17	42.73	11.89	102.56	-2,139.60	2,034.32	2,840.87	2,787.72	53.15	53.448	
4,200.00	3,503.49	3,466.47	3,465.91	44.23	12.14	103.53	-2,139.34	2,034.00	2,861.05	2,806.45	54.60	52.403	
4,300.00	3,576.45	3,538.20	3,537.64	45.74	12.39	104.51	-2,139.11	2,033.67	2,882.76	2,826.75	56.01	51.466	
4,400.00	3,649.40	3,610.68	3,610.12	47.25	12.65	105.49	-2,138.89	2,033.34	2,905.94	2,848.54	57.40	50.628	
4,500.00	3,722.36	3,684.10	3,683.53	48.75	12.91	106.47	-2,138.66	2,033.03	2,930.54	2,871.79	58.75	49.879	
4,600.00	3,795.32	3,757.08	3,756.51	50.26	13.17	107.44	-2,138.43	2,032.76	2,956.51	2,896.44	60.07	49.216	
4,700.00	3,868.27	3,828.85	3,828.28	51.77	13.43	108.38	-2,138.20	2,032.51	2,983.84	2,922.48	61.35	48.633	
4,800.00	3,941.23	3,899.05	3,898.49	53.28	13.67	109.29	-2,138.03	2,032.32	3,012.53	2,949.93	62.60	48.127	
4,900.00	4,014.19	3,970.10	3,969.53	54.79	13.93	110.20	-2,137.90	2,032.03	3,042.54	2,978.73	63.81	47.682	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,087.15	4,043.72	4,043.15	56.30	14.19	111.14	-2,137.76	2,031.50	3,073.82	3,008.82	65.00	47.290	
5,100.00	4,160.10	4,119.12	4,118.54	57.81	14.46	112.09	-2,137.53	2,030.79	3,106.25	3,040.09	66.17	46.947	
5,200.00	4,233.06	4,193.63	4,193.04	59.32	14.73	113.02	-2,137.21	2,029.81	3,139.81	3,072.51	67.29	46.658	
5,300.00	4,306.02	4,274.19	4,273.60	60.83	15.02	114.02	-2,136.68	2,028.55	3,174.40	3,105.99	68.42	46.397	
5,400.00	4,378.97	4,349.45	4,348.85	62.34	15.29	114.94	-2,136.03	2,027.36	3,209.97	3,140.48	69.49	46.195	
5,500.00	4,451.93	4,419.73	4,419.11	63.85	15.54	115.79	-2,135.39	2,026.18	3,246.60	3,176.10	70.51	46.047	
5,600.00	4,524.89	4,484.86	4,484.23	65.36	15.77	116.56	-2,134.87	2,024.96	3,284.41	3,212.94	71.47	45.954	
5,700.00	4,597.84	4,565.69	4,565.04	66.88	16.06	117.52	-2,134.18	2,023.18	3,323.26	3,250.78	72.48	45.851	
5,800.00	4,670.80	4,642.35	4,641.66	68.39	16.34	118.41	-2,133.21	2,021.22	3,362.88	3,289.44	73.44	45.791	
5,900.00	4,743.76	4,712.85	4,712.13	69.90	16.59	119.23	-2,132.29	2,019.37	3,403.46	3,329.12	74.35	45.779	
6,000.00	4,816.71	4,782.29	4,781.55	71.41	16.84	120.01	-2,131.43	2,017.58	3,445.02	3,369.80	75.22	45.798	
6,100.00	4,889.67	4,856.27	4,855.50	72.93	17.10	120.84	-2,130.54	2,015.71	3,487.49	3,411.39	76.10	45.829	
6,200.00	4,962.63	4,928.89	4,928.09	74.44	17.36	121.64	-2,129.62	2,013.96	3,530.76	3,453.82	76.94	45.887	
6,300.00	5,035.59	4,997.34	4,996.51	75.95	17.61	122.38	-2,128.81	2,012.33	3,574.91	3,497.16	77.75	45.978	
6,400.00	5,108.54	5,071.04	5,070.19	77.47	17.87	123.16	-2,127.96	2,010.62	3,619.88	3,541.32	78.57	46.075	
6,500.00	5,181.50	5,143.62	5,142.75	78.98	18.14	123.92	-2,127.11	2,008.98	3,665.59	3,586.24	79.35	46.193	
6,600.00	5,254.46	5,224.92	5,224.02	80.49	18.43	124.75	-2,126.13	2,007.17	3,712.02	3,631.85	80.17	46.303	
6,700.00	5,327.41	5,329.14	5,328.21	82.01	18.80	125.80	-2,124.27	2,005.39	3,758.60	3,677.53	81.07	46.360	
6,800.00	5,400.37	5,409.81	5,408.85	83.52	19.08	126.58	-2,122.60	2,004.37	3,805.56	3,723.71	81.85	46.492	
6,900.00	5,473.33	5,491.02	5,490.04	85.04	19.37	127.36	-2,120.85	2,003.64	3,853.02	3,770.40	82.62	46.633	
7,000.00	5,546.28	5,566.39	5,565.40	86.55	19.63	128.06	-2,119.23	2,003.24	3,900.99	3,817.64	83.35	46.801	
7,100.00	5,619.24	5,638.87	5,637.86	88.06	19.88	128.72	-2,117.76	2,003.06	3,949.54	3,865.48	84.06	46.986	
7,200.00	5,692.20	5,709.21	5,708.18	89.58	20.13	129.35	-2,116.41	2,002.94	3,998.70	3,913.96	84.74	47.188	
7,300.00	5,765.15	5,778.26	5,777.23	91.09	20.37	129.96	-2,115.15	2,002.83	4,048.47	3,963.06	85.40	47.403	
7,400.00	5,838.11	5,850.23	5,849.18	92.61	20.62	130.58	-2,113.91	2,002.72	4,098.82	4,012.75	86.07	47.620	
7,500.00	5,911.07	5,922.97	5,921.91	94.12	20.87	131.19	-2,112.67	2,002.63	4,149.68	4,062.95	86.74	47.843	
7,600.00	5,984.03	5,994.40	5,993.33	95.64	21.12	131.79	-2,111.47	2,002.53	4,201.06	4,113.67	87.38	48.077	
7,700.00	6,056.98	6,062.71	6,061.63	97.15	21.36	132.35	-2,110.39	2,002.43	4,252.96	4,164.95	88.00	48.327	
7,800.00	6,129.94	6,135.71	6,134.63	98.67	21.61	132.93	-2,109.32	2,002.34	4,305.38	4,216.73	88.64	48.570	
7,900.00	6,202.90	6,215.15	6,214.06	100.18	21.89	133.56	-2,108.04	2,002.20	4,358.16	4,268.85	89.31	48.800	
8,000.00	6,275.85	6,296.26	6,295.15	101.70	22.17	134.19	-2,106.56	2,002.03	4,411.24	4,321.27	89.97	49.029	
8,100.00	6,348.81	6,356.59	6,355.47	103.21	22.39	134.65	-2,105.49	2,001.91	4,464.77	4,374.25	90.52	49.324	
8,200.00	6,421.77	6,418.86	6,417.74	104.73	22.60	135.11	-2,104.66	2,001.84	4,518.90	4,427.83	91.07	49.619	
8,300.00	6,494.72	6,489.32	6,488.19	106.24	22.85	135.63	-2,103.81	2,001.75	4,573.50	4,481.84	91.66	49.894	
8,400.00	6,567.68	6,560.64	6,559.51	107.76	23.10	136.14	-2,102.97	2,001.64	4,628.50	4,536.24	92.26	50.170	
8,500.00	6,640.64	6,630.54	6,629.40	109.27	23.35	136.64	-2,102.19	2,001.51	4,683.88	4,591.04	92.84	50.453	
8,600.00	6,713.59	6,698.52	6,697.38	110.79	23.59	137.11	-2,101.50	2,001.40	4,739.66	4,646.26	93.40	50.745	
8,700.00	6,786.55	6,777.97	6,776.83	112.30	23.86	137.65	-2,100.85	2,001.48	4,795.76	4,701.73	94.03	51.004	
8,800.00	6,859.51	6,875.71	6,874.56	113.82	24.19	138.29	-2,100.05	2,002.06	4,851.97	4,757.21	94.76	51.204	
8,900.00	6,932.46	6,958.71	6,957.55	115.33	24.48	138.82	-2,099.07	2,002.74	4,908.13	4,812.74	95.40	51.449	
9,000.00	7,005.42	7,037.17	7,036.00	116.85	24.75	139.32	-2,098.09	2,003.43	4,964.53	4,868.52	96.01	51.708	
9,104.89	7,081.95	7,120.88	7,119.70	118.44	25.03	139.83	-2,096.97	2,004.24	5,023.87	4,927.21	96.66	51.975	
9,150.00	7,115.15	7,155.70	7,154.52	119.12	25.15	133.68	-2,096.48	2,004.59	5,048.23	4,951.30	96.93	52.080	
9,200.00	7,152.46	7,194.78	7,193.59	119.86	25.29	126.91	-2,095.92	2,004.98	5,072.31	4,975.06	97.24	52.161	
9,250.00	7,190.04	7,239.58	7,238.39	120.57	25.44	120.34	-2,095.26	2,005.45	5,093.16	4,995.56	97.59	52.188	
9,300.00	7,227.59	7,285.18	7,283.98	121.25	25.60	114.04	-2,094.52	2,005.97	5,110.62	5,012.68	97.95	52.178	
9,350.00	7,264.83	7,339.16	7,337.95	121.89	25.78	108.19	-2,093.56	2,006.65	5,124.59	5,026.25	98.34	52.109	
9,400.00	7,301.48	7,396.47	7,395.23	122.48	25.98	102.88	-2,092.35	2,007.50	5,134.94	5,036.19	98.75	51.999	
9,450.00	7,337.26	7,425.62	7,424.37	123.01	26.08	97.93	-2,091.70	2,007.95	5,141.72	5,042.73	98.98	51.946	
9,500.00	7,371.90	7,452.02	7,450.76	123.49	26.17	93.59	-2,091.15	2,008.34	5,145.02	5,045.84	99.18	51.875	
9,550.00	7,405.13	7,477.27	7,476.01	123.91	26.26	89.88	-2,090.65	2,008.68	5,144.84	5,045.49	99.35	51.784	
9,600.00	7,436.70	7,501.38	7,500.11	124.27	26.34	86.81	-2,090.21	2,008.99	5,141.22	5,041.73	99.49	51.675	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	7,526.96	7,525.68	124.57	26.43	84.38	-2,089.75	2,009.30	5,134.19	5,034.58	99.61	51.541	
9,700.00	7,493.91	7,550.57	7,549.29	124.81	26.51	82.55	-2,089.33	2,009.55	5,123.81	5,024.11	99.70	51.393	
9,750.00	7,519.11	7,572.04	7,570.75	125.00	26.58	81.29	-2,088.94	2,009.75	5,110.17	5,010.43	99.74	51.234	
9,800.00	7,541.79	7,591.22	7,589.93	125.12	26.65	80.59	-2,088.59	2,009.92	5,093.38	4,993.64	99.74	51.065	
9,850.00	7,561.77	7,608.61	7,607.32	125.20	26.71	80.43	-2,088.28	2,010.05	5,073.58	4,973.87	99.71	50.883	
9,900.00	7,578.90	7,624.01	7,622.72	125.23	26.76	80.84	-2,088.00	2,010.17	5,050.89	4,951.25	99.64	50.691	
9,950.00	7,593.04	7,636.59	7,635.29	125.22	26.81	81.79	-2,087.78	2,010.27	5,025.49	4,925.95	99.53	50.490	
10,000.00	7,604.09	7,646.25	7,644.95	125.17	26.84	83.32	-2,087.62	2,010.35	4,997.54	4,898.15	99.39	50.280	
10,050.00	7,611.97	7,652.91	7,651.61	125.08	26.86	85.46	-2,087.50	2,010.40	4,967.24	4,868.02	99.22	50.062	
10,100.00	7,616.61	7,656.51	7,655.21	124.97	26.88	88.24	-2,087.44	2,010.43	4,934.79	4,835.77	99.02	49.835	
10,145.95	7,618.00	7,657.09	7,655.78	124.84	26.88	91.41	-2,087.43	2,010.43	4,903.27	4,804.44	98.82	49.617	
10,200.00	7,618.00	7,656.22	7,654.92	124.69	26.88	91.39	-2,087.45	2,010.42	4,865.44	4,766.86	98.58	49.358	
10,300.00	7,618.00	7,654.61	7,653.31	124.41	26.87	91.37	-2,087.47	2,010.41	4,796.27	4,698.16	98.11	48.886	
10,400.00	7,618.00	7,652.99	7,651.69	124.14	26.86	91.34	-2,087.50	2,010.40	4,728.20	4,630.56	97.64	48.425	
10,500.00	7,618.00	7,651.37	7,650.07	123.88	26.86	91.32	-2,087.53	2,010.39	4,661.28	4,564.12	97.16	47.974	
10,600.00	7,618.00	7,649.75	7,648.45	123.63	26.85	91.29	-2,087.56	2,010.37	4,595.57	4,498.89	96.68	47.532	
10,700.00	7,618.00	7,648.11	7,646.81	123.40	26.85	91.26	-2,087.58	2,010.36	4,531.11	4,434.91	96.20	47.102	
10,800.00	7,618.00	7,646.47	7,645.17	123.18	26.84	91.23	-2,087.61	2,010.35	4,467.95	4,372.24	95.71	46.681	
10,900.00	7,618.00	7,644.83	7,643.53	122.96	26.84	91.21	-2,087.64	2,010.34	4,406.16	4,310.94	95.23	46.271	
11,000.00	7,618.00	7,643.17	7,641.87	122.76	26.83	91.18	-2,087.67	2,010.32	4,345.80	4,251.06	94.74	45.870	
11,100.00	7,618.00	7,641.52	7,640.22	122.57	26.82	91.15	-2,087.70	2,010.31	4,286.91	4,192.65	94.26	45.480	
11,200.00	7,618.00	7,639.85	7,638.55	122.39	26.82	91.13	-2,087.73	2,010.30	4,229.57	4,135.79	93.78	45.100	
11,300.00	7,618.00	7,638.18	7,636.88	122.23	26.81	91.10	-2,087.76	2,010.28	4,173.84	4,080.52	93.31	44.729	
11,400.00	7,618.00	7,636.50	7,635.20	122.07	26.81	91.07	-2,087.78	2,010.27	4,119.78	4,026.92	92.86	44.367	
11,500.00	7,618.00	7,634.82	7,633.52	121.93	26.80	91.04	-2,087.81	2,010.26	4,067.45	3,975.04	92.41	44.014	
11,600.00	7,618.00	7,633.13	7,631.83	121.79	26.80	91.02	-2,087.84	2,010.24	4,016.94	3,924.96	91.99	43.669	
11,700.00	7,618.00	7,631.43	7,630.13	121.67	26.79	90.99	-2,087.87	2,010.23	3,968.30	3,876.73	91.58	43.332	
11,800.00	7,618.00	7,629.72	7,628.43	121.56	26.78	90.96	-2,087.90	2,010.22	3,921.61	3,830.42	91.20	43.002	
11,900.00	7,618.00	7,628.01	7,626.72	121.46	26.78	90.93	-2,087.93	2,010.20	3,876.94	3,786.10	90.84	42.678	
12,000.00	7,618.00	7,626.30	7,625.00	121.38	26.77	90.90	-2,087.96	2,010.19	3,834.35	3,743.83	90.52	42.359	
12,100.00	7,618.00	7,624.57	7,623.28	121.30	26.77	90.88	-2,087.99	2,010.18	3,793.93	3,703.69	90.23	42.045	
12,200.00	7,618.00	7,622.84	7,621.55	121.24	26.76	90.85	-2,088.02	2,010.16	3,755.72	3,665.74	89.99	41.735	
12,300.00	7,618.00	7,621.10	7,619.81	121.19	26.75	90.82	-2,088.06	2,010.15	3,719.82	3,630.03	89.79	41.429	
12,400.00	7,618.00	7,619.36	7,618.07	121.16	26.75	90.79	-2,088.09	2,010.14	3,686.28	3,596.64	89.64	41.125	
12,500.00	7,618.00	7,617.61	7,616.31	121.14	26.74	90.76	-2,088.12	2,010.12	3,655.16	3,565.63	89.54	40.823	
12,600.00	7,618.00	7,615.85	7,614.56	121.13	26.74	90.73	-2,088.15	2,010.11	3,626.54	3,537.05	89.49	40.523	
12,700.00	7,618.00	7,614.09	7,612.79	121.13	26.73	90.70	-2,088.18	2,010.10	3,600.46	3,510.96	89.51	40.226	
12,800.00	7,618.00	7,612.31	7,611.02	121.15	26.72	90.67	-2,088.21	2,010.08	3,577.00	3,487.41	89.58	39.930	
12,900.00	7,618.00	7,610.54	7,609.24	121.18	26.72	90.64	-2,088.24	2,010.07	3,556.18	3,466.46	89.72	39.636	
13,000.00	7,618.00	7,608.75	7,607.46	121.23	26.71	90.62	-2,088.28	2,010.06	3,538.08	3,448.15	89.92	39.346	
13,100.00	7,618.00	7,606.96	7,605.66	121.29	26.70	90.59	-2,088.31	2,010.04	3,522.72	3,432.53	90.19	39.059	
13,200.00	7,618.00	7,605.16	7,603.86	121.37	26.70	90.56	-2,088.34	2,010.03	3,510.14	3,419.62	90.52	38.777	
13,300.00	7,618.00	7,603.35	7,602.06	121.46	26.69	90.53	-2,088.37	2,010.01	3,500.37	3,409.45	90.92	38.501	
13,400.00	7,618.00	7,601.53	7,600.24	121.57	26.69	90.50	-2,088.41	2,010.00	3,493.44	3,402.07	91.37	38.234	
13,500.00	7,618.00	7,599.75	7,598.46	121.70	26.68	90.47	-2,088.44	2,009.99	3,489.36	3,397.47	91.88	37.976	
13,592.49	7,618.00	7,598.31	7,597.02	121.83	26.67	90.44	-2,088.46	2,009.97	3,488.13	3,395.72	92.41	37.746	
13,600.00	7,618.00	7,598.20	7,596.91	121.84	26.67	90.44	-2,088.47	2,009.97	3,488.14	3,395.68	92.45	37.728	
13,700.00	7,618.00	7,596.64	7,595.35	122.01	26.67	90.42	-2,088.49	2,009.96	3,489.79	3,396.71	93.08	37.494	
13,800.00	7,618.00	7,595.08	7,593.79	122.19	26.66	90.39	-2,088.52	2,009.95	3,494.30	3,400.55	93.74	37.275	
13,900.00	7,618.00	7,593.53	7,592.24	122.39	26.66	90.37	-2,088.55	2,009.94	3,501.66	3,407.20	94.45	37.073	
14,000.00	7,618.00	7,591.97	7,590.68	122.62	26.65	90.34	-2,088.58	2,009.92	3,511.85	3,416.65	95.20	36.889	
14,100.00	7,618.00	7,590.42	7,589.13	122.86	26.65	90.31	-2,088.61	2,009.91	3,524.85	3,428.87	95.98	36.727	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,200.00	7,618.00	7,588.87	7,587.58	123.12	26.64	90.29	-2,088.64	2,009.90	3,540.63	3,443.85	96.78	36.586	
14,300.00	7,618.00	7,587.31	7,586.02	123.41	26.64	90.26	-2,088.66	2,009.89	3,559.14	3,461.55	97.60	36.468	
14,400.00	7,618.00	7,585.76	7,584.47	123.72	26.63	90.24	-2,088.69	2,009.87	3,580.36	3,481.92	98.43	36.374	
14,500.00	7,618.00	7,584.21	7,582.92	124.06	26.63	90.21	-2,088.72	2,009.86	3,604.22	3,504.94	99.28	36.305	
14,600.00	7,618.00	7,582.66	7,581.37	124.42	26.62	90.19	-2,088.75	2,009.85	3,630.68	3,530.56	100.13	36.261	
14,700.00	7,618.00	7,581.11	7,579.82	124.80	26.62	90.16	-2,088.78	2,009.83	3,659.69	3,558.71	100.98	36.243	SF
14,800.00	7,618.00	7,579.56	7,578.27	125.21	26.61	90.14	-2,088.80	2,009.82	3,691.17	3,589.35	101.82	36.252	
14,900.00	7,618.00	7,578.01	7,576.72	125.65	26.60	90.11	-2,088.83	2,009.81	3,725.07	3,622.41	102.66	36.286	
15,000.00	7,618.00	7,576.46	7,575.18	126.11	26.60	90.09	-2,088.86	2,009.79	3,761.33	3,657.84	103.48	36.347	
15,100.00	7,618.00	7,574.91	7,573.63	126.61	26.59	90.06	-2,088.89	2,009.78	3,799.87	3,695.57	104.30	36.433	
15,200.00	7,618.00	7,573.37	7,572.08	127.13	26.59	90.03	-2,088.92	2,009.76	3,840.63	3,735.53	105.09	36.545	
15,300.00	7,618.00	7,571.82	7,570.54	127.68	26.58	90.01	-2,088.94	2,009.75	3,883.53	3,777.66	105.87	36.681	
15,400.00	7,618.00	7,570.28	7,568.99	128.26	26.58	89.98	-2,088.97	2,009.74	3,928.52	3,821.89	106.63	36.843	
15,500.00	7,618.00	7,568.73	7,567.45	128.87	26.57	89.96	-2,089.00	2,009.72	3,975.50	3,868.14	107.37	37.027	
15,600.00	7,618.00	7,567.19	7,565.90	129.51	26.57	89.93	-2,089.03	2,009.71	4,024.43	3,916.35	108.08	37.236	
15,700.00	7,618.00	7,565.64	7,564.36	130.18	26.56	89.91	-2,089.06	2,009.69	4,075.22	3,966.45	108.77	37.466	
15,800.00	7,618.00	7,564.10	7,562.82	130.88	26.56	89.88	-2,089.08	2,009.68	4,127.81	4,018.37	109.44	37.718	
15,900.00	7,618.00	7,562.56	7,561.28	131.61	26.55	89.86	-2,089.11	2,009.66	4,182.13	4,072.05	110.08	37.992	
16,000.00	7,618.00	7,561.02	7,559.73	132.37	26.55	89.83	-2,089.14	2,009.65	4,238.11	4,127.41	110.70	38.285	
16,100.00	7,618.00	7,559.48	7,558.19	133.17	26.54	89.81	-2,089.17	2,009.64	4,295.68	4,184.39	111.29	38.598	
16,200.00	7,618.00	7,557.94	7,556.65	133.99	26.54	89.78	-2,089.19	2,009.62	4,354.80	4,242.94	111.86	38.930	
16,300.00	7,618.00	7,556.40	7,555.11	134.84	26.53	89.76	-2,089.22	2,009.61	4,415.38	4,302.98	112.41	39.280	
16,400.00	7,618.00	7,554.86	7,553.58	135.72	26.52	89.73	-2,089.25	2,009.59	4,477.38	4,364.45	112.93	39.647	
16,500.00	7,618.00	7,553.32	7,552.04	136.63	26.52	89.70	-2,089.28	2,009.57	4,540.74	4,427.31	113.43	40.030	
16,600.00	7,618.00	7,551.78	7,550.50	137.57	26.51	89.68	-2,089.31	2,009.56	4,605.39	4,491.48	113.91	40.430	
16,700.00	7,618.00	7,550.25	7,548.96	138.54	26.51	89.65	-2,089.33	2,009.54	4,671.29	4,556.92	114.37	40.844	
16,800.00	7,618.00	7,548.71	7,547.43	139.53	26.50	89.63	-2,089.36	2,009.53	4,738.39	4,623.58	114.80	41.273	
16,900.00	7,618.00	7,547.17	7,545.89	140.55	26.50	89.60	-2,089.39	2,009.51	4,806.62	4,691.40	115.22	41.716	
17,000.00	7,618.00	7,545.64	7,544.36	141.60	26.49	89.58	-2,089.42	2,009.50	4,875.96	4,760.34	115.62	42.173	
17,100.00	7,618.00	7,544.10	7,542.82	142.67	26.49	89.55	-2,089.44	2,009.48	4,946.34	4,830.34	116.00	42.642	
17,200.00	7,618.00	7,542.57	7,541.29	143.77	26.48	89.53	-2,089.47	2,009.47	5,017.72	4,901.37	116.36	43.123	
17,300.00	7,618.00	7,541.04	7,539.76	144.88	26.48	89.50	-2,089.50	2,009.45	5,090.07	4,973.37	116.70	43.616	
17,400.00	7,618.00	7,539.51	7,538.23	146.02	26.47	89.48	-2,089.53	2,009.43	5,163.35	5,046.32	117.03	44.119	
17,500.00	7,618.00	7,537.97	7,536.70	147.19	26.47	89.45	-2,089.55	2,009.42	5,237.50	5,120.16	117.34	44.634	
17,600.00	7,618.00	7,536.44	7,535.16	148.37	26.46	89.43	-2,089.58	2,009.40	5,312.51	5,194.86	117.64	45.158	
17,700.00	7,618.00	7,534.91	7,533.63	149.57	26.46	89.40	-2,089.61	2,009.38	5,388.32	5,270.39	117.93	45.693	
17,800.00	7,618.00	7,533.38	7,532.11	150.79	26.45	89.38	-2,089.64	2,009.37	5,464.91	5,346.72	118.20	46.236	
17,900.00	7,618.00	7,531.85	7,530.58	152.03	26.44	89.35	-2,089.66	2,009.35	5,542.25	5,423.80	118.45	46.788	
18,000.00	7,618.00	7,530.33	7,529.05	153.29	26.44	89.33	-2,089.69	2,009.33	5,620.30	5,501.60	118.70	47.349	
18,100.00	7,618.00	7,528.80	7,527.52	154.57	26.43	89.30	-2,089.72	2,009.32	5,699.04	5,580.10	118.93	47.918	
18,200.00	7,618.00	7,527.27	7,525.99	155.86	26.43	89.28	-2,089.75	2,009.30	5,778.43	5,659.28	119.16	48.494	
18,300.00	7,618.00	7,525.74	7,524.47	157.17	26.42	89.25	-2,089.77	2,009.28	5,858.46	5,739.09	119.37	49.078	
18,400.00	7,618.00	7,524.22	7,522.94	158.49	26.42	89.23	-2,089.80	2,009.27	5,939.09	5,819.51	119.57	49.669	
18,500.00	7,618.00	7,522.69	7,521.42	159.82	26.41	89.20	-2,089.83	2,009.25	6,020.30	5,900.53	119.77	50.267	
18,600.00	7,618.00	7,521.17	7,519.89	161.17	26.41	89.18	-2,089.86	2,009.23	6,102.07	5,982.11	119.95	50.871	
18,700.00	7,618.00	7,519.65	7,518.37	162.54	26.40	89.15	-2,089.88	2,009.21	6,184.37	6,064.24	120.13	51.481	
18,800.00	7,618.00	7,518.12	7,516.85	163.91	26.40	89.13	-2,089.91	2,009.19	6,267.19	6,146.89	120.30	52.097	
18,900.00	7,618.00	7,516.60	7,515.33	165.30	26.39	89.10	-2,089.94	2,009.18	6,350.50	6,230.04	120.46	52.719	
19,000.00	7,618.00	7,515.08	7,513.80	166.70	26.39	89.08	-2,089.96	2,009.16	6,434.29	6,313.68	120.61	53.346	
19,100.00	7,618.00	7,519.01	7,517.74	168.10	26.40	89.14	-2,089.90	2,009.21	6,518.53	6,397.74	120.79	53.967	
19,200.00	7,618.00	7,516.98	7,515.71	169.52	26.39	89.11	-2,089.94	2,009.18	6,603.21	6,482.29	120.92	54.606	
19,300.00	7,618.00	7,514.93	7,513.66	170.95	26.39	89.07	-2,089.97	2,009.16	6,688.32	6,567.26	121.06	55.249	

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

Offset Design SEC 23-T1N-R68W - ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 100-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			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
19,400.00	7,618.00	7,512.86	7,511.58	172.39	26.38	89.04	-2,090.01	2,009.13	6,773.83	6,652.65	121.18	55.897	
19,500.00	7,618.00	7,510.75	7,509.48	173.84	26.37	89.01	-2,090.05	2,009.11	6,859.74	6,738.43	121.31	56.549	
19,600.00	7,618.00	7,508.63	7,507.35	175.30	26.36	88.97	-2,090.08	2,009.08	6,946.02	6,824.60	121.42	57.206	
19,700.00	7,618.00	7,506.47	7,505.20	176.76	26.36	88.94	-2,090.12	2,009.06	7,032.66	6,911.13	121.53	57.866	
19,800.00	7,618.00	7,504.29	7,503.02	178.24	26.35	88.90	-2,090.16	2,009.03	7,119.66	6,998.02	121.64	58.531	
19,896.19	7,618.00	7,502.16	7,500.89	179.66	26.34	88.87	-2,090.20	2,009.00	7,203.65	7,081.91	121.74	59.173	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	69.52	765.09	2,048.72	2,187.28				
100.00	100.00	82.22	82.22	0.13	0.13	69.52	765.06	2,048.28	2,186.61	2,186.35	0.27	8,244.244	
200.00	200.00	230.14	230.10	0.49	0.64	69.47	765.70	2,045.03	2,184.80	2,183.67	1.13	1,929.228	
300.00	299.98	473.45	472.54	0.85	1.55	-0.13	770.34	2,026.07	2,176.24	2,173.83	2.40	904.995	
400.00	399.84	619.59	617.11	1.21	2.16	-0.51	777.65	2,006.07	2,159.92	2,156.59	3.34	647.006	
500.00	499.45	724.17	719.90	1.58	2.63	-0.92	786.68	1,989.07	2,139.21	2,135.09	4.13	518.535	
600.00	598.70	808.18	802.11	1.97	3.02	-1.33	796.21	1,974.68	2,115.33	2,110.48	4.85	436.320	
700.00	697.47	886.01	877.96	2.38	3.40	-1.78	807.13	1,961.11	2,088.87	2,083.31	5.56	375.415	
800.00	795.62	960.13	949.93	2.83	3.77	-2.28	819.26	1,948.19	2,060.07	2,053.78	6.28	327.853	
900.00	893.06	1,047.15	1,034.06	3.31	4.22	-2.96	835.56	1,933.06	2,029.01	2,021.92	7.09	286.157	
1,000.00	989.64	1,151.32	1,134.56	3.83	4.78	-3.83	855.22	1,913.98	1,994.18	1,986.18	8.01	249.114	
1,100.00	1,085.27	1,236.83	1,217.37	4.40	5.23	-4.57	870.27	1,898.93	1,956.57	1,947.74	8.83	221.530	
1,200.00	1,179.82	1,328.40	1,305.71	5.02	5.74	-5.47	887.66	1,882.16	1,916.00	1,906.29	9.71	197.287	
1,300.00	1,273.17	1,416.01	1,389.73	5.70	6.24	-6.47	905.81	1,865.25	1,872.47	1,861.87	10.60	176.636	
1,400.00	1,365.21	1,497.98	1,468.08	6.43	6.72	-7.54	923.62	1,849.07	1,826.30	1,814.82	11.48	159.021	
1,500.00	1,455.84	1,577.00	1,543.55	7.23	7.20	-8.69	941.10	1,833.43	1,777.67	1,765.30	12.37	143.681	
1,600.00	1,544.94	1,650.82	1,614.14	8.09	7.64	-9.87	957.28	1,819.13	1,726.80	1,713.56	13.25	130.359	
1,700.00	1,632.39	1,732.10	1,692.01	9.01	8.12	-11.28	974.72	1,803.73	1,673.67	1,659.49	14.18	118.066	
1,800.00	1,718.11	1,810.27	1,766.96	10.00	8.58	-12.81	991.24	1,788.92	1,618.11	1,603.00	15.11	107.100	
1,900.00	1,801.97	1,886.59	1,840.17	11.07	9.03	-14.49	1,007.26	1,774.47	1,560.35	1,544.29	16.06	97.167	
2,000.00	1,883.88	1,960.26	1,910.83	12.20	9.46	-16.34	1,022.69	1,760.43	1,500.46	1,483.43	17.03	88.122	
2,100.00	1,963.74	2,027.51	1,975.54	13.41	9.85	-18.26	1,036.21	1,748.08	1,438.78	1,420.79	18.00	79.947	
2,200.00	2,041.45	2,105.52	2,050.75	14.69	10.30	-20.70	1,051.36	1,733.96	1,375.26	1,356.19	19.07	72.125	
2,300.00	2,116.92	2,177.13	2,119.62	16.05	10.72	-23.37	1,065.40	1,720.31	1,309.76	1,289.57	20.18	64.890	
2,357.48	2,159.25	2,215.31	2,156.28	16.86	10.95	-25.01	1,073.03	1,712.80	1,271.44	1,250.58	20.86	60.965	
2,400.00	2,190.27	2,242.14	2,182.01	17.47	11.11	-25.92	1,078.44	1,707.44	1,243.05	1,221.68	21.37	58.180	
2,500.00	2,263.22	2,303.87	2,241.18	18.92	11.48	-28.12	1,090.95	1,695.09	1,177.31	1,154.67	22.64	52.007	
2,600.00	2,336.18	2,366.50	2,301.22	20.37	11.86	-30.52	1,103.61	1,682.58	1,113.22	1,089.18	24.04	46.303	
2,700.00	2,409.14	2,429.07	2,361.31	21.84	12.23	-33.09	1,115.99	1,670.27	1,051.01	1,025.42	25.59	41.071	
2,800.00	2,482.09	2,489.48	2,419.38	23.31	12.59	-35.74	1,127.85	1,658.58	991.14	963.85	27.28	36.327	
2,900.00	2,555.05	2,547.50	2,475.16	24.78	12.93	-38.45	1,139.34	1,647.51	934.14	905.00	29.14	32.058	
3,000.00	2,628.01	2,604.53	2,529.94	26.27	13.27	-41.30	1,151.00	1,636.71	880.74	849.56	31.17	28.253	
3,100.00	2,700.96	2,664.84	2,587.83	27.75	13.63	-44.50	1,163.59	1,625.45	831.50	798.08	33.42	24.879	
3,200.00	2,773.92	2,725.76	2,646.34	29.24	13.99	-47.90	1,176.39	1,614.33	787.04	751.20	35.84	21.959	
3,300.00	2,846.88	2,787.98	2,706.22	30.73	14.35	-51.52	1,189.40	1,603.54	748.07	709.68	38.39	19.484	
3,400.00	2,919.83	2,854.51	2,770.32	32.23	14.73	-55.55	1,203.20	1,592.27	715.19	674.12	41.07	17.415	
3,500.00	2,992.79	2,921.95	2,835.30	33.72	15.12	-59.82	1,217.01	1,580.60	689.04	645.29	43.75	15.750	
3,600.00	3,065.75	2,990.39	2,901.30	35.22	15.51	-64.27	1,230.63	1,568.73	670.32	623.99	46.33	14.468	
3,700.00	3,138.71	3,057.11	2,965.78	36.72	15.89	-68.68	1,243.60	1,557.53	659.72	611.07	48.65	13.560	
3,771.61	3,190.95	3,102.50	3,009.71	37.79	16.15	-71.69	1,252.33	1,550.11	657.38	607.30	50.08	13.127	CC
3,800.00	3,211.66	3,119.51	3,026.15	38.22	16.24	-72.82	1,255.63	1,547.24	657.75	607.17	50.58	13.005	ES
3,900.00	3,284.62	3,178.37	3,082.90	39.72	16.58	-76.76	1,267.22	1,536.84	665.09	613.03	52.06	12.775	SF
4,000.00	3,357.58	3,236.30	3,138.62	41.22	16.92	-80.60	1,278.95	1,526.12	681.65	628.52	53.14	12.829	
4,100.00	3,430.53	3,300.42	3,200.17	42.73	17.30	-84.76	1,292.19	1,513.99	706.74	652.75	53.98	13.092	
4,200.00	3,503.49	3,371.62	3,268.68	44.23	17.72	-89.20	1,306.30	1,500.72	738.63	683.93	54.70	13.503	
4,300.00	3,576.45	3,434.15	3,328.92	45.74	18.08	-92.93	1,318.54	1,489.25	776.75	721.68	55.07	14.106	
4,400.00	3,649.40	3,490.88	3,383.55	47.25	18.42	-96.16	1,329.78	1,478.83	820.54	765.35	55.20	14.865	
4,500.00	3,722.36	3,543.74	3,434.27	48.75	18.73	-99.01	1,340.68	1,468.74	869.75	814.57	55.19	15.760	
4,600.00	3,795.32	3,610.96	3,498.71	50.26	19.14	-102.43	1,354.70	1,455.72	923.15	867.70	55.44	16.650	
4,700.00	3,868.27	3,682.80	3,567.72	51.77	19.56	-105.82	1,369.32	1,442.16	979.41	923.62	55.79	17.556	
4,800.00	3,941.23	3,752.69	3,635.05	53.28	19.97	-108.87	1,383.24	1,429.57	1,037.78	981.67	56.11	18.497	
4,900.00	4,014.19	3,810.67	3,690.88	54.79	20.31	-111.22	1,394.87	1,419.11	1,098.56	1,042.33	56.22	19.540	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,087.15	3,870.80	3,748.70	56.30	20.67	-113.49	1,407.13	1,408.08	1,161.56	1,105.15	56.41	20.590	
5,100.00	4,160.10	3,932.38	3,807.88	57.81	21.03	-115.65	1,419.82	1,396.72	1,226.33	1,169.66	56.67	21.639	
5,200.00	4,233.06	3,996.88	3,869.87	59.32	21.41	-117.75	1,433.10	1,384.82	1,292.50	1,235.49	57.02	22.668	
5,300.00	4,306.02	4,069.97	3,940.19	60.83	21.84	-119.95	1,447.94	1,371.49	1,359.66	1,302.11	57.55	23.626	
5,400.00	4,378.97	4,136.83	4,004.67	62.34	22.23	-121.82	1,461.05	1,359.63	1,427.37	1,369.39	57.99	24.615	
5,500.00	4,451.93	4,191.92	4,057.75	63.85	22.55	-123.26	1,471.86	1,349.66	1,496.22	1,437.98	58.24	25.690	
5,600.00	4,524.89	4,249.11	4,112.81	65.36	22.89	-124.67	1,483.15	1,339.03	1,566.17	1,507.61	58.56	26.743	
5,700.00	4,597.84	4,308.37	4,169.81	66.88	23.24	-126.03	1,494.81	1,327.81	1,637.02	1,578.08	58.95	27.771	
5,800.00	4,670.80	4,378.64	4,237.48	68.39	23.65	-127.56	1,508.25	1,314.50	1,708.38	1,648.85	59.54	28.695	
5,900.00	4,743.76	4,448.52	4,304.85	69.90	24.05	-128.97	1,521.52	1,301.53	1,780.02	1,719.88	60.14	29.598	
6,000.00	4,816.71	4,509.49	4,363.57	71.41	24.41	-130.08	1,533.79	1,290.58	1,851.96	1,791.33	60.63	30.545	
6,100.00	4,889.67	4,557.24	4,409.49	72.93	24.69	-130.91	1,543.37	1,281.69	1,924.70	1,863.79	60.91	31.598	
6,200.00	4,962.63	4,624.01	4,473.70	74.44	25.08	-132.03	1,556.39	1,268.80	1,998.17	1,936.64	61.53	32.476	
6,300.00	5,035.59	4,810.26	4,654.59	75.95	26.09	-134.92	1,587.56	1,237.55	2,070.30	2,006.38	63.92	32.389	
6,400.00	5,108.54	4,932.72	4,775.04	77.47	26.65	-136.73	1,602.87	1,221.59	2,139.49	2,074.35	65.14	32.844	
6,500.00	5,181.50	5,036.74	4,877.76	78.98	27.10	-138.17	1,614.47	1,210.08	2,207.57	2,141.49	66.07	33.410	
6,600.00	5,254.46	6,600.00	5,060.89	80.49	32.51	-140.57	1,630.12	1,195.86	2,272.98	2,200.55	72.43	31.380	
6,700.00	5,327.41	5,415.65	5,255.13	82.01	28.35	-143.02	1,637.22	1,189.73	2,335.03	2,265.91	69.12	33.784	
6,800.00	5,400.37	5,522.84	5,362.31	83.52	28.61	-144.33	1,637.61	1,189.15	2,395.80	2,326.10	69.70	34.375	
6,900.00	5,473.33	5,608.52	5,448.00	85.04	28.80	-145.34	1,637.48	1,189.44	2,456.32	2,386.19	70.13	35.023	
7,000.00	5,546.28	5,677.79	5,517.27	86.55	28.95	-146.11	1,637.50	1,189.83	2,517.08	2,446.60	70.49	35.710	
7,100.00	5,619.24	5,745.96	5,585.43	88.06	29.10	-146.85	1,637.38	1,190.04	2,578.38	2,507.55	70.83	36.400	
7,200.00	5,692.20	5,816.20	5,655.68	89.58	29.26	-147.58	1,637.28	1,190.16	2,640.12	2,568.93	71.20	37.081	
7,300.00	5,765.15	5,883.09	5,722.56	91.09	29.41	-148.24	1,637.22	1,190.17	2,702.30	2,630.75	71.55	37.766	
7,400.00	5,838.11	5,949.58	5,789.05	92.61	29.57	-148.88	1,637.25	1,190.03	2,764.94	2,693.02	71.92	38.445	
7,500.00	5,911.07	6,021.51	5,860.98	94.12	29.75	-149.54	1,637.54	1,189.74	2,828.00	2,755.67	72.33	39.097	
7,600.00	5,984.03	6,110.79	5,950.26	95.64	29.97	-150.32	1,637.88	1,189.69	2,891.06	2,818.19	72.87	39.674	
7,700.00	6,056.98	6,170.50	6,009.97	97.15	30.12	-150.82	1,638.23	1,189.62	2,954.39	2,881.17	73.22	40.351	
7,800.00	6,129.94	6,263.01	6,102.47	98.67	30.36	-151.56	1,639.06	1,189.63	3,017.87	2,944.07	73.80	40.890	
7,900.00	6,202.90	6,342.13	6,181.59	100.18	30.56	-152.15	1,639.94	1,190.10	3,081.12	3,006.81	74.31	41.465	
8,000.00	6,275.85	6,416.40	6,255.85	101.70	30.75	-152.69	1,640.82	1,190.56	3,144.52	3,069.74	74.78	42.049	
8,100.00	6,348.81	6,518.04	6,357.48	103.21	31.01	-153.40	1,641.95	1,191.43	3,208.00	3,132.54	75.45	42.515	
8,200.00	6,421.77	6,600.51	6,439.91	104.73	31.22	-153.93	1,643.76	1,193.04	3,270.72	3,194.70	76.02	43.027	
8,300.00	6,494.72	6,658.00	6,497.40	106.24	31.36	-154.30	1,644.42	1,193.81	3,334.05	3,257.66	76.39	43.646	
8,400.00	6,567.68	6,721.11	6,560.50	107.76	31.53	-154.70	1,645.10	1,194.40	3,397.85	3,321.05	76.80	44.240	
8,500.00	6,640.64	6,812.45	6,651.83	109.27	31.76	-155.24	1,646.64	1,195.40	3,461.68	3,384.24	77.44	44.703	
8,600.00	6,713.59	6,913.13	6,752.48	110.79	32.01	-155.85	1,646.76	1,197.28	3,525.10	3,446.99	78.11	45.133	
8,700.00	6,786.55	6,940.00	6,779.35	112.30	32.08	-156.00	1,646.73	1,197.91	3,588.66	3,510.40	78.26	45.854	
8,800.00	6,859.51	6,985.72	6,825.06	113.82	32.20	-156.27	1,646.77	1,198.50	3,652.98	3,574.42	78.55	46.503	
8,900.00	6,932.46	7,035.00	6,874.34	115.33	32.33	-156.54	1,647.01	1,197.95	3,718.72	3,639.84	78.88	47.147	
9,000.00	7,005.42	7,044.88	6,884.21	116.85	32.35	-156.59	1,647.08	1,197.73	3,785.05	3,706.16	78.89	47.977	
9,104.89	7,081.95	7,177.83	7,017.15	118.44	32.73	-157.28	1,648.27	1,196.03	3,854.47	3,774.58	79.89	48.246	
9,150.00	7,115.15	7,217.24	7,056.55	119.12	32.84	-166.18	1,648.52	1,195.79	3,884.32	3,804.14	80.18	48.443	
9,200.00	7,152.46	7,259.93	7,099.24	119.86	32.95	-176.24	1,648.75	1,195.60	3,917.51	3,837.01	80.50	48.663	
9,250.00	7,190.04	7,302.79	7,142.11	120.57	33.07	173.69	1,649.01	1,195.46	3,950.57	3,869.74	80.83	48.874	
9,300.00	7,227.59	7,352.14	7,191.45	121.25	33.21	163.87	1,649.30	1,195.41	3,983.22	3,902.01	81.21	49.048	
9,350.00	7,264.83	7,404.59	7,243.90	121.89	33.35	154.53	1,649.45	1,195.55	4,015.18	3,933.56	81.62	49.197	
9,400.00	7,301.48	7,441.00	7,280.31	122.48	33.44	145.70	1,649.48	1,195.73	4,046.28	3,964.38	81.90	49.406	
9,450.00	7,337.26	7,474.39	7,313.69	123.01	33.53	137.55	1,649.51	1,195.87	4,076.43	3,994.27	82.17	49.612	
9,500.00	7,371.90	7,506.72	7,346.03	123.49	33.61	130.15	1,649.53	1,195.99	4,105.45	4,023.02	82.43	49.803	
9,550.00	7,405.13	7,540.27	7,379.58	123.91	33.70	123.55	1,649.52	1,196.11	4,133.17	4,050.45	82.72	49.966	
9,600.00	7,436.70	7,572.27	7,411.58	124.27	33.78	117.70	1,649.43	1,196.23	4,159.42	4,076.41	83.01	50.109	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	7,602.51	7,441.82	124.57	33.86	112.57	1,649.28	1,196.34	4,184.08	4,100.78	83.30	50.230	
9,700.00	7,493.91	7,630.84	7,470.15	124.81	33.93	108.10	1,649.13	1,196.45	4,207.02	4,123.43	83.60	50.325	
9,750.00	7,519.11	7,656.75	7,496.06	125.00	34.00	104.25	1,649.01	1,196.56	4,228.16	4,144.25	83.90	50.393	
9,800.00	7,541.79	7,680.05	7,519.35	125.12	34.06	100.96	1,648.92	1,196.65	4,247.39	4,163.17	84.22	50.432	
9,850.00	7,561.77	7,700.99	7,540.30	125.20	34.11	98.19	1,648.85	1,196.74	4,264.64	4,180.09	84.55	50.438	
9,900.00	7,578.90	7,720.87	7,560.18	125.23	34.16	95.90	1,648.77	1,196.83	4,279.84	4,194.93	84.91	50.403	
9,950.00	7,593.04	7,737.48	7,576.78	125.22	34.21	94.04	1,648.68	1,196.92	4,292.94	4,207.65	85.29	50.335	
10,000.00	7,604.09	7,750.65	7,589.95	125.17	34.24	92.58	1,648.59	1,196.99	4,303.88	4,218.20	85.68	50.233	
10,050.00	7,611.97	7,760.23	7,599.54	125.08	34.26	91.49	1,648.52	1,197.05	4,312.63	4,226.54	86.09	50.096	
10,100.00	7,616.61	7,766.12	7,605.43	124.97	34.28	90.76	1,648.48	1,197.08	4,319.16	4,232.64	86.51	49.925	
10,145.95	7,618.00	7,768.19	7,607.49	124.84	34.28	90.39	1,648.46	1,197.10	4,323.17	4,236.25	86.92	49.739	
10,200.00	7,618.00	7,768.71	7,608.01	124.69	34.29	90.40	1,648.45	1,197.10	4,327.10	4,239.70	87.41	49.505	
10,300.00	7,618.00	7,769.69	7,608.99	124.41	34.29	90.41	1,648.45	1,197.10	4,336.14	4,247.81	88.33	49.090	
10,400.00	7,618.00	7,770.68	7,609.99	124.14	34.29	90.42	1,648.44	1,197.11	4,347.47	4,258.19	89.27	48.698	
10,500.00	7,618.00	7,771.70	7,611.00	123.88	34.29	90.44	1,648.43	1,197.12	4,361.06	4,270.82	90.23	48.331	
10,600.00	7,618.00	7,772.73	7,612.03	123.63	34.30	90.45	1,648.42	1,197.12	4,376.89	4,285.68	91.20	47.991	
10,700.00	7,618.00	7,773.78	7,613.08	123.40	34.30	90.47	1,648.41	1,197.13	4,394.94	4,302.76	92.18	47.679	
10,800.00	7,618.00	7,774.85	7,614.15	123.18	34.30	90.48	1,648.40	1,197.14	4,415.18	4,322.02	93.16	47.394	
10,900.00	7,618.00	7,775.93	7,615.24	122.96	34.30	90.49	1,648.39	1,197.14	4,437.58	4,343.44	94.14	47.139	
11,000.00	7,618.00	7,777.04	7,616.34	122.76	34.31	90.51	1,648.38	1,197.15	4,462.11	4,367.00	95.11	46.914	
11,100.00	7,618.00	7,778.17	7,617.47	122.57	34.31	90.52	1,648.37	1,197.16	4,488.74	4,392.65	96.08	46.717	
11,200.00	7,618.00	7,779.32	7,618.62	122.39	34.31	90.54	1,648.36	1,197.17	4,517.42	4,420.38	97.04	46.551	
11,300.00	7,618.00	7,780.49	7,619.79	122.23	34.32	90.56	1,648.35	1,197.17	4,548.12	4,450.13	97.99	46.413	
11,400.00	7,618.00	7,781.68	7,620.98	122.07	34.32	90.57	1,648.34	1,197.18	4,580.80	4,481.87	98.93	46.304	
11,500.00	7,618.00	7,782.89	7,622.20	121.93	34.32	90.59	1,648.33	1,197.19	4,615.41	4,515.56	99.85	46.224	
11,600.00	7,618.00	7,784.13	7,623.44	121.79	34.33	90.60	1,648.32	1,197.20	4,651.92	4,551.16	100.75	46.172	
11,700.00	7,618.00	7,785.39	7,624.70	121.67	34.33	90.62	1,648.31	1,197.21	4,690.27	4,588.63	101.64	46.147	
11,800.00	7,618.00	7,786.68	7,625.98	121.56	34.33	90.64	1,648.29	1,197.22	4,730.43	4,627.92	102.50	46.149	
11,900.00	7,618.00	7,787.99	7,627.30	121.46	34.34	90.65	1,648.28	1,197.22	4,772.34	4,668.99	103.35	46.176	
12,000.00	7,618.00	7,789.33	7,628.63	121.38	34.34	90.67	1,648.27	1,197.23	4,815.97	4,711.79	104.18	46.229	
12,100.00	7,618.00	7,790.70	7,630.00	121.30	34.34	90.69	1,648.26	1,197.24	4,861.26	4,756.28	104.98	46.307	
12,200.00	7,618.00	7,792.09	7,631.39	121.24	34.35	90.71	1,648.24	1,197.25	4,908.17	4,802.41	105.76	46.408	
12,300.00	7,618.00	7,793.51	7,632.82	121.19	34.35	90.73	1,648.23	1,197.26	4,956.65	4,850.13	106.52	46.532	
12,400.00	7,618.00	7,794.97	7,634.27	121.16	34.35	90.75	1,648.21	1,197.27	5,006.66	4,899.41	107.26	46.679	
12,500.00	7,618.00	7,796.45	7,635.75	121.14	34.36	90.77	1,648.20	1,197.28	5,058.16	4,950.19	107.97	46.846	
12,600.00	7,618.00	7,797.96	7,637.26	121.13	34.36	90.79	1,648.18	1,197.29	5,111.09	5,002.43	108.67	47.035	
12,700.00	7,618.00	7,799.51	7,638.81	121.13	34.36	90.81	1,648.17	1,197.31	5,165.42	5,056.08	109.34	47.243	
12,800.00	7,618.00	7,801.09	7,640.39	121.15	34.37	90.83	1,648.15	1,197.32	5,221.09	5,111.11	109.99	47.470	
12,900.00	7,618.00	7,802.70	7,642.00	121.18	34.37	90.85	1,648.13	1,197.33	5,278.08	5,167.46	110.61	47.716	
13,000.00	7,618.00	7,804.35	7,643.65	121.23	34.38	90.87	1,648.11	1,197.34	5,336.32	5,225.10	111.22	47.980	
13,100.00	7,618.00	7,806.04	7,645.34	121.29	34.38	90.89	1,648.10	1,197.35	5,395.80	5,283.99	111.81	48.261	
13,200.00	7,618.00	7,807.77	7,647.07	121.37	34.39	90.92	1,648.08	1,197.37	5,456.45	5,344.08	112.37	48.558	
13,300.00	7,618.00	7,809.53	7,648.83	121.46	34.39	90.94	1,648.06	1,197.38	5,518.25	5,405.34	112.92	48.871	
13,400.00	7,618.00	7,811.34	7,650.64	121.57	34.39	90.96	1,648.04	1,197.39	5,581.16	5,467.72	113.44	49.199	
13,500.00	7,618.00	7,802.85	7,642.15	121.70	34.37	90.85	1,648.13	1,197.33	5,645.15	5,531.25	113.90	49.561	
13,600.00	7,618.00	7,803.63	7,642.93	121.84	34.38	90.86	1,648.13	1,197.33	5,710.17	5,595.78	114.39	49.920	
13,700.00	7,618.00	7,804.41	7,643.71	122.01	34.38	90.87	1,648.12	1,197.34	5,776.18	5,661.33	114.85	50.292	
13,800.00	7,618.00	7,805.19	7,644.49	122.19	34.38	90.88	1,648.11	1,197.34	5,843.16	5,727.86	115.30	50.677	
13,900.00	7,618.00	7,805.96	7,645.26	122.39	34.38	90.89	1,648.10	1,197.35	5,911.08	5,795.34	115.73	51.074	
14,000.00	7,618.00	7,806.74	7,646.04	122.62	34.38	90.90	1,648.10	1,197.35	5,979.89	5,863.74	116.15	51.484	
14,100.00	7,618.00	7,807.51	7,646.81	122.86	34.38	90.91	1,648.09	1,197.36	6,049.58	5,933.02	116.55	51.905	
14,200.00	7,618.00	7,808.27	7,647.58	123.12	34.39	90.92	1,648.08	1,197.36	6,120.10	6,003.16	116.94	52.337	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	7,809.04	7,648.34	123.41	34.39	90.93	1,648.07	1,197.37	6,191.44	6,074.13	117.31	52.779	
14,400.00	7,618.00	7,809.81	7,649.11	123.72	34.39	90.94	1,648.07	1,197.37	6,263.56	6,145.89	117.67	53.232	
14,500.00	7,618.00	7,810.57	7,649.87	124.06	34.39	90.95	1,648.06	1,197.38	6,336.43	6,218.42	118.01	53.694	
14,600.00	7,618.00	7,811.33	7,650.63	124.42	34.39	90.96	1,648.05	1,197.38	6,410.04	6,291.70	118.34	54.166	
14,700.00	7,618.00	7,812.08	7,651.38	124.80	34.40	90.97	1,648.04	1,197.38	6,484.36	6,365.70	118.66	54.648	
14,800.00	7,618.00	7,812.84	7,652.14	125.21	34.40	90.98	1,648.04	1,197.39	6,559.36	6,440.39	118.96	55.137	
14,900.00	7,618.00	7,813.59	7,652.89	125.65	34.40	90.99	1,648.03	1,197.39	6,635.01	6,515.75	119.26	55.636	
15,000.00	7,618.00	7,814.34	7,653.64	126.11	34.40	91.00	1,648.02	1,197.40	6,711.31	6,591.77	119.54	56.142	
15,100.00	7,618.00	7,815.09	7,654.39	126.61	34.40	91.01	1,648.02	1,197.40	6,788.22	6,668.40	119.81	56.656	
15,200.00	7,618.00	7,815.84	7,655.14	127.13	34.41	91.02	1,648.01	1,197.41	6,865.72	6,745.64	120.08	57.177	
15,300.00	7,618.00	7,816.58	7,655.88	127.68	34.41	91.03	1,648.00	1,197.41	6,943.80	6,823.47	120.33	57.706	
15,400.00	7,618.00	7,817.33	7,656.63	128.26	34.41	91.04	1,647.99	1,197.42	7,022.44	6,901.86	120.57	58.242	
15,500.00	7,618.00	7,818.07	7,657.37	128.87	34.41	91.05	1,647.99	1,197.42	7,101.61	6,980.80	120.81	58.784	
15,600.00	7,618.00	7,818.81	7,658.11	129.51	34.41	91.06	1,647.98	1,197.42	7,181.30	7,060.27	121.03	59.333	
15,700.00	7,618.00	7,819.54	7,658.84	130.18	34.42	91.07	1,647.97	1,197.43	7,261.50	7,140.25	121.25	59.887	
15,800.00	7,618.00	7,820.28	7,659.58	130.88	34.42	91.08	1,647.97	1,197.43	7,342.18	7,220.72	121.46	60.448	
15,900.00	7,618.00	7,821.01	7,660.31	131.61	34.42	91.09	1,647.96	1,197.44	7,423.33	7,301.66	121.66	61.015	
16,000.00	7,618.00	7,821.74	7,661.04	132.37	34.42	91.10	1,647.95	1,197.44	7,504.94	7,383.08	121.86	61.587	
16,100.00	7,618.00	7,822.47	7,661.77	133.17	34.42	91.11	1,647.94	1,197.45	7,586.98	7,464.93	122.05	62.164	
16,200.00	7,618.00	7,823.19	7,662.49	133.99	34.42	91.12	1,647.94	1,197.45	7,669.45	7,547.22	122.23	62.746	
16,300.00	7,618.00	7,823.92	7,663.22	134.84	34.43	91.13	1,647.93	1,197.45	7,752.34	7,629.93	122.40	63.334	
16,400.00	7,618.00	7,824.64	7,663.94	135.72	34.43	91.14	1,647.92	1,197.46	7,835.62	7,713.05	122.57	63.926	
16,500.00	7,618.00	7,825.36	7,664.66	136.63	34.43	91.15	1,647.92	1,197.46	7,919.29	7,796.56	122.74	64.523	
16,600.00	7,618.00	7,826.08	7,665.38	137.57	34.43	91.16	1,647.91	1,197.47	8,003.34	7,880.45	122.89	65.124	
16,700.00	7,618.00	7,826.80	7,666.10	138.54	34.43	91.17	1,647.90	1,197.47	8,087.75	7,964.70	123.05	65.729	
16,800.00	7,618.00	7,827.51	7,666.81	139.53	34.44	91.18	1,647.90	1,197.47	8,172.51	8,049.31	123.19	66.339	
16,900.00	7,618.00	7,828.22	7,667.52	140.55	34.44	91.19	1,647.89	1,197.48	8,257.61	8,134.27	123.34	66.952	
17,000.00	7,618.00	7,828.93	7,668.23	141.60	34.44	91.20	1,647.88	1,197.48	8,343.04	8,219.57	123.47	67.570	
17,100.00	7,618.00	7,829.64	7,668.94	142.67	34.44	91.21	1,647.88	1,197.49	8,428.79	8,305.19	123.61	68.191	
17,200.00	7,618.00	7,830.35	7,669.65	143.77	34.44	91.22	1,647.87	1,197.49	8,514.86	8,391.12	123.73	68.815	
17,300.00	7,618.00	7,831.05	7,670.35	144.88	34.44	91.23	1,647.86	1,197.49	8,601.22	8,477.36	123.86	69.443	
17,400.00	7,618.00	7,831.76	7,671.05	146.02	34.45	91.24	1,647.86	1,197.50	8,687.88	8,563.90	123.98	70.075	
17,500.00	7,618.00	7,832.46	7,671.76	147.19	34.45	91.25	1,647.85	1,197.50	8,774.82	8,650.72	124.10	70.709	
17,600.00	7,618.00	7,833.15	7,672.45	148.37	34.45	91.25	1,647.84	1,197.50	8,862.03	8,737.82	124.21	71.347	
17,700.00	7,618.00	7,833.85	7,673.15	149.57	34.45	91.26	1,647.84	1,197.51	8,949.52	8,825.20	124.32	71.987	
17,800.00	7,618.00	7,834.55	7,673.85	150.79	34.45	91.27	1,647.83	1,197.51	9,037.26	8,912.83	124.43	72.631	
17,900.00	7,618.00	7,835.24	7,674.54	152.03	34.46	91.28	1,647.82	1,197.51	9,125.25	9,000.72	124.53	73.277	
18,000.00	7,618.00	7,835.93	7,675.23	153.29	34.46	91.29	1,647.82	1,197.52	9,213.49	9,088.86	124.63	73.926	
18,100.00	7,618.00	7,836.62	7,675.92	154.57	34.46	91.30	1,647.81	1,197.52	9,301.97	9,177.24	124.73	74.578	
18,200.00	7,618.00	7,837.31	7,676.61	155.86	34.46	91.31	1,647.81	1,197.53	9,390.68	9,265.86	124.82	75.232	
18,300.00	7,618.00	7,837.99	7,677.29	157.17	34.46	91.32	1,647.80	1,197.53	9,479.61	9,354.70	124.92	75.888	
18,400.00	7,618.00	7,838.68	7,677.98	158.49	34.46	91.33	1,647.79	1,197.53	9,568.77	9,443.76	125.01	76.547	
18,500.00	7,618.00	7,839.36	7,678.66	159.82	34.47	91.34	1,647.79	1,197.54	9,658.13	9,533.04	125.09	77.208	
18,600.00	7,618.00	7,840.04	7,679.34	161.17	34.47	91.35	1,647.78	1,197.54	9,747.70	9,622.52	125.18	77.871	
18,700.00	7,618.00	7,840.72	7,680.02	162.54	34.47	91.35	1,647.77	1,197.54	9,837.47	9,712.21	125.26	78.536	
18,800.00	7,618.00	7,841.40	7,680.69	163.91	34.47	91.36	1,647.77	1,197.55	9,927.44	9,802.10	125.34	79.204	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	134.71	-2,061.79	2,082.55	2,930.80				
100.00	100.00	75.40	75.40	0.13	0.12	134.71	-2,061.69	2,082.37	2,930.37	2,930.11	0.26	N/A	
200.00	200.00	196.55	196.54	0.49	0.47	134.71	-2,060.86	2,081.64	2,929.46	2,928.49	0.96	3,050.847	
300.00	299.98	869.66	862.34	0.85	3.19	64.77	-1,975.25	2,069.68	2,922.96	2,918.98	3.97	735.710	
400.00	399.84	1,202.67	1,179.10	1.21	5.10	64.35	-1,874.69	2,051.83	2,894.50	2,888.63	5.87	493.463	
500.00	499.45	1,357.44	1,323.25	1.58	6.11	64.51	-1,819.17	2,042.34	2,861.31	2,854.33	6.98	409.759	
600.00	598.70	1,500.91	1,455.90	1.97	7.10	64.83	-1,765.29	2,033.19	2,825.70	2,817.62	8.08	349.578	
700.00	697.47	1,623.25	1,567.98	2.38	7.99	65.31	-1,717.03	2,024.56	2,786.74	2,777.62	9.11	305.795	
800.00	795.62	1,716.62	1,653.23	2.83	8.68	65.96	-1,679.46	2,018.28	2,746.18	2,736.16	10.02	274.024	
900.00	893.06	1,804.04	1,733.05	3.31	9.32	66.73	-1,644.36	2,012.02	2,704.12	2,693.19	10.93	247.467	
1,000.00	989.64	1,873.00	1,796.24	3.83	9.83	67.59	-1,617.15	2,007.40	2,661.54	2,649.78	11.77	226.184	
1,100.00	1,085.27	1,971.00	1,886.15	4.40	10.55	68.58	-1,578.68	2,000.94	2,618.04	2,605.25	12.79	204.683	
1,200.00	1,179.82	2,033.04	1,943.21	5.02	11.01	69.62	-1,554.70	1,996.66	2,573.58	2,559.92	13.67	188.319	
1,300.00	1,273.17	2,120.39	2,023.93	5.70	11.64	70.85	-1,521.93	1,990.47	2,528.72	2,514.02	14.70	171.999	
1,400.00	1,365.21	2,231.44	2,126.25	6.43	12.45	72.31	-1,479.54	1,982.38	2,482.35	2,466.46	15.89	156.228	
1,500.00	1,455.84	2,337.27	2,223.34	7.23	13.23	73.92	-1,438.18	1,974.35	2,434.34	2,417.25	17.10	142.397	
1,600.00	1,544.94	2,410.84	2,290.84	8.09	13.78	75.48	-1,409.51	1,968.46	2,385.47	2,367.27	18.21	131.031	
1,700.00	1,632.39	2,475.49	2,350.35	9.01	14.26	77.09	-1,384.77	1,963.36	2,336.59	2,317.26	19.33	120.879	
1,800.00	1,718.11	2,541.86	2,411.76	10.00	14.74	78.82	-1,360.13	1,958.18	2,288.11	2,267.59	20.52	111.511	
1,900.00	1,801.97	2,655.80	2,516.37	11.07	15.58	81.13	-1,315.72	1,950.27	2,238.67	2,216.72	21.95	102.011	
2,000.00	1,883.88	2,722.33	2,577.28	12.20	16.08	83.05	-1,289.26	1,946.18	2,189.29	2,166.02	23.27	94.086	
2,100.00	1,963.74	2,804.83	2,652.99	13.41	16.70	85.29	-1,256.93	1,940.74	2,140.30	2,115.61	24.70	86.657	
2,200.00	2,041.45	2,897.42	2,738.11	14.69	17.39	87.87	-1,221.34	1,933.10	2,091.52	2,065.33	26.19	79.845	
2,300.00	2,116.92	2,997.23	2,829.58	16.05	18.14	90.75	-1,182.44	1,923.93	2,042.89	2,015.14	27.75	73.619	
2,357.48	2,159.25	3,043.03	2,871.30	16.86	18.49	92.24	-1,163.98	1,919.96	2,015.14	1,986.49	28.65	70.343	
2,400.00	2,190.27	3,075.71	2,901.04	17.47	18.75	92.87	-1,150.74	1,917.14	1,994.85	1,965.54	29.32	68.042	
2,500.00	2,263.22	3,183.89	2,999.10	18.92	19.60	95.02	-1,106.08	1,907.44	1,947.59	1,916.66	30.93	62.964	
2,600.00	2,336.18	3,239.61	3,049.40	20.37	20.04	96.17	-1,082.72	1,902.17	1,901.14	1,868.62	32.51	58.472	
2,700.00	2,409.14	3,291.43	3,096.43	21.84	20.45	97.26	-1,061.45	1,897.46	1,856.98	1,822.86	34.12	54.426	
2,800.00	2,482.09	3,356.15	3,155.29	23.31	20.95	98.66	-1,035.13	1,891.91	1,814.99	1,779.25	35.74	50.781	
2,900.00	2,555.05	3,416.94	3,210.63	24.78	21.42	99.99	-1,010.45	1,887.08	1,775.09	1,737.71	37.38	47.490	
3,000.00	2,628.01	3,476.00	3,264.55	26.27	21.87	101.31	-986.74	1,882.72	1,737.63	1,698.60	39.03	44.523	
3,100.00	2,700.96	3,544.48	3,327.21	27.75	22.39	102.89	-959.61	1,877.54	1,702.53	1,661.86	40.67	41.866	
3,200.00	2,773.92	3,653.12	3,426.31	29.24	23.23	105.46	-915.98	1,868.84	1,669.21	1,627.00	42.21	39.548	
3,300.00	2,846.88	3,716.84	3,484.02	30.73	23.73	106.99	-889.35	1,864.15	1,637.11	1,593.27	43.84	37.341	
3,400.00	2,919.83	3,775.06	3,536.95	32.23	24.18	108.41	-865.45	1,860.09	1,608.03	1,562.53	45.49	35.347	
3,500.00	2,992.79	3,835.43	3,592.03	33.72	24.65	109.91	-841.12	1,855.79	1,582.03	1,534.90	47.13	33.570	
3,600.00	3,065.75	3,893.33	3,645.06	35.22	25.08	111.39	-818.25	1,851.49	1,559.28	1,510.52	48.76	31.981	
3,700.00	3,138.71	3,951.57	3,698.61	36.72	25.52	112.89	-795.78	1,847.14	1,540.03	1,489.66	50.37	30.575	
3,800.00	3,211.66	4,041.81	3,781.51	38.22	26.20	115.22	-760.69	1,840.95	1,523.59	1,471.76	51.83	29.398	
3,900.00	3,284.62	4,111.95	3,845.80	39.72	26.73	117.05	-733.01	1,836.44	1,509.75	1,456.41	53.34	28.305	
4,000.00	3,357.58	4,182.59	3,910.58	41.22	27.26	118.92	-705.25	1,831.63	1,499.08	1,444.26	54.81	27.348	
4,100.00	3,430.53	4,247.74	3,970.34	42.73	27.75	120.66	-679.74	1,826.90	1,491.66	1,435.39	56.28	26.507	
4,200.00	3,503.49	4,301.19	4,019.58	44.23	28.14	122.09	-659.29	1,823.07	1,488.17	1,430.43	57.74	25.772	
4,234.67	3,528.78	4,319.82	4,036.80	44.76	28.28	122.58	-652.31	1,821.77	1,487.93	1,429.69	58.24	25.548	CC
4,300.00	3,576.45	4,365.48	4,079.07	45.74	28.61	123.80	-635.34	1,818.65	1,488.67	1,429.56	59.11	25.186	ES
4,400.00	3,649.40	4,437.77	4,146.00	47.25	29.13	125.72	-608.45	1,813.87	1,492.42	1,432.05	60.37	24.720	
4,500.00	3,722.36	4,505.65	4,208.85	48.75	29.62	127.53	-583.26	1,809.05	1,499.48	1,437.88	61.59	24.345	
4,600.00	3,795.32	4,583.21	4,280.63	50.26	30.19	129.58	-554.44	1,803.31	1,509.71	1,447.01	62.70	24.078	
4,700.00	3,868.27	4,662.55	4,353.95	51.77	30.77	131.66	-524.64	1,797.68	1,522.70	1,458.97	63.74	23.891	
4,800.00	3,941.23	4,740.58	4,425.92	53.28	31.34	133.69	-495.00	1,792.16	1,538.40	1,473.70	64.70	23.776	
4,900.00	4,014.19	4,811.20	4,491.09	54.79	31.86	135.48	-468.17	1,787.85	1,556.81	1,491.17	65.64	23.719	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
5,000.00	4,087.15	4,860.56	4,536.82	56.30	32.21	136.72	-449.86	1,784.73	1,578.70	1,512.13	66.57	23.716 SF	
5,100.00	4,160.10	4,907.34	4,580.36	57.81	32.54	137.88	-433.06	1,781.41	1,604.33	1,536.92	67.41	23.800	
5,200.00	4,233.06	4,950.55	4,620.86	59.32	32.83	138.94	-418.31	1,778.28	1,633.74	1,565.57	68.16	23.968	
5,300.00	4,306.02	4,996.27	4,664.01	60.83	33.14	140.02	-403.58	1,775.00	1,666.75	1,597.93	68.82	24.217	
5,400.00	4,378.97	5,055.45	4,720.19	62.34	33.51	141.38	-385.40	1,771.06	1,702.73	1,633.33	69.40	24.534	
5,500.00	4,451.93	5,112.11	4,774.24	63.85	33.85	142.63	-368.76	1,767.72	1,741.27	1,671.34	69.93	24.900	
5,600.00	4,524.89	5,166.69	4,826.58	65.36	34.18	143.80	-353.54	1,764.74	1,782.33	1,711.93	70.41	25.315	
5,700.00	4,597.84	5,223.19	4,880.99	66.88	34.49	144.95	-338.61	1,761.88	1,825.73	1,754.89	70.84	25.773	
5,800.00	4,670.80	5,279.71	4,935.64	68.39	34.80	146.06	-324.45	1,759.24	1,871.22	1,799.99	71.24	26.267	
5,900.00	4,743.76	5,334.28	4,988.68	69.90	35.08	147.07	-311.77	1,757.10	1,918.73	1,847.13	71.60	26.797	
6,000.00	4,816.71	5,386.89	5,040.06	71.41	35.34	147.99	-300.61	1,755.52	1,968.12	1,896.19	71.94	27.359	
6,100.00	4,889.67	5,436.74	5,088.99	72.93	35.56	148.82	-291.14	1,754.35	2,019.40	1,947.16	72.24	27.955	
6,200.00	4,962.63	5,484.19	5,135.75	74.44	35.76	149.55	-283.14	1,753.49	2,072.45	1,999.94	72.51	28.582	
6,300.00	5,035.59	5,529.37	5,180.43	75.95	35.94	150.22	-276.44	1,752.73	2,127.27	2,054.52	72.75	29.241	
6,400.00	5,108.54	5,579.54	5,230.18	77.47	36.12	150.92	-269.99	1,751.93	2,183.71	2,110.71	73.01	29.911	
6,500.00	5,181.50	5,635.39	5,285.65	78.98	36.31	151.65	-263.63	1,751.15	2,241.40	2,168.11	73.29	30.582	
6,600.00	5,254.46	5,686.30	5,336.30	80.49	36.47	152.28	-258.55	1,750.49	2,300.24	2,226.70	73.54	31.280	
6,700.00	5,327.41	5,742.00	5,391.80	82.01	36.65	152.94	-253.83	1,749.69	2,360.31	2,286.49	73.82	31.975	
6,800.00	5,400.37	5,779.22	5,428.93	83.52	36.74	153.35	-251.28	1,749.12	2,421.57	2,347.62	73.95	32.745	
6,900.00	5,473.33	5,836.00	5,485.64	85.04	36.89	153.94	-248.62	1,748.29	2,484.17	2,409.93	74.24	33.460	
7,000.00	5,546.28	5,872.67	5,522.28	86.55	36.97	154.30	-247.50	1,747.75	2,547.73	2,473.36	74.36	34.260	
7,100.00	5,619.24	5,931.00	5,580.59	88.06	37.10	154.84	-246.16	1,746.83	2,612.12	2,537.45	74.67	34.984	
7,200.00	5,692.20	5,995.57	5,645.15	89.58	37.23	155.40	-245.30	1,745.96	2,677.04	2,602.02	75.02	35.683	
7,300.00	5,765.15	6,065.70	5,715.27	91.09	37.37	155.97	-244.92	1,745.36	2,742.24	2,666.81	75.44	36.351	
7,400.00	5,838.11	6,141.12	5,790.69	92.61	37.52	156.56	-244.45	1,744.64	2,807.66	2,731.76	75.90	36.992	
7,500.00	5,911.07	6,230.87	5,880.44	94.12	37.70	157.22	-243.60	1,744.00	2,872.93	2,796.44	76.49	37.559	
7,600.00	5,984.03	6,310.10	5,959.65	95.64	37.87	157.79	-242.54	1,743.59	2,938.09	2,861.09	77.00	38.156	
7,700.00	6,056.98	6,381.85	6,031.40	97.15	38.02	158.28	-241.56	1,743.30	3,003.31	2,925.85	77.46	38.775	
7,800.00	6,129.94	6,462.21	6,111.75	98.67	38.19	158.80	-240.53	1,743.09	3,068.61	2,990.63	77.99	39.347	
7,900.00	6,202.90	6,533.66	6,183.20	100.18	38.35	159.25	-239.45	1,742.98	3,133.88	3,055.43	78.45	39.947	
8,000.00	6,275.85	6,596.38	6,245.91	101.70	38.48	159.63	-238.60	1,742.71	3,199.49	3,120.65	78.84	40.580	
8,100.00	6,348.81	6,678.60	6,328.12	103.21	38.66	160.11	-237.64	1,742.48	3,265.21	3,185.80	79.41	41.120	
8,200.00	6,421.77	6,752.96	6,402.48	104.73	38.82	160.52	-236.82	1,742.46	3,330.91	3,250.99	79.91	41.682	
8,300.00	6,494.72	6,826.89	6,476.40	106.24	38.99	160.91	-235.93	1,742.40	3,396.69	3,316.27	80.42	42.239	
8,400.00	6,567.68	6,900.75	6,550.26	107.76	39.15	161.29	-235.03	1,742.36	3,462.54	3,381.62	80.93	42.787	
8,500.00	6,640.64	6,973.82	6,623.32	109.27	39.31	161.66	-234.13	1,742.32	3,528.48	3,447.05	81.43	43.330	
8,600.00	6,713.59	7,046.00	6,695.50	110.79	39.47	162.00	-233.43	1,742.39	3,594.51	3,512.58	81.94	43.870	
8,700.00	6,786.55	7,140.82	6,790.32	112.30	39.68	162.42	-232.69	1,742.85	3,660.47	3,577.83	82.64	44.295	
8,800.00	6,859.51	7,231.43	6,880.91	113.82	39.88	162.81	-231.78	1,743.82	3,726.03	3,642.72	83.31	44.726	
8,900.00	6,932.46	7,334.70	6,984.16	115.33	40.10	163.21	-230.90	1,745.71	3,791.26	3,707.17	84.09	45.088	
9,000.00	7,005.42	7,420.06	7,069.49	116.85	40.29	163.53	-230.26	1,747.94	3,856.09	3,771.37	84.72	45.516	
9,104.89	7,081.95	7,488.52	7,137.93	118.44	40.43	163.77	-229.95	1,749.89	3,924.13	3,838.91	85.21	46.051	
9,150.00	7,115.15	7,515.49	7,164.88	119.12	40.49	156.01	-229.91	1,750.62	3,952.75	3,867.35	85.40	46.285	
9,200.00	7,152.46	7,545.85	7,195.23	119.86	40.56	147.60	-229.94	1,751.42	3,982.72	3,897.12	85.60	46.525	
9,250.00	7,190.04	7,576.70	7,226.07	120.57	40.62	139.49	-230.04	1,752.22	4,010.64	3,924.84	85.80	46.743	
9,300.00	7,227.59	7,607.52	7,256.88	121.25	40.68	131.79	-230.22	1,752.99	4,036.34	3,950.35	85.99	46.941	
9,350.00	7,264.83	7,631.00	7,280.35	121.89	40.73	124.53	-230.42	1,753.57	4,059.68	3,973.58	86.10	47.150	
9,400.00	7,301.48	7,663.63	7,312.97	122.48	40.79	117.95	-230.80	1,754.35	4,080.54	3,994.27	86.28	47.296	
9,450.00	7,337.26	7,689.49	7,338.82	123.01	40.85	111.98	-231.21	1,754.95	4,098.84	4,012.46	86.38	47.452	
9,500.00	7,371.90	7,714.63	7,363.95	123.49	40.89	106.71	-231.71	1,755.50	4,114.49	4,028.03	86.46	47.590	
9,550.00	7,405.13	7,749.35	7,398.65	123.91	40.96	102.23	-232.50	1,756.27	4,127.39	4,040.79	86.60	47.659	
9,600.00	7,436.70	7,790.09	7,439.37	124.27	41.04	98.51	-233.46	1,757.26	4,137.40	4,050.62	86.78	47.675	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	7,828.74	7,477.99	124.57	41.11	95.43	-234.40	1,758.29	4,144.50	4,057.57	86.93	47.676	
9,700.00	7,493.91	7,839.47	7,488.71	124.81	41.13	92.66	-234.69	1,758.55	4,148.81	4,061.99	86.81	47.789	
9,750.00	7,519.11	7,853.91	7,503.15	125.00	41.16	90.49	-235.09	1,758.88	4,150.36	4,063.64	86.72	47.861	
9,800.00	7,541.79	7,867.03	7,516.26	125.12	41.18	88.85	-235.48	1,759.15	4,149.18	4,062.59	86.60	47.915	
9,850.00	7,561.77	7,878.74	7,527.96	125.20	41.21	87.69	-235.84	1,759.37	4,145.30	4,058.85	86.45	47.949	
9,900.00	7,578.90	7,888.94	7,538.16	125.23	41.23	86.99	-236.17	1,759.54	4,138.77	4,052.47	86.29	47.962	
9,950.00	7,593.04	7,897.58	7,546.79	125.22	41.24	86.73	-236.46	1,759.68	4,129.63	4,043.51	86.12	47.951	
10,000.00	7,604.09	7,914.00	7,563.20	125.17	41.27	87.03	-237.05	1,759.90	4,117.99	4,031.96	86.03	47.866	
10,050.00	7,611.97	7,914.00	7,563.20	125.08	41.27	87.54	-237.05	1,759.90	4,103.87	4,018.07	85.80	47.831	
10,100.00	7,616.61	7,914.00	7,563.20	124.97	41.27	88.50	-237.05	1,759.90	4,087.41	4,001.83	85.59	47.757	
10,145.95	7,618.00	7,914.00	7,563.20	124.84	41.27	89.77	-237.05	1,759.90	4,070.31	3,984.90	85.42	47.653	
10,200.00	7,618.00	7,914.00	7,563.20	124.69	41.27	89.77	-237.05	1,759.90	4,049.43	3,964.19	85.24	47.507	
10,300.00	7,618.00	7,914.00	7,563.20	124.41	41.27	89.77	-237.05	1,759.90	4,012.41	3,927.45	84.96	47.228	
10,400.00	7,618.00	7,914.00	7,563.20	124.14	41.27	89.77	-237.05	1,759.90	3,977.57	3,892.82	84.75	46.932	
10,500.00	7,618.00	7,914.00	7,563.20	123.88	41.27	89.77	-237.05	1,759.90	3,944.96	3,860.33	84.62	46.617	
10,600.00	7,618.00	7,914.00	7,563.20	123.63	41.27	89.77	-237.05	1,759.90	3,914.63	3,830.05	84.58	46.282	
10,700.00	7,618.00	7,914.00	7,563.20	123.40	41.27	89.77	-237.05	1,759.90	3,886.63	3,802.01	84.63	45.926	
10,800.00	7,618.00	7,929.07	7,578.26	123.18	41.30	90.00	-237.60	1,760.06	3,860.98	3,776.04	84.94	45.458	
10,900.00	7,618.00	7,931.27	7,580.46	122.96	41.30	90.04	-237.69	1,760.08	3,837.79	3,752.59	85.20	45.046	
11,000.00	7,618.00	7,933.49	7,582.67	122.76	41.31	90.07	-237.77	1,760.10	3,817.08	3,731.53	85.56	44.615	
11,100.00	7,618.00	7,935.73	7,584.91	122.57	41.31	90.11	-237.86	1,760.12	3,798.89	3,712.88	86.01	44.168	
11,200.00	7,618.00	7,937.98	7,587.16	122.39	41.32	90.14	-237.94	1,760.13	3,783.26	3,696.70	86.56	43.708	
11,300.00	7,618.00	7,940.26	7,589.44	122.23	41.32	90.18	-238.03	1,760.15	3,770.21	3,683.01	87.19	43.239	
11,400.00	7,618.00	7,942.56	7,591.73	122.07	41.33	90.21	-238.12	1,760.17	3,759.77	3,671.85	87.92	42.765	
11,500.00	7,618.00	7,944.87	7,594.05	121.93	41.33	90.25	-238.21	1,760.18	3,751.97	3,663.25	88.72	42.292	
11,600.00	7,618.00	7,947.21	7,596.38	121.79	41.33	90.28	-238.30	1,760.20	3,746.82	3,657.23	89.59	41.823	
11,700.00	7,618.00	7,949.57	7,598.74	121.67	41.34	90.32	-238.39	1,760.21	3,744.33	3,653.81	90.52	41.364	
11,743.31	7,618.00	7,950.59	7,599.76	121.62	41.34	90.33	-238.43	1,760.22	3,744.08	3,653.13	90.95	41.166	
11,800.00	7,618.00	7,951.95	7,601.11	121.56	41.34	90.35	-238.48	1,760.23	3,744.51	3,653.00	91.51	40.919	
11,900.00	7,618.00	7,954.35	7,603.51	121.46	41.35	90.39	-238.58	1,760.24	3,747.35	3,654.81	92.54	40.492	
12,000.00	7,618.00	7,956.77	7,605.93	121.38	41.35	90.43	-238.67	1,760.25	3,752.86	3,659.24	93.62	40.087	
12,100.00	7,618.00	7,959.21	7,608.38	121.30	41.36	90.46	-238.77	1,760.26	3,761.01	3,666.30	94.72	39.707	
12,200.00	7,618.00	7,961.68	7,610.84	121.24	41.36	90.50	-238.87	1,760.27	3,771.80	3,675.96	95.84	39.355	
12,300.00	7,618.00	7,964.17	7,613.33	121.19	41.36	90.54	-238.97	1,760.28	3,785.20	3,688.22	96.98	39.032	
12,400.00	7,618.00	7,966.68	7,615.84	121.16	41.37	90.58	-239.07	1,760.29	3,801.18	3,703.06	98.12	38.740	
12,500.00	7,618.00	7,969.22	7,618.37	121.14	41.37	90.62	-239.17	1,760.29	3,819.71	3,720.44	99.26	38.481	
12,600.00	7,618.00	7,971.77	7,620.93	121.13	41.38	90.66	-239.28	1,760.30	3,840.75	3,740.35	100.40	38.256	
12,700.00	7,618.00	7,974.36	7,623.51	121.13	41.38	90.70	-239.38	1,760.30	3,864.26	3,762.74	101.52	38.064	
12,800.00	7,618.00	7,976.96	7,626.11	121.15	41.39	90.74	-239.49	1,760.31	3,890.20	3,787.57	102.63	37.906	
12,900.00	7,618.00	7,979.60	7,628.74	121.18	41.39	90.78	-239.60	1,760.31	3,918.51	3,814.80	103.71	37.782	
13,000.00	7,618.00	7,982.25	7,631.40	121.23	41.40	90.82	-239.71	1,760.31	3,949.16	3,844.38	104.78	37.691	
13,100.00	7,618.00	7,984.93	7,634.08	121.29	41.40	90.86	-239.82	1,760.31	3,982.07	3,876.26	105.81	37.634	
13,200.00	7,618.00	7,987.64	7,636.78	121.37	41.41	90.90	-239.93	1,760.31	4,017.21	3,910.39	106.82	37.608	
13,300.00	7,618.00	7,990.37	7,639.51	121.46	41.41	90.94	-240.04	1,760.31	4,054.50	3,946.71	107.79	37.614	
13,400.00	7,618.00	7,993.13	7,642.27	121.57	41.42	90.98	-240.16	1,760.30	4,093.90	3,985.16	108.73	37.651	
13,500.00	7,618.00	7,995.92	7,645.05	121.70	41.42	91.03	-240.28	1,760.30	4,135.33	4,025.69	109.64	37.717	
13,600.00	7,618.00	7,998.73	7,647.86	121.84	41.43	91.07	-240.40	1,760.29	4,178.75	4,068.24	110.51	37.812	
13,700.00	7,618.00	8,009.00	7,658.12	122.01	41.45	91.23	-240.84	1,760.26	4,224.09	4,112.70	111.39	37.921	
13,800.00	7,618.00	8,009.00	7,658.12	122.19	41.45	91.23	-240.84	1,760.26	4,271.28	4,159.10	112.18	38.076	
13,900.00	7,618.00	8,009.00	7,658.12	122.39	41.45	91.23	-240.84	1,760.26	4,320.26	4,207.33	112.93	38.256	
14,000.00	7,618.00	8,009.00	7,658.12	122.62	41.45	91.23	-240.84	1,760.26	4,370.99	4,257.34	113.65	38.460	
14,100.00	7,618.00	8,009.00	7,658.12	122.86	41.45	91.23	-240.84	1,760.26	4,423.39	4,309.05	114.34	38.688	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,200.00	7,618.00	8,009.00	7,658.12	123.12	41.45	91.23	-240.84	1,760.26	4,477.41	4,362.42	114.99	38.937	
14,300.00	7,618.00	8,009.00	7,658.12	123.41	41.45	91.23	-240.84	1,760.26	4,533.00	4,417.39	115.61	39.209	
14,400.00	7,618.00	8,021.57	7,670.67	123.72	41.47	91.42	-241.40	1,760.18	4,590.07	4,473.81	116.26	39.481	
14,500.00	7,618.00	8,024.53	7,673.63	124.06	41.47	91.46	-241.53	1,760.16	4,648.60	4,531.76	116.83	39.788	
14,600.00	7,618.00	8,342.90	7,990.78	124.42	41.97	96.30	-266.95	1,763.35	4,707.70	4,589.18	118.53	39.718	
14,700.00	7,618.00	8,345.57	7,993.43	124.80	41.97	96.34	-267.18	1,763.47	4,768.45	4,649.43	119.02	40.066	
14,800.00	7,618.00	8,348.14	7,995.99	125.21	41.98	96.38	-267.40	1,763.58	4,830.49	4,711.01	119.48	40.430	
14,900.00	7,618.00	8,350.63	7,998.47	125.65	41.98	96.41	-267.61	1,763.68	4,893.79	4,773.87	119.92	40.810	
15,000.00	7,618.00	8,353.05	8,000.87	126.11	41.98	96.45	-267.81	1,763.78	4,958.29	4,837.96	120.33	41.206	
15,100.00	7,618.00	8,386.00	8,033.72	126.61	42.03	96.95	-270.22	1,765.06	5,024.28	4,903.46	120.82	41.586	
15,200.00	7,618.00	8,386.00	8,033.72	127.13	42.03	96.95	-270.22	1,765.06	5,091.01	4,969.83	121.18	42.012	
15,300.00	7,618.00	8,386.00	8,033.72	127.68	42.03	96.95	-270.22	1,765.06	5,158.82	5,037.29	121.52	42.451	
15,400.00	7,618.00	8,386.00	8,033.72	128.26	42.03	96.95	-270.22	1,765.06	5,227.65	5,105.80	121.85	42.902	
15,500.00	7,618.00	8,386.00	8,033.72	128.87	42.03	96.95	-270.22	1,765.06	5,297.48	5,175.33	122.16	43.366	
15,600.00	7,618.00	8,386.00	8,033.72	129.51	42.03	96.95	-270.22	1,765.06	5,368.27	5,245.82	122.45	43.841	
15,700.00	7,618.00	8,386.00	8,033.72	130.18	42.03	96.95	-270.22	1,765.06	5,439.97	5,317.25	122.73	44.326	
15,800.00	7,618.00	8,386.00	8,033.72	130.88	42.03	96.95	-270.22	1,765.06	5,512.56	5,389.57	122.99	44.823	
15,900.00	7,618.00	8,386.00	8,033.72	131.61	42.03	96.95	-270.22	1,765.06	5,585.99	5,462.76	123.23	45.329	
16,000.00	7,618.00	8,386.00	8,033.72	132.37	42.03	96.95	-270.22	1,765.06	5,660.24	5,536.77	123.47	45.844	
16,100.00	7,618.00	8,386.00	8,033.72	133.17	42.03	96.95	-270.22	1,765.06	5,735.26	5,611.58	123.69	46.369	
16,200.00	7,618.00	8,386.00	8,033.72	133.99	42.03	96.95	-270.22	1,765.06	5,811.04	5,687.15	123.90	46.902	
16,300.00	7,618.00	8,386.00	8,033.72	134.84	42.03	96.95	-270.22	1,765.06	5,887.55	5,763.45	124.10	47.444	
16,400.00	7,618.00	8,386.00	8,033.72	135.72	42.03	96.95	-270.22	1,765.06	5,964.75	5,840.46	124.28	47.993	
16,500.00	7,618.00	8,386.00	8,033.72	136.63	42.03	96.95	-270.22	1,765.06	6,042.61	5,918.15	124.46	48.550	
16,600.00	7,618.00	8,386.00	8,033.72	137.57	42.03	96.95	-270.22	1,765.06	6,121.13	5,996.50	124.63	49.115	
16,700.00	7,618.00	8,386.00	8,033.72	138.54	42.03	96.95	-270.22	1,765.06	6,200.25	6,075.47	124.79	49.686	
16,800.00	7,618.00	8,386.00	8,033.72	139.53	42.03	96.95	-270.22	1,765.06	6,279.98	6,155.04	124.94	50.264	
16,900.00	7,618.00	8,386.00	8,033.72	140.55	42.03	96.95	-270.22	1,765.06	6,360.28	6,235.19	125.08	50.848	
17,000.00	7,618.00	8,386.00	8,033.72	141.60	42.03	96.95	-270.22	1,765.06	6,441.13	6,315.91	125.22	51.439	
17,100.00	7,618.00	8,386.00	8,033.72	142.67	42.03	96.95	-270.22	1,765.06	6,522.51	6,397.16	125.35	52.035	
17,200.00	7,618.00	8,386.00	8,033.72	143.77	42.03	96.95	-270.22	1,765.06	6,604.40	6,478.93	125.47	52.637	
17,300.00	7,618.00	8,386.00	8,033.72	144.88	42.03	96.95	-270.22	1,765.06	6,686.78	6,561.20	125.59	53.244	
17,400.00	7,618.00	8,386.00	8,033.72	146.02	42.03	96.95	-270.22	1,765.06	6,769.64	6,643.94	125.70	53.856	
17,500.00	7,618.00	8,386.00	8,033.72	147.19	42.03	96.95	-270.22	1,765.06	6,852.96	6,727.15	125.80	54.473	
17,600.00	7,618.00	8,386.00	8,033.72	148.37	42.03	96.95	-270.22	1,765.06	6,936.72	6,810.81	125.90	55.095	
17,700.00	7,618.00	8,410.00	8,057.66	149.57	42.07	97.31	-271.69	1,765.91	7,020.80	6,894.74	126.06	55.694	
17,800.00	7,618.00	8,412.41	8,060.06	150.79	42.08	97.35	-271.83	1,765.99	7,105.37	6,979.21	126.16	56.322	
17,900.00	7,618.00	8,414.77	8,062.42	152.03	42.08	97.38	-271.97	1,766.07	7,190.34	7,064.09	126.25	56.953	
18,000.00	7,618.00	8,417.10	8,064.74	153.29	42.09	97.42	-272.10	1,766.15	7,275.68	7,149.35	126.34	57.589	
18,100.00	7,618.00	8,419.39	8,067.02	154.57	42.09	97.45	-272.23	1,766.23	7,361.40	7,234.97	126.42	58.229	
18,200.00	7,618.00	8,421.64	8,069.27	155.86	42.10	97.49	-272.36	1,766.31	7,447.46	7,320.96	126.50	58.872	
18,300.00	7,618.00	8,423.85	8,071.48	157.17	42.10	97.52	-272.49	1,766.38	7,533.87	7,407.30	126.58	59.519	
18,400.00	7,618.00	8,426.03	8,073.65	158.49	42.10	97.55	-272.61	1,766.46	7,620.62	7,493.96	126.65	60.169	
18,500.00	7,618.00	8,428.17	8,075.79	159.82	42.11	97.59	-272.73	1,766.53	7,707.68	7,580.95	126.72	60.822	
18,600.00	7,618.00	8,430.28	8,077.89	161.17	42.11	97.62	-272.84	1,766.60	7,795.05	7,668.25	126.79	61.479	
18,700.00	7,618.00	8,432.36	8,079.97	162.54	42.11	97.65	-272.95	1,766.67	7,882.72	7,755.86	126.86	62.138	
18,800.00	7,618.00	8,434.40	8,082.01	163.91	42.12	97.68	-273.06	1,766.74	7,970.67	7,843.75	126.92	62.801	
18,900.00	7,618.00	8,436.42	8,084.01	165.30	42.12	97.71	-273.17	1,766.81	8,058.91	7,931.93	126.98	63.466	
19,000.00	7,618.00	8,438.40	8,085.99	166.70	42.13	97.74	-273.28	1,766.88	8,147.42	8,020.38	127.04	64.133	
19,100.00	7,618.00	8,440.35	8,087.94	168.10	42.13	97.77	-273.38	1,766.94	8,236.19	8,109.09	127.10	64.803	
19,200.00	7,618.00	8,442.27	8,089.85	169.52	42.13	97.80	-273.48	1,767.00	8,325.21	8,198.06	127.15	65.476	
19,300.00	7,618.00	8,444.16	8,091.74	170.95	42.14	97.83	-273.58	1,767.07	8,414.48	8,287.28	127.20	66.151	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,400.00	7,618.00	8,446.02	8,093.60	172.39	42.14	97.86	-273.68	1,767.13	8,503.98	8,376.73	127.25	66.828	
19,500.00	7,618.00	8,447.86	8,095.44	173.84	42.14	97.88	-273.77	1,767.19	8,593.72	8,466.42	127.30	67.507	
19,600.00	7,618.00	8,449.67	8,097.24	175.30	42.15	97.91	-273.86	1,767.25	8,683.68	8,556.33	127.35	68.188	
19,700.00	7,618.00	8,451.45	8,099.02	176.76	42.15	97.94	-273.95	1,767.31	8,773.86	8,646.46	127.39	68.872	
19,800.00	7,618.00	8,453.21	8,100.78	178.24	42.15	97.96	-274.04	1,767.36	8,864.24	8,736.80	127.44	69.557	
19,896.19	7,618.00	8,481.00	8,128.52	179.66	42.20	98.38	-275.35	1,768.25	8,951.48	8,823.94	127.54	70.185	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	69.32	772.38	2,045.92	2,187.20				
100.00	100.00	63.96	63.96	0.13	0.10	69.32	772.15	2,045.96	2,186.81	2,186.58	0.24	9,215.550	
200.00	200.00	168.55	168.55	0.49	0.36	69.35	770.98	2,046.12	2,186.57	2,185.71	0.86	2,555.048	
300.00	299.98	271.88	271.87	0.85	0.73	0.05	770.22	2,045.93	2,184.39	2,182.81	1.58	1,381.167	
400.00	399.84	361.74	361.73	1.21	1.05	0.07	769.66	2,045.78	2,178.80	2,176.53	2.26	963.303	
500.00	499.45	453.16	453.15	1.58	1.38	0.08	769.13	2,046.21	2,170.31	2,167.36	2.95	736.041	
600.00	598.70	541.46	541.44	1.97	1.69	0.10	768.90	2,046.78	2,158.63	2,155.01	3.62	595.501	
700.00	697.47	633.63	633.60	2.38	2.01	0.12	768.65	2,047.96	2,144.08	2,139.76	4.32	496.446	
800.00	795.62	729.23	729.19	2.83	2.35	0.14	768.43	2,049.26	2,126.17	2,121.14	5.03	422.783	
900.00	893.06	829.32	829.27	3.31	2.70	0.15	768.60	2,050.59	2,104.95	2,099.19	5.76	365.486	
1,000.00	989.64	938.82	938.77	3.83	3.08	0.15	768.92	2,051.53	2,079.95	2,073.43	6.52	318.929	
1,100.00	1,085.27	1,039.03	1,038.97	4.40	3.42	0.12	770.13	2,051.54	2,051.13	2,043.88	7.25	283.027	
1,200.00	1,179.82	1,122.19	1,122.13	5.02	3.71	0.09	771.28	2,051.64	2,019.15	2,011.23	7.92	254.872	
1,300.00	1,273.17	1,225.22	1,225.14	5.70	4.06	0.06	772.71	2,051.98	1,984.06	1,975.39	8.67	228.821	
1,400.00	1,365.21	1,281.06	1,280.97	6.43	4.26	0.03	773.88	2,052.43	1,946.33	1,937.06	9.27	209.941	
1,500.00	1,455.84	1,339.22	1,339.07	7.23	4.46	-0.03	776.14	2,053.56	1,906.99	1,897.10	9.89	192.884	
1,600.00	1,544.94	1,397.25	1,396.98	8.09	4.67	-0.11	779.45	2,055.38	1,866.06	1,855.55	10.51	177.534	
1,700.00	1,632.39	1,457.49	1,457.00	9.01	4.88	-0.22	783.86	2,058.00	1,823.53	1,812.38	11.15	163.522	
1,800.00	1,718.11	1,517.03	1,516.22	10.00	5.09	-0.36	788.94	2,061.32	1,779.31	1,767.51	11.80	150.808	
1,900.00	1,801.97	1,573.04	1,571.84	11.07	5.30	-0.51	794.38	2,065.27	1,733.59	1,721.14	12.44	139.322	
2,000.00	1,883.88	1,631.76	1,629.99	12.20	5.52	-0.69	800.70	2,070.32	1,686.40	1,673.30	13.11	128.682	
2,100.00	1,963.74	1,692.00	1,689.54	13.41	5.74	-0.89	807.52	2,076.38	1,637.59	1,623.81	13.78	118.832	
2,200.00	2,041.45	1,755.72	1,752.37	14.69	5.99	-1.13	815.28	2,083.59	1,587.08	1,572.60	14.48	109.625	
2,300.00	2,116.92	1,815.63	1,811.28	16.05	6.23	-1.39	823.27	2,091.01	1,534.85	1,519.68	15.17	101.175	
2,357.48	2,159.25	1,848.38	1,843.40	16.86	6.36	-1.55	827.80	2,095.48	1,504.17	1,488.60	15.57	96.613	
2,400.00	2,190.27	1,881.00	1,875.34	17.47	6.49	-1.69	832.42	2,100.25	1,481.48	1,465.59	15.89	93.236	
2,500.00	2,263.22	1,940.27	1,933.26	18.92	6.74	-1.96	841.00	2,109.44	1,428.89	1,412.29	16.60	86.102	
2,600.00	2,336.18	2,002.85	1,994.29	20.37	7.01	-2.25	850.23	2,119.80	1,377.42	1,360.09	17.32	79.505	
2,700.00	2,409.14	2,059.52	2,049.34	21.84	7.26	-2.48	858.14	2,130.64	1,327.75	1,309.71	18.05	73.564	
2,800.00	2,482.09	2,129.39	2,116.97	23.31	7.58	-2.71	867.10	2,145.74	1,279.74	1,260.92	18.82	67.987	
2,900.00	2,555.05	2,206.92	2,191.82	24.78	7.94	-2.90	875.89	2,163.88	1,232.71	1,213.08	19.63	62.805	
3,000.00	2,628.01	2,284.95	2,267.03	26.27	8.31	-2.99	883.13	2,183.38	1,186.28	1,165.84	20.44	58.042	
3,100.00	2,700.96	2,357.13	2,336.34	27.75	8.66	-3.06	889.76	2,202.41	1,140.99	1,119.75	21.24	53.714	
3,200.00	2,773.92	2,434.93	2,410.76	29.24	9.06	-3.11	896.91	2,223.93	1,096.83	1,074.76	22.07	49.697	
3,300.00	2,846.88	2,500.20	2,472.88	30.73	9.41	-3.15	903.08	2,242.97	1,054.09	1,031.21	22.88	46.079	
3,400.00	2,919.83	2,573.23	2,541.81	32.23	9.81	-3.22	911.12	2,265.73	1,013.60	989.89	23.71	42.747	
3,500.00	2,992.79	2,669.26	2,632.29	33.72	10.37	-3.27	921.27	2,296.24	973.56	948.94	24.62	39.548	
3,600.00	3,065.75	2,768.54	2,726.14	35.22	10.95	-3.34	931.52	2,326.98	932.68	907.15	25.53	36.530	
3,700.00	3,138.71	2,859.56	2,812.29	36.72	11.49	-3.48	941.72	2,354.52	891.54	865.10	26.44	33.723	
3,800.00	3,211.66	2,949.71	2,897.59	38.22	12.03	-3.66	952.15	2,381.76	850.51	823.16	27.35	31.098	
3,900.00	3,284.62	3,038.66	2,981.74	39.72	12.57	-3.84	962.32	2,408.74	809.54	781.27	28.27	28.640	
4,000.00	3,357.58	3,122.92	3,061.23	41.22	13.09	-4.04	972.33	2,434.83	769.30	740.11	29.19	26.355	
4,100.00	3,430.53	3,217.63	3,150.52	42.73	13.69	-4.30	983.89	2,464.21	729.25	699.12	30.13	24.200	
4,200.00	3,503.49	3,315.75	3,243.25	44.23	14.31	-4.55	994.93	2,494.31	688.53	657.46	31.07	22.158	
4,300.00	3,576.45	3,409.43	3,332.02	45.74	14.90	-4.79	1,004.92	2,522.54	647.11	615.10	32.02	20.212	
4,400.00	3,649.40	3,495.61	3,413.59	47.25	15.44	-5.10	1,014.73	2,548.54	606.02	573.04	32.99	18.372	
4,500.00	3,722.36	3,587.25	3,500.24	48.75	16.03	-5.51	1,025.63	2,576.31	565.29	531.32	33.97	16.641	
4,600.00	3,795.32	3,686.08	3,593.95	50.26	16.66	-6.05	1,037.20	2,605.52	523.85	488.90	34.95	14.989	
4,700.00	3,868.27	3,774.89	3,678.25	51.77	17.22	-6.55	1,047.00	2,631.65	482.05	446.07	35.98	13.399	
4,800.00	3,941.23	3,866.54	3,765.27	53.28	17.80	-7.21	1,057.31	2,658.50	440.28	403.24	37.03	11.888	
4,900.00	4,014.19	3,957.87	3,852.03	54.79	18.37	-7.99	1,067.49	2,685.14	398.41	360.26	38.14	10.445	
5,000.00	4,087.15	4,044.90	3,934.59	56.30	18.93	-8.82	1,076.95	2,711.04	356.97	317.62	39.35	9.072	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
5,100.00	4,160.10	4,137.35	4,022.21	57.81	19.53	-10.14	1,088.00	2,738.35	315.97	275.30	40.67	7.769	
5,200.00	4,233.06	4,231.30	4,111.55	59.32	20.12	-12.13	1,099.83	2,764.91	274.41	232.16	42.25	6.494	
5,300.00	4,306.02	4,322.23	4,198.19	60.83	20.69	-14.53	1,110.16	2,790.50	232.46	188.26	44.20	5.259	
5,400.00	4,378.97	4,411.64	4,283.29	62.34	21.26	-17.58	1,119.54	2,816.27	191.02	144.30	46.72	4.088	
5,500.00	4,451.93	4,502.80	4,370.06	63.85	21.83	-22.62	1,129.75	2,842.28	150.52	99.89	50.63	2.973	
5,600.00	4,524.89	4,590.78	4,453.80	65.36	22.39	-31.04	1,140.16	2,867.18	112.03	54.26	57.77	1.939	
5,700.00	4,597.84	4,681.93	4,540.20	66.88	22.98	-47.40	1,152.45	2,893.46	79.66	8.21	71.46	1.115	Level 2
5,800.00	4,670.80	4,773.30	4,627.31	68.39	23.55	-78.09	1,163.56	2,918.70	59.15	-31.14	90.28	0.655	Level 1
5,827.77	4,691.06	4,798.41	4,651.33	68.81	23.71	-88.94	1,166.36	2,925.46	57.90	-34.61	92.51	0.626	Level 1, CC, ES, SF
5,900.00	4,743.76	4,863.72	4,713.93	69.90	24.11	-115.89	1,173.04	2,942.85	65.93	-19.75	85.68	0.769	Level 1
6,000.00	4,816.71	4,952.06	4,798.84	71.41	24.63	-140.26	1,180.64	2,966.02	95.73	26.89	68.84	1.391	Level 3
6,100.00	4,889.67	5,038.33	4,882.23	72.93	25.12	-152.86	1,187.64	2,986.98	136.44	76.88	59.55	2.291	
6,200.00	4,962.63	5,122.96	4,964.26	74.44	25.58	-159.66	1,194.67	3,006.56	181.52	126.07	55.45	3.273	
6,300.00	5,035.59	5,202.34	5,041.73	75.95	25.99	-163.81	1,200.44	3,022.84	230.39	177.08	53.31	4.321	
6,400.00	5,108.54	5,278.01	5,116.12	77.47	26.35	-166.71	1,204.69	3,036.04	282.85	230.76	52.09	5.430	
6,500.00	5,181.50	5,357.16	5,194.25	78.98	26.70	-168.96	1,208.28	3,048.15	337.72	286.02	51.70	6.532	
6,600.00	5,254.46	5,428.71	5,265.08	80.49	26.99	-170.47	1,211.31	3,057.87	394.36	342.97	51.39	7.673	
6,700.00	5,327.41	5,496.44	5,332.37	82.01	27.25	-171.55	1,213.89	3,064.95	453.71	402.51	51.21	8.861	
6,800.00	5,400.37	5,562.76	5,398.45	83.52	27.48	-172.45	1,215.60	3,070.30	515.29	464.15	51.14	10.077	
6,900.00	5,473.33	5,624.52	5,460.11	85.04	27.67	-173.18	1,216.49	3,073.79	579.00	527.98	51.02	11.348	
7,000.00	5,546.28	5,686.93	5,522.49	86.55	27.85	-173.79	1,216.94	3,075.75	644.73	593.67	51.06	12.627	
7,100.00	5,619.24	5,751.90	5,587.45	88.06	28.02	-174.31	1,217.34	3,076.77	711.68	660.39	51.30	13.873	
7,200.00	5,692.20	5,824.12	5,659.67	89.58	28.21	-174.76	1,217.85	3,077.30	779.24	727.38	51.86	15.026	
7,300.00	5,765.15	5,899.84	5,735.38	91.09	28.41	-175.15	1,218.51	3,077.81	846.83	794.27	52.56	16.112	
7,400.00	5,838.11	5,976.41	5,811.94	92.61	28.61	-175.49	1,219.16	3,078.64	914.16	860.86	53.29	17.153	
7,500.00	5,911.07	6,050.89	5,886.41	94.12	28.82	-175.76	1,220.02	3,079.52	981.36	927.38	53.97	18.183	
7,600.00	5,984.03	6,121.60	5,957.11	95.64	29.01	-175.98	1,220.87	3,080.22	1,048.69	994.14	54.55	19.224	
7,700.00	6,056.98	6,192.45	6,027.95	97.15	29.20	-176.18	1,221.68	3,080.72	1,116.25	1,061.10	55.15	20.241	
7,800.00	6,129.94	6,262.95	6,098.45	98.67	29.39	-176.35	1,222.46	3,081.03	1,184.00	1,128.25	55.75	21.239	
7,900.00	6,202.90	6,333.18	6,168.68	100.18	29.57	-176.50	1,223.10	3,081.19	1,251.95	1,195.61	56.34	22.220	
8,000.00	6,275.85	6,403.85	6,239.35	101.70	29.76	-176.66	1,223.39	3,081.31	1,320.07	1,263.11	56.96	23.176	
8,100.00	6,348.81	6,480.14	6,315.64	103.21	29.96	-176.83	1,223.52	3,081.49	1,388.20	1,330.49	57.71	24.054	
8,200.00	6,421.77	6,561.97	6,397.47	104.73	30.18	-176.98	1,223.93	3,081.93	1,456.05	1,397.46	58.59	24.851	
8,300.00	6,494.72	6,636.64	6,472.13	106.24	30.39	-177.12	1,224.16	3,082.80	1,523.50	1,464.20	59.30	25.690	
8,400.00	6,567.68	6,701.78	6,537.27	107.76	30.57	-177.23	1,224.34	3,083.27	1,591.28	1,531.47	59.82	26.603	
8,500.00	6,640.64	6,784.03	6,619.51	109.27	30.80	-177.35	1,224.79	3,083.83	1,659.04	1,598.34	60.70	27.333	
8,600.00	6,713.59	6,860.33	6,695.81	110.79	31.01	-177.43	1,225.59	3,084.49	1,726.53	1,665.08	61.45	28.096	
8,700.00	6,786.55	6,930.58	6,766.05	112.30	31.21	-177.49	1,226.61	3,085.03	1,794.02	1,731.93	62.08	28.896	
8,800.00	6,859.51	6,996.66	6,832.13	113.82	31.40	-177.55	1,227.41	3,085.35	1,861.76	1,799.12	62.64	29.722	
8,900.00	6,932.46	7,059.76	6,895.22	115.33	31.57	-177.60	1,228.03	3,085.37	1,929.85	1,866.71	63.14	30.566	
9,000.00	7,005.42	7,134.50	6,969.95	116.85	31.77	-177.65	1,228.82	3,085.16	1,998.16	1,934.30	63.86	31.288	
9,104.89	7,081.95	7,212.53	7,047.98	118.44	31.99	-177.68	1,230.09	3,084.92	2,069.68	2,005.06	64.62	32.028	
9,150.00	7,115.15	7,245.21	7,080.65	119.12	32.08	173.61	1,230.62	3,084.82	2,100.11	2,035.18	64.93	32.344	
9,200.00	7,152.46	7,283.28	7,118.72	119.86	32.18	164.15	1,231.20	3,084.71	2,132.93	2,067.62	65.31	32.660	
9,250.00	7,190.04	7,322.72	7,158.15	120.57	32.29	155.03	1,231.75	3,084.64	2,164.56	2,098.84	65.71	32.940	
9,300.00	7,227.59	7,362.17	7,197.59	121.25	32.40	146.38	1,232.24	3,084.63	2,194.79	2,128.67	66.13	33.192	
9,350.00	7,264.83	7,399.82	7,235.24	121.89	32.51	138.29	1,232.66	3,084.66	2,223.49	2,156.97	66.52	33.426	
9,400.00	7,301.48	7,437.16	7,272.59	122.48	32.62	130.88	1,233.02	3,084.72	2,250.52	2,183.59	66.92	33.628	
9,450.00	7,337.26	7,470.97	7,306.40	123.01	32.71	124.15	1,233.28	3,084.79	2,275.80	2,208.50	67.29	33.819	
9,500.00	7,371.90	7,502.69	7,338.11	123.49	32.80	118.13	1,233.40	3,084.85	2,299.27	2,231.62	67.66	33.984	
9,550.00	7,405.13	7,533.25	7,368.67	123.91	32.88	112.85	1,233.40	3,084.90	2,320.88	2,252.84	68.04	34.110	
9,600.00	7,436.70	7,562.25	7,397.68	124.27	32.96	108.25	1,233.30	3,084.94	2,340.56	2,272.12	68.45	34.194	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	7,589.48	7,424.90	124.57	33.03	104.30	1,233.18	3,084.96	2,358.29	2,289.41	68.88	34.235	
9,700.00	7,493.91	7,614.80	7,450.22	124.81	33.10	100.94	1,233.05	3,084.95	2,374.04	2,304.68	69.36	34.228	
9,750.00	7,519.11	7,638.17	7,473.59	125.00	33.16	98.11	1,232.90	3,084.93	2,387.81	2,317.93	69.88	34.170	
9,800.00	7,541.79	7,661.95	7,497.37	125.12	33.22	95.83	1,232.72	3,084.90	2,399.57	2,329.07	70.50	34.038	
9,850.00	7,561.77	7,683.04	7,518.46	125.20	33.28	93.97	1,232.55	3,084.89	2,409.33	2,338.16	71.17	33.855	
9,900.00	7,578.90	7,701.27	7,536.69	125.23	33.32	92.51	1,232.39	3,084.88	2,417.11	2,345.21	71.89	33.621	
9,950.00	7,593.04	7,716.48	7,551.90	125.22	33.36	91.40	1,232.24	3,084.89	2,422.93	2,350.25	72.68	33.337	
10,000.00	7,604.09	7,728.54	7,563.96	125.17	33.39	90.62	1,232.12	3,084.89	2,426.82	2,353.29	73.53	33.005	
10,050.00	7,611.97	7,738.21	7,573.62	125.08	33.42	90.17	1,232.02	3,084.90	2,428.81	2,354.36	74.46	32.621	
10,100.00	7,616.61	7,744.51	7,579.92	124.97	33.44	90.00	1,231.95	3,084.91	2,428.92	2,353.47	75.44	32.195	
10,145.95	7,618.00	7,746.78	7,582.19	124.84	33.44	90.08	1,231.93	3,084.91	2,427.38	2,350.98	76.40	31.773	
10,200.00	7,618.00	7,747.46	7,582.87	124.69	33.44	90.09	1,231.92	3,084.91	2,425.25	2,347.68	77.57	31.265	
10,268.51	7,618.00	7,748.31	7,583.73	124.49	33.45	90.11	1,231.91	3,084.92	2,424.28	2,345.14	79.15	30.630	
10,300.00	7,618.00	7,748.71	7,584.12	124.41	33.45	90.12	1,231.91	3,084.92	2,424.49	2,344.60	79.89	30.348	
10,400.00	7,618.00	7,749.96	7,585.38	124.14	33.45	90.15	1,231.90	3,084.92	2,427.85	2,345.49	82.36	29.479	
10,500.00	7,618.00	7,751.21	7,586.62	123.88	33.45	90.18	1,231.88	3,084.92	2,435.31	2,350.37	84.94	28.672	
10,600.00	7,618.00	7,752.45	7,587.87	123.63	33.46	90.21	1,231.87	3,084.92	2,446.84	2,359.25	87.59	27.937	
10,700.00	7,618.00	7,753.69	7,589.11	123.40	33.46	90.24	1,231.86	3,084.93	2,462.38	2,372.11	90.26	27.279	
10,800.00	7,618.00	7,754.93	7,590.35	123.18	33.46	90.27	1,231.85	3,084.93	2,481.85	2,388.91	92.94	26.703	
10,900.00	7,618.00	7,756.17	7,591.58	122.96	33.47	90.30	1,231.83	3,084.93	2,505.17	2,409.57	95.60	26.206	
11,000.00	7,618.00	7,757.40	7,592.82	122.76	33.47	90.33	1,231.82	3,084.94	2,532.22	2,434.03	98.19	25.788	
11,100.00	7,618.00	7,758.63	7,594.05	122.57	33.47	90.36	1,231.81	3,084.94	2,562.90	2,462.18	100.72	25.445	
11,200.00	7,618.00	7,759.86	7,595.28	122.39	33.48	90.38	1,231.79	3,084.94	2,597.06	2,493.90	103.16	25.175	
11,300.00	7,618.00	7,761.09	7,596.50	122.23	33.48	90.41	1,231.78	3,084.95	2,634.58	2,529.07	105.50	24.972	
11,400.00	7,618.00	7,762.31	7,597.72	122.07	33.48	90.44	1,231.77	3,084.95	2,675.31	2,567.57	107.73	24.833	
11,500.00	7,618.00	7,763.53	7,598.94	121.93	33.49	90.47	1,231.76	3,084.95	2,719.10	2,609.25	109.85	24.752	
11,600.00	7,618.00	7,764.74	7,600.16	121.79	33.49	90.50	1,231.75	3,084.96	2,765.83	2,653.97	111.86	24.726	
11,700.00	7,618.00	7,765.96	7,601.37	121.67	33.49	90.53	1,231.73	3,084.96	2,815.33	2,701.58	113.74	24.752	
11,800.00	7,618.00	7,767.17	7,602.58	121.56	33.50	90.56	1,231.72	3,084.96	2,867.46	2,751.95	115.51	24.824	
11,900.00	7,618.00	7,768.38	7,603.79	121.46	33.50	90.59	1,231.71	3,084.97	2,922.08	2,804.91	117.17	24.939	
12,000.00	7,618.00	7,769.58	7,605.00	121.38	33.50	90.61	1,231.70	3,084.97	2,979.07	2,860.35	118.72	25.094	
12,100.00	7,618.00	7,770.79	7,606.20	121.30	33.51	90.64	1,231.68	3,084.98	3,038.27	2,918.11	120.16	25.286	
12,200.00	7,618.00	7,771.99	7,607.40	121.24	33.51	90.67	1,231.67	3,084.98	3,099.57	2,978.08	121.50	25.512	
12,300.00	7,618.00	7,773.18	7,608.60	121.19	33.51	90.70	1,231.66	3,084.99	3,162.85	3,040.11	122.74	25.769	
12,400.00	7,618.00	7,774.38	7,609.79	121.16	33.52	90.73	1,231.65	3,084.99	3,227.98	3,104.09	123.89	26.056	
12,500.00	7,618.00	7,775.57	7,610.98	121.14	33.52	90.76	1,231.64	3,085.00	3,294.86	3,169.90	124.95	26.369	
12,600.00	7,618.00	7,776.76	7,612.17	121.13	33.52	90.78	1,231.62	3,085.00	3,363.38	3,237.44	125.94	26.706	
12,700.00	7,618.00	7,777.95	7,613.36	121.13	33.53	90.81	1,231.61	3,085.00	3,433.45	3,306.60	126.85	27.067	
12,800.00	7,618.00	7,779.13	7,614.54	121.15	33.53	90.84	1,231.60	3,085.01	3,504.97	3,377.28	127.69	27.449	
12,900.00	7,618.00	7,780.31	7,615.73	121.18	33.53	90.87	1,231.59	3,085.01	3,577.85	3,449.39	128.47	27.851	
13,000.00	7,618.00	7,781.49	7,616.90	121.23	33.54	90.90	1,231.58	3,085.02	3,652.02	3,522.84	129.18	28.270	
13,100.00	7,618.00	7,782.67	7,618.08	121.29	33.54	90.92	1,231.56	3,085.02	3,727.40	3,597.56	129.84	28.707	
13,200.00	7,618.00	7,783.84	7,619.25	121.37	33.54	90.95	1,231.55	3,085.03	3,803.91	3,673.46	130.45	29.160	
13,300.00	7,618.00	7,785.01	7,620.42	121.46	33.55	90.98	1,231.54	3,085.04	3,881.49	3,750.48	131.01	29.627	
13,400.00	7,618.00	7,786.18	7,621.59	121.57	33.55	91.01	1,231.53	3,085.04	3,960.07	3,828.55	131.53	30.108	
13,500.00	7,618.00	7,787.34	7,622.76	121.70	33.55	91.03	1,231.52	3,085.05	4,039.60	3,907.60	132.00	30.602	
13,600.00	7,618.00	7,788.51	7,623.92	121.84	33.55	91.06	1,231.51	3,085.05	4,120.03	3,987.58	132.44	31.108	
13,700.00	7,618.00	7,789.67	7,625.08	122.01	33.56	91.09	1,231.50	3,085.06	4,201.29	4,068.44	132.85	31.625	
13,800.00	7,618.00	7,790.83	7,626.24	122.19	33.56	91.12	1,231.48	3,085.06	4,283.34	4,150.13	133.22	32.153	
13,900.00	7,618.00	7,791.98	7,627.39	122.39	33.56	91.14	1,231.47	3,085.07	4,366.15	4,232.59	133.56	32.690	
14,000.00	7,618.00	7,793.13	7,628.55	122.62	33.57	91.17	1,231.46	3,085.08	4,449.66	4,315.78	133.88	33.237	
14,100.00	7,618.00	7,794.28	7,629.70	122.86	33.57	91.20	1,231.45	3,085.08	4,533.84	4,399.67	134.17	33.792	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,200.00	7,618.00	7,795.43	7,630.84	123.12	33.57	91.23	1,231.44	3,085.09	4,618.64	4,484.21	134.44	34.355	
14,300.00	7,618.00	7,796.58	7,631.99	123.41	33.58	91.25	1,231.43	3,085.09	4,704.05	4,569.36	134.69	34.926	
14,400.00	7,618.00	7,797.72	7,633.13	123.72	33.58	91.28	1,231.42	3,085.10	4,790.02	4,655.10	134.91	35.504	
14,500.00	7,618.00	7,798.86	7,634.27	124.06	33.58	91.31	1,231.40	3,085.11	4,876.52	4,741.40	135.12	36.089	
14,600.00	7,618.00	7,800.00	7,635.41	124.42	33.59	91.33	1,231.39	3,085.11	4,963.53	4,828.22	135.32	36.680	
14,700.00	7,618.00	7,801.13	7,636.54	124.80	33.59	91.36	1,231.38	3,085.12	5,051.03	4,915.53	135.50	37.278	
14,800.00	7,618.00	7,802.26	7,637.68	125.21	33.59	91.39	1,231.37	3,085.13	5,138.97	5,003.31	135.66	37.881	
14,900.00	7,618.00	7,803.39	7,638.81	125.65	33.59	91.41	1,231.36	3,085.13	5,227.36	5,091.54	135.81	38.489	
15,000.00	7,618.00	7,804.52	7,639.93	126.11	33.60	91.44	1,231.35	3,085.14	5,316.15	5,180.19	135.95	39.103	
15,100.00	7,618.00	7,805.65	7,641.06	126.61	33.60	91.47	1,231.34	3,085.15	5,405.33	5,269.25	136.08	39.721	
15,200.00	7,618.00	7,806.77	7,642.18	127.13	33.60	91.49	1,231.33	3,085.15	5,494.89	5,358.69	136.20	40.344	
15,300.00	7,618.00	7,807.89	7,643.30	127.68	33.61	91.52	1,231.32	3,085.16	5,584.80	5,448.49	136.31	40.971	
15,400.00	7,618.00	7,809.01	7,644.42	128.26	33.61	91.55	1,231.31	3,085.17	5,675.05	5,538.63	136.41	41.602	
15,500.00	7,618.00	7,810.12	7,645.53	128.87	33.61	91.57	1,231.29	3,085.17	5,765.62	5,629.11	136.50	42.237	
15,600.00	7,618.00	7,811.23	7,646.65	129.51	33.62	91.60	1,231.28	3,085.18	5,856.49	5,719.90	136.59	42.876	
15,700.00	7,618.00	7,812.35	7,647.76	130.18	33.62	91.62	1,231.27	3,085.19	5,947.66	5,810.99	136.67	43.519	
15,800.00	7,618.00	7,813.45	7,648.87	130.88	33.62	91.65	1,231.26	3,085.20	6,039.11	5,902.37	136.74	44.164	
15,900.00	7,618.00	7,814.56	7,649.97	131.61	33.62	91.68	1,231.25	3,085.20	6,130.82	5,994.02	136.81	44.813	
16,000.00	7,618.00	7,815.66	7,651.07	132.37	33.63	91.70	1,231.24	3,085.21	6,222.80	6,085.92	136.87	45.465	
16,100.00	7,618.00	7,816.76	7,652.17	133.17	33.63	91.73	1,231.23	3,085.22	6,315.01	6,178.08	136.93	46.119	
16,200.00	7,618.00	7,817.86	7,653.27	133.99	33.63	91.76	1,231.22	3,085.23	6,407.46	6,270.48	136.98	46.777	
16,300.00	7,618.00	7,818.96	7,654.37	134.84	33.64	91.78	1,231.21	3,085.23	6,500.13	6,363.10	137.03	47.437	
16,400.00	7,618.00	7,820.05	7,655.46	135.72	33.64	91.81	1,231.20	3,085.24	6,593.01	6,455.94	137.07	48.099	
16,500.00	7,618.00	7,821.14	7,656.55	136.63	33.64	91.83	1,231.19	3,085.25	6,686.10	6,548.99	137.11	48.764	
16,600.00	7,618.00	7,822.23	7,657.64	137.57	33.65	91.86	1,231.18	3,085.26	6,779.39	6,642.24	137.15	49.431	
16,700.00	7,618.00	7,823.32	7,658.73	138.54	33.65	91.88	1,231.17	3,085.27	6,872.87	6,735.68	137.18	50.100	
16,800.00	7,618.00	7,824.40	7,659.81	139.53	33.65	91.91	1,231.16	3,085.27	6,966.52	6,829.31	137.21	50.771	
16,900.00	7,618.00	7,825.48	7,660.89	140.55	33.65	91.94	1,231.15	3,085.28	7,060.35	6,923.11	137.24	51.444	
17,000.00	7,618.00	7,826.56	7,661.97	141.60	33.66	91.96	1,231.14	3,085.29	7,154.35	7,017.08	137.27	52.119	
17,100.00	7,618.00	7,827.64	7,663.05	142.67	33.66	91.99	1,231.13	3,085.30	7,248.51	7,111.21	137.29	52.795	
17,200.00	7,618.00	7,828.72	7,664.13	143.77	33.66	92.01	1,231.12	3,085.31	7,342.82	7,205.50	137.32	53.474	
17,300.00	7,618.00	7,829.79	7,665.20	144.88	33.67	92.04	1,231.10	3,085.32	7,437.28	7,299.94	137.34	54.153	
17,400.00	7,618.00	7,830.86	7,666.27	146.02	33.67	92.06	1,231.09	3,085.32	7,531.88	7,394.53	137.36	54.835	
17,500.00	7,618.00	7,831.93	7,667.34	147.19	33.67	92.09	1,231.08	3,085.33	7,626.62	7,489.25	137.37	55.518	
17,600.00	7,618.00	7,832.99	7,668.40	148.37	33.67	92.11	1,231.07	3,085.34	7,721.50	7,584.11	137.39	56.202	
17,700.00	7,618.00	7,834.06	7,669.47	149.57	33.68	92.14	1,231.06	3,085.35	7,816.50	7,679.10	137.40	56.887	
17,800.00	7,618.00	7,835.12	7,670.53	150.79	33.68	92.16	1,231.05	3,085.36	7,911.62	7,774.21	137.42	57.574	
17,900.00	7,618.00	7,836.18	7,671.59	152.03	33.68	92.19	1,231.04	3,085.37	8,006.87	7,869.44	137.43	58.262	
18,000.00	7,618.00	7,837.23	7,672.64	153.29	33.69	92.21	1,231.03	3,085.38	8,102.22	7,964.79	137.44	58.951	
18,100.00	7,618.00	7,838.29	7,673.70	154.57	33.69	92.24	1,231.02	3,085.39	8,197.69	8,060.24	137.45	59.641	
18,200.00	7,618.00	7,839.34	7,674.75	155.86	33.69	92.26	1,231.01	3,085.40	8,293.27	8,155.81	137.46	60.333	
18,300.00	7,618.00	7,840.39	7,675.80	157.17	33.69	92.29	1,231.00	3,085.40	8,388.95	8,251.48	137.47	61.025	
18,400.00	7,618.00	7,825.00	7,660.41	158.49	33.65	91.92	1,231.15	3,085.28	8,484.74	8,347.30	137.44	61.735	
18,500.00	7,618.00	7,825.00	7,660.41	159.82	33.65	91.92	1,231.15	3,085.28	8,580.61	8,443.17	137.44	62.430	
18,600.00	7,618.00	7,825.00	7,660.41	161.17	33.65	91.92	1,231.15	3,085.28	8,676.58	8,539.13	137.45	63.126	
18,700.00	7,618.00	7,825.00	7,660.41	162.54	33.65	91.92	1,231.15	3,085.28	8,772.64	8,635.19	137.45	63.823	
18,800.00	7,618.00	7,825.00	7,660.41	163.91	33.65	91.92	1,231.15	3,085.28	8,868.79	8,731.33	137.46	64.521	
18,900.00	7,618.00	7,825.00	7,660.41	165.30	33.65	91.92	1,231.15	3,085.28	8,965.02	8,827.56	137.46	65.219	
19,000.00	7,618.00	7,825.00	7,660.41	166.70	33.65	91.92	1,231.15	3,085.28	9,061.33	8,923.86	137.46	65.918	
19,100.00	7,618.00	7,825.00	7,660.41	168.10	33.65	91.92	1,231.15	3,085.28	9,157.72	9,020.25	137.47	66.618	
19,200.00	7,618.00	7,825.00	7,660.41	169.52	33.65	91.92	1,231.15	3,085.28	9,254.18	9,116.72	137.47	67.318	
19,300.00	7,618.00	7,825.00	7,660.41	170.95	33.65	91.92	1,231.15	3,085.28	9,350.73	9,213.25	137.47	68.019	

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

Survey Program: 122-MWD OWSG

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
19,400.00	7,618.00	7,825.00	7,660.41	172.39	33.65	91.92	1,231.15	3,085.28	9,447.34	9,309.87	137.47	68.721	
19,500.00	7,618.00	7,825.00	7,660.41	173.84	33.65	91.92	1,231.15	3,085.28	9,544.02	9,406.55	137.48	69.423	
19,600.00	7,618.00	7,825.00	7,660.41	175.30	33.65	91.92	1,231.15	3,085.28	9,640.77	9,503.29	137.48	70.125	
19,700.00	7,618.00	7,825.00	7,660.41	176.76	33.65	91.92	1,231.15	3,085.28	9,737.59	9,600.11	137.48	70.828	
19,800.00	7,618.00	7,825.00	7,660.41	178.24	33.65	91.92	1,231.15	3,085.28	9,834.47	9,696.99	137.48	71.532	
19,896.19	7,618.00	7,825.00	7,660.41	179.66	33.65	91.92	1,231.15	3,085.28	9,927.72	9,790.23	137.49	72.209	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	69.79	754.16	2,048.72	2,183.48				
100.00	100.00	81.13	81.13	0.13	0.13	69.80	753.83	2,048.42	2,182.83	2,182.56	0.26	8,310.416	
200.00	200.00	167.71	167.71	0.49	0.41	69.80	753.41	2,047.88	2,182.08	2,181.18	0.91	2,408.555	
300.00	299.98	276.40	276.40	0.85	0.80	0.47	753.71	2,047.25	2,179.90	2,178.26	1.65	1,323.199	
400.00	399.84	382.53	382.52	1.21	1.18	0.47	753.63	2,046.34	2,173.84	2,171.45	2.39	910.487	
500.00	499.45	536.42	536.34	1.58	1.73	0.55	749.81	2,044.36	2,163.20	2,159.89	3.30	654.632	
600.00	598.70	660.66	660.25	1.97	2.18	0.75	741.43	2,041.60	2,146.58	2,142.46	4.12	520.797	
700.00	697.47	739.82	738.99	2.38	2.47	0.96	733.26	2,040.95	2,126.72	2,121.95	4.78	445.018	
800.00	795.62	817.82	816.33	2.83	2.77	1.25	723.21	2,041.77	2,104.36	2,098.91	5.45	386.458	
900.00	893.06	874.53	872.37	3.31	3.00	1.51	714.74	2,043.56	2,079.96	2,073.92	6.04	344.194	
1,000.00	989.64	920.00	917.20	3.83	3.18	1.75	707.57	2,046.02	2,054.24	2,047.63	6.60	311.146	
1,100.00	1,085.27	988.24	984.24	4.40	3.47	2.16	696.01	2,051.31	2,026.96	2,019.69	7.28	278.606	
1,200.00	1,179.82	1,041.52	1,036.34	5.02	3.70	2.53	686.27	2,056.75	1,998.28	1,990.38	7.89	253.152	
1,300.00	1,273.17	1,090.62	1,084.16	5.70	3.91	2.91	677.04	2,062.97	1,968.50	1,959.99	8.51	231.294	
1,400.00	1,365.21	1,147.01	1,138.87	6.43	4.17	3.38	666.31	2,071.42	1,937.60	1,928.42	9.18	211.111	
1,500.00	1,455.84	1,212.23	1,202.04	7.23	4.47	3.94	654.18	2,082.17	1,905.15	1,895.26	9.90	192.480	
1,600.00	1,544.94	1,279.00	1,266.78	8.09	4.79	4.53	642.57	2,093.67	1,870.74	1,860.10	10.64	175.879	
1,700.00	1,632.39	1,348.06	1,333.66	9.01	5.12	5.18	630.89	2,106.32	1,834.44	1,823.04	11.40	160.898	
1,800.00	1,718.11	1,415.98	1,399.16	10.00	5.47	5.88	619.05	2,119.84	1,796.46	1,784.28	12.18	147.545	
1,900.00	1,801.97	1,492.58	1,472.66	11.07	5.87	6.77	604.84	2,136.05	1,756.52	1,743.50	13.02	134.914	
2,000.00	1,883.88	1,583.20	1,559.48	12.20	6.37	7.91	587.39	2,155.31	1,713.82	1,699.85	13.96	122.758	
2,100.00	1,963.74	1,663.50	1,636.39	13.41	6.82	9.04	571.94	2,172.46	1,668.56	1,653.69	14.87	112.227	
2,200.00	2,041.45	1,755.77	1,724.85	14.69	7.34	10.45	554.34	2,191.94	1,620.59	1,604.74	15.86	102.196	
2,300.00	2,116.92	1,822.97	1,789.27	16.05	7.73	11.65	541.66	2,206.24	1,570.33	1,553.59	16.74	93.808	
2,357.48	2,159.25	1,870.83	1,835.13	16.86	8.00	12.54	532.74	2,216.63	1,540.60	1,523.29	17.31	89.000	
2,400.00	2,190.27	1,915.31	1,877.80	17.47	8.26	13.26	524.48	2,226.03	1,518.19	1,500.40	17.78	85.370	
2,500.00	2,263.22	1,994.57	1,953.97	18.92	8.72	14.60	509.76	2,242.34	1,465.50	1,446.72	18.79	78.003	
2,600.00	2,336.18	2,064.42	2,021.00	20.37	9.13	15.86	496.77	2,257.03	1,413.90	1,394.11	19.79	71.450	
2,700.00	2,409.14	2,133.82	2,087.48	21.84	9.54	17.18	483.76	2,272.16	1,363.72	1,342.88	20.84	65.438	
2,800.00	2,482.09	2,233.59	2,182.91	23.31	10.14	19.26	463.98	2,293.48	1,314.07	1,291.94	22.14	59.363	
2,900.00	2,555.05	2,313.75	2,259.61	24.78	10.62	21.07	447.56	2,310.00	1,264.90	1,241.49	23.40	54.044	
3,000.00	2,628.01	2,382.51	2,325.45	26.27	11.04	22.71	433.83	2,324.31	1,217.09	1,192.41	24.68	49.317	
3,100.00	2,700.96	2,459.85	2,399.52	27.75	11.51	24.62	419.06	2,340.91	1,171.10	1,145.01	26.09	44.889	
3,200.00	2,773.92	2,540.78	2,477.03	29.24	12.00	26.76	403.29	2,358.07	1,126.39	1,098.76	27.63	40.765	
3,300.00	2,846.88	2,618.11	2,550.95	30.73	12.47	28.97	387.55	2,374.41	1,083.40	1,054.12	29.28	37.006	
3,400.00	2,919.83	2,697.76	2,627.14	32.23	12.96	31.37	371.54	2,391.26	1,042.32	1,011.26	31.06	33.553	
3,500.00	2,992.79	2,776.24	2,702.30	33.72	13.44	33.84	356.33	2,407.94	1,003.33	970.37	32.97	30.436	
3,600.00	3,065.75	2,856.68	2,779.39	35.22	13.93	36.50	340.98	2,425.05	966.64	931.62	35.02	27.602	
3,700.00	3,138.71	2,945.80	2,864.86	36.72	14.47	39.65	323.74	2,443.49	932.19	894.88	37.32	24.979	
3,800.00	3,211.66	3,023.16	2,939.21	38.22	14.94	42.53	308.78	2,458.70	899.91	860.26	39.65	22.694	
3,900.00	3,284.62	3,094.27	3,007.47	39.72	15.37	45.27	295.44	2,473.55	871.59	829.56	42.04	20.734	
4,000.00	3,357.58	3,172.02	3,081.99	41.22	15.84	48.39	280.41	2,489.86	847.12	802.50	44.62	18.985	
4,100.00	3,430.53	3,256.96	3,163.47	42.73	16.36	51.93	264.10	2,507.47	826.31	778.90	47.41	17.429	
4,200.00	3,503.49	3,336.47	3,239.85	44.23	16.84	55.33	249.36	2,523.87	809.29	759.09	50.20	16.122	
4,300.00	3,576.45	3,414.36	3,314.68	45.74	17.31	58.73	234.86	2,539.92	796.71	743.70	53.01	15.029	
4,400.00	3,649.40	3,488.50	3,385.85	47.25	17.76	62.03	220.93	2,555.32	788.95	733.19	55.76	14.148	
4,491.70	3,716.31	3,554.45	3,449.01	48.63	18.16	65.01	207.76	2,568.99	786.67	728.44	58.22	13.512 CC	
4,500.00	3,722.36	3,561.11	3,455.38	48.75	18.20	65.31	206.41	2,570.37	786.68	728.23	58.45	13.458	
4,600.00	3,795.32	3,642.43	3,533.22	50.26	18.71	68.98	190.25	2,587.50	789.41	728.19	61.22	12.896 ES	
4,700.00	3,868.27	3,733.38	3,620.48	51.77	19.26	73.01	173.21	2,606.65	796.15	732.11	64.04	12.432	
4,800.00	3,941.23	3,800.89	3,685.25	53.28	19.68	75.95	160.61	2,620.92	807.49	741.22	66.27	12.185	
4,900.00	4,014.19	3,878.69	3,759.72	54.79	20.16	79.29	145.34	2,637.50	824.03	755.50	68.53	12.024	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,087.15	3,958.68	3,836.40	56.30	20.65	82.64	129.74	2,654.06	844.51	773.84	70.66	11.951 SF	
5,100.00	4,160.10	4,036.26	3,910.65	57.81	21.13	85.75	114.77	2,670.85	868.97	796.41	72.56	11.975	
5,200.00	4,233.06	4,115.38	3,986.39	59.32	21.62	88.80	99.34	2,687.73	897.07	822.74	74.33	12.069	
5,300.00	4,306.02	4,222.04	4,088.88	60.83	22.27	92.71	80.16	2,710.15	927.17	850.65	76.52	12.116	
5,400.00	4,378.97	4,285.43	4,149.80	62.34	22.65	94.92	68.87	2,723.58	960.00	882.34	77.66	12.361	
5,500.00	4,451.93	4,355.14	4,216.70	63.85	23.08	97.25	55.88	2,738.24	996.20	917.40	78.80	12.642	
5,600.00	4,524.89	4,427.90	4,286.47	65.36	23.53	99.57	41.68	2,753.25	1,035.47	955.57	79.90	12.960	
5,700.00	4,597.84	4,502.01	4,357.24	66.88	23.99	101.76	27.03	2,769.62	1,077.05	996.09	80.96	13.304	
5,800.00	4,670.80	4,564.63	4,416.90	68.39	24.40	103.51	13.98	2,783.48	1,121.28	1,039.60	81.69	13.727	
5,900.00	4,743.76	4,634.71	4,483.51	69.90	24.86	105.37	-1.42	2,798.86	1,168.03	1,085.48	82.55	14.150	
6,000.00	4,816.71	4,736.97	4,580.69	71.41	25.52	107.89	-23.68	2,821.60	1,216.10	1,131.96	84.14	14.453	
6,100.00	4,889.67	4,826.31	4,666.39	72.93	26.07	110.01	-40.88	2,840.05	1,263.54	1,178.20	85.33	14.807	
6,200.00	4,962.63	4,908.68	4,745.67	74.44	26.56	111.89	-56.42	2,856.12	1,312.11	1,225.80	86.30	15.203	
6,300.00	5,035.59	5,000.37	4,834.41	75.95	27.08	113.92	-72.73	2,872.44	1,361.33	1,273.94	87.38	15.579	
6,400.00	5,108.54	5,108.71	4,940.06	77.47	27.66	116.28	-89.62	2,889.43	1,410.50	1,321.85	88.64	15.912	
6,500.00	5,181.50	5,242.72	5,071.77	78.98	28.29	119.10	-105.48	2,908.24	1,458.36	1,368.26	90.11	16.185	
6,600.00	5,254.46	5,324.72	5,153.02	80.49	28.62	120.85	-112.34	2,916.89	1,505.67	1,415.06	90.61	16.617	
6,700.00	5,327.41	5,411.99	5,239.82	82.01	28.94	122.71	-118.31	2,923.68	1,553.85	1,462.80	91.05	17.066	
6,800.00	5,400.37	5,501.72	5,329.30	83.52	29.23	124.62	-122.75	2,928.53	1,602.64	1,511.25	91.39	17.536	
6,900.00	5,473.33	5,597.81	5,425.31	85.04	29.51	126.65	-125.36	2,931.40	1,651.88	1,560.23	91.66	18.023	
7,000.00	5,546.28	5,680.80	5,508.28	86.55	29.73	128.37	-126.21	2,932.99	1,701.57	1,609.82	91.74	18.547	
7,100.00	5,619.24	5,756.74	5,584.22	88.06	29.92	129.89	-126.41	2,933.76	1,752.26	1,660.53	91.73	19.101	
7,200.00	5,692.20	5,828.10	5,655.57	89.58	30.09	131.28	-126.34	2,934.06	1,804.06	1,712.39	91.67	19.680	
7,300.00	5,765.15	5,892.74	5,720.22	91.09	30.24	132.50	-126.39	2,934.10	1,857.15	1,765.61	91.55	20.287	
7,400.00	5,838.11	5,979.88	5,807.35	92.61	30.44	134.06	-126.42	2,934.17	1,911.19	1,819.61	91.58	20.870	
7,500.00	5,911.07	6,050.11	5,877.58	94.12	30.60	135.27	-126.09	2,934.36	1,965.74	1,874.24	91.50	21.485	
7,600.00	5,984.03	6,115.62	5,943.09	95.64	30.74	136.36	-125.82	2,934.09	2,021.41	1,930.03	91.37	22.122	
7,700.00	6,056.98	6,183.73	6,011.21	97.15	30.89	137.45	-125.65	2,933.66	2,078.05	1,986.77	91.28	22.767	
7,800.00	6,129.94	6,266.81	6,094.28	98.67	31.08	138.72	-125.47	2,933.33	2,135.31	2,044.01	91.30	23.387	
7,900.00	6,202.90	6,336.70	6,164.17	100.18	31.23	139.74	-125.29	2,933.31	2,193.04	2,101.78	91.26	24.030	
8,000.00	6,275.85	6,403.61	6,231.08	101.70	31.39	140.67	-125.25	2,933.17	2,251.56	2,160.35	91.21	24.685	
8,100.00	6,348.81	6,471.79	6,299.25	103.21	31.54	141.60	-125.03	2,932.54	2,310.81	2,219.64	91.17	25.346	
8,200.00	6,421.77	6,600.90	6,428.34	104.73	31.84	143.25	-123.41	2,932.94	2,369.28	2,277.67	91.61	25.864	
8,300.00	6,494.72	6,668.81	6,496.25	106.24	32.01	144.06	-122.65	2,933.98	2,427.91	2,336.26	91.65	26.491	
8,400.00	6,567.68	6,730.14	6,557.57	107.76	32.17	144.76	-122.19	2,934.81	2,487.26	2,395.60	91.66	27.136	
8,500.00	6,640.64	8,500.00	6,655.13	109.27	36.89	145.81	-121.35	2,936.64	2,546.63	2,450.17	96.47	26.399	
8,600.00	6,713.59	6,894.83	6,722.21	110.79	32.60	146.50	-120.67	2,938.32	2,606.05	2,513.96	92.09	28.300	
8,700.00	6,786.55	6,940.00	6,767.38	112.30	32.72	146.96	-120.40	2,938.82	2,666.67	2,574.65	92.01	28.981	
8,800.00	6,859.51	6,989.05	6,816.42	113.82	32.84	147.45	-120.32	2,938.88	2,728.34	2,636.38	91.96	29.668	
8,900.00	6,932.46	7,046.39	6,873.76	115.33	32.98	148.01	-120.49	2,938.68	2,790.83	2,698.84	91.99	30.338	
9,000.00	7,005.42	7,123.51	6,950.88	116.85	33.17	148.74	-120.59	2,938.13	2,853.70	2,761.52	92.19	30.956	
9,104.89	7,081.95	7,204.49	7,031.86	118.44	33.36	149.48	-120.31	2,937.38	2,919.82	2,827.43	92.39	31.602	
9,150.00	7,115.15	7,240.95	7,068.31	119.12	33.45	142.70	-120.06	2,937.00	2,947.29	2,854.81	92.48	31.869	
9,200.00	7,152.46	7,283.16	7,110.52	119.86	33.54	135.38	-119.62	2,936.49	2,975.26	2,882.71	92.56	32.146	
9,250.00	7,190.04	7,325.53	7,152.88	120.57	33.64	128.31	-119.00	2,935.92	3,000.49	2,907.90	92.59	32.405	
9,300.00	7,227.59	7,358.55	7,185.90	121.25	33.72	121.47	-118.65	2,935.59	3,022.92	2,930.39	92.53	32.669	
9,350.00	7,264.83	7,393.46	7,220.81	121.89	33.81	115.10	-118.47	2,935.38	3,042.46	2,950.01	92.45	32.908	
9,400.00	7,301.48	7,426.43	7,253.78	122.48	33.89	109.25	-118.46	2,935.29	3,059.04	2,966.71	92.33	33.131	
9,450.00	7,337.26	7,456.99	7,284.34	123.01	33.96	103.99	-118.44	2,935.14	3,072.64	2,980.49	92.15	33.345	
9,500.00	7,371.90	7,486.36	7,313.71	123.49	34.03	99.36	-118.38	2,934.90	3,083.22	2,991.31	91.91	33.545	
9,550.00	7,405.13	7,520.05	7,347.40	123.91	34.12	95.47	-118.28	2,934.53	3,090.77	2,999.09	91.68	33.714	
9,600.00	7,436.70	7,561.46	7,388.80	124.27	34.22	92.35	-118.15	2,934.20	3,095.18	3,003.71	91.47	33.836	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	7,600.66	7,428.00	124.57	34.31	89.84	-118.03	2,934.06	3,096.47	3,005.25	91.22	33.944	
9,700.00	7,493.91	7,631.14	7,458.48	124.81	34.39	87.81	-117.91	2,934.01	3,094.74	3,003.88	90.86	34.060	
9,750.00	7,519.11	7,659.31	7,486.65	125.00	34.46	86.31	-117.78	2,933.97	3,090.08	2,999.63	90.45	34.163	
9,800.00	7,541.79	7,684.53	7,511.87	125.12	34.52	85.32	-117.62	2,933.95	3,082.58	2,992.59	89.99	34.255	
9,850.00	7,561.77	7,706.62	7,533.96	125.20	34.58	84.80	-117.47	2,933.94	3,072.35	2,982.87	89.48	34.336	
9,900.00	7,578.90	7,719.84	7,547.18	125.23	34.62	84.61	-117.42	2,933.95	3,059.52	2,970.65	88.87	34.425	
9,950.00	7,593.04	7,732.86	7,560.20	125.22	34.65	84.91	-117.38	2,933.96	3,044.20	2,955.94	88.26	34.491	
10,000.00	7,604.09	7,743.13	7,570.47	125.17	34.68	85.63	-117.36	2,933.98	3,026.49	2,938.87	87.62	34.541	
10,050.00	7,611.97	7,750.51	7,577.85	125.08	34.70	86.76	-117.35	2,933.99	3,006.54	2,919.57	86.96	34.572	
10,100.00	7,616.61	7,754.90	7,582.24	124.97	34.71	88.32	-117.35	2,934.00	2,984.47	2,898.17	86.30	34.584	
10,145.95	7,618.00	7,756.23	7,583.57	124.84	34.71	90.12	-117.35	2,934.00	2,962.43	2,876.75	85.68	34.575	
10,200.00	7,618.00	7,756.25	7,583.58	124.69	34.71	90.12	-117.35	2,934.00	2,935.94	2,850.98	84.96	34.555	
10,300.00	7,618.00	7,756.27	7,583.61	124.41	34.71	90.13	-117.35	2,934.00	2,888.96	2,805.30	83.67	34.530	
10,400.00	7,618.00	7,756.30	7,583.64	124.14	34.72	90.13	-117.35	2,934.00	2,844.72	2,762.29	82.43	34.511	
10,500.00	7,618.00	7,756.33	7,583.67	123.88	34.72	90.13	-117.35	2,934.00	2,803.35	2,722.08	81.28	34.491	
10,600.00	7,618.00	7,756.36	7,583.70	123.63	34.72	90.13	-117.35	2,934.00	2,764.98	2,684.75	80.23	34.461	
10,700.00	7,618.00	7,756.39	7,583.73	123.40	34.72	90.13	-117.35	2,934.00	2,729.74	2,650.41	79.33	34.410	
10,800.00	7,618.00	7,756.42	7,583.76	123.18	34.72	90.13	-117.35	2,934.00	2,697.74	2,619.16	78.59	34.328	
10,900.00	7,618.00	7,756.45	7,583.79	122.96	34.72	90.13	-117.35	2,934.00	2,669.11	2,591.08	78.04	34.203	
11,000.00	7,618.00	7,756.49	7,583.83	122.76	34.72	90.13	-117.35	2,934.00	2,643.96	2,566.26	77.70	34.027	
11,100.00	7,618.00	7,756.52	7,583.86	122.57	34.72	90.13	-117.35	2,934.00	2,622.38	2,544.78	77.59	33.797	
11,200.00	7,618.00	7,756.56	7,583.90	122.39	34.72	90.13	-117.35	2,934.00	2,604.46	2,526.73	77.73	33.508	
11,300.00	7,618.00	7,756.59	7,583.93	122.23	34.72	90.13	-117.35	2,934.00	2,590.28	2,512.18	78.10	33.166	
11,400.00	7,618.00	7,756.63	7,583.97	122.07	34.72	90.13	-117.35	2,934.00	2,579.90	2,501.19	78.71	32.776	
11,500.00	7,618.00	7,756.66	7,584.00	121.93	34.72	90.13	-117.35	2,934.00	2,573.37	2,493.82	79.55	32.350	
11,600.00	7,618.00	7,756.70	7,584.04	121.79	34.72	90.13	-117.35	2,934.00	2,570.72	2,490.13	80.59	31.899	
11,618.28	7,618.00	7,756.71	7,584.05	121.77	34.72	90.13	-117.35	2,934.00	2,570.65	2,489.85	80.80	31.814	
11,700.00	7,618.00	7,756.74	7,584.08	121.67	34.72	90.14	-117.35	2,934.00	2,571.95	2,490.14	81.81	31.438	
11,800.00	7,618.00	7,756.78	7,584.12	121.56	34.72	90.14	-117.35	2,934.00	2,577.07	2,493.88	83.18	30.980	
11,900.00	7,618.00	7,756.82	7,584.16	121.46	34.72	90.14	-117.35	2,934.00	2,586.04	2,501.36	84.68	30.537	
12,000.00	7,618.00	7,756.86	7,584.20	121.38	34.72	90.14	-117.35	2,934.00	2,598.84	2,512.55	86.28	30.120	
12,100.00	7,618.00	7,756.91	7,584.25	121.30	34.72	90.14	-117.35	2,934.00	2,615.40	2,527.44	87.95	29.736	
12,200.00	7,618.00	7,756.95	7,584.29	121.24	34.72	90.14	-117.35	2,934.00	2,635.65	2,545.98	89.67	29.393	
12,300.00	7,618.00	7,757.00	7,584.34	121.19	34.72	90.14	-117.35	2,934.00	2,659.51	2,568.10	91.41	29.093	
12,400.00	7,618.00	7,757.05	7,584.39	121.16	34.72	90.14	-117.35	2,934.00	2,686.88	2,593.72	93.16	28.841	
12,500.00	7,618.00	7,757.09	7,584.43	121.14	34.72	90.14	-117.35	2,934.00	2,717.66	2,622.76	94.90	28.637	
12,600.00	7,618.00	7,757.15	7,584.48	121.13	34.72	90.14	-117.35	2,934.00	2,751.73	2,655.12	96.61	28.482	
12,700.00	7,618.00	7,757.20	7,584.54	121.13	34.72	90.15	-117.35	2,934.00	2,788.97	2,690.68	98.29	28.375	
12,800.00	7,618.00	7,757.25	7,584.59	121.15	34.72	90.15	-117.35	2,934.00	2,829.26	2,729.34	99.92	28.315	
12,900.00	7,618.00	7,757.30	7,584.64	121.18	34.72	90.15	-117.35	2,934.01	2,872.47	2,770.97	101.50	28.300	
13,000.00	7,618.00	7,757.36	7,584.70	121.23	34.72	90.15	-117.35	2,934.01	2,918.46	2,815.44	103.02	28.328	
13,100.00	7,618.00	7,757.42	7,584.76	121.29	34.72	90.15	-117.35	2,934.01	2,967.11	2,862.63	104.49	28.397	
13,200.00	7,618.00	7,757.48	7,584.82	121.37	34.72	90.15	-117.35	2,934.01	3,018.29	2,912.41	105.88	28.506	
13,300.00	7,618.00	7,757.54	7,584.88	121.46	34.72	90.15	-117.35	2,934.01	3,071.88	2,964.66	107.22	28.650	
13,400.00	7,618.00	7,757.61	7,584.95	121.57	34.72	90.15	-117.35	2,934.01	3,127.74	3,019.25	108.49	28.830	
13,500.00	7,618.00	7,757.67	7,585.01	121.70	34.72	90.16	-117.35	2,934.01	3,185.77	3,076.07	109.70	29.041	
13,600.00	7,618.00	7,757.74	7,585.08	121.84	34.72	90.16	-117.35	2,934.01	3,245.84	3,135.00	110.84	29.283	
13,700.00	7,618.00	7,757.81	7,585.15	122.01	34.72	90.16	-117.36	2,934.01	3,307.84	3,195.92	111.93	29.554	
13,800.00	7,618.00	7,757.89	7,585.23	122.19	34.72	90.16	-117.36	2,934.01	3,371.67	3,258.72	112.95	29.851	
13,900.00	7,618.00	7,757.97	7,585.31	122.39	34.72	90.16	-117.36	2,934.01	3,437.22	3,323.30	113.92	30.172	
14,000.00	7,618.00	7,758.05	7,585.38	122.62	34.72	90.16	-117.36	2,934.01	3,504.40	3,389.57	114.83	30.517	
14,100.00	7,618.00	7,758.13	7,585.47	122.86	34.72	90.17	-117.36	2,934.01	3,573.12	3,457.42	115.70	30.883	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,200.00	7,618.00	7,758.21	7,585.55	123.12	34.72	90.17	-117.36	2,934.01	3,643.29	3,526.78	116.51	31.270	
14,300.00	7,618.00	7,758.30	7,585.64	123.41	34.72	90.17	-117.36	2,934.01	3,714.82	3,597.54	117.28	31.675	
14,400.00	7,618.00	7,758.40	7,585.74	123.72	34.72	90.17	-117.36	2,934.01	3,787.64	3,669.64	118.00	32.099	
14,500.00	7,618.00	7,758.49	7,585.83	124.06	34.72	90.17	-117.36	2,934.01	3,861.68	3,743.00	118.68	32.538	
14,600.00	7,618.00	7,758.59	7,585.93	124.42	34.72	90.18	-117.36	2,934.01	3,936.87	3,817.54	119.32	32.994	
14,700.00	7,618.00	7,758.70	7,586.04	124.80	34.72	90.18	-117.36	2,934.01	4,013.14	3,893.21	119.93	33.463	
14,800.00	7,618.00	7,758.81	7,586.15	125.21	34.72	90.18	-117.36	2,934.01	4,090.43	3,969.93	120.50	33.946	
14,900.00	7,618.00	7,758.93	7,586.27	125.65	34.72	90.18	-117.36	2,934.01	4,168.69	4,047.65	121.03	34.442	
15,000.00	7,618.00	7,759.05	7,586.39	126.11	34.72	90.19	-117.36	2,934.01	4,247.86	4,126.32	121.54	34.950	
15,100.00	7,618.00	7,759.17	7,586.51	126.61	34.72	90.19	-117.36	2,934.01	4,327.89	4,205.87	122.02	35.469	
15,200.00	7,618.00	7,759.31	7,586.64	127.13	34.72	90.19	-117.36	2,934.01	4,408.74	4,286.27	122.47	35.999	
15,300.00	7,618.00	7,759.44	7,586.78	127.68	34.72	90.20	-117.36	2,934.01	4,490.36	4,367.47	122.89	36.538	
15,400.00	7,618.00	7,759.59	7,586.93	128.26	34.72	90.20	-117.36	2,934.01	4,572.71	4,449.41	123.30	37.087	
15,500.00	7,618.00	7,759.74	7,587.08	128.87	34.72	90.20	-117.36	2,934.01	4,655.75	4,532.08	123.68	37.645	
15,600.00	7,618.00	7,759.91	7,587.25	129.51	34.72	90.21	-117.36	2,934.01	4,739.45	4,615.41	124.03	38.211	
15,700.00	7,618.00	7,760.08	7,587.42	130.18	34.73	90.21	-117.36	2,934.01	4,823.77	4,699.39	124.37	38.784	
15,800.00	7,618.00	7,760.26	7,587.60	130.88	34.73	90.21	-117.36	2,934.01	4,908.67	4,783.98	124.70	39.365	
15,900.00	7,618.00	7,760.45	7,587.79	131.61	34.73	90.22	-117.36	2,934.01	4,994.14	4,869.14	125.00	39.953	
16,000.00	7,618.00	7,760.65	7,587.99	132.37	34.73	90.22	-117.36	2,934.01	5,080.13	4,954.84	125.29	40.547	
16,100.00	7,618.00	7,760.87	7,588.21	133.17	34.73	90.23	-117.36	2,934.01	5,166.63	5,041.07	125.56	41.148	
16,200.00	7,618.00	7,761.10	7,588.44	133.99	34.73	90.23	-117.36	2,934.01	5,253.61	5,127.79	125.82	41.754	
16,300.00	7,618.00	7,761.34	7,588.68	134.84	34.73	90.24	-117.36	2,934.02	5,341.05	5,214.98	126.07	42.366	
16,400.00	7,618.00	7,761.60	7,588.94	135.72	34.73	90.24	-117.36	2,934.02	5,428.92	5,302.61	126.30	42.984	
16,500.00	7,618.00	7,761.88	7,589.22	136.63	34.73	90.25	-117.36	2,934.02	5,517.20	5,390.67	126.52	43.606	
16,600.00	7,618.00	7,762.18	7,589.52	137.57	34.73	90.26	-117.36	2,934.02	5,605.87	5,479.14	126.74	44.232	
16,700.00	7,618.00	7,762.51	7,589.85	138.54	34.73	90.26	-117.36	2,934.02	5,694.92	5,567.98	126.94	44.864	
16,800.00	7,618.00	7,762.86	7,590.20	139.53	34.73	90.27	-117.36	2,934.02	5,784.33	5,657.20	127.13	45.499	
16,900.00	7,618.00	7,763.24	7,590.58	140.55	34.73	90.28	-117.36	2,934.02	5,874.08	5,746.77	127.31	46.138	
17,000.00	7,618.00	7,763.65	7,590.99	141.60	34.73	90.29	-117.36	2,934.02	5,964.16	5,836.67	127.49	46.782	
17,100.00	7,618.00	7,764.10	7,591.44	142.67	34.74	90.30	-117.36	2,934.02	6,054.55	5,926.89	127.66	47.428	
17,200.00	7,618.00	7,764.59	7,591.93	143.77	34.74	90.31	-117.36	2,934.02	6,145.23	6,017.41	127.82	48.078	
17,300.00	7,618.00	7,765.13	7,592.47	144.88	34.74	90.32	-117.36	2,934.03	6,236.20	6,108.23	127.97	48.732	
17,400.00	7,618.00	7,765.73	7,593.06	146.02	34.74	90.34	-117.36	2,934.03	6,327.44	6,199.33	128.12	49.388	
17,500.00	7,618.00	7,766.39	7,593.73	147.19	34.74	90.35	-117.36	2,934.03	6,418.95	6,290.69	128.26	50.047	
17,600.00	7,618.00	7,767.13	7,594.47	148.37	34.74	90.37	-117.36	2,934.03	6,510.70	6,382.31	128.39	50.709	
17,700.00	7,618.00	7,767.96	7,595.30	149.57	34.75	90.39	-117.37	2,934.03	6,602.70	6,474.17	128.52	51.374	
17,800.00	7,618.00	7,768.90	7,596.24	150.79	34.75	90.41	-117.37	2,934.04	6,694.92	6,566.27	128.65	52.040	
17,900.00	7,618.00	7,769.98	7,597.32	152.03	34.75	90.43	-117.37	2,934.04	6,787.36	6,658.59	128.77	52.709	
18,000.00	7,618.00	7,771.22	7,598.56	153.29	34.75	90.46	-117.37	2,934.04	6,880.02	6,751.13	128.89	53.381	
18,100.00	7,618.00	7,772.66	7,600.00	154.57	34.76	90.49	-117.37	2,934.05	6,972.87	6,843.87	129.00	54.054	
18,200.00	7,618.00	7,774.37	7,601.71	155.86	34.76	90.53	-117.38	2,934.05	7,065.92	6,936.82	129.11	54.728	
18,300.00	7,618.00	7,776.41	7,603.75	157.17	34.77	90.57	-117.38	2,934.06	7,159.16	7,029.95	129.22	55.404	
18,400.00	7,618.00	7,778.90	7,606.24	158.49	34.78	90.63	-117.39	2,934.07	7,252.58	7,123.26	129.32	56.082	
18,500.00	7,618.00	7,782.01	7,609.35	159.82	34.78	90.70	-117.40	2,934.08	7,346.18	7,216.75	129.43	56.760	
18,600.00	7,618.00	7,785.99	7,613.33	161.17	34.79	90.79	-117.41	2,934.09	7,439.94	7,310.41	129.53	57.438	
18,700.00	7,618.00	7,791.28	7,618.62	162.54	34.81	90.91	-117.44	2,934.11	7,533.86	7,404.22	129.63	58.116	
18,800.00	7,618.00	7,798.64	7,625.98	163.91	34.83	91.07	-117.47	2,934.14	7,627.93	7,498.19	129.74	58.793	
18,900.00	7,618.00	18,900.00	7,570.13	165.30	65.81	89.82	-117.48	2,934.02	7,722.03	7,558.75	163.28	47.293	
19,000.00	7,618.00	19,000.00	7,569.97	166.70	66.09	89.82	-117.48	2,934.02	7,816.40	7,652.75	163.64	47.764	
19,100.00	7,618.00	19,100.00	7,569.81	168.10	66.38	89.82	-117.48	2,934.02	7,910.90	7,746.90	164.01	48.235	
19,200.00	7,618.00	7,787.99	7,615.33	169.52	34.80	90.83	-117.42	2,934.10	8,005.66	7,875.65	130.01	61.575	
19,300.00	7,618.00	7,788.32	7,615.66	170.95	34.80	90.84	-117.42	2,934.10	8,100.43	7,970.34	130.09	62.269	

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

Survey Program: 91-MWD OWSG

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
19,400.00	7,618.00	7,788.66	7,615.99	172.39	34.80	90.85	-117.42	2,934.10	8,195.32	8,065.16	130.16	62.965	
19,500.00	7,618.00	19,500.00	7,569.15	173.84	67.52	89.80	-117.49	2,934.02	8,290.22	8,124.78	165.44	50.111	
19,600.00	7,618.00	19,600.00	7,568.99	175.30	67.80	89.80	-117.49	2,934.02	8,385.34	8,219.55	165.79	50.578	
19,700.00	7,618.00	19,700.00	7,568.83	176.76	68.09	89.80	-117.49	2,934.02	8,480.59	8,314.44	166.14	51.044	
19,800.00	7,618.00	19,800.00	7,568.67	178.24	68.37	89.79	-117.49	2,934.02	8,575.93	8,409.44	166.49	51.510	
19,896.19	7,618.00	19,896.19	7,568.51	179.66	68.65	89.79	-117.49	2,934.02	8,667.75	8,500.92	166.83	51.957	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	82.01	747.36	5,324.65	5,377.44				
100.00	100.00	1,162.39	1,144.46	0.13	4.84	80.86	833.56	5,182.40	5,368.10	5,363.25	4.85	1,107.123	
200.00	200.00	1,201.36	1,182.17	0.49	5.05	80.80	838.26	5,173.74	5,347.76	5,342.56	5.19	1,029.470	
300.00	299.98	1,246.00	1,225.47	0.85	5.30	11.50	843.43	5,164.23	5,326.71	5,321.01	5.69	935.732	
400.00	399.84	1,325.28	1,302.52	1.21	5.72	11.47	852.42	5,147.88	5,302.98	5,296.59	6.39	830.029	
500.00	499.45	1,440.54	1,414.44	1.58	6.34	11.41	866.24	5,124.04	5,276.02	5,268.76	7.26	726.635	
600.00	598.70	1,631.76	1,599.23	1.97	7.42	11.22	892.43	5,082.42	5,245.29	5,236.77	8.52	615.980	
700.00	697.47	1,700.47	1,665.49	2.38	7.81	11.25	901.65	5,066.81	5,210.13	5,200.94	9.19	566.710	
800.00	795.62	1,794.33	1,756.07	2.83	8.35	11.26	914.32	5,045.71	5,172.06	5,162.07	9.99	517.502	
900.00	893.06	1,861.62	1,821.08	3.31	8.73	11.33	923.07	5,030.71	5,130.98	5,120.31	10.67	480.935	
1,000.00	989.64	1,918.99	1,876.67	3.83	9.05	11.45	929.93	5,018.31	5,087.31	5,076.01	11.30	450.299	
1,100.00	1,085.27	1,968.21	1,924.50	4.40	9.32	11.60	935.45	5,008.10	5,041.25	5,029.36	11.89	424.023	
1,200.00	1,179.82	2,046.66	2,000.90	5.02	9.74	11.75	943.89	4,992.38	4,992.74	4,980.13	12.61	395.916	
1,300.00	1,273.17	2,187.01	2,137.24	5.70	10.50	11.85	960.11	4,963.28	4,940.85	4,927.24	13.61	363.122	
1,400.00	1,365.21	2,255.65	2,203.78	6.43	10.88	12.05	968.49	4,948.68	4,885.67	4,871.37	14.30	341.635	
1,500.00	1,455.84	2,317.51	2,263.78	7.23	11.22	12.29	976.13	4,935.68	4,827.91	4,812.94	14.97	322.548	
1,600.00	1,544.94	2,377.91	2,322.45	8.09	11.55	12.56	983.37	4,923.30	4,767.78	4,752.14	15.63	304.996	
1,700.00	1,632.39	2,456.38	2,398.66	9.01	11.97	12.86	992.99	4,907.31	4,705.09	4,688.71	16.37	287.336	
1,800.00	1,718.11	2,549.10	2,488.62	10.00	12.48	13.18	1,004.80	4,888.18	4,639.65	4,622.47	17.18	270.049	
1,900.00	1,801.97	2,605.90	2,543.73	11.07	12.80	13.57	1,011.99	4,876.44	4,571.66	4,553.82	17.84	256.293	
2,000.00	1,883.88	2,661.29	2,597.56	12.20	13.10	14.02	1,018.70	4,865.27	4,501.50	4,483.01	18.49	243.474	
2,100.00	1,963.74	2,723.42	2,658.07	13.41	13.43	14.55	1,025.61	4,852.98	4,429.12	4,409.96	19.16	231.169	
2,200.00	2,041.45	2,200.00	2,808.48	14.69	10.42	15.16	1,044.03	4,821.12	4,354.26	4,337.28	16.97	256.517	
2,300.00	2,116.92	2,976.78	2,903.65	16.05	14.83	15.86	1,056.37	4,798.97	4,275.78	4,254.81	20.98	203.844	
2,357.48	2,159.25	2,999.93	2,926.01	16.86	14.97	16.30	1,059.27	4,793.73	4,229.71	4,208.40	21.32	198.435	
2,400.00	2,190.27	3,022.00	2,947.34	17.47	15.09	16.32	1,062.08	4,788.78	4,195.45	4,173.87	21.58	194.401	
2,500.00	2,263.22	3,056.94	2,981.10	18.92	15.29	16.34	1,066.69	4,781.03	4,115.06	4,092.91	22.15	185.746	
2,600.00	2,336.18	3,097.43	3,020.18	20.37	15.53	16.36	1,072.44	4,772.16	4,034.95	4,012.20	22.76	177.298	
2,700.00	2,409.14	3,160.66	3,081.15	21.84	15.89	16.37	1,082.01	4,758.43	3,955.04	3,931.59	23.45	168.667	
2,800.00	2,482.09	3,228.42	3,146.41	23.31	16.29	16.37	1,092.42	4,743.44	3,874.91	3,850.75	24.16	160.387	
2,900.00	2,555.05	3,275.70	3,191.94	24.78	16.57	16.37	1,099.81	4,733.05	3,794.87	3,770.06	24.81	152.932	
3,000.00	2,628.01	3,340.76	3,254.59	26.27	16.95	16.37	1,110.11	4,718.86	3,714.98	3,689.45	25.53	145.540	
3,100.00	2,700.96	3,429.41	3,339.91	27.75	17.47	16.38	1,123.80	4,699.07	3,634.73	3,608.43	26.30	138.222	
3,200.00	2,773.92	3,511.17	3,418.62	29.24	17.95	16.41	1,135.59	4,680.35	3,554.03	3,526.99	27.04	131.450	
3,300.00	2,846.88	3,581.80	3,486.74	30.73	18.36	16.46	1,144.67	4,664.02	3,473.07	3,445.33	27.74	125.189	
3,400.00	2,919.83	3,616.57	3,520.33	32.23	18.56	16.50	1,148.83	4,656.08	3,392.21	3,363.82	28.38	119.515	
3,500.00	2,992.79	3,650.31	3,552.99	33.72	18.75	16.54	1,152.86	4,648.64	3,311.79	3,282.75	29.04	114.061	
3,600.00	3,065.75	3,695.02	3,596.35	35.22	19.00	16.60	1,158.20	4,639.12	3,231.82	3,202.11	29.71	108.764	
3,700.00	3,138.71	3,790.02	3,688.33	36.72	19.54	16.71	1,169.81	4,618.40	3,151.58	3,121.13	30.45	103.512	
3,800.00	3,211.66	3,823.98	3,721.21	38.22	19.73	16.75	1,174.09	4,611.03	3,071.37	3,040.24	31.13	98.661	
3,900.00	3,284.62	3,871.21	3,766.94	39.72	20.00	16.81	1,180.17	4,600.93	2,991.44	2,959.61	31.83	93.970	
4,000.00	3,357.58	3,971.60	3,864.05	41.22	20.56	16.93	1,193.01	4,578.94	2,911.21	2,878.66	32.55	89.432	
4,100.00	3,430.53	4,007.48	3,898.78	42.73	20.76	16.98	1,197.37	4,571.09	2,830.89	2,797.62	33.26	85.110	
4,200.00	3,503.49	4,055.00	3,944.89	44.23	21.03	17.07	1,202.86	4,560.99	2,750.92	2,716.93	33.98	80.949	
4,300.00	3,576.45	4,090.31	3,979.24	45.74	21.22	17.14	1,206.69	4,553.76	2,671.35	2,636.63	34.72	76.939	
4,400.00	3,649.40	4,130.27	4,018.21	47.25	21.43	17.25	1,210.76	4,545.92	2,592.28	2,556.81	35.47	73.079	
4,500.00	3,722.36	4,171.96	4,058.98	48.75	21.64	17.37	1,214.68	4,538.13	2,513.71	2,477.47	36.24	69.369	
4,600.00	3,795.32	4,215.30	4,101.47	50.26	21.85	17.53	1,218.32	4,530.42	2,435.62	2,398.60	37.01	65.802	
4,700.00	3,868.27	4,243.00	4,128.69	51.77	21.98	17.64	1,220.40	4,525.70	2,358.11	2,320.26	37.85	62.305	
4,800.00	3,941.23	4,293.14	4,178.07	53.28	22.21	17.87	1,223.79	4,517.74	2,281.16	2,242.51	38.65	59.023	
4,900.00	4,014.19	4,337.00	4,221.41	54.79	22.40	18.10	1,226.37	4,511.47	2,205.07	2,165.58	39.49	55.835	
5,000.00	4,087.15	4,369.61	4,253.69	56.30	22.53	18.29	1,228.12	4,507.23	2,129.76	2,089.37	40.39	52.728	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	4,409.39	4,293.14	57.81	22.69	18.53	1,230.13	4,502.53	2,055.33	2,014.02	41.30	49.761	
5,200.00	4,233.06	4,457.03	4,340.46	59.32	22.87	18.86	1,232.33	4,497.51	1,981.73	1,939.51	42.22	46.936	
5,300.00	4,306.02	4,512.35	4,395.48	60.83	23.08	19.27	1,234.42	4,492.12	1,908.67	1,865.52	43.15	44.236	
5,400.00	4,378.97	4,561.59	4,444.50	62.34	23.25	19.68	1,235.95	4,487.73	1,836.21	1,792.07	44.13	41.605	
5,500.00	4,451.93	4,610.27	4,493.01	63.85	23.42	20.12	1,237.41	4,483.93	1,764.57	1,719.40	45.17	39.068	
5,600.00	4,524.89	4,659.99	4,542.61	65.36	23.57	20.60	1,238.67	4,480.63	1,693.81	1,647.57	46.24	36.630	
5,700.00	4,597.84	4,710.71	4,593.24	66.88	23.73	21.15	1,239.45	4,477.89	1,623.98	1,576.60	47.38	34.279	
5,800.00	4,670.80	4,768.91	4,651.39	68.39	23.90	21.85	1,239.69	4,475.37	1,554.98	1,506.44	48.54	32.035	
5,900.00	4,743.76	4,828.37	4,710.81	69.90	24.06	22.66	1,239.31	4,473.31	1,486.74	1,436.96	49.78	29.864	
6,000.00	4,816.71	4,889.83	4,772.25	71.41	24.23	23.54	1,239.14	4,471.57	1,419.24	1,368.14	51.10	27.776	
6,100.00	4,889.67	4,943.48	4,825.88	72.93	24.36	24.36	1,239.17	4,470.55	1,352.70	1,300.16	52.53	25.750	
6,200.00	4,962.63	4,999.57	4,881.97	74.44	24.50	25.29	1,239.12	4,470.29	1,287.50	1,233.43	54.07	23.813	
6,300.00	5,035.59	5,074.05	4,956.45	75.95	24.67	26.62	1,239.00	4,470.28	1,223.04	1,167.40	55.64	21.982	
6,400.00	5,108.54	5,152.25	5,034.66	77.47	24.86	28.17	1,238.91	4,470.07	1,158.84	1,101.50	57.34	20.210	
6,500.00	5,181.50	5,228.66	5,111.07	78.98	25.06	29.85	1,238.85	4,469.51	1,094.85	1,035.62	59.22	18.487	
6,600.00	5,254.46	5,302.05	5,184.45	80.49	25.25	31.65	1,238.74	4,468.79	1,031.31	969.98	61.33	16.815	
6,700.00	5,327.41	5,373.60	5,255.99	82.01	25.44	33.60	1,238.70	4,468.14	968.57	904.88	63.69	15.207	
6,800.00	5,400.37	5,447.21	5,329.60	83.52	25.63	35.84	1,238.70	4,467.43	906.72	840.38	66.33	13.669	
6,900.00	5,473.33	5,520.89	5,403.27	85.04	25.83	38.36	1,238.61	4,466.60	845.87	776.54	69.32	12.202	
7,000.00	5,546.28	5,595.07	5,477.45	86.55	26.03	41.24	1,238.27	4,465.58	786.26	713.52	72.74	10.809	
7,100.00	5,619.24	5,669.20	5,551.56	88.06	26.23	44.52	1,237.66	4,464.25	728.19	651.51	76.68	9.496	
7,200.00	5,692.20	5,742.78	5,625.12	89.58	26.43	48.21	1,237.01	4,462.67	672.12	590.91	81.21	8.276	
7,300.00	5,765.15	5,813.78	5,696.10	91.09	26.63	52.23	1,236.38	4,461.06	618.83	532.41	86.41	7.161	
7,400.00	5,838.11	5,884.77	5,767.07	92.61	26.82	56.74	1,235.69	4,459.44	569.23	476.91	92.32	6.166	
7,500.00	5,911.07	5,954.85	5,837.13	94.12	27.02	61.71	1,234.87	4,457.84	524.42	425.52	98.90	5.302	
7,600.00	5,984.03	6,024.45	5,906.71	95.64	27.21	67.14	1,234.03	4,456.52	485.90	379.96	105.94	4.587	
7,700.00	6,056.98	6,096.41	5,978.66	97.15	27.41	73.22	1,233.18	4,455.27	455.02	342.00	113.02	4.026	
7,800.00	6,129.94	6,169.20	6,051.43	98.67	27.61	79.77	1,232.46	4,454.01	433.18	313.72	119.47	3.626	
7,900.00	6,202.90	6,242.60	6,124.82	100.18	27.81	86.64	1,232.07	4,452.77	421.62	297.21	124.41	3.389	
7,954.69	6,242.80	6,282.86	6,165.07	101.01	27.93	90.45	1,231.99	4,452.08	419.95	293.73	126.21	3.327	CC, ES
8,000.00	6,275.85	6,317.14	6,199.35	101.70	28.03	93.70	1,232.02	4,451.48	421.08	293.93	127.15	3.312	SF
8,100.00	6,348.81	6,394.95	6,277.13	103.21	28.26	100.99	1,232.81	4,449.89	431.11	303.67	127.44	3.383	
8,200.00	6,421.77	6,465.34	6,347.50	104.73	28.48	107.33	1,233.86	4,448.45	451.39	325.90	125.49	3.597	
8,300.00	6,494.72	6,536.33	6,418.48	106.24	28.69	113.32	1,234.69	4,447.31	481.10	359.05	122.05	3.942	
8,400.00	6,567.68	6,607.06	6,489.20	107.76	28.90	118.79	1,235.30	4,446.47	518.53	400.66	117.87	4.399	
8,500.00	6,640.64	6,676.70	6,558.84	109.27	29.10	123.66	1,235.47	4,445.88	562.28	448.75	113.53	4.953	
8,600.00	6,713.59	6,749.37	6,631.51	110.79	29.31	128.19	1,235.41	4,445.43	610.83	501.39	109.45	5.581	
8,700.00	6,786.55	6,820.83	6,702.96	112.30	29.51	132.15	1,235.25	4,445.10	663.02	557.30	105.72	6.272	
8,800.00	6,859.51	6,892.86	6,775.00	113.82	29.71	135.68	1,234.84	4,444.89	718.13	615.68	102.45	7.009	
8,900.00	6,932.46	6,966.29	6,848.42	115.33	29.91	138.86	1,234.46	4,444.72	775.38	675.74	99.65	7.781	
9,000.00	7,005.42	7,038.75	6,920.88	116.85	30.10	141.64	1,234.04	4,444.63	834.34	737.10	97.24	8.580	
9,104.89	7,081.95	7,116.86	6,998.99	118.44	30.31	144.28	1,233.58	4,444.62	897.61	802.45	95.15	9.433	
9,150.00	7,115.15	7,150.96	7,033.09	119.12	30.41	138.60	1,233.45	4,444.62	924.04	829.77	94.27	9.802	
9,200.00	7,152.46	7,188.67	7,070.80	119.86	30.51	132.37	1,233.29	4,444.67	950.95	857.81	93.14	10.210	
9,250.00	7,190.04	7,226.89	7,109.02	120.57	30.61	126.32	1,233.10	4,444.79	975.32	883.44	91.88	10.615	
9,300.00	7,227.59	7,264.62	7,146.75	121.25	30.71	120.52	1,232.91	4,444.93	997.12	906.64	90.49	11.020	
9,350.00	7,264.83	7,301.78	7,183.91	121.89	30.81	115.11	1,232.74	4,445.04	1,016.42	927.46	88.96	11.425	
9,400.00	7,301.48	7,338.29	7,220.42	122.48	30.91	110.17	1,232.62	4,445.10	1,033.24	945.92	87.32	11.833	
9,450.00	7,337.26	7,373.58	7,255.71	123.01	31.01	105.76	1,232.51	4,445.13	1,047.68	962.11	85.57	12.243	
9,500.00	7,371.90	7,407.77	7,289.89	123.49	31.10	101.94	1,232.41	4,445.14	1,059.83	976.08	83.75	12.655	
9,550.00	7,405.13	7,440.52	7,322.65	123.91	31.20	98.71	1,232.32	4,445.12	1,069.80	987.93	81.87	13.068	
9,600.00	7,436.70	7,471.61	7,353.74	124.27	31.28	96.03	1,232.24	4,445.08	1,077.70	997.75	79.96	13.478	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	7,500.80	7,382.93	124.57	31.36	93.87	1,232.17	4,445.02	1,083.70	1,005.63	78.06	13.882	
9,700.00	7,493.91	7,527.94	7,410.07	124.81	31.44	92.18	1,232.10	4,444.95	1,087.92	1,011.68	76.24	14.271	
9,750.00	7,519.11	7,552.90	7,435.03	125.00	31.51	90.91	1,232.03	4,444.89	1,090.53	1,015.99	74.54	14.630	
9,800.00	7,541.79	7,575.41	7,457.54	125.12	31.58	90.00	1,231.96	4,444.83	1,091.67	1,018.63	73.04	14.946	
9,850.00	7,561.77	7,595.31	7,477.44	125.20	31.63	89.40	1,231.88	4,444.77	1,091.51	1,019.69	71.82	15.198	
9,900.00	7,578.90	7,612.69	7,494.82	125.23	31.68	89.07	1,231.80	4,444.73	1,090.19	1,019.22	70.96	15.363	
9,950.00	7,593.04	7,628.35	7,510.48	125.22	31.73	89.02	1,231.73	4,444.70	1,087.84	1,017.27	70.57	15.416	
10,000.00	7,604.09	7,640.63	7,522.76	125.17	31.76	89.12	1,231.68	4,444.69	1,084.60	1,013.95	70.65	15.352	
10,050.00	7,611.97	7,649.45	7,531.58	125.08	31.79	89.34	1,231.65	4,444.69	1,080.58	1,009.35	71.23	15.170	
10,100.00	7,616.61	7,654.72	7,536.85	124.97	31.80	89.67	1,231.63	4,444.69	1,075.89	1,003.58	72.32	14.878	
10,145.95	7,618.00	7,656.42	7,538.54	124.84	31.81	90.03	1,231.62	4,444.70	1,071.05	997.32	73.73	14.526	
10,200.00	7,618.00	7,656.63	7,538.76	124.69	31.81	90.04	1,231.62	4,444.70	1,066.44	990.57	75.87	14.056	
10,264.22	7,618.00	7,656.88	7,539.01	124.50	31.81	90.05	1,231.62	4,444.70	1,064.51	985.54	78.97	13.480	
10,300.00	7,618.00	7,657.02	7,539.15	124.41	31.81	90.06	1,231.62	4,444.70	1,065.11	984.22	80.89	13.167	
10,400.00	7,618.00	7,657.41	7,539.54	124.14	31.81	90.08	1,231.62	4,444.70	1,073.13	986.34	86.79	12.365	
10,500.00	7,618.00	7,657.80	7,539.92	123.88	31.81	90.10	1,231.62	4,444.70	1,090.30	997.28	93.03	11.720	
10,600.00	7,618.00	7,658.18	7,540.31	123.63	31.81	90.12	1,231.62	4,444.70	1,116.21	1,017.01	99.20	11.252	
10,700.00	7,618.00	7,658.57	7,540.69	123.40	31.81	90.15	1,231.62	4,444.70	1,150.25	1,045.22	105.03	10.951	
10,800.00	7,618.00	7,658.95	7,541.08	123.18	31.81	90.17	1,231.61	4,444.70	1,191.73	1,081.37	110.37	10.798	
10,900.00	7,618.00	7,659.33	7,541.46	122.96	31.82	90.19	1,231.61	4,444.70	1,239.91	1,124.79	115.13	10.770	
11,000.00	7,618.00	7,659.71	7,541.84	122.76	31.82	90.21	1,231.61	4,444.70	1,294.04	1,174.74	119.30	10.847	
11,100.00	7,618.00	7,660.09	7,542.22	122.57	31.82	90.23	1,231.61	4,444.70	1,353.40	1,230.48	122.92	11.010	
11,200.00	7,618.00	7,660.46	7,542.59	122.39	31.82	90.25	1,231.61	4,444.70	1,417.34	1,291.31	126.02	11.247	
11,300.00	7,618.00	7,660.84	7,542.97	122.23	31.82	90.27	1,231.61	4,444.70	1,485.26	1,356.59	128.67	11.543	
11,400.00	7,618.00	7,661.21	7,543.34	122.07	31.82	90.29	1,231.61	4,444.70	1,556.65	1,425.72	130.93	11.889	
11,500.00	7,618.00	7,661.58	7,543.71	121.93	31.82	90.31	1,231.61	4,444.70	1,631.05	1,498.21	132.84	12.278	
11,600.00	7,618.00	7,661.95	7,544.08	121.79	31.82	90.33	1,231.60	4,444.70	1,708.06	1,573.60	134.46	12.703	
11,700.00	7,618.00	7,662.32	7,544.45	121.67	31.82	90.35	1,231.60	4,444.70	1,787.35	1,651.51	135.83	13.158	
11,800.00	7,618.00	7,662.69	7,544.81	121.56	31.82	90.37	1,231.60	4,444.70	1,868.63	1,731.63	137.00	13.639	
11,900.00	7,618.00	7,663.05	7,545.18	121.46	31.83	90.39	1,231.60	4,444.70	1,951.65	1,813.65	137.99	14.143	
12,000.00	7,618.00	7,663.42	7,545.54	121.38	31.83	90.41	1,231.60	4,444.70	2,036.19	1,897.35	138.84	14.666	
12,100.00	7,618.00	7,663.78	7,545.90	121.30	31.83	90.43	1,231.60	4,444.70	2,122.08	1,982.52	139.56	15.206	
12,200.00	7,618.00	7,664.14	7,546.26	121.24	31.83	90.44	1,231.60	4,444.70	2,209.16	2,068.98	140.17	15.760	
12,300.00	7,618.00	7,664.50	7,546.62	121.19	31.83	90.46	1,231.60	4,444.71	2,297.29	2,156.59	140.70	16.328	
12,400.00	7,618.00	7,664.85	7,546.98	121.16	31.83	90.48	1,231.59	4,444.71	2,386.35	2,245.20	141.15	16.907	
12,500.00	7,618.00	7,665.21	7,547.34	121.14	31.83	90.50	1,231.59	4,444.71	2,476.25	2,334.72	141.54	17.496	
12,600.00	7,618.00	7,665.56	7,547.69	121.13	31.83	90.52	1,231.59	4,444.71	2,566.90	2,425.03	141.87	18.094	
12,700.00	7,618.00	7,665.92	7,548.04	121.13	31.83	90.54	1,231.59	4,444.71	2,658.22	2,516.07	142.15	18.700	
12,800.00	7,618.00	7,666.27	7,548.40	121.15	31.83	90.56	1,231.59	4,444.71	2,750.14	2,607.74	142.40	19.313	
12,900.00	7,618.00	7,666.62	7,548.75	121.18	31.84	90.58	1,231.59	4,444.71	2,842.61	2,700.00	142.61	19.933	
13,000.00	7,618.00	7,666.97	7,549.09	121.23	31.84	90.60	1,231.59	4,444.71	2,935.57	2,792.78	142.79	20.558	
13,100.00	7,618.00	7,667.31	7,549.44	121.29	31.84	90.62	1,231.59	4,444.71	3,028.98	2,886.03	142.95	21.189	
13,200.00	7,618.00	7,667.66	7,549.79	121.37	31.84	90.63	1,231.58	4,444.71	3,122.80	2,979.71	143.08	21.825	
13,300.00	7,618.00	7,668.00	7,550.13	121.46	31.84	90.65	1,231.58	4,444.71	3,216.99	3,073.79	143.20	22.465	
13,400.00	7,618.00	7,668.35	7,550.47	121.57	31.84	90.67	1,231.58	4,444.71	3,311.52	3,168.22	143.30	23.109	
13,500.00	7,618.00	7,668.69	7,550.81	121.70	31.84	90.69	1,231.58	4,444.71	3,406.36	3,262.98	143.39	23.756	
13,600.00	7,618.00	7,669.03	7,551.15	121.84	31.84	90.71	1,231.58	4,444.71	3,501.50	3,358.03	143.46	24.407	
13,700.00	7,618.00	7,669.37	7,551.49	122.01	31.84	90.73	1,231.58	4,444.71	3,596.89	3,453.37	143.52	25.061	
13,800.00	7,618.00	7,669.70	7,551.83	122.19	31.84	90.74	1,231.58	4,444.71	3,692.53	3,548.95	143.58	25.718	
13,900.00	7,618.00	7,670.04	7,552.17	122.39	31.85	90.76	1,231.58	4,444.71	3,788.39	3,644.77	143.62	26.377	
14,000.00	7,618.00	7,670.37	7,552.50	122.62	31.85	90.78	1,231.58	4,444.72	3,884.46	3,740.80	143.66	27.039	
14,100.00	7,618.00	7,670.71	7,552.83	122.86	31.85	90.80	1,231.57	4,444.72	3,980.73	3,837.04	143.69	27.703	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,200.00	7,618.00	7,671.04	7,553.17	123.12	31.85	90.82	1,231.57	4,444.72	4,077.17	3,933.45	143.72	28.369	
14,300.00	7,618.00	7,671.37	7,553.50	123.41	31.85	90.83	1,231.57	4,444.72	4,173.79	4,030.04	143.74	29.036	
14,400.00	7,618.00	7,671.70	7,553.83	123.72	31.85	90.85	1,231.57	4,444.72	4,270.56	4,126.79	143.76	29.706	
14,500.00	7,618.00	7,672.03	7,554.15	124.06	31.85	90.87	1,231.57	4,444.72	4,367.47	4,223.69	143.78	30.377	
14,600.00	7,618.00	7,672.35	7,554.48	124.42	31.85	90.89	1,231.57	4,444.72	4,464.52	4,320.73	143.79	31.049	
14,700.00	7,618.00	7,672.68	7,554.80	124.80	31.85	90.90	1,231.57	4,444.72	4,561.70	4,417.90	143.80	31.723	
14,800.00	7,618.00	7,673.00	7,555.13	125.21	31.85	90.92	1,231.57	4,444.72	4,658.99	4,515.19	143.80	32.399	
14,900.00	7,618.00	7,673.32	7,555.45	125.65	31.85	90.94	1,231.57	4,444.72	4,756.40	4,612.60	143.81	33.075	
15,000.00	7,618.00	7,673.65	7,555.77	126.11	31.86	90.96	1,231.56	4,444.72	4,853.92	4,710.11	143.81	33.753	
15,100.00	7,618.00	7,673.97	7,556.09	126.61	31.86	90.97	1,231.56	4,444.72	4,951.53	4,807.72	143.81	34.431	
15,200.00	7,618.00	7,674.28	7,556.41	127.13	31.86	90.99	1,231.56	4,444.72	5,049.24	4,905.43	143.81	35.111	
15,300.00	7,618.00	7,674.60	7,556.73	127.68	31.86	91.01	1,231.56	4,444.72	5,147.03	5,003.23	143.81	35.791	
15,400.00	7,618.00	7,674.92	7,557.05	128.26	31.86	91.02	1,231.56	4,444.72	5,244.91	5,101.11	143.81	36.472	
15,500.00	7,618.00	7,675.23	7,557.36	128.87	31.86	91.04	1,231.56	4,444.73	5,342.87	5,199.07	143.80	37.154	
15,600.00	7,618.00	7,675.55	7,557.67	129.51	31.86	91.06	1,231.56	4,444.73	5,440.90	5,297.10	143.80	37.837	
15,700.00	7,618.00	7,675.86	7,557.99	130.18	31.86	91.08	1,231.56	4,444.73	5,539.00	5,395.21	143.79	38.521	
15,800.00	7,618.00	7,676.17	7,558.30	130.88	31.86	91.09	1,231.56	4,444.73	5,637.17	5,493.38	143.79	39.205	
15,900.00	7,618.00	7,676.48	7,558.61	131.61	31.86	91.11	1,231.56	4,444.73	5,735.40	5,591.62	143.78	39.889	
16,000.00	7,618.00	7,676.79	7,558.92	132.37	31.86	91.13	1,231.55	4,444.73	5,833.69	5,689.91	143.78	40.574	
16,100.00	7,618.00	7,677.10	7,559.22	133.17	31.86	91.14	1,231.55	4,444.73	5,932.04	5,788.27	143.77	41.260	
16,200.00	7,618.00	7,677.40	7,559.53	133.99	31.87	91.16	1,231.55	4,444.73	6,030.44	5,886.68	143.77	41.946	
16,300.00	7,618.00	7,677.71	7,559.84	134.84	31.87	91.18	1,231.55	4,444.73	6,128.90	5,985.14	143.76	42.633	
16,400.00	7,618.00	7,678.01	7,560.14	135.72	31.87	91.19	1,231.55	4,444.73	6,227.40	6,083.65	143.75	43.320	
16,500.00	7,618.00	7,678.32	7,560.44	136.63	31.87	91.21	1,231.55	4,444.73	6,325.95	6,182.20	143.75	44.007	
16,600.00	7,618.00	7,678.62	7,560.74	137.57	31.87	91.22	1,231.55	4,444.73	6,424.55	6,280.81	143.74	44.695	
16,700.00	7,618.00	7,678.92	7,561.05	138.54	31.87	91.24	1,231.55	4,444.73	6,523.19	6,379.45	143.74	45.383	
16,800.00	7,618.00	7,679.22	7,561.34	139.53	31.87	91.26	1,231.55	4,444.74	6,621.87	6,478.13	143.73	46.071	
16,900.00	7,618.00	7,679.52	7,561.64	140.55	31.87	91.27	1,231.55	4,444.74	6,720.58	6,576.86	143.73	46.760	
17,000.00	7,618.00	7,679.81	7,561.94	141.60	31.87	91.29	1,231.55	4,444.74	6,819.34	6,675.62	143.72	47.449	
17,100.00	7,618.00	7,680.11	7,562.24	142.67	31.87	91.30	1,231.54	4,444.74	6,918.13	6,774.41	143.72	48.138	
17,200.00	7,618.00	7,680.40	7,562.53	143.77	31.87	91.32	1,231.54	4,444.74	7,016.96	6,873.25	143.71	48.827	
17,300.00	7,618.00	7,680.70	7,562.82	144.88	31.87	91.34	1,231.54	4,444.74	7,115.81	6,972.11	143.71	49.516	
17,400.00	7,618.00	7,680.99	7,563.12	146.02	31.88	91.35	1,231.54	4,444.74	7,214.70	7,071.00	143.70	50.206	
17,500.00	7,618.00	7,681.28	7,563.41	147.19	31.88	91.37	1,231.54	4,444.74	7,313.62	7,169.93	143.70	50.896	
17,600.00	7,618.00	7,681.57	7,563.70	148.37	31.88	91.38	1,231.54	4,444.74	7,412.57	7,268.88	143.69	51.586	
17,700.00	7,618.00	7,681.86	7,563.99	149.57	31.88	91.40	1,231.54	4,444.74	7,511.55	7,367.86	143.69	52.276	
17,800.00	7,618.00	7,682.15	7,564.28	150.79	31.88	91.41	1,231.54	4,444.74	7,610.55	7,466.86	143.69	52.966	
17,900.00	7,618.00	7,682.44	7,564.56	152.03	31.88	91.43	1,231.54	4,444.74	7,709.58	7,565.90	143.69	53.656	
18,000.00	7,618.00	7,682.72	7,564.85	153.29	31.88	91.44	1,231.54	4,444.75	7,808.64	7,664.95	143.68	54.346	
18,100.00	7,618.00	7,683.01	7,565.14	154.57	31.88	91.46	1,231.54	4,444.75	7,907.71	7,764.03	143.68	55.036	
18,200.00	7,618.00	7,683.29	7,565.42	155.86	31.88	91.48	1,231.53	4,444.75	8,006.81	7,863.13	143.68	55.726	
18,300.00	7,618.00	7,683.58	7,565.70	157.17	31.88	91.49	1,231.53	4,444.75	8,105.94	7,962.26	143.68	56.416	
18,400.00	7,618.00	7,683.86	7,565.98	158.49	31.88	91.51	1,231.53	4,444.75	8,205.08	8,061.40	143.68	57.107	
18,500.00	7,618.00	7,684.14	7,566.26	159.82	31.88	91.52	1,231.53	4,444.75	8,304.24	8,160.56	143.68	57.797	
18,600.00	7,618.00	7,684.42	7,566.54	161.17	31.89	91.54	1,231.53	4,444.75	8,403.43	8,259.75	143.68	58.487	
18,700.00	7,618.00	7,684.70	7,566.82	162.54	31.89	91.55	1,231.53	4,444.75	8,502.63	8,358.95	143.68	59.177	
18,800.00	7,618.00	7,684.97	7,567.10	163.91	31.89	91.57	1,231.53	4,444.75	8,601.85	8,458.17	143.68	59.867	
18,900.00	7,618.00	7,685.25	7,567.38	165.30	31.89	91.58	1,231.53	4,444.75	8,701.09	8,557.41	143.68	60.558	
19,000.00	7,618.00	7,685.53	7,567.65	166.70	31.89	91.60	1,231.53	4,444.75	8,800.35	8,656.67	143.68	61.248	
19,100.00	7,618.00	7,685.80	7,567.93	168.10	31.89	91.61	1,231.53	4,444.75	8,899.62	8,755.94	143.69	61.937	
19,200.00	7,618.00	7,686.07	7,568.20	169.52	31.89	91.63	1,231.53	4,444.76	8,998.91	8,855.22	143.69	62.627	
19,300.00	7,618.00	7,686.35	7,568.47	170.95	31.89	91.64	1,231.53	4,444.76	9,098.22	8,954.53	143.69	63.317	

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

Survey Program: 109-MWD OWSG

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
19,400.00	7,618.00	7,686.62	7,568.75	172.39	31.89	91.65	1,231.52	4,444.76	9,197.54	9,053.84	143.70	64.007	
19,500.00	7,618.00	7,686.89	7,569.02	173.84	31.89	91.67	1,231.52	4,444.76	9,296.87	9,153.17	143.70	64.696	
19,600.00	7,618.00	7,687.16	7,569.29	175.30	31.89	91.68	1,231.52	4,444.76	9,396.22	9,252.52	143.70	65.386	
19,700.00	7,618.00	7,687.43	7,569.55	176.76	31.89	91.70	1,231.52	4,444.76	9,495.58	9,351.88	143.71	66.075	
19,800.00	7,618.00	7,687.70	7,569.82	178.24	31.89	91.71	1,231.52	4,444.76	9,594.96	9,451.25	143.71	66.764	
19,896.19	7,618.00	7,687.95	7,570.08	179.66	31.90	91.73	1,231.52	4,444.76	9,690.56	9,546.84	143.72	67.427	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	81.98	751.01	5,333.05	5,386.26				
100.00	100.00	37.85	37.85	0.13	0.06	81.98	750.99	5,332.99	5,385.64	5,385.44	0.19	N/A	
200.00	200.00	157.51	157.51	0.49	0.40	81.98	750.83	5,332.25	5,384.98	5,384.09	0.89	6,030.588	
300.00	299.98	248.67	248.67	0.85	0.73	12.68	750.81	5,331.67	5,382.65	5,381.08	1.58	3,417.292	
400.00	399.84	354.83	354.82	1.21	1.11	12.72	750.92	5,331.04	5,376.98	5,374.66	2.32	2,321.673	
500.00	499.45	416.38	416.36	1.58	1.32	12.78	750.32	5,330.95	5,368.19	5,365.30	2.89	1,855.823	
600.00	598.70	481.18	481.14	1.97	1.55	12.87	748.30	5,331.49	5,356.69	5,353.20	3.48	1,537.791	
700.00	697.47	534.00	533.87	2.38	1.73	12.98	745.56	5,332.38	5,342.46	5,338.42	4.04	1,323.895	
800.00	795.62	590.71	590.42	2.83	1.93	13.13	741.52	5,333.94	5,325.67	5,321.06	4.61	1,154.589	
900.00	893.06	647.02	646.44	3.31	2.14	13.31	736.38	5,336.26	5,306.50	5,301.30	5.20	1,020.816	
1,000.00	989.64	716.00	714.86	3.83	2.39	13.56	728.24	5,339.60	5,284.51	5,278.67	5.84	904.140	
1,100.00	1,085.27	761.46	759.78	4.40	2.58	13.79	721.83	5,342.26	5,260.01	5,253.59	6.42	819.134	
1,200.00	1,179.82	809.00	806.60	5.02	2.77	14.05	714.36	5,345.74	5,233.33	5,226.32	7.02	745.788	
1,300.00	1,273.17	847.86	844.77	5.70	2.93	14.32	707.78	5,349.00	5,204.38	5,196.78	7.60	684.961	
1,400.00	1,365.21	902.00	897.80	6.43	3.17	14.66	698.13	5,354.02	5,173.10	5,164.85	8.26	626.584	
1,500.00	1,455.84	951.74	946.40	7.23	3.39	15.02	688.83	5,359.04	5,139.45	5,130.53	8.92	576.228	
1,600.00	1,544.94	1,007.08	1,000.35	8.09	3.65	15.44	678.08	5,365.02	5,103.40	5,093.77	9.62	530.268	
1,700.00	1,632.39	1,064.29	1,055.90	9.01	3.93	15.90	666.09	5,371.62	5,064.94	5,054.58	10.36	488.714	
1,800.00	1,718.11	1,149.70	1,138.49	10.00	4.36	16.55	646.90	5,381.88	5,023.92	5,012.65	11.27	445.821	
1,900.00	1,801.97	1,260.18	1,245.66	11.07	4.93	17.37	623.21	5,394.54	4,979.65	4,967.33	12.32	404.252	
2,000.00	1,883.88	1,307.99	1,292.12	12.20	5.17	17.93	613.39	5,400.08	4,932.86	4,919.78	13.07	377.290	
2,100.00	1,963.74	1,364.78	1,347.22	13.41	5.47	18.59	601.54	5,407.05	4,883.91	4,870.01	13.90	351.395	
2,200.00	2,041.45	1,437.44	1,417.51	14.69	5.86	19.40	585.55	5,416.16	4,832.52	4,817.69	14.83	325.847	
2,300.00	2,116.92	1,498.66	1,476.52	16.05	6.20	20.23	571.28	5,423.99	4,778.78	4,763.04	15.74	303.608	
2,357.48	2,159.25	1,536.87	1,513.26	16.86	6.41	20.76	562.02	5,428.97	4,746.88	4,730.58	16.29	291.344	
2,400.00	2,190.27	1,576.66	1,551.50	17.47	6.64	21.04	552.34	5,434.13	4,722.99	4,706.22	16.77	281.637	
2,500.00	2,263.22	1,680.49	1,651.51	18.92	7.22	21.77	527.62	5,447.17	4,666.78	4,648.83	17.95	259.936	
2,600.00	2,336.18	1,750.30	1,719.00	20.37	7.61	22.27	511.92	5,455.59	4,610.56	4,591.59	18.97	243.021	
2,700.00	2,409.14	1,806.00	1,772.88	21.84	7.92	22.66	499.61	5,462.53	4,554.95	4,535.02	19.94	228.479	
2,800.00	2,482.09	1,887.76	1,851.98	23.31	8.37	23.25	481.65	5,472.80	4,499.77	4,478.71	21.06	213.669	
2,900.00	2,555.05	2,002.32	1,963.06	24.78	9.00	24.09	457.23	5,486.54	4,444.53	4,422.16	22.37	198.678	
3,000.00	2,628.01	2,056.05	2,015.19	26.27	9.29	24.50	445.86	5,492.88	4,389.48	4,366.09	23.39	187.666	
3,100.00	2,700.96	2,134.22	2,090.85	27.75	9.73	25.10	428.61	5,502.24	4,334.97	4,310.41	24.57	176.445	
3,200.00	2,773.92	2,230.35	2,183.68	29.24	10.27	25.88	406.22	5,513.27	4,280.53	4,254.64	25.88	165.384	
3,300.00	2,846.88	2,323.72	2,273.82	30.73	10.80	26.66	384.11	5,523.49	4,226.15	4,198.94	27.21	155.309	
3,400.00	2,919.83	2,433.38	2,380.22	32.23	11.40	27.57	360.16	5,534.89	4,171.77	4,143.13	28.63	145.697	
3,500.00	2,992.79	2,514.78	2,459.53	33.72	11.83	28.24	343.67	5,542.87	4,117.27	4,087.36	29.92	137.618	
3,600.00	3,065.75	2,554.00	2,497.69	35.22	12.04	28.57	335.46	5,546.69	4,063.37	4,032.36	31.01	131.025	
3,700.00	3,138.71	2,605.47	2,547.69	36.72	12.32	29.02	324.43	5,552.04	4,010.37	3,978.17	32.20	124.538	
3,800.00	3,211.66	2,648.00	2,588.90	38.22	12.55	29.40	315.17	5,556.93	3,958.60	3,925.23	33.37	118.631	
3,900.00	3,284.62	2,785.11	2,721.87	39.72	13.31	30.64	285.18	5,571.71	3,906.77	3,871.68	35.10	111.317	
4,000.00	3,357.58	2,855.15	2,789.80	41.22	13.69	31.30	269.65	5,578.74	3,855.06	3,818.58	36.48	105.663	
4,100.00	3,430.53	2,914.59	2,847.34	42.73	14.03	31.87	256.02	5,584.78	3,804.10	3,766.25	37.85	100.505	
4,200.00	3,503.49	2,990.67	2,920.93	44.23	14.45	32.62	238.32	5,592.58	3,753.84	3,714.50	39.35	95.401	
4,300.00	3,576.45	3,048.85	2,977.27	45.74	14.78	33.20	225.13	5,598.56	3,704.19	3,663.42	40.77	90.858	
4,400.00	3,649.40	3,092.67	3,019.64	47.25	15.03	33.64	215.04	5,603.35	3,655.68	3,613.55	42.13	86.765	
4,500.00	3,722.36	3,149.55	3,074.57	48.75	15.35	34.23	201.77	5,609.94	3,608.35	3,564.75	43.61	82.744	
4,600.00	3,795.32	3,230.61	3,152.94	50.26	15.81	35.07	183.44	5,619.53	3,561.82	3,516.56	45.26	78.688	
4,700.00	3,868.27	3,338.46	3,257.61	51.77	16.40	36.19	160.46	5,631.64	3,515.32	3,468.21	47.11	74.620	
4,800.00	3,941.23	3,411.37	3,328.27	53.28	16.81	36.97	144.24	5,639.38	3,469.33	3,420.54	48.78	71.115	
4,900.00	4,014.19	3,476.41	3,391.21	54.79	17.17	37.69	129.36	5,646.26	3,424.20	3,373.75	50.46	67.866	
5,000.00	4,087.15	3,529.25	3,442.31	56.30	17.47	38.28	117.19	5,652.01	3,380.15	3,328.07	52.08	64.904	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
5,100.00	4,160.10	3,585.00	3,496.16	57.81	17.79	38.91	104.31	5,658.46	3,337.45	3,283.69	53.75	62.087	
5,200.00	4,233.06	3,696.62	3,604.39	59.32	18.41	40.18	80.34	5,671.48	3,295.39	3,239.56	55.83	59.030	
5,300.00	4,306.02	3,785.85	3,691.39	60.83	18.88	41.18	63.35	5,681.70	3,253.46	3,195.71	57.75	56.337	
5,400.00	4,378.97	3,854.92	3,758.76	62.34	19.24	41.96	50.26	5,689.55	3,212.32	3,152.74	59.58	53.915	
5,500.00	4,451.93	3,919.67	3,821.84	63.85	19.59	42.72	37.64	5,696.92	3,172.24	3,110.82	61.43	51.643	
5,600.00	4,524.89	3,979.75	3,880.33	65.36	19.91	43.43	25.87	5,703.94	3,133.35	3,070.08	63.27	49.520	
5,700.00	4,597.84	4,033.19	3,932.31	66.88	20.19	44.06	15.38	5,710.51	3,095.88	3,030.77	65.11	47.551	
5,800.00	4,670.80	4,108.81	4,005.82	68.39	20.60	44.98	0.49	5,720.14	3,059.75	2,992.62	67.13	45.580	
5,900.00	4,743.76	4,185.15	4,080.06	69.90	21.01	45.91	-14.59	5,729.62	3,024.45	2,955.26	69.19	43.709	
6,000.00	4,816.71	4,296.03	4,188.04	71.41	21.60	47.28	-35.41	5,743.74	2,990.31	2,918.78	71.53	41.804	
6,100.00	4,889.67	4,437.97	4,327.18	72.93	22.30	49.04	-58.56	5,759.63	2,955.03	2,880.96	74.07	39.894	
6,200.00	4,962.63	4,489.33	4,377.53	74.44	22.56	49.69	-67.13	5,765.04	2,920.73	2,844.67	76.05	38.403	
6,300.00	5,035.59	4,562.12	4,448.63	75.95	22.93	50.65	-80.82	5,772.44	2,888.09	2,809.85	78.24	36.915	
6,400.00	5,108.54	4,699.52	4,583.14	77.47	23.62	52.51	-105.99	5,784.77	2,855.80	2,774.87	80.94	35.285	
6,500.00	5,181.50	4,850.06	4,731.30	78.98	24.33	54.58	-130.53	5,794.84	2,822.22	2,738.52	83.70	33.717	
6,600.00	5,254.46	4,941.21	4,821.41	80.49	24.72	55.82	-142.62	5,801.50	2,789.55	2,703.49	86.06	32.416	
6,700.00	5,327.41	5,310.14	5,188.41	82.01	26.08	60.92	-174.45	5,815.74	2,755.42	2,666.00	89.42	30.815	
6,800.00	5,400.37	5,400.47	5,278.61	83.52	26.35	62.24	-179.15	5,814.48	2,716.68	2,624.95	91.73	29.615	
6,900.00	5,473.33	5,501.19	5,379.24	85.04	26.63	63.72	-183.18	5,813.29	2,678.98	2,584.91	94.07	28.479	
7,000.00	5,546.28	5,606.22	5,484.26	86.55	26.89	65.24	-183.49	5,812.57	2,641.12	2,544.77	96.35	27.411	
7,100.00	5,619.24	5,687.43	5,565.47	88.06	27.07	66.43	-183.07	5,812.10	2,604.35	2,505.71	98.64	26.404	
7,200.00	5,692.20	5,769.90	5,647.94	89.58	27.26	67.66	-182.46	5,811.25	2,568.51	2,467.56	100.95	25.443	
7,300.00	5,765.15	5,841.41	5,719.44	91.09	27.42	68.75	-181.89	5,810.43	2,533.95	2,430.66	103.30	24.531	
7,400.00	5,838.11	5,907.06	5,785.08	92.61	27.57	69.77	-181.55	5,809.66	2,500.95	2,395.28	105.67	23.668	
7,500.00	5,911.07	5,978.83	5,856.85	94.12	27.74	70.90	-181.40	5,808.80	2,469.57	2,361.50	108.06	22.853	
7,600.00	5,984.03	6,058.75	5,936.76	95.64	27.93	72.18	-181.12	5,807.80	2,439.65	2,329.18	110.47	22.084	
7,700.00	6,056.98	6,140.76	6,018.76	97.15	28.13	73.51	-180.67	5,806.41	2,411.01	2,298.12	112.89	21.357	
7,800.00	6,129.94	6,216.32	6,094.31	98.67	28.31	74.75	-180.01	5,805.13	2,383.88	2,268.58	115.31	20.674	
7,900.00	6,202.90	6,291.48	6,169.45	100.18	28.48	76.01	-179.23	5,803.84	2,358.38	2,240.66	117.72	20.034	
8,000.00	6,275.85	6,362.98	6,240.93	101.70	28.65	77.21	-178.39	5,802.65	2,334.61	2,214.48	120.12	19.435	
8,100.00	6,348.81	6,421.56	6,299.51	103.21	28.79	78.20	-177.64	5,801.93	2,312.81	2,190.30	122.51	18.879	
8,200.00	6,421.77	6,471.42	6,349.36	104.73	28.92	79.05	-177.22	5,801.80	2,293.53	2,168.67	124.85	18.370	
8,300.00	6,494.72	6,533.63	6,411.57	106.24	29.09	80.10	-177.01	5,802.10	2,276.73	2,149.56	127.17	17.902	
8,400.00	6,567.68	6,602.91	6,480.85	107.76	29.28	81.29	-177.07	5,802.32	2,262.07	2,132.60	129.47	17.472	
8,500.00	6,640.64	6,677.11	6,555.05	109.27	29.49	82.58	-177.29	5,802.37	2,249.41	2,117.68	131.72	17.077	
8,600.00	6,713.59	6,759.05	6,636.99	110.79	29.71	84.02	-177.49	5,802.08	2,238.60	2,104.66	133.94	16.714	
8,700.00	6,786.55	6,829.95	6,707.89	112.30	29.90	85.27	-177.59	5,801.71	2,229.72	2,093.64	136.07	16.386	
8,800.00	6,859.51	6,897.15	6,775.08	113.82	30.09	86.45	-177.67	5,801.60	2,223.04	2,084.91	138.13	16.094	
8,900.00	6,932.46	6,962.94	6,840.88	115.33	30.27	87.61	-177.90	5,801.69	2,218.70	2,078.59	140.11	15.835	
9,000.00	7,005.42	7,035.90	6,913.84	116.85	30.49	88.90	-178.25	5,801.85	2,216.57	2,074.54	142.03	15.606	
9,052.44	7,043.68	7,075.01	6,952.94	117.65	30.60	89.59	-178.45	5,801.90	2,216.28	2,073.28	143.00	15.498	
9,104.89	7,081.95	7,114.50	6,992.43	118.44	30.71	90.29	-178.64	5,801.90	2,216.56	2,072.61	143.95	15.398	
9,150.00	7,115.15	7,148.68	7,026.61	119.12	30.81	86.09	-178.81	5,801.85	2,215.54	2,070.79	144.74	15.307	
9,200.00	7,152.46	7,183.14	7,061.07	119.86	30.91	81.02	-178.99	5,801.80	2,210.89	2,065.31	145.58	15.187	
9,250.00	7,190.04	7,218.42	7,096.36	120.57	31.02	75.73	-179.21	5,801.78	2,202.57	2,056.19	146.39	15.046	
9,300.00	7,227.59	7,255.65	7,133.58	121.25	31.13	70.40	-179.46	5,801.77	2,190.58	2,043.43	147.15	14.887	
9,350.00	7,264.83	7,294.39	7,172.32	121.89	31.24	65.17	-179.72	5,801.73	2,174.91	2,027.04	147.87	14.708	
9,400.00	7,301.48	7,332.45	7,210.38	122.48	31.35	60.14	-179.96	5,801.63	2,155.62	2,007.07	148.54	14.512	
9,450.00	7,337.26	7,365.96	7,243.89	123.01	31.45	55.33	-180.19	5,801.52	2,132.82	1,983.67	149.15	14.300	
9,500.00	7,371.90	7,398.75	7,276.68	123.49	31.55	50.85	-180.45	5,801.42	2,106.66	1,956.96	149.70	14.073	
9,550.00	7,405.13	7,430.28	7,308.20	123.91	31.64	46.70	-180.72	5,801.31	2,077.27	1,927.08	150.19	13.831	
9,600.00	7,436.70	7,460.31	7,338.23	124.27	31.73	42.85	-181.01	5,801.21	2,044.81	1,894.18	150.63	13.575	

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 79-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			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
9,650.00	7,466.36	7,488.62	7,366.55	124.57	31.81	39.22	-181.31	5,801.11	2,009.45	1,858.44	151.01	13.307	
9,700.00	7,493.91	7,515.01	7,392.93	124.81	31.89	35.72	-181.61	5,801.01	1,971.40	1,820.07	151.33	13.027	
9,750.00	7,519.11	7,537.16	7,415.08	125.00	31.96	32.15	-181.88	5,800.93	1,930.91	1,779.32	151.59	12.737	
9,800.00	7,541.79	7,557.21	7,435.13	125.12	32.02	28.33	-182.17	5,800.87	1,888.23	1,736.43	151.81	12.438	
9,850.00	7,561.77	7,575.07	7,452.99	125.20	32.07	23.90	-182.44	5,800.82	1,843.64	1,691.67	151.97	12.132	
9,900.00	7,578.90	7,590.60	7,468.52	125.23	32.12	18.21	-182.71	5,800.78	1,797.41	1,645.32	152.09	11.818	
9,950.00	7,593.04	7,603.66	7,481.57	125.22	32.16	10.00	-182.95	5,800.75	1,749.87	1,597.70	152.17	11.499	
10,000.00	7,604.09	7,616.07	7,493.98	125.17	32.20	-3.44	-183.18	5,800.73	1,701.34	1,549.12	152.22	11.177	
10,050.00	7,611.97	7,626.60	7,504.51	125.08	32.23	-27.15	-183.37	5,800.71	1,652.17	1,499.93	152.24	10.853	
10,100.00	7,616.61	7,633.16	7,511.07	124.97	32.25	-60.45	-183.48	5,800.70	1,602.75	1,450.53	152.22	10.529	
10,145.95	7,618.00	7,635.70	7,513.61	124.84	32.26	-85.29	-183.52	5,800.70	1,557.46	1,405.30	152.16	10.236	
10,200.00	7,618.00	7,636.73	7,514.64	124.69	32.26	-85.49	-183.53	5,800.70	1,504.44	1,352.36	152.08	9.893	
10,300.00	7,618.00	7,638.60	7,516.50	124.41	32.26	-85.85	-183.56	5,800.70	1,406.55	1,254.66	151.88	9.261	
10,400.00	7,618.00	7,640.41	7,518.32	124.14	32.27	-86.20	-183.59	5,800.70	1,308.97	1,157.33	151.64	8.632	
10,500.00	7,618.00	7,642.18	7,520.09	123.88	32.28	-86.54	-183.62	5,800.70	1,211.79	1,060.46	151.33	8.008	
10,600.00	7,618.00	7,643.91	7,521.82	123.63	32.28	-86.87	-183.65	5,800.69	1,115.10	964.19	150.92	7.389	
10,700.00	7,618.00	7,645.60	7,523.50	123.40	32.29	-87.20	-183.67	5,800.69	1,019.06	868.69	150.37	6.777	
10,800.00	7,618.00	7,647.24	7,525.15	123.18	32.29	-87.52	-183.70	5,800.69	923.84	774.22	149.62	6.175	
10,900.00	7,618.00	7,648.85	7,526.75	122.96	32.30	-87.83	-183.72	5,800.69	829.75	681.18	148.58	5.585	
11,000.00	7,618.00	7,650.41	7,528.32	122.76	32.30	-88.13	-183.74	5,800.69	737.22	590.14	147.08	5.012	
11,100.00	7,618.00	7,651.94	7,529.85	122.57	32.31	-88.42	-183.76	5,800.69	646.91	502.05	144.86	4.466	
11,200.00	7,618.00	7,653.44	7,531.34	122.39	32.31	-88.71	-183.79	5,800.69	559.89	418.46	141.43	3.959	
11,300.00	7,618.00	7,654.90	7,532.80	122.23	32.31	-88.99	-183.81	5,800.69	477.98	342.03	135.96	3.516	
11,400.00	7,618.00	7,656.33	7,534.23	122.07	32.32	-89.27	-183.83	5,800.69	404.29	277.33	126.96	3.184	
11,500.00	7,618.00	7,657.72	7,535.63	121.93	32.32	-89.54	-183.84	5,800.69	344.14	231.72	112.42	3.061	SF
11,600.00	7,618.00	7,659.09	7,536.99	121.79	32.33	-89.80	-183.86	5,800.69	305.63	213.14	92.48	3.305	ES
11,675.14	7,618.00	7,660.09	7,538.00	121.70	32.33	-90.00	-183.88	5,800.69	296.25	215.28	80.97	3.659	CC
11,700.00	7,618.00	7,660.42	7,538.32	121.67	32.33	-90.06	-183.88	5,800.69	297.29	217.32	79.97	3.717	
11,800.00	7,618.00	7,661.73	7,539.63	121.56	32.34	-90.32	-183.90	5,800.69	321.48	230.09	91.39	3.518	
11,900.00	7,618.00	7,663.00	7,540.91	121.46	32.34	-90.56	-183.92	5,800.69	371.91	262.50	109.41	3.399	
12,000.00	7,618.00	7,664.25	7,542.16	121.38	32.34	-90.80	-183.93	5,800.69	439.64	316.95	122.69	3.583	
12,100.00	7,618.00	7,665.48	7,543.38	121.30	32.35	-91.04	-183.95	5,800.69	517.92	386.65	131.27	3.946	
12,200.00	7,618.00	7,666.68	7,544.58	121.24	32.35	-91.27	-183.96	5,800.69	602.66	465.86	136.80	4.406	
12,300.00	7,618.00	7,667.85	7,545.76	121.19	32.35	-91.50	-183.98	5,800.69	691.48	551.01	140.47	4.923	
12,400.00	7,618.00	7,669.00	7,546.91	121.16	32.36	-91.72	-183.99	5,800.69	783.01	640.00	143.01	5.475	
12,500.00	7,618.00	7,670.13	7,548.03	121.14	32.36	-91.94	-184.01	5,800.69	876.38	731.56	144.82	6.052	
12,600.00	7,618.00	7,671.24	7,549.14	121.13	32.37	-92.15	-184.02	5,800.69	971.08	824.92	146.16	6.644	
12,700.00	7,618.00	7,672.32	7,550.22	121.13	32.37	-92.36	-184.03	5,800.69	1,066.74	919.56	147.18	7.248	
12,800.00	7,618.00	7,673.38	7,551.29	121.15	32.37	-92.57	-184.05	5,800.69	1,163.13	1,015.16	147.97	7.861	
12,900.00	7,618.00	7,674.42	7,552.33	121.18	32.37	-92.77	-184.06	5,800.69	1,260.08	1,111.49	148.59	8.480	
13,000.00	7,618.00	7,675.45	7,553.35	121.23	32.38	-92.97	-184.07	5,800.69	1,357.48	1,208.38	149.10	9.104	
13,100.00	7,618.00	7,676.45	7,554.35	121.29	32.38	-93.16	-184.08	5,800.69	1,455.22	1,305.71	149.52	9.733	
13,200.00	7,618.00	7,677.43	7,555.33	121.37	32.38	-93.35	-184.09	5,800.69	1,553.26	1,403.39	149.86	10.364	
13,300.00	7,618.00	7,678.40	7,556.30	121.46	32.39	-93.53	-184.10	5,800.70	1,651.52	1,501.37	150.16	10.999	
13,400.00	7,618.00	7,679.34	7,557.25	121.57	32.39	-93.72	-184.12	5,800.70	1,749.99	1,599.58	150.41	11.635	
13,500.00	7,618.00	7,680.27	7,558.18	121.70	32.39	-93.90	-184.13	5,800.70	1,848.62	1,697.99	150.62	12.273	
13,600.00	7,618.00	7,681.19	7,559.09	121.84	32.40	-94.07	-184.14	5,800.70	1,947.38	1,796.57	150.81	12.913	
13,700.00	7,618.00	7,682.08	7,559.99	122.01	32.40	-94.24	-184.15	5,800.70	2,046.27	1,895.29	150.98	13.554	
13,800.00	7,618.00	7,682.96	7,560.87	122.19	32.40	-94.41	-184.16	5,800.70	2,145.26	1,994.14	151.12	14.196	
13,900.00	7,618.00	7,683.83	7,561.73	122.39	32.40	-94.58	-184.16	5,800.70	2,244.34	2,093.09	151.25	14.839	
14,000.00	7,618.00	7,684.68	7,562.58	122.62	32.41	-94.74	-184.17	5,800.70	2,343.49	2,192.13	151.37	15.482	
14,100.00	7,618.00	7,685.52	7,563.42	122.86	32.41	-94.90	-184.18	5,800.70	2,442.72	2,291.25	151.47	16.127	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,200.00	7,618.00	7,686.34	7,564.24	123.12	32.41	-95.06	-184.19	5,800.70	2,542.00	2,390.44	151.57	16.772	
14,300.00	7,618.00	7,687.14	7,565.05	123.41	32.41	-95.22	-184.20	5,800.70	2,641.34	2,489.69	151.65	17.417	
14,400.00	7,618.00	7,687.94	7,565.84	123.72	32.42	-95.37	-184.21	5,800.70	2,740.73	2,589.00	151.73	18.063	
14,500.00	7,618.00	7,688.72	7,566.62	124.06	32.42	-95.52	-184.22	5,800.70	2,840.16	2,688.36	151.80	18.709	
14,600.00	7,618.00	7,689.48	7,567.39	124.42	32.42	-95.66	-184.22	5,800.71	2,939.63	2,787.76	151.87	19.356	
14,700.00	7,618.00	7,690.24	7,568.14	124.80	32.42	-95.81	-184.23	5,800.71	3,039.13	2,887.20	151.93	20.003	
14,800.00	7,618.00	7,690.98	7,568.88	125.21	32.43	-95.95	-184.24	5,800.71	3,138.66	2,986.67	151.99	20.650	
14,900.00	7,618.00	7,691.71	7,569.61	125.65	32.43	-96.09	-184.25	5,800.71	3,238.23	3,086.18	152.05	21.297	
15,000.00	7,618.00	7,692.43	7,570.33	126.11	32.43	-96.23	-184.25	5,800.71	3,337.82	3,185.72	152.10	21.945	
15,100.00	7,618.00	7,693.14	7,571.04	126.61	32.43	-96.36	-184.26	5,800.71	3,437.43	3,285.28	152.15	22.593	
15,200.00	7,618.00	7,693.83	7,571.73	127.13	32.43	-96.50	-184.27	5,800.71	3,537.06	3,384.87	152.19	23.240	
15,300.00	7,618.00	7,694.52	7,572.42	127.68	32.44	-96.63	-184.27	5,800.71	3,636.71	3,484.48	152.24	23.888	
15,400.00	7,618.00	7,695.19	7,573.09	128.26	32.44	-96.76	-184.28	5,800.71	3,736.39	3,584.11	152.28	24.536	
15,500.00	7,618.00	7,695.85	7,573.76	128.87	32.44	-96.88	-184.29	5,800.71	3,836.08	3,683.76	152.32	25.185	
15,600.00	7,618.00	7,704.00	7,581.90	129.51	32.47	-98.43	-184.36	5,800.73	3,935.79	3,783.42	152.37	25.831	
15,700.00	7,618.00	7,704.00	7,581.90	130.18	32.47	-98.43	-184.36	5,800.73	4,035.51	3,883.11	152.40	26.479	
15,800.00	7,618.00	7,704.00	7,581.90	130.88	32.47	-98.43	-184.36	5,800.73	4,135.24	3,982.80	152.44	27.128	
15,900.00	7,618.00	7,704.00	7,581.90	131.61	32.47	-98.43	-184.36	5,800.73	4,234.98	4,082.51	152.47	27.776	
16,000.00	7,618.00	7,704.00	7,581.90	132.37	32.47	-98.43	-184.36	5,800.73	4,334.74	4,182.24	152.50	28.424	
16,100.00	7,618.00	7,704.00	7,581.90	133.17	32.47	-98.43	-184.36	5,800.73	4,434.50	4,281.97	152.53	29.073	
16,200.00	7,618.00	7,704.00	7,581.90	133.99	32.47	-98.43	-184.36	5,800.73	4,534.28	4,381.72	152.56	29.721	
16,300.00	7,618.00	7,704.00	7,581.90	134.84	32.47	-98.43	-184.36	5,800.73	4,634.07	4,481.48	152.59	30.369	
16,400.00	7,618.00	7,704.00	7,581.90	135.72	32.47	-98.43	-184.36	5,800.73	4,733.86	4,581.24	152.62	31.017	
16,500.00	7,618.00	7,704.00	7,581.90	136.63	32.47	-98.43	-184.36	5,800.73	4,833.67	4,681.02	152.65	31.666	
16,600.00	7,618.00	7,704.00	7,581.90	137.57	32.47	-98.43	-184.36	5,800.73	4,933.48	4,780.80	152.67	32.314	
16,700.00	7,618.00	7,704.00	7,581.90	138.54	32.47	-98.43	-184.36	5,800.73	5,033.30	4,880.60	152.70	32.962	
16,800.00	7,618.00	7,704.00	7,581.90	139.53	32.47	-98.43	-184.36	5,800.73	5,133.12	4,980.40	152.73	33.610	
16,900.00	7,618.00	7,704.29	7,582.19	140.55	32.47	-98.48	-184.36	5,800.73	5,232.96	5,080.20	152.75	34.258	
17,000.00	7,618.00	7,705.19	7,583.09	141.60	32.47	-98.65	-184.37	5,800.73	5,332.79	5,180.02	152.78	34.906	
17,100.00	7,618.00	7,706.09	7,583.99	142.67	32.47	-98.82	-184.38	5,800.73	5,432.64	5,279.84	152.80	35.553	
17,200.00	7,618.00	7,706.99	7,584.90	143.77	32.47	-98.99	-184.39	5,800.73	5,532.49	5,379.66	152.83	36.200	
17,300.00	7,618.00	7,707.90	7,585.80	144.88	32.48	-99.16	-184.39	5,800.73	5,632.35	5,479.49	152.86	36.848	
17,400.00	7,618.00	7,708.80	7,586.71	146.02	32.48	-99.33	-184.40	5,800.73	5,732.21	5,579.33	152.88	37.495	
17,500.00	7,618.00	7,709.71	7,587.61	147.19	32.48	-99.51	-184.41	5,800.74	5,832.07	5,679.17	152.91	38.142	
17,600.00	7,618.00	7,710.62	7,588.52	148.37	32.49	-99.68	-184.42	5,800.74	5,931.94	5,779.01	152.93	38.789	
17,700.00	7,618.00	7,711.54	7,589.44	149.57	32.49	-99.85	-184.42	5,800.74	6,031.81	5,878.86	152.95	39.435	
17,800.00	7,618.00	7,712.45	7,590.35	150.79	32.49	-100.02	-184.43	5,800.74	6,131.69	5,978.71	152.98	40.082	
17,900.00	7,618.00	7,713.37	7,591.27	152.03	32.49	-100.19	-184.44	5,800.74	6,231.57	6,078.57	153.00	40.728	
18,000.00	7,618.00	7,714.28	7,592.19	153.29	32.50	-100.36	-184.45	5,800.74	6,331.46	6,178.43	153.03	41.375	
18,100.00	7,618.00	7,715.20	7,593.11	154.57	32.50	-100.54	-184.46	5,800.75	6,431.35	6,278.29	153.05	42.021	
18,200.00	7,618.00	7,716.13	7,594.03	155.86	32.50	-100.71	-184.46	5,800.75	6,531.24	6,378.16	153.08	42.667	
18,300.00	7,618.00	7,717.05	7,594.95	157.17	32.51	-100.88	-184.47	5,800.75	6,631.13	6,478.03	153.10	43.313	
18,400.00	7,618.00	7,717.98	7,595.88	158.49	32.51	-101.05	-184.48	5,800.75	6,731.03	6,577.91	153.12	43.958	
18,500.00	7,618.00	7,718.91	7,596.81	159.82	32.51	-101.23	-184.49	5,800.75	6,830.93	6,677.78	153.15	44.604	
18,600.00	7,618.00	7,719.84	7,597.74	161.17	32.51	-101.40	-184.50	5,800.76	6,930.84	6,777.66	153.17	45.249	
18,700.00	7,618.00	7,720.77	7,598.67	162.54	32.52	-101.57	-184.50	5,800.76	7,030.74	6,877.55	153.19	45.894	
18,800.00	7,618.00	7,721.71	7,599.61	163.91	32.52	-101.74	-184.51	5,800.76	7,130.65	6,977.43	153.22	46.539	
18,900.00	7,618.00	7,722.64	7,600.54	165.30	32.52	-101.92	-184.52	5,800.76	7,230.56	7,077.32	153.24	47.184	
19,000.00	7,618.00	7,723.58	7,601.48	166.70	32.53	-102.09	-184.53	5,800.76	7,330.47	7,177.21	153.27	47.828	
19,100.00	7,618.00	7,724.52	7,602.42	168.10	32.53	-102.27	-184.54	5,800.77	7,430.39	7,277.10	153.29	48.473	
19,200.00	7,618.00	7,725.47	7,603.37	169.52	32.53	-102.44	-184.55	5,800.77	7,530.31	7,376.99	153.31	49.117	
19,300.00	7,618.00	7,726.41	7,604.31	170.95	32.53	-102.61	-184.55	5,800.77	7,630.23	7,476.89	153.34	49.761	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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

Survey Program: 79-MWD OWSG

Offset Site Error: 0.00 usft

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
19,400.00	7,618.00	7,727.36	7,605.26	172.39	32.54	-102.79	-184.56	5,800.77	7,730.15	7,576.79	153.36	50.405	
19,500.00	7,618.00	7,728.31	7,606.21	173.84	32.54	-102.96	-184.57	5,800.78	7,830.07	7,676.69	153.39	51.048	
19,600.00	7,618.00	7,729.26	7,607.16	175.30	32.54	-103.14	-184.58	5,800.78	7,930.00	7,776.59	153.41	51.691	
19,700.00	7,618.00	7,730.21	7,608.11	176.76	32.55	-103.31	-184.59	5,800.78	8,029.93	7,876.49	153.43	52.335	
19,800.00	7,618.00	7,731.17	7,609.07	178.24	32.55	-103.49	-184.60	5,800.78	8,129.85	7,976.40	153.46	52.977	
19,896.19	7,618.00	7,732.09	7,609.99	179.66	32.55	-103.65	-184.60	5,800.78	8,225.98	8,072.49	153.48	53.596	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	81.90	761.94	5,352.65	5,407.21				
100.00	100.00	56.68	56.68	0.13	0.09	81.90	761.95	5,352.44	5,406.54	5,406.31	0.23	N/A	
200.00	200.00	177.51	177.50	0.49	0.36	81.89	762.16	5,350.87	5,405.20	5,404.34	0.86	6,308.400	
300.00	299.98	231.29	231.28	0.85	0.55	12.58	762.69	5,350.45	5,402.84	5,401.44	1.40	3,853.893	
400.00	399.84	321.00	320.96	1.21	0.87	12.59	764.84	5,349.95	5,397.53	5,395.45	2.08	2,594.642	
500.00	499.45	395.85	395.70	1.58	1.15	12.60	768.70	5,349.49	5,389.16	5,386.45	2.71	1,986.049	
600.00	598.70	461.07	460.70	1.97	1.39	12.61	774.07	5,349.20	5,377.99	5,374.67	3.32	1,619.613	
700.00	697.47	1,095.01	1,082.84	2.38	4.19	11.67	884.06	5,309.65	5,360.39	5,353.89	6.50	824.953	
800.00	795.62	1,175.92	1,161.17	2.83	4.61	11.60	901.80	5,299.89	5,333.36	5,326.09	7.28	732.952	
900.00	893.06	1,266.61	1,249.24	3.31	5.08	11.55	920.67	5,289.26	5,303.28	5,295.18	8.10	654.456	
1,000.00	989.64	1,313.97	1,295.37	3.83	5.32	11.60	929.98	5,283.96	5,270.38	5,261.66	8.72	604.601	
1,100.00	1,085.27	1,371.00	1,350.95	4.40	5.61	11.65	941.40	5,278.24	5,235.25	5,225.87	9.38	557.915	
1,200.00	1,179.82	1,409.15	1,388.10	5.02	5.80	11.74	949.32	5,274.69	5,197.70	5,187.73	9.97	521.333	
1,300.00	1,273.17	1,478.02	1,454.97	5.70	6.16	11.78	964.56	5,268.47	5,157.64	5,146.92	10.72	481.139	
1,400.00	1,365.21	1,617.38	1,589.54	6.43	6.92	11.68	998.15	5,254.85	5,114.15	5,102.29	11.86	431.191	
1,500.00	1,455.84	1,694.90	1,664.23	7.23	7.35	11.72	1,017.27	5,246.81	5,067.24	5,054.56	12.69	399.446	
1,600.00	1,544.94	1,761.22	1,728.47	8.09	7.70	11.82	1,032.44	5,240.47	5,017.79	5,004.34	13.45	373.003	
1,700.00	1,632.39	1,855.79	1,820.38	9.01	8.20	11.90	1,052.90	5,231.60	4,965.42	4,951.07	14.35	346.020	
1,800.00	1,718.11	1,931.29	1,894.05	10.00	8.58	12.06	1,067.91	5,224.77	4,910.21	4,895.06	15.15	324.155	
1,900.00	1,801.97	1,985.02	1,946.60	11.07	8.85	12.29	1,078.12	5,220.18	4,852.48	4,836.64	15.84	306.283	
2,000.00	1,883.88	2,055.28	2,015.26	12.20	9.20	12.53	1,091.89	5,214.49	4,792.43	4,775.81	16.62	288.288	
2,100.00	1,963.74	2,231.70	2,186.49	13.41	10.14	12.60	1,130.86	5,197.67	4,729.09	4,711.18	17.91	264.025	
2,200.00	2,041.45	2,329.13	2,281.23	14.69	10.65	12.86	1,151.05	5,187.19	4,661.97	4,643.15	18.81	247.816	
2,300.00	2,116.92	2,398.23	2,348.68	16.05	11.00	13.23	1,164.13	5,179.84	4,592.22	4,572.64	19.58	234.561	
2,357.48	2,159.25	2,426.81	2,376.63	16.86	11.14	13.48	1,169.35	5,176.88	4,551.09	4,531.12	19.97	227.861	
2,400.00	2,190.27	2,447.47	2,396.81	17.47	11.25	13.46	1,173.21	5,174.77	4,520.45	4,500.19	20.26	223.107	
2,500.00	2,263.22	2,493.00	2,441.24	18.92	11.47	13.42	1,182.04	5,170.21	4,448.62	4,427.70	20.93	212.568	
2,600.00	2,336.18	2,542.68	2,489.66	20.37	11.73	13.36	1,192.08	5,165.40	4,377.14	4,355.51	21.63	202.381	
2,700.00	2,409.14	2,595.40	2,540.97	21.84	12.00	13.29	1,203.17	5,160.52	4,306.03	4,283.68	22.35	192.668	
2,800.00	2,482.09	2,706.69	2,649.12	23.31	12.59	13.13	1,227.09	5,149.66	4,234.63	4,211.33	23.30	181.731	
2,900.00	2,555.05	2,796.27	2,736.18	24.78	13.07	13.00	1,245.99	5,140.36	4,162.79	4,138.62	24.17	172.250	
3,000.00	2,628.01	2,884.07	2,821.37	26.27	13.53	12.86	1,264.93	5,130.75	4,090.62	4,065.60	25.02	163.469	
3,100.00	2,700.96	2,934.82	2,870.51	27.75	13.81	12.76	1,276.31	5,125.17	4,018.53	3,992.76	25.76	155.974	
3,200.00	2,773.92	2,985.79	2,919.77	29.24	14.10	12.66	1,288.15	5,119.64	3,946.67	3,920.16	26.51	148.851	
3,300.00	2,846.88	3,032.32	2,964.61	30.73	14.36	12.55	1,299.60	5,114.73	3,875.22	3,847.96	27.26	142.155	
3,400.00	2,919.83	3,085.33	3,015.53	32.23	14.66	12.40	1,313.30	5,109.31	3,804.16	3,776.12	28.04	135.679	
3,500.00	2,992.79	3,143.92	3,071.80	33.72	15.00	12.23	1,328.57	5,103.49	3,733.36	3,704.52	28.84	129.445	
3,600.00	3,065.75	3,237.05	3,161.23	35.22	15.54	11.96	1,352.80	5,094.12	3,662.49	3,632.74	29.75	123.106	
3,700.00	3,138.71	3,323.34	3,244.06	36.72	16.04	11.69	1,375.19	5,084.94	3,591.24	3,560.61	30.63	117.234	
3,800.00	3,211.66	3,385.85	3,304.01	38.22	16.41	11.48	1,391.52	5,078.15	3,519.90	3,488.45	31.45	111.923	
3,900.00	3,284.62	3,461.79	3,376.79	39.72	16.86	11.22	1,411.65	5,070.02	3,448.75	3,416.45	32.30	106.767	
4,000.00	3,357.58	3,555.91	3,466.80	41.22	17.42	10.85	1,436.90	5,059.11	3,377.04	3,343.84	33.19	101.737	
4,100.00	3,430.53	3,621.12	3,529.12	42.73	17.81	10.59	1,454.47	5,051.44	3,305.29	3,271.27	34.02	97.164	
4,200.00	3,503.49	3,676.55	3,582.31	44.23	18.13	10.37	1,468.76	5,045.20	3,233.77	3,198.96	34.81	92.891	
4,300.00	3,576.45	3,734.02	3,637.78	45.74	18.46	10.17	1,482.54	5,039.21	3,162.56	3,126.94	35.61	88.802	
4,400.00	3,649.40	3,792.81	3,694.54	47.25	18.79	9.96	1,496.69	5,033.28	3,091.62	3,055.20	36.41	84.901	
4,500.00	3,722.36	3,884.28	3,782.62	48.75	19.31	9.59	1,519.44	5,023.78	3,020.65	2,983.40	37.26	81.079	
4,600.00	3,795.32	3,968.24	3,863.47	50.26	19.79	9.23	1,540.07	5,014.51	2,949.22	2,911.15	38.07	77.463	
4,700.00	3,868.27	4,041.77	3,934.67	51.77	20.19	8.94	1,556.59	5,006.51	2,877.60	2,838.73	38.87	74.031	
4,800.00	3,941.23	4,107.74	3,998.61	53.28	20.55	8.68	1,571.19	4,999.37	2,805.98	2,766.33	39.66	70.756	
4,900.00	4,014.19	4,166.64	4,055.89	54.79	20.86	8.46	1,583.54	4,993.34	2,734.61	2,694.17	40.44	67.616	
5,000.00	4,087.15	4,237.58	4,125.07	56.30	21.23	8.20	1,597.60	4,986.44	2,663.41	2,622.20	41.22	64.621	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
5,100.00	4,160.10	4,328.59	4,213.87	57.81	21.69	7.86	1,615.34	4,977.33	2,592.01	2,550.05	41.96	61.773	
5,200.00	4,233.06	4,422.89	4,305.62	59.32	22.19	7.45	1,634.32	4,966.67	2,519.85	2,477.16	42.69	59.030	
5,300.00	4,306.02	4,486.29	4,367.19	60.83	22.52	7.14	1,647.42	4,959.05	2,447.36	2,403.90	43.46	56.315	
5,400.00	4,378.97	4,532.34	4,412.02	62.34	22.76	6.92	1,656.60	4,953.97	2,375.44	2,331.17	44.27	53.656	
5,500.00	4,451.93	4,575.20	4,453.89	63.85	22.97	6.73	1,664.75	4,949.79	2,304.26	2,259.16	45.10	51.094	
5,600.00	4,524.89	4,615.28	4,493.23	65.36	23.16	6.57	1,671.73	4,946.61	2,234.01	2,188.07	45.94	48.629	
5,700.00	4,597.84	4,673.48	4,550.62	66.88	23.43	6.39	1,680.72	4,943.13	2,164.70	2,117.96	46.73	46.320	
5,800.00	4,670.80	4,770.75	4,646.83	68.39	23.83	6.13	1,693.64	4,936.99	2,094.74	2,047.39	47.36	44.233	
5,900.00	4,743.76	4,836.99	4,712.58	69.90	24.10	6.00	1,700.77	4,933.12	2,024.68	1,976.59	48.09	42.098	
6,000.00	4,816.71	4,900.80	4,776.04	71.41	24.33	5.92	1,706.62	4,929.91	1,954.85	1,906.01	48.83	40.030	
6,100.00	4,889.67	4,973.55	4,848.49	72.93	24.59	5.87	1,712.38	4,926.70	1,885.20	1,835.68	49.52	38.068	
6,200.00	4,962.63	5,044.12	4,918.85	74.44	24.82	5.86	1,716.82	4,923.75	1,815.39	1,765.18	50.22	36.151	
6,300.00	5,035.59	5,101.88	4,976.51	75.95	25.00	5.90	1,719.69	4,921.91	1,745.99	1,694.99	51.00	34.232	
6,400.00	5,108.54	5,180.52	5,055.10	77.47	25.22	6.04	1,721.84	4,920.20	1,676.85	1,625.22	51.62	32.482	
6,500.00	5,181.50	5,252.39	5,126.96	78.98	25.40	6.30	1,721.30	4,919.03	1,607.38	1,555.08	52.30	30.736	
6,600.00	5,254.46	5,320.14	5,194.68	80.49	25.55	6.63	1,719.84	4,918.42	1,538.15	1,485.14	53.02	29.013	
6,700.00	5,327.41	5,395.51	5,270.04	82.01	25.72	7.03	1,718.07	4,917.75	1,468.93	1,415.26	53.67	27.368	
6,800.00	5,400.37	5,479.30	5,353.79	83.52	25.91	7.52	1,716.15	4,916.52	1,399.35	1,345.11	54.25	25.796	
6,900.00	5,473.33	5,549.28	5,423.73	85.04	26.07	7.97	1,714.50	4,915.17	1,329.50	1,274.51	54.99	24.176	
7,000.00	5,546.28	5,615.86	5,490.30	86.55	26.23	8.44	1,713.08	4,914.02	1,259.87	1,204.06	55.81	22.574	
7,100.00	5,619.24	5,681.39	5,555.81	88.06	26.39	8.92	1,712.08	4,913.11	1,190.64	1,133.96	56.68	21.007	
7,200.00	5,692.20	5,749.42	5,623.83	89.58	26.55	9.47	1,711.34	4,912.39	1,121.77	1,064.21	57.56	19.489	
7,300.00	5,765.15	5,820.90	5,695.30	91.09	26.73	10.10	1,710.71	4,911.77	1,053.14	994.71	58.43	18.023	
7,400.00	5,838.11	5,891.73	5,766.13	92.61	26.91	10.81	1,710.16	4,911.13	984.59	925.21	59.38	16.583	
7,500.00	5,911.07	5,960.31	5,834.71	94.12	27.08	11.58	1,709.86	4,910.71	916.38	855.95	60.43	15.164	
7,600.00	5,984.03	6,034.20	5,908.60	95.64	27.27	12.52	1,709.69	4,910.30	848.37	786.90	61.47	13.800	
7,700.00	6,056.98	6,105.63	5,980.03	97.15	27.46	13.58	1,709.60	4,909.87	780.47	717.79	62.69	12.450	
7,800.00	6,129.94	6,177.34	6,051.74	98.67	27.66	14.81	1,709.76	4,909.53	712.90	648.85	64.05	11.131	
7,900.00	6,202.90	6,249.70	6,124.09	100.18	27.86	16.28	1,710.09	4,909.19	645.58	579.98	65.60	9.841	
8,000.00	6,275.85	6,320.70	6,195.09	101.70	28.05	18.03	1,710.51	4,908.99	578.71	511.22	67.49	8.575	
8,100.00	6,348.81	6,391.82	6,266.21	103.21	28.25	20.22	1,710.85	4,909.05	512.50	442.66	69.84	7.339	
8,200.00	6,421.77	6,464.78	6,339.18	104.73	28.44	23.13	1,710.82	4,909.35	447.12	374.29	72.84	6.139	
8,300.00	6,494.72	6,538.61	6,413.00	106.24	28.64	27.00	1,710.84	4,909.53	382.57	305.71	76.86	4.977	
8,400.00	6,567.68	6,611.28	6,485.67	107.76	28.83	32.17	1,710.80	4,909.71	319.55	236.91	82.64	3.867	
8,500.00	6,640.64	6,685.41	6,559.80	109.27	29.03	39.59	1,710.65	4,909.79	259.12	167.94	91.18	2.842	
8,600.00	6,713.59	6,758.43	6,632.82	110.79	29.23	50.16	1,710.48	4,909.64	203.56	99.40	104.16	1.954	
8,700.00	6,786.55	6,831.37	6,705.76	112.30	29.43	65.26	1,710.40	4,909.52	158.51	36.34	122.18	1.297	Level 3
8,800.00	6,859.51	6,904.34	6,778.73	113.82	29.63	85.02	1,710.39	4,909.31	134.85	-2.87	137.71	0.979	Level 1
8,823.81	6,876.88	6,921.63	6,796.02	114.18	29.67	90.09	1,710.39	4,909.25	133.85	-5.12	138.97	0.963	Level 1, CC, ES, SF
8,900.00	6,932.46	6,976.95	6,851.34	115.33	29.83	105.92	1,710.36	4,909.06	143.72	9.28	134.44	1.069	Level 2
9,000.00	7,005.42	7,049.69	6,924.08	116.85	30.03	123.37	1,710.30	4,908.81	180.44	61.84	118.60	1.521	
9,104.89	7,081.95	7,126.26	7,000.64	118.44	30.25	136.45	1,710.28	4,908.56	234.85	130.73	104.12	2.256	
9,150.00	7,115.15	7,159.58	7,033.97	119.12	30.34	134.50	1,710.32	4,908.45	259.64	160.49	99.15	2.619	
9,200.00	7,152.46	7,196.84	7,071.23	119.86	30.45	131.68	1,710.39	4,908.34	285.70	191.85	93.85	3.044	
9,250.00	7,190.04	7,234.15	7,108.53	120.57	30.56	128.45	1,710.49	4,908.18	310.36	221.60	88.76	3.497	
9,300.00	7,227.59	7,271.34	7,145.72	121.25	30.66	125.07	1,710.61	4,907.97	333.75	249.80	83.94	3.976	
9,350.00	7,264.83	7,308.00	7,182.38	121.89	30.77	121.71	1,710.73	4,907.73	356.02	276.49	79.54	4.476	
9,400.00	7,301.48	7,344.02	7,218.40	122.48	30.88	118.53	1,710.83	4,907.46	377.38	301.60	75.78	4.980	
9,450.00	7,337.26	7,379.32	7,253.70	123.01	30.98	115.65	1,710.93	4,907.17	398.02	325.05	72.97	5.455	
9,500.00	7,371.90	7,413.61	7,287.99	123.49	31.08	113.10	1,711.04	4,906.87	418.14	346.71	71.43	5.854	
9,550.00	7,405.13	7,446.44	7,320.82	123.91	31.18	110.86	1,711.17	4,906.57	437.97	366.59	71.38	6.136	
9,600.00	7,436.70	7,477.55	7,351.93	124.27	31.27	108.89	1,711.31	4,906.28	457.74	384.86	72.88	6.281	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	7,506.71	7,381.09	124.57	31.36	107.13	1,711.47	4,905.99	477.67	401.90	75.77	6.305	
9,700.00	7,493.91	7,533.70	7,408.07	124.81	31.44	105.52	1,711.63	4,905.72	497.96	418.23	79.73	6.246	
9,750.00	7,519.11	7,558.74	7,433.11	125.00	31.51	104.01	1,711.79	4,905.47	518.77	434.33	84.44	6.144	
9,800.00	7,541.79	7,581.83	7,456.20	125.12	31.58	102.58	1,711.92	4,905.26	540.19	450.59	89.59	6.029	
9,850.00	7,561.77	7,602.24	7,476.61	125.20	31.64	101.10	1,712.02	4,905.11	562.30	467.38	94.92	5.924	
9,900.00	7,578.90	7,619.80	7,494.17	125.23	31.69	99.52	1,712.09	4,905.00	585.15	484.93	100.22	5.839	
9,950.00	7,593.04	7,634.34	7,508.71	125.22	31.74	97.81	1,712.15	4,904.92	608.75	503.37	105.38	5.777	
10,000.00	7,604.09	7,645.72	7,520.08	125.17	31.77	95.95	1,712.18	4,904.88	633.03	522.74	110.29	5.740	
10,050.00	7,611.97	7,653.82	7,528.19	125.08	31.79	93.93	1,712.21	4,904.85	657.92	543.01	114.91	5.726	
10,100.00	7,616.61	7,658.12	7,532.49	124.97	31.81	91.75	1,712.22	4,904.83	683.29	564.11	119.17	5.733	
10,145.95	7,618.00	7,659.39	7,533.76	124.84	31.81	89.69	1,712.23	4,904.82	706.86	584.07	122.79	5.757	
10,200.00	7,618.00	7,659.21	7,533.58	124.69	31.81	89.68	1,712.22	4,904.83	736.15	609.57	126.57	5.816	
10,300.00	7,618.00	7,658.89	7,533.26	124.41	31.81	89.65	1,712.22	4,904.83	797.18	664.99	132.20	6.030	
10,400.00	7,618.00	7,658.56	7,532.93	124.14	31.81	89.62	1,712.22	4,904.83	865.50	729.16	136.33	6.348	
10,500.00	7,618.00	7,658.23	7,532.60	123.88	31.81	89.58	1,712.22	4,904.83	939.51	800.16	139.34	6.742	
10,600.00	7,618.00	7,657.91	7,532.28	123.63	31.81	89.55	1,712.22	4,904.83	1,017.97	876.44	141.53	7.193	
10,700.00	7,618.00	7,657.58	7,531.95	123.40	31.80	89.52	1,712.22	4,904.83	1,099.93	956.82	143.11	7.686	
10,800.00	7,618.00	7,657.26	7,531.62	123.18	31.80	89.49	1,712.22	4,904.83	1,184.66	1,040.41	144.26	8.212	
10,900.00	7,618.00	7,656.93	7,531.30	122.96	31.80	89.46	1,712.22	4,904.83	1,271.62	1,126.53	145.09	8.765	
11,000.00	7,618.00	7,656.60	7,530.97	122.76	31.80	89.43	1,712.22	4,904.83	1,360.37	1,214.68	145.69	9.338	
11,100.00	7,618.00	7,656.28	7,530.65	122.57	31.80	89.40	1,712.22	4,904.84	1,450.58	1,304.46	146.12	9.927	
11,200.00	7,618.00	7,655.95	7,530.32	122.39	31.80	89.37	1,712.21	4,904.84	1,542.00	1,395.58	146.42	10.531	
11,300.00	7,618.00	7,656.72	7,531.09	122.23	31.80	89.44	1,712.21	4,904.84	1,634.42	1,487.78	146.64	11.146	
11,400.00	7,618.00	7,656.44	7,530.80	122.07	31.80	89.41	1,712.21	4,904.84	1,727.69	1,580.91	146.78	11.770	
11,500.00	7,618.00	7,656.15	7,530.51	121.93	31.80	89.39	1,712.21	4,904.84	1,821.68	1,674.80	146.88	12.403	
11,600.00	7,618.00	7,655.85	7,530.22	121.79	31.80	89.36	1,712.21	4,904.84	1,916.27	1,769.34	146.93	13.042	
11,700.00	7,618.00	7,655.56	7,529.93	121.67	31.80	89.33	1,712.21	4,904.84	2,011.39	1,864.43	146.95	13.687	
11,800.00	7,618.00	7,655.26	7,529.63	121.56	31.80	89.30	1,712.21	4,904.84	2,106.95	1,960.00	146.95	14.338	
11,900.00	7,618.00	7,654.96	7,529.33	121.46	31.80	89.27	1,712.21	4,904.84	2,202.92	2,055.98	146.93	14.993	
12,000.00	7,618.00	7,654.66	7,529.03	121.38	31.80	89.25	1,712.21	4,904.84	2,299.22	2,152.32	146.90	15.651	
12,100.00	7,618.00	7,654.36	7,528.72	121.30	31.79	89.22	1,712.21	4,904.84	2,395.83	2,248.97	146.87	16.313	
12,200.00	7,618.00	7,654.05	7,528.42	121.24	31.79	89.19	1,712.21	4,904.84	2,492.71	2,345.89	146.82	16.978	
12,300.00	7,618.00	7,653.74	7,528.11	121.19	31.79	89.16	1,712.20	4,904.85	2,589.82	2,443.05	146.77	17.646	
12,400.00	7,618.00	7,653.43	7,527.80	121.16	31.79	89.13	1,712.20	4,904.85	2,687.15	2,540.43	146.71	18.316	
12,500.00	7,618.00	7,653.11	7,527.48	121.14	31.79	89.10	1,712.20	4,904.85	2,784.66	2,638.00	146.66	18.988	
12,600.00	7,618.00	7,652.80	7,527.17	121.13	31.79	89.07	1,712.20	4,904.85	2,882.35	2,735.75	146.60	19.662	
12,700.00	7,618.00	7,652.48	7,526.85	121.13	31.79	89.04	1,712.20	4,904.85	2,980.18	2,833.65	146.54	20.337	
12,800.00	7,618.00	7,652.15	7,526.52	121.15	31.79	89.01	1,712.20	4,904.85	3,078.16	2,931.68	146.48	21.015	
12,900.00	7,618.00	7,651.83	7,526.20	121.18	31.79	88.98	1,712.20	4,904.85	3,176.27	3,029.85	146.42	21.693	
13,000.00	7,618.00	7,651.50	7,525.87	121.23	31.79	88.95	1,712.20	4,904.85	3,274.48	3,128.12	146.36	22.373	
13,100.00	7,618.00	7,651.17	7,525.54	121.29	31.79	88.92	1,712.20	4,904.85	3,372.81	3,226.51	146.30	23.054	
13,200.00	7,618.00	7,650.84	7,525.21	121.37	31.78	88.89	1,712.20	4,904.86	3,471.23	3,324.98	146.24	23.736	
13,300.00	7,618.00	7,650.50	7,524.87	121.46	31.78	88.85	1,712.20	4,904.86	3,569.73	3,423.54	146.19	24.419	
13,400.00	7,618.00	7,650.16	7,524.53	121.57	31.78	88.82	1,712.19	4,904.86	3,668.32	3,522.19	146.13	25.103	
13,500.00	7,618.00	7,649.82	7,524.19	121.70	31.78	88.79	1,712.19	4,904.86	3,766.98	3,620.90	146.08	25.787	
13,600.00	7,618.00	7,649.48	7,523.84	121.84	31.78	88.76	1,712.19	4,904.86	3,865.71	3,719.68	146.03	26.472	
13,700.00	7,618.00	7,649.13	7,523.50	122.01	31.78	88.72	1,712.19	4,904.86	3,964.51	3,818.53	145.98	27.158	
13,800.00	7,618.00	7,648.78	7,523.15	122.19	31.78	88.69	1,712.19	4,904.86	4,063.36	3,917.43	145.93	27.845	
13,900.00	7,618.00	7,648.42	7,522.79	122.39	31.78	88.66	1,712.19	4,904.87	4,162.27	4,016.39	145.88	28.532	
14,000.00	7,618.00	7,648.07	7,522.44	122.62	31.78	88.62	1,712.19	4,904.87	4,261.23	4,115.39	145.84	29.219	
14,100.00	7,618.00	7,647.71	7,522.08	122.86	31.78	88.59	1,712.19	4,904.87	4,360.23	4,214.44	145.79	29.907	
14,200.00	7,618.00	7,647.34	7,521.71	123.12	31.77	88.55	1,712.19	4,904.87	4,459.28	4,313.54	145.75	30.596	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	7,646.98	7,521.35	123.41	31.77	88.52	1,712.19	4,904.87	4,558.37	4,412.67	145.71	31.285	
14,400.00	7,618.00	7,646.61	7,520.98	123.72	31.77	88.49	1,712.18	4,904.87	4,657.51	4,511.84	145.67	31.974	
14,500.00	7,618.00	7,646.23	7,520.60	124.06	31.77	88.45	1,712.18	4,904.87	4,756.67	4,611.05	145.63	32.663	
14,600.00	7,618.00	7,645.86	7,520.23	124.42	31.77	88.41	1,712.18	4,904.87	4,855.87	4,710.28	145.59	33.353	
14,700.00	7,618.00	7,645.48	7,519.85	124.80	31.77	88.38	1,712.18	4,904.88	4,955.11	4,809.55	145.55	34.043	
14,800.00	7,618.00	7,645.09	7,519.46	125.21	31.77	88.34	1,712.18	4,904.88	5,054.37	4,908.85	145.52	34.733	
14,900.00	7,618.00	7,644.71	7,519.08	125.65	31.77	88.31	1,712.18	4,904.88	5,153.66	5,008.18	145.49	35.424	
15,000.00	7,618.00	7,644.32	7,518.69	126.11	31.76	88.27	1,712.18	4,904.88	5,252.98	5,107.53	145.45	36.115	
15,100.00	7,618.00	7,643.92	7,518.29	126.61	31.76	88.23	1,712.18	4,904.88	5,352.33	5,206.90	145.42	36.805	
15,200.00	7,618.00	7,643.53	7,517.90	127.13	31.76	88.19	1,712.18	4,904.88	5,451.70	5,306.30	145.39	37.496	
15,300.00	7,618.00	7,643.12	7,517.49	127.68	31.76	88.16	1,712.17	4,904.89	5,551.09	5,405.72	145.36	38.188	
15,400.00	7,618.00	7,642.72	7,517.09	128.26	31.76	88.12	1,712.17	4,904.89	5,650.50	5,505.16	145.34	38.879	
15,500.00	7,618.00	7,642.31	7,516.68	128.87	31.76	88.08	1,712.17	4,904.89	5,749.93	5,604.62	145.31	39.570	
15,600.00	7,618.00	7,641.90	7,516.27	129.51	31.76	88.04	1,712.17	4,904.89	5,849.38	5,704.10	145.28	40.262	
15,700.00	7,618.00	7,641.48	7,515.85	130.18	31.76	88.00	1,712.17	4,904.89	5,948.85	5,803.59	145.26	40.953	
15,800.00	7,618.00	7,641.06	7,515.43	130.88	31.76	87.96	1,712.17	4,904.89	6,048.34	5,903.10	145.24	41.645	
15,900.00	7,618.00	7,640.64	7,515.01	131.61	31.75	87.92	1,712.17	4,904.90	6,147.85	6,002.63	145.21	42.336	
16,000.00	7,618.00	7,640.21	7,514.58	132.37	31.75	87.88	1,712.16	4,904.90	6,247.37	6,102.17	145.19	43.028	
16,100.00	7,618.00	7,639.78	7,514.15	133.17	31.75	87.84	1,712.16	4,904.90	6,346.90	6,201.73	145.17	43.720	
16,200.00	7,618.00	7,639.34	7,513.71	133.99	31.75	87.80	1,712.16	4,904.90	6,446.45	6,301.30	145.15	44.411	
16,300.00	7,618.00	7,638.90	7,513.27	134.84	31.75	87.76	1,712.16	4,904.90	6,546.01	6,400.88	145.13	45.103	
16,400.00	7,618.00	7,638.45	7,512.82	135.72	31.75	87.71	1,712.16	4,904.91	6,645.59	6,500.47	145.12	45.795	
16,500.00	7,618.00	7,638.00	7,512.37	136.63	31.75	87.67	1,712.16	4,904.91	6,745.18	6,600.08	145.10	46.486	
16,600.00	7,618.00	7,637.55	7,511.92	137.57	31.74	87.63	1,712.16	4,904.91	6,844.78	6,699.70	145.08	47.178	
16,700.00	7,618.00	7,637.09	7,511.46	138.54	31.74	87.59	1,712.15	4,904.91	6,944.39	6,799.32	145.07	47.870	
16,800.00	7,618.00	7,636.63	7,511.00	139.53	31.74	87.54	1,712.15	4,904.91	7,044.02	6,898.96	145.05	48.561	
16,900.00	7,618.00	7,636.16	7,510.53	140.55	31.74	87.50	1,712.15	4,904.92	7,143.65	6,998.61	145.04	49.253	
17,000.00	7,618.00	7,635.69	7,510.06	141.60	31.74	87.45	1,712.15	4,904.92	7,243.29	7,098.27	145.03	49.944	
17,100.00	7,618.00	7,635.21	7,509.58	142.67	31.74	87.41	1,712.15	4,904.92	7,342.95	7,197.93	145.02	50.635	
17,200.00	7,618.00	7,634.73	7,509.10	143.77	31.74	87.36	1,712.15	4,904.92	7,442.61	7,297.61	145.00	51.327	
17,300.00	7,618.00	7,634.24	7,508.61	144.88	31.73	87.32	1,712.15	4,904.93	7,542.28	7,397.29	144.99	52.018	
17,400.00	7,618.00	7,633.75	7,508.12	146.02	31.73	87.27	1,712.14	4,904.93	7,641.96	7,496.98	144.98	52.709	
17,500.00	7,618.00	7,633.25	7,507.62	147.19	31.73	87.22	1,712.14	4,904.93	7,741.65	7,596.68	144.98	53.400	
17,600.00	7,618.00	7,632.75	7,507.12	148.37	31.73	87.18	1,712.14	4,904.93	7,841.35	7,696.38	144.97	54.091	
17,700.00	7,618.00	7,632.24	7,506.61	149.57	31.73	87.13	1,712.14	4,904.93	7,941.05	7,796.09	144.96	54.782	
17,800.00	7,618.00	7,631.73	7,506.10	150.79	31.73	87.08	1,712.14	4,904.94	8,040.76	7,895.81	144.95	55.472	
17,900.00	7,618.00	7,631.21	7,505.58	152.03	31.73	87.03	1,712.13	4,904.94	8,140.48	7,995.54	144.94	56.163	
18,000.00	7,618.00	7,630.68	7,505.05	153.29	31.72	86.98	1,712.13	4,904.94	8,240.21	8,095.27	144.94	56.853	
18,100.00	7,618.00	7,630.15	7,504.52	154.57	31.72	86.93	1,712.13	4,904.94	8,339.94	8,195.01	144.93	57.543	
18,200.00	7,618.00	7,629.62	7,503.99	155.86	31.72	86.88	1,712.13	4,904.95	8,439.68	8,294.75	144.93	58.234	
18,300.00	7,618.00	7,629.08	7,503.45	157.17	31.72	86.83	1,712.13	4,904.95	8,539.42	8,394.50	144.92	58.923	
18,400.00	7,618.00	7,628.53	7,502.90	158.49	31.72	86.78	1,712.12	4,904.95	8,639.17	8,494.25	144.92	59.613	
18,500.00	7,618.00	7,627.98	7,502.35	159.82	31.72	86.73	1,712.12	4,904.96	8,738.93	8,594.01	144.92	60.303	
18,600.00	7,618.00	7,627.42	7,501.79	161.17	31.71	86.67	1,712.12	4,904.96	8,838.69	8,693.77	144.91	60.992	
18,700.00	7,618.00	7,626.85	7,501.22	162.54	31.71	86.62	1,712.12	4,904.96	8,938.46	8,793.54	144.91	61.682	
18,800.00	7,618.00	7,626.28	7,500.65	163.91	31.71	86.57	1,712.12	4,904.96	9,038.23	8,893.32	144.91	62.371	
18,900.00	7,618.00	7,625.71	7,500.08	165.30	31.71	86.51	1,712.11	4,904.97	9,138.00	8,993.09	144.91	63.060	
19,000.00	7,618.00	7,625.12	7,499.49	166.70	31.71	86.46	1,712.11	4,904.97	9,237.79	9,092.88	144.91	63.749	
19,100.00	7,618.00	7,624.53	7,498.90	168.10	31.71	86.40	1,712.11	4,904.97	9,337.57	9,192.66	144.91	64.437	
19,200.00	7,618.00	7,623.93	7,498.30	169.52	31.70	86.35	1,712.11	4,904.98	9,437.36	9,292.45	144.91	65.126	
19,300.00	7,618.00	7,623.33	7,497.70	170.95	31.70	86.29	1,712.11	4,904.98	9,537.16	9,392.25	144.91	65.814	
19,400.00	7,618.00	7,622.72	7,497.09	172.39	31.70	86.23	1,712.10	4,904.98	9,636.96	9,492.04	144.91	66.502	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,500.00	7,618.00	7,622.10	7,496.47	173.84	31.70	86.17	1,712.10	4,904.99	9,736.76	9,591.85	144.91	67.190	
19,600.00	7,618.00	7,621.47	7,495.84	175.30	31.70	86.11	1,712.10	4,904.99	9,836.57	9,691.65	144.92	67.877	
19,700.00	7,618.00	7,620.84	7,495.21	176.76	31.70	86.05	1,712.10	4,904.99	9,936.38	9,791.46	144.92	68.565	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	81.78	776.52	5,377.84	5,434.22				
100.00	100.00	0.00	0.00	0.13	0.00	81.78	776.52	5,377.84	5,433.65	5,433.51	0.13	N/A	
200.00	200.00	67.29	67.28	0.49	0.11	81.78	776.85	5,378.12	5,434.18	5,433.58	0.60	9,005.219	
300.00	299.98	138.00	137.98	0.85	0.23	12.46	777.90	5,379.00	5,433.86	5,432.79	1.07	5,067.888	
400.00	399.84	164.75	164.72	1.21	0.33	12.47	778.54	5,379.56	5,430.97	5,429.45	1.53	3,558.863	
500.00	499.45	200.44	200.38	1.58	0.46	12.49	779.69	5,380.63	5,425.89	5,423.87	2.02	2,690.682	
600.00	598.70	229.00	228.89	1.97	0.56	12.52	780.87	5,381.75	5,418.59	5,416.10	2.49	2,180.468	
700.00	697.47	267.12	266.92	2.38	0.70	12.56	782.64	5,383.70	5,409.10	5,406.10	2.99	1,806.421	
800.00	795.62	320.00	319.61	2.83	0.90	12.61	785.26	5,387.32	5,397.60	5,394.04	3.56	1,515.211	
900.00	893.06	320.00	319.61	3.31	0.90	12.67	785.26	5,387.32	5,383.74	5,379.80	3.94	1,365.206	
1,000.00	989.64	373.25	372.58	3.83	1.11	12.75	788.19	5,391.89	5,367.68	5,363.15	4.53	1,185.105	
1,100.00	1,085.27	411.00	410.08	4.40	1.26	12.84	790.48	5,395.56	5,349.38	5,344.31	5.06	1,056.231	
1,200.00	1,179.82	451.86	450.61	5.02	1.42	12.94	793.29	5,399.94	5,328.82	5,323.19	5.63	947.324	
1,300.00	1,273.17	503.00	501.22	5.70	1.63	13.06	797.46	5,406.00	5,306.05	5,299.81	6.23	851.200	
1,400.00	1,365.21	529.75	527.62	6.43	1.75	13.18	799.96	5,409.41	5,280.97	5,274.21	6.77	780.544	
1,500.00	1,455.84	568.97	566.27	7.23	1.92	13.32	804.10	5,414.71	5,253.70	5,246.34	7.36	714.041	
1,600.00	1,544.94	611.82	608.36	8.09	2.12	13.46	809.25	5,420.86	5,224.19	5,216.21	7.98	654.737	
1,700.00	1,632.39	661.12	656.62	9.01	2.35	13.62	816.02	5,428.25	5,192.33	5,183.68	8.64	600.735	
1,800.00	1,718.11	707.31	701.70	10.00	2.57	13.79	823.14	5,435.46	5,158.09	5,148.78	9.31	553.892	
1,900.00	1,801.97	750.59	743.78	11.07	2.79	13.97	830.30	5,442.55	5,121.59	5,111.60	9.99	512.809	
2,000.00	1,883.88	806.13	797.60	12.20	3.07	14.17	840.13	5,452.08	5,082.80	5,072.06	10.73	473.573	
2,100.00	1,963.74	885.82	874.57	13.41	3.50	14.38	855.52	5,465.86	5,041.31	5,029.71	11.60	434.694	
2,200.00	2,041.45	983.66	968.76	14.69	4.03	14.59	876.23	5,482.37	4,996.67	4,984.10	12.57	397.558	
2,300.00	2,116.92	1,048.93	1,031.39	16.05	4.40	14.84	890.94	5,493.38	4,949.24	4,935.83	13.42	368.918	
2,357.48	2,159.25	1,094.91	1,075.41	16.86	4.66	14.99	901.65	5,501.22	4,920.81	4,906.86	13.95	352.745	
2,400.00	2,190.27	1,137.28	1,115.94	17.47	4.91	14.97	911.74	5,508.38	4,899.39	4,885.01	14.38	340.611	
2,500.00	2,263.22	1,315.99	1,287.56	18.92	5.92	14.89	953.02	5,536.22	4,847.38	4,831.63	15.75	307.751	
2,600.00	2,336.18	1,387.42	1,356.26	20.37	6.33	14.87	969.26	5,547.12	4,795.44	4,778.80	16.65	288.057	
2,700.00	2,409.14	1,454.25	1,420.42	21.84	6.71	14.84	984.86	5,557.46	4,743.79	4,726.25	17.53	270.534	
2,800.00	2,482.09	1,515.68	1,479.23	23.31	7.07	14.80	999.68	5,567.18	4,692.54	4,674.13	18.41	254.892	
2,900.00	2,555.05	1,571.76	1,532.80	24.78	7.41	14.77	1,013.53	5,576.31	4,641.80	4,622.52	19.27	240.841	
3,000.00	2,628.01	1,632.89	1,591.11	26.27	7.77	14.73	1,028.72	5,586.66	4,591.61	4,571.45	20.17	227.695	
3,100.00	2,700.96	1,729.99	1,683.84	27.75	8.35	14.67	1,052.14	5,603.37	4,541.60	4,520.39	21.21	214.119	
3,200.00	2,773.92	1,866.52	1,815.15	29.24	9.14	14.64	1,081.57	5,626.40	4,490.83	4,468.44	22.39	200.551	
3,300.00	2,846.88	2,028.21	1,971.95	30.73	10.02	14.68	1,111.40	5,652.18	4,438.74	4,415.12	23.62	187.908	
3,400.00	2,919.83	2,101.27	2,043.20	32.23	10.39	14.73	1,122.70	5,663.74	4,386.23	4,361.70	24.53	178.809	
3,500.00	2,992.79	2,163.05	2,103.47	33.72	10.71	14.78	1,131.75	5,673.87	4,334.09	4,308.68	25.40	170.604	
3,600.00	3,065.75	2,205.38	2,144.72	35.22	10.93	14.82	1,137.90	5,681.09	4,282.56	4,256.33	26.23	163.276	
3,700.00	3,138.71	2,241.34	2,179.67	36.72	11.12	14.85	1,143.32	5,687.63	4,232.03	4,204.98	27.04	156.490	
3,800.00	3,211.66	2,272.00	2,209.37	38.22	11.28	14.88	1,148.09	5,693.51	4,182.54	4,154.69	27.85	150.180	
3,900.00	3,284.62	2,326.14	2,261.69	39.72	11.58	14.92	1,156.75	5,704.43	4,133.94	4,105.20	28.74	143.830	
4,000.00	3,357.58	2,379.34	2,312.95	41.22	11.88	14.96	1,165.47	5,715.69	4,086.21	4,056.57	29.64	137.868	
4,100.00	3,430.53	2,464.76	2,395.11	42.73	12.37	15.01	1,180.01	5,733.99	4,038.82	4,008.18	30.64	131.801	
4,200.00	3,503.49	2,531.05	2,458.80	44.23	12.76	15.05	1,191.41	5,748.38	3,991.72	3,960.12	31.60	126.336	
4,300.00	3,576.45	2,636.25	2,559.87	45.74	13.37	15.12	1,209.39	5,771.41	3,944.79	3,912.13	32.67	120.750	
4,400.00	3,649.40	2,798.63	2,716.46	47.25	14.30	15.23	1,237.06	5,804.22	3,896.03	3,862.13	33.89	114.948	
4,500.00	3,722.36	2,874.14	2,789.29	48.75	14.73	15.28	1,250.28	5,819.14	3,847.24	3,812.36	34.88	110.303	
4,600.00	3,795.32	2,967.85	2,879.60	50.26	15.27	15.32	1,267.52	5,837.29	3,798.23	3,762.31	35.92	105.745	
4,700.00	3,868.27	3,030.58	2,939.78	51.77	15.63	15.33	1,280.12	5,849.70	3,749.80	3,712.92	36.88	101.663	
4,800.00	3,941.23	3,146.41	3,050.96	53.28	16.32	15.34	1,303.73	5,872.02	3,700.92	3,662.94	37.98	97.438	
4,900.00	4,014.19	3,211.45	3,113.43	54.79	16.70	15.36	1,316.59	5,884.77	3,652.32	3,613.35	38.96	93.736	
5,000.00	4,087.15	3,313.28	3,211.36	56.30	17.30	15.40	1,335.88	5,904.94	3,603.79	3,563.76	40.03	90.033	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	3,372.45	3,268.23	57.81	17.64	15.43	1,347.07	5,916.84	3,555.49	3,514.48	41.01	86.707	
5,200.00	4,233.06	3,454.66	3,347.10	59.32	18.13	15.46	1,363.02	5,933.69	3,507.63	3,465.60	42.04	83.443	
5,300.00	4,306.02	3,546.00	3,434.67	60.83	18.68	15.48	1,381.20	5,952.26	3,459.71	3,416.62	43.09	80.297	
5,400.00	4,378.97	3,632.95	3,517.96	62.34	19.20	15.49	1,398.89	5,969.84	3,411.74	3,367.61	44.13	77.314	
5,500.00	4,451.93	5,500.00	3,631.42	63.85	30.14	15.53	1,422.21	5,993.22	3,363.27	3,309.71	53.56	62.796	
5,600.00	4,524.89	3,835.73	3,712.86	65.36	20.39	15.57	1,438.38	6,009.48	3,314.25	3,268.00	46.25	71.652	
5,700.00	4,597.84	3,905.05	3,779.47	66.88	20.80	15.59	1,451.70	6,023.34	3,265.91	3,218.63	47.28	69.078	
5,800.00	4,670.80	3,987.80	3,858.89	68.39	21.28	15.63	1,467.85	6,040.06	3,217.83	3,169.50	48.32	66.592	
5,900.00	4,743.76	4,096.18	3,963.09	69.90	21.92	15.69	1,487.90	6,062.05	3,169.71	3,120.31	49.39	64.172	
6,000.00	4,816.71	4,187.73	4,051.37	71.41	22.45	15.76	1,504.42	6,079.84	3,120.72	3,070.27	50.45	61.858	
6,100.00	4,889.67	4,271.92	4,132.37	72.93	22.93	15.81	1,519.96	6,096.74	3,072.36	3,020.86	51.50	59.654	
6,200.00	4,962.63	4,390.65	4,246.70	74.44	23.62	15.86	1,543.08	6,118.87	3,022.74	2,970.18	52.56	57.509	
6,300.00	5,035.59	4,475.94	4,328.76	75.95	24.11	15.89	1,560.04	6,134.78	2,973.33	2,919.72	53.61	55.465	
6,400.00	5,108.54	4,563.54	4,413.09	77.47	24.62	15.92	1,577.40	6,150.95	2,923.74	2,869.08	54.66	53.491	
6,500.00	5,181.50	4,673.80	4,519.02	78.98	25.27	15.94	1,600.42	6,171.09	2,874.20	2,818.51	55.69	51.612	
6,600.00	5,254.46	4,833.87	4,673.63	80.49	26.16	15.98	1,632.49	6,197.22	2,822.71	2,766.07	56.65	49.832	
6,700.00	5,327.41	4,935.21	4,771.90	82.01	26.71	16.02	1,652.27	6,212.18	2,769.86	2,712.22	57.64	48.054	
6,800.00	5,400.37	5,042.65	4,876.24	83.52	27.28	16.08	1,672.57	6,227.79	2,716.82	2,658.20	58.62	46.345	
6,900.00	5,473.33	5,226.30	5,055.83	85.04	28.17	16.26	1,703.85	6,249.80	2,661.03	2,601.65	59.37	44.819	
7,000.00	5,546.28	5,309.95	5,138.32	86.55	28.54	16.45	1,714.09	6,259.04	2,604.23	2,543.82	60.41	43.109	
7,100.00	5,619.24	5,397.98	5,225.33	88.06	28.91	16.72	1,723.05	6,269.00	2,547.43	2,485.98	61.46	41.450	
7,200.00	5,692.20	7,200.00	5,518.02	89.58	34.44	17.95	1,743.02	6,292.01	2,488.71	2,422.35	66.36	37.502	
7,300.00	5,765.15	5,872.69	5,698.22	91.09	30.43	19.07	1,746.21	6,293.98	2,422.96	2,360.74	62.21	38.946	
7,400.00	5,838.11	5,965.61	5,791.14	92.61	30.63	19.74	1,746.54	6,292.89	2,355.84	2,292.61	63.23	37.259	
7,500.00	5,911.07	6,044.47	5,869.99	94.12	30.81	20.34	1,746.86	6,291.59	2,288.52	2,224.16	64.36	35.558	
7,600.00	5,984.03	6,122.44	5,947.94	95.64	30.98	20.97	1,747.22	6,290.08	2,221.13	2,155.59	65.54	33.890	
7,700.00	6,056.98	6,193.72	6,019.20	97.15	31.14	21.58	1,747.54	6,288.62	2,153.81	2,086.99	66.82	32.235	
7,800.00	6,129.94	6,263.82	6,089.29	98.67	31.29	22.22	1,747.80	6,287.21	2,086.65	2,018.49	68.16	30.615	
7,900.00	6,202.90	6,337.19	6,162.65	100.18	31.46	22.94	1,747.89	6,285.78	2,019.70	1,950.16	69.54	29.043	
8,000.00	6,275.85	6,410.92	6,236.36	101.70	31.62	23.72	1,747.50	6,284.24	1,952.81	1,881.81	71.00	27.503	
8,100.00	6,348.81	6,477.98	6,303.40	103.21	31.77	24.50	1,746.90	6,282.93	1,886.23	1,813.62	72.61	25.977	
8,200.00	6,421.77	6,540.17	6,365.58	104.73	31.91	25.25	1,746.45	6,281.92	1,820.15	1,745.80	74.35	24.481	
8,300.00	6,494.72	6,606.76	6,432.17	106.24	32.06	26.08	1,746.50	6,281.17	1,754.70	1,678.56	76.14	23.047	
8,400.00	6,567.68	6,680.43	6,505.84	107.76	32.24	27.06	1,746.78	6,280.36	1,689.58	1,611.61	77.96	21.672	
8,500.00	6,640.64	6,747.12	6,572.53	109.27	32.40	28.00	1,747.11	6,279.73	1,624.89	1,544.91	79.98	20.317	
8,600.00	6,713.59	6,815.29	6,640.69	110.79	32.57	29.03	1,747.41	6,279.29	1,560.78	1,478.67	82.11	19.008	
8,700.00	6,786.55	6,884.10	6,709.50	112.30	32.74	30.15	1,747.49	6,279.03	1,497.27	1,412.87	84.40	17.739	
8,800.00	6,859.51	6,953.51	6,778.91	113.82	32.91	31.38	1,747.36	6,278.92	1,434.42	1,347.55	86.87	16.512	
8,900.00	6,932.46	7,024.64	6,850.03	115.33	33.08	32.74	1,747.03	6,278.93	1,372.25	1,282.72	89.53	15.328	
9,000.00	7,005.42	7,095.98	6,921.38	116.85	33.25	34.23	1,746.48	6,279.00	1,310.80	1,218.39	92.41	14.185	
9,104.89	7,081.95	7,170.65	6,996.05	118.44	33.43	35.92	1,745.63	6,279.13	1,247.22	1,151.50	95.72	13.030	
9,150.00	7,115.15	7,202.97	7,028.35	119.12	33.50	28.58	1,745.21	6,279.22	1,219.72	1,122.63	97.09	12.563	
9,200.00	7,152.46	7,239.73	7,065.11	119.86	33.59	19.81	1,744.72	6,279.34	1,188.40	1,090.09	98.32	12.088	
9,250.00	7,190.04	7,278.89	7,104.27	120.57	33.69	10.50	1,744.23	6,279.45	1,156.29	1,057.12	99.17	11.660	
9,300.00	7,227.59	7,318.01	7,143.38	121.25	33.78	0.73	1,743.78	6,279.52	1,123.52	1,023.88	99.64	11.276	
9,350.00	7,264.83	7,355.64	7,181.02	121.89	33.87	-9.31	1,743.37	6,279.55	1,090.34	990.63	99.70	10.936	
9,400.00	7,301.48	7,392.36	7,217.73	122.48	33.96	-19.40	1,742.93	6,279.58	1,057.03	957.72	99.32	10.643	
9,450.00	7,337.26	7,428.28	7,253.65	123.01	34.05	-29.36	1,742.44	6,279.61	1,023.95	925.50	98.45	10.401	
9,500.00	7,371.90	7,461.99	7,287.36	123.49	34.13	-38.94	1,741.93	6,279.65	991.48	894.40	97.08	10.213	
9,550.00	7,405.13	7,494.73	7,320.09	123.91	34.21	-47.98	1,741.37	6,279.71	960.10	864.92	95.18	10.087	
9,600.00	7,436.70	7,525.95	7,351.30	124.27	34.29	-56.33	1,740.79	6,279.80	930.31	837.56	92.75	10.030	SF
9,650.00	7,466.36	7,555.31	7,380.66	124.57	34.36	-63.86	1,740.24	6,279.91	902.69	812.87	89.82	10.050	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,700.00	7,493.91	7,582.70	7,408.04	124.81	34.42	-70.50	1,739.73	6,280.04	877.84	791.40	86.45	10.155	
9,750.00	7,519.11	7,607.89	7,433.23	125.00	34.49	-76.22	1,739.27	6,280.19	856.43	773.65	82.78	10.346	
9,800.00	7,541.79	7,630.97	7,456.31	125.12	34.54	-81.03	1,738.85	6,280.34	839.09	760.04	79.05	10.614	
9,850.00	7,561.77	7,651.44	7,476.77	125.20	34.59	-84.94	1,738.49	6,280.48	826.42	750.83	75.60	10.932	
9,900.00	7,578.90	7,669.12	7,494.45	125.23	34.64	-87.95	1,738.18	6,280.61	818.95	746.12	72.83	11.244	
9,941.49	7,590.85	7,681.58	7,506.91	125.22	34.67	-89.79	1,737.96	6,280.71	816.97	745.61	71.37	11.447	CC, ES
9,950.00	7,593.04	7,683.88	7,509.21	125.22	34.67	-90.09	1,737.92	6,280.73	817.06	745.88	71.18	11.479	
10,000.00	7,604.09	7,695.62	7,520.94	125.17	34.70	-91.37	1,737.71	6,280.82	820.97	750.07	70.90	11.579	
10,050.00	7,611.97	7,704.22	7,529.55	125.08	34.73	-91.78	1,737.57	6,280.90	830.69	758.70	71.99	11.538	
10,100.00	7,616.61	7,709.65	7,534.97	124.97	34.74	-91.30	1,737.47	6,280.94	846.06	771.87	74.20	11.403	
10,145.95	7,618.00	7,711.29	7,536.61	124.84	34.74	-89.97	1,737.44	6,280.96	864.87	787.99	76.88	11.250	
10,200.00	7,618.00	7,712.14	7,537.46	124.69	34.75	-90.03	1,737.43	6,280.97	890.77	810.31	80.47	11.070	
10,300.00	7,618.00	7,713.72	7,539.04	124.41	34.75	-90.15	1,737.40	6,280.98	945.00	857.34	87.67	10.779	
10,400.00	7,618.00	7,715.30	7,540.62	124.14	34.75	-90.27	1,737.38	6,281.00	1,006.27	911.50	94.77	10.618	
10,500.00	7,618.00	7,716.87	7,542.19	123.88	34.76	-90.39	1,737.35	6,281.01	1,073.37	972.04	101.33	10.593	
10,600.00	7,618.00	7,718.43	7,543.75	123.63	34.76	-90.50	1,737.32	6,281.03	1,145.28	1,038.10	107.17	10.686	
10,700.00	7,618.00	7,719.98	7,545.30	123.40	34.77	-90.62	1,737.30	6,281.04	1,221.14	1,108.83	112.31	10.873	
10,800.00	7,618.00	7,721.54	7,546.86	123.18	34.77	-90.73	1,737.27	6,281.06	1,300.27	1,183.48	116.79	11.133	
10,900.00	7,618.00	7,723.08	7,548.40	122.96	34.77	-90.85	1,737.24	6,281.07	1,382.11	1,261.41	120.70	11.451	
11,000.00	7,618.00	7,724.62	7,549.94	122.76	34.78	-90.96	1,737.22	6,281.09	1,466.20	1,342.10	124.10	11.815	
11,100.00	7,618.00	7,726.15	7,551.47	122.57	34.78	-91.08	1,737.19	6,281.10	1,552.18	1,425.11	127.07	12.215	
11,200.00	7,618.00	7,727.68	7,553.00	122.39	34.79	-91.19	1,737.17	6,281.12	1,639.74	1,510.06	129.68	12.645	
11,300.00	7,618.00	7,729.20	7,554.52	122.23	34.79	-91.30	1,737.14	6,281.14	1,728.66	1,596.68	131.98	13.098	
11,400.00	7,618.00	7,730.72	7,556.04	122.07	34.79	-91.42	1,737.12	6,281.15	1,818.72	1,684.72	134.01	13.572	
11,500.00	7,618.00	7,732.23	7,557.55	121.93	34.80	-91.53	1,737.09	6,281.17	1,909.78	1,773.97	135.81	14.062	
11,600.00	7,618.00	7,733.74	7,559.06	121.79	34.80	-91.64	1,737.07	6,281.19	2,001.68	1,864.26	137.42	14.566	
11,700.00	7,618.00	7,735.24	7,560.56	121.67	34.80	-91.75	1,737.04	6,281.20	2,094.33	1,955.47	138.86	15.082	
11,800.00	7,618.00	7,736.73	7,562.05	121.56	34.81	-91.86	1,737.02	6,281.22	2,187.62	2,047.46	140.16	15.608	
11,900.00	7,618.00	7,738.22	7,563.54	121.46	34.81	-91.97	1,736.99	6,281.24	2,281.48	2,140.15	141.33	16.143	
12,000.00	7,618.00	7,739.71	7,565.02	121.38	34.82	-92.08	1,736.97	6,281.25	2,375.84	2,233.45	142.39	16.685	
12,100.00	7,618.00	7,741.19	7,566.50	121.30	34.82	-92.19	1,736.94	6,281.27	2,470.64	2,327.29	143.36	17.234	
12,200.00	7,618.00	7,742.66	7,567.98	121.24	34.82	-92.30	1,736.92	6,281.29	2,565.84	2,421.60	144.24	17.789	
12,300.00	7,618.00	7,744.13	7,569.44	121.19	34.83	-92.41	1,736.89	6,281.31	2,661.39	2,516.34	145.05	18.348	
12,400.00	7,618.00	7,745.59	7,570.91	121.16	34.83	-92.52	1,736.87	6,281.32	2,757.25	2,611.46	145.79	18.912	
12,500.00	7,618.00	7,747.05	7,572.36	121.14	34.83	-92.63	1,736.85	6,281.34	2,853.40	2,706.92	146.48	19.480	
12,600.00	7,618.00	7,748.50	7,573.82	121.13	34.84	-92.74	1,736.82	6,281.36	2,949.80	2,802.69	147.11	20.052	
12,700.00	7,618.00	7,749.95	7,575.26	121.13	34.84	-92.84	1,736.80	6,281.38	3,046.43	2,898.74	147.69	20.627	
12,800.00	7,618.00	7,751.39	7,576.70	121.15	34.85	-92.95	1,736.77	6,281.40	3,143.27	2,995.03	148.24	21.204	
12,900.00	7,618.00	7,752.83	7,578.14	121.18	34.85	-93.06	1,736.75	6,281.42	3,240.31	3,091.56	148.75	21.784	
13,000.00	7,618.00	7,754.26	7,579.57	121.23	34.85	-93.16	1,736.73	6,281.43	3,337.51	3,188.30	149.22	22.367	
13,100.00	7,618.00	7,755.68	7,581.00	121.29	34.86	-93.27	1,736.71	6,281.45	3,434.88	3,285.22	149.66	22.951	
13,200.00	7,618.00	7,757.11	7,582.42	121.37	34.86	-93.37	1,736.68	6,281.47	3,532.40	3,382.32	150.07	23.538	
13,300.00	7,618.00	7,758.52	7,583.84	121.46	34.86	-93.48	1,736.66	6,281.49	3,630.04	3,479.58	150.46	24.126	
13,400.00	7,618.00	7,759.93	7,585.25	121.57	34.87	-93.58	1,736.64	6,281.51	3,727.82	3,576.99	150.83	24.715	
13,500.00	7,618.00	7,761.34	7,586.65	121.70	34.87	-93.69	1,736.61	6,281.53	3,825.70	3,674.53	151.18	25.306	
13,600.00	7,618.00	7,762.74	7,588.05	121.84	34.87	-93.79	1,736.59	6,281.55	3,923.70	3,772.20	151.50	25.899	
13,700.00	7,618.00	7,764.14	7,589.45	122.01	34.88	-93.89	1,736.57	6,281.57	4,021.79	3,869.98	151.81	26.492	
13,800.00	7,618.00	7,765.53	7,590.84	122.19	34.88	-94.00	1,736.55	6,281.59	4,119.97	3,967.87	152.10	27.087	
13,900.00	7,618.00	7,766.92	7,592.23	122.39	34.89	-94.10	1,736.52	6,281.61	4,218.24	4,065.86	152.38	27.683	
14,000.00	7,618.00	7,768.30	7,593.61	122.62	34.89	-94.20	1,736.50	6,281.62	4,316.59	4,163.95	152.64	28.280	
14,100.00	7,618.00	7,769.68	7,594.99	122.86	34.89	-94.30	1,736.48	6,281.64	4,415.01	4,262.12	152.89	28.877	
14,200.00	7,618.00	7,771.05	7,596.36	123.12	34.90	-94.40	1,736.46	6,281.66	4,513.50	4,360.37	153.13	29.475	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	7,772.42	7,597.73	123.41	34.90	-94.50	1,736.44	6,281.68	4,612.05	4,458.70	153.36	30.074	
14,400.00	7,618.00	7,773.78	7,599.09	123.72	34.90	-94.61	1,736.41	6,281.70	4,710.66	4,557.09	153.57	30.674	
14,500.00	7,618.00	7,775.14	7,600.45	124.06	34.91	-94.71	1,736.39	6,281.72	4,809.34	4,655.56	153.78	31.274	
14,600.00	7,618.00	7,776.49	7,601.80	124.42	34.91	-94.81	1,736.37	6,281.74	4,908.06	4,754.08	153.98	31.875	
14,700.00	7,618.00	7,777.84	7,603.15	124.80	34.91	-94.90	1,736.35	6,281.76	5,006.84	4,852.67	154.17	32.477	
14,800.00	7,618.00	7,779.18	7,604.49	125.21	34.92	-95.00	1,736.33	6,281.78	5,105.66	4,951.31	154.35	33.078	
14,900.00	7,618.00	7,780.52	7,605.83	125.65	34.92	-95.10	1,736.31	6,281.80	5,204.52	5,050.00	154.53	33.681	
15,000.00	7,618.00	7,781.86	7,607.16	126.11	34.92	-95.20	1,736.29	6,281.83	5,303.43	5,148.74	154.69	34.283	
15,100.00	7,618.00	7,783.19	7,608.49	126.61	34.93	-95.30	1,736.27	6,281.85	5,402.38	5,247.53	154.86	34.887	
15,200.00	7,618.00	7,784.51	7,609.82	127.13	34.93	-95.40	1,736.25	6,281.87	5,501.37	5,346.36	155.01	35.490	
15,300.00	7,618.00	7,785.83	7,611.14	127.68	34.93	-95.49	1,736.23	6,281.89	5,600.39	5,445.23	155.16	36.094	
15,400.00	7,618.00	7,787.15	7,612.46	128.26	34.94	-95.59	1,736.20	6,281.91	5,699.45	5,544.14	155.31	36.698	
15,500.00	7,618.00	7,788.46	7,613.77	128.87	34.94	-95.69	1,736.18	6,281.93	5,798.53	5,643.09	155.45	37.302	
15,600.00	7,618.00	7,789.77	7,615.07	129.51	34.94	-95.78	1,736.16	6,281.95	5,897.65	5,742.07	155.58	37.907	
15,700.00	7,618.00	7,791.07	7,616.38	130.18	34.95	-95.88	1,736.14	6,281.97	5,996.80	5,841.08	155.71	38.512	
15,800.00	7,618.00	7,792.37	7,617.68	130.88	34.95	-95.97	1,736.12	6,281.99	6,095.97	5,940.13	155.84	39.117	
15,900.00	7,618.00	7,793.67	7,618.97	131.61	34.95	-96.07	1,736.10	6,282.01	6,195.17	6,039.21	155.96	39.722	
16,000.00	7,618.00	7,794.95	7,620.26	132.37	34.96	-96.16	1,736.08	6,282.03	6,294.40	6,138.32	156.08	40.327	
16,100.00	7,618.00	7,796.48	7,621.79	133.17	34.96	-96.27	1,736.06	6,282.06	6,393.65	6,237.45	156.20	40.933	
16,200.00	7,618.00	7,799.10	7,624.40	133.99	34.97	-96.47	1,736.02	6,282.10	6,492.92	6,336.61	156.31	41.538	
16,300.00	7,618.00	7,801.78	7,627.08	134.84	34.97	-96.66	1,735.98	6,282.15	6,592.21	6,435.79	156.42	42.144	
16,400.00	7,618.00	7,804.51	7,629.81	135.72	34.98	-96.86	1,735.93	6,282.19	6,691.53	6,535.00	156.53	42.749	
16,500.00	7,618.00	7,807.30	7,632.60	136.63	34.99	-97.07	1,735.89	6,282.24	6,790.86	6,634.23	156.63	43.355	
16,600.00	7,618.00	7,810.15	7,635.45	137.57	35.00	-97.27	1,735.84	6,282.29	6,890.21	6,733.48	156.74	43.960	
16,700.00	7,618.00	7,813.07	7,638.37	138.54	35.00	-97.49	1,735.80	6,282.33	6,989.58	6,832.75	156.84	44.566	
16,800.00	7,618.00	7,816.05	7,641.35	139.53	35.01	-97.70	1,735.75	6,282.38	7,088.97	6,932.04	156.93	45.172	
16,900.00	7,618.00	7,819.11	7,644.40	140.55	35.02	-97.93	1,735.69	6,282.43	7,188.37	7,031.34	157.03	45.777	
17,000.00	7,618.00	7,822.23	7,647.53	141.60	35.03	-98.15	1,735.64	6,282.48	7,287.79	7,130.67	157.12	46.383	
17,100.00	7,618.00	7,825.42	7,650.72	142.67	35.04	-98.38	1,735.59	6,282.54	7,387.23	7,230.01	157.21	46.988	
17,200.00	7,618.00	7,828.70	7,653.99	143.77	35.04	-98.62	1,735.53	6,282.59	7,486.67	7,329.37	157.30	47.594	
17,300.00	7,618.00	7,832.05	7,657.34	144.88	35.05	-98.86	1,735.47	6,282.64	7,586.14	7,428.75	157.39	48.199	
17,400.00	7,618.00	7,835.48	7,660.77	146.02	35.06	-99.11	1,735.41	6,282.70	7,685.61	7,528.14	157.48	48.805	
17,500.00	7,618.00	7,838.99	7,664.28	147.19	35.07	-99.36	1,735.35	6,282.76	7,785.10	7,627.54	157.56	49.410	
17,600.00	7,618.00	7,842.60	7,667.89	148.37	35.08	-99.62	1,735.28	6,282.81	7,884.60	7,726.96	157.64	50.015	
17,700.00	7,618.00	7,846.29	7,671.58	149.57	35.09	-99.89	1,735.21	6,282.87	7,984.11	7,826.39	157.73	50.620	
17,800.00	7,618.00	7,850.08	7,675.37	150.79	35.10	-100.16	1,735.14	6,282.93	8,083.63	7,925.83	157.81	51.225	
17,900.00	7,618.00	7,853.97	7,679.25	152.03	35.11	-100.44	1,735.07	6,282.99	8,183.17	8,025.28	157.88	51.830	
18,000.00	7,618.00	7,857.95	7,683.24	153.29	35.12	-100.72	1,734.99	6,283.06	8,282.71	8,124.75	157.96	52.435	
18,100.00	7,618.00	7,862.05	7,687.33	154.57	35.13	-101.02	1,734.91	6,283.12	8,382.26	8,224.23	158.04	53.039	
18,200.00	7,618.00	7,866.25	7,691.54	155.86	35.14	-101.32	1,734.83	6,283.19	8,481.83	8,323.71	158.11	53.644	
18,300.00	7,618.00	7,870.57	7,695.85	157.17	35.15	-101.62	1,734.75	6,283.25	8,581.40	8,423.21	158.19	54.248	
18,400.00	7,618.00	7,875.01	7,700.29	158.49	35.16	-101.94	1,734.66	6,283.32	8,680.98	8,522.72	158.26	54.852	
18,500.00	7,618.00	7,879.57	7,704.85	159.82	35.18	-102.26	1,734.56	6,283.39	8,780.57	8,622.24	158.34	55.456	
18,600.00	7,618.00	7,884.27	7,709.54	161.17	35.19	-102.59	1,734.46	6,283.47	8,880.17	8,721.76	158.41	56.059	
18,700.00	7,618.00	7,889.09	7,714.37	162.54	35.20	-102.93	1,734.36	6,283.54	8,979.78	8,821.30	158.48	56.663	
18,800.00	7,618.00	7,894.06	7,719.34	163.91	35.21	-103.28	1,734.26	6,283.62	9,079.39	8,920.84	158.55	57.266	
18,900.00	7,618.00	7,899.18	7,724.45	165.30	35.23	-103.63	1,734.15	6,283.70	9,179.01	9,020.39	158.62	57.868	
19,000.00	7,618.00	7,904.45	7,729.72	166.70	35.24	-104.00	1,734.03	6,283.78	9,278.64	9,119.95	158.69	58.471	
19,100.00	7,618.00	19,100.00	7,695.21	168.10	65.62	-101.58	1,734.71	6,283.24	9,378.26	9,186.61	191.65	48.935	
19,200.00	7,618.00	19,200.00	7,697.03	169.52	65.90	-101.71	1,734.68	6,283.26	9,477.91	9,285.92	191.99	49.366	
19,300.00	7,618.00	19,300.00	7,698.86	170.95	66.18	-101.84	1,734.65	6,283.29	9,577.57	9,385.23	192.34	49.795	
19,400.00	7,618.00	19,400.00	7,700.68	172.39	66.46	-101.96	1,734.61	6,283.32	9,677.23	9,484.54	192.69	50.223	

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

Survey Program: 138-MWD OWSG

Offset Site Error: 0.00 usft

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
19,500.00	7,618.00	7,901.62	7,726.89	173.84	35.23	-103.80	1,734.10	6,283.74	9,776.90	9,617.91	158.99	61.495	
19,600.00	7,618.00	7,903.16	7,728.43	175.30	35.24	-103.91	1,734.07	6,283.76	9,876.57	9,717.52	159.05	62.099	
19,700.00	7,618.00	7,904.69	7,729.96	176.76	35.24	-104.02	1,734.04	6,283.78	9,976.25	9,817.14	159.11	62.702	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	81.87	765.58	5,361.05	5,416.02				
100.00	100.00	40.01	40.01	0.13	0.05	81.87	765.62	5,360.96	5,415.40	5,415.21	0.19	N/A	
200.00	200.00	138.00	138.00	0.49	0.39	81.87	765.77	5,360.40	5,414.86	5,413.98	0.88	6,154.761	
300.00	299.98	206.00	205.99	0.85	0.62	12.57	765.27	5,360.33	5,413.00	5,411.53	1.47	3,680.199	
400.00	399.84	229.00	228.99	1.21	0.70	12.59	764.85	5,360.49	5,408.73	5,406.82	1.91	2,833.090	
500.00	499.45	275.42	275.39	1.58	0.87	12.65	763.68	5,361.41	5,402.14	5,399.70	2.43	2,220.422	
600.00	598.70	320.00	319.90	1.97	1.02	12.72	762.19	5,363.28	5,393.62	5,390.67	2.95	1,827.230	
700.00	697.47	320.00	319.90	2.38	1.02	12.76	762.19	5,363.28	5,382.93	5,379.61	3.32	1,620.828	
800.00	795.62	370.40	370.15	2.83	1.21	12.87	759.98	5,366.41	5,370.01	5,366.13	3.88	1,385.042	
900.00	893.06	411.00	410.56	3.31	1.36	12.99	757.73	5,369.64	5,354.99	5,350.59	4.40	1,216.137	
1,000.00	989.64	442.55	441.91	3.83	1.47	13.12	755.70	5,372.56	5,337.76	5,332.85	4.91	1,087.209	
1,100.00	1,085.27	502.00	500.85	4.40	1.70	13.31	751.22	5,378.91	5,318.41	5,312.88	5.53	961.812	
1,200.00	1,179.82	502.00	500.85	5.02	1.70	13.41	751.22	5,378.91	5,296.71	5,290.77	5.94	892.399	
1,300.00	1,273.17	547.83	546.16	5.70	1.89	13.62	747.47	5,384.63	5,272.88	5,266.35	6.53	807.472	
1,400.00	1,365.21	593.00	590.73	6.43	2.08	13.84	743.86	5,391.06	5,247.10	5,239.96	7.13	735.499	
1,500.00	1,455.84	593.00	590.73	7.23	2.08	13.98	743.86	5,391.06	5,219.23	5,211.65	7.58	688.996	
1,600.00	1,544.94	644.52	641.42	8.09	2.31	14.26	739.72	5,399.29	5,189.15	5,180.91	8.23	630.155	
1,700.00	1,632.39	684.00	680.14	9.01	2.48	14.53	736.47	5,406.24	5,157.12	5,148.26	8.86	582.034	
1,800.00	1,718.11	716.91	712.38	10.00	2.63	14.80	733.91	5,412.37	5,122.97	5,113.49	9.48	540.616	
1,900.00	1,801.97	776.00	770.21	11.07	2.91	15.17	730.21	5,423.91	5,086.71	5,076.50	10.21	498.135	
2,000.00	1,883.88	804.20	797.78	12.20	3.04	15.47	728.69	5,429.65	5,048.13	5,037.29	10.84	465.641	
2,100.00	1,963.74	852.77	845.19	13.41	3.28	15.86	725.94	5,439.85	5,007.34	4,995.78	11.57	432.844	
2,200.00	2,041.45	917.52	908.28	14.69	3.60	16.33	722.21	5,453.90	4,964.22	4,951.83	12.38	400.864	
2,300.00	2,116.92	998.70	987.39	16.05	4.00	16.91	718.07	5,471.66	4,918.42	4,905.15	13.27	370.614	
2,357.48	2,159.25	1,052.18	1,039.53	16.86	4.27	17.28	715.61	5,483.30	4,890.79	4,876.97	13.82	353.825	
2,400.00	2,190.27	1,089.41	1,075.83	17.47	4.46	17.42	713.99	5,491.38	4,869.99	4,855.77	14.22	342.460	
2,500.00	2,263.22	1,174.77	1,159.09	18.92	4.89	17.73	710.42	5,509.85	4,821.12	4,805.96	15.16	318.098	
2,600.00	2,336.18	1,246.00	1,228.53	20.37	5.26	18.00	706.87	5,525.33	4,772.41	4,756.36	16.05	297.260	
2,700.00	2,409.14	1,311.46	1,292.24	21.84	5.60	18.27	702.84	5,539.81	4,724.11	4,707.16	16.95	278.651	
2,800.00	2,482.09	1,380.11	1,358.91	23.31	5.97	18.56	697.90	5,555.38	4,676.36	4,658.47	17.88	261.480	
2,900.00	2,555.05	1,451.28	1,428.01	24.78	6.36	18.87	692.70	5,571.65	4,628.93	4,610.08	18.84	245.666	
3,000.00	2,628.01	1,509.32	1,484.30	26.27	6.67	19.12	688.58	5,585.18	4,582.05	4,562.28	19.76	231.856	
3,100.00	2,700.96	1,567.64	1,540.79	27.75	7.00	19.38	684.54	5,599.10	4,535.81	4,515.11	20.70	219.125	
3,200.00	2,773.92	1,642.55	1,613.23	29.24	7.42	19.72	679.13	5,617.39	4,490.20	4,468.48	21.72	206.729	
3,300.00	2,846.88	1,768.03	1,734.84	30.73	8.11	20.29	670.53	5,647.10	4,444.07	4,421.11	22.96	193.571	
3,400.00	2,919.83	1,848.42	1,812.81	32.23	8.56	20.67	665.26	5,665.96	4,398.02	4,374.00	24.03	183.046	
3,500.00	2,992.79	1,945.07	1,906.57	33.72	9.09	21.11	659.44	5,688.66	4,352.19	4,327.02	25.17	172.905	
3,600.00	3,065.75	2,044.96	2,003.67	35.22	9.63	21.57	654.48	5,711.57	4,306.05	4,279.72	26.33	163.515	
3,700.00	3,138.71	2,130.68	2,087.02	36.72	10.09	21.97	650.51	5,731.19	4,260.05	4,232.59	27.46	155.155	
3,800.00	3,211.66	2,213.49	2,167.54	38.22	10.54	22.37	646.21	5,750.08	4,214.17	4,185.58	28.59	147.408	
3,900.00	3,284.62	2,292.16	2,243.91	39.72	10.97	22.78	640.88	5,768.15	4,168.63	4,138.90	29.73	140.214	
4,000.00	3,357.58	2,395.50	2,344.28	41.22	11.54	23.32	633.63	5,791.67	4,123.15	4,092.15	30.99	133.043	
4,100.00	3,430.53	2,480.85	2,427.24	42.73	12.01	23.79	627.47	5,810.73	4,077.51	4,045.31	32.20	126.631	
4,200.00	3,503.49	2,531.31	2,476.23	44.23	12.28	24.07	623.81	5,822.27	4,032.58	3,999.29	33.29	121.134	
4,300.00	3,576.45	2,610.21	2,552.72	45.74	12.72	24.50	618.37	5,840.83	3,988.42	3,953.91	34.51	115.571	
4,400.00	3,649.40	4,400.00	2,752.09	47.25	21.99	25.65	606.56	5,885.59	3,942.93	3,900.42	42.51	92.754	
4,500.00	3,722.36	2,873.87	2,809.73	48.75	14.13	25.98	603.21	5,897.61	3,896.63	3,859.23	37.40	104.201	
4,600.00	3,795.32	2,928.00	2,862.38	50.26	14.41	26.31	599.39	5,909.56	3,851.78	3,813.20	38.58	99.833	
4,700.00	3,868.27	2,957.32	2,890.83	51.77	14.57	26.49	597.20	5,916.33	3,807.94	3,768.25	39.69	95.935	
4,800.00	3,941.23	3,046.07	2,976.99	53.28	15.06	27.03	591.78	5,936.88	3,764.74	3,723.68	41.06	91.698	
4,900.00	4,014.19	3,138.82	3,067.12	54.79	15.57	27.59	586.85	5,958.22	3,721.61	3,679.16	42.45	87.670	
5,000.00	4,087.15	3,231.48	3,157.16	56.30	16.08	28.17	581.29	5,979.37	3,678.68	3,634.81	43.87	83.845	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
5,100.00	4,160.10	3,334.29	3,257.22	57.81	16.63	28.83	575.37	6,002.22	3,635.47	3,590.11	45.36	80.142	
5,200.00	4,233.06	3,401.73	3,322.86	59.32	17.00	29.26	572.01	6,017.37	3,592.73	3,546.00	46.73	76.879	
5,300.00	4,306.02	3,468.13	3,387.40	60.83	17.36	29.69	568.47	6,032.57	3,550.70	3,502.58	48.13	73.779	
5,400.00	4,378.97	3,541.71	3,458.81	62.34	17.77	30.20	563.63	6,049.61	3,509.37	3,459.78	49.59	70.771	
5,500.00	4,451.93	3,645.02	3,559.03	63.85	18.34	30.94	555.68	6,073.37	3,468.44	3,417.22	51.22	67.717	
5,600.00	4,524.89	3,770.38	3,681.01	65.36	19.02	31.85	547.14	6,101.03	3,426.94	3,373.97	52.96	64.702	
5,700.00	4,597.84	3,886.97	3,794.77	66.88	19.63	32.71	540.25	6,125.60	3,384.84	3,330.15	54.69	61.893	
5,800.00	4,670.80	3,970.46	3,876.33	68.39	20.06	33.32	536.69	6,143.06	3,342.78	3,286.48	56.29	59.380	
5,900.00	4,743.76	4,038.40	3,942.67	69.90	20.42	33.82	533.74	6,157.44	3,301.32	3,243.44	57.87	57.043	
6,000.00	4,816.71	4,108.35	4,010.90	71.41	20.79	34.36	530.14	6,172.46	3,260.63	3,201.13	59.50	54.799	
6,100.00	4,889.67	4,296.51	4,194.79	72.93	21.75	35.85	521.15	6,211.17	3,220.01	3,158.39	61.62	52.253	
6,200.00	4,962.63	4,552.05	4,446.79	74.44	22.91	38.01	510.57	6,251.98	3,175.60	3,111.69	63.92	49.684	
6,300.00	5,035.59	4,969.74	4,862.51	75.95	24.41	41.93	499.93	6,288.31	3,127.86	3,061.65	66.21	47.241	
6,400.00	5,108.54	5,139.99	5,032.73	77.47	24.86	43.65	501.07	6,290.42	3,071.86	3,003.91	67.95	45.208	
6,500.00	5,181.50	5,220.00	5,112.75	78.98	25.06	44.51	501.58	6,290.31	3,015.73	2,945.98	69.75	43.236	
6,600.00	5,254.46	5,294.92	5,187.66	80.49	25.24	45.34	501.95	6,290.09	2,960.05	2,888.44	71.61	41.337	
6,700.00	5,327.41	5,372.14	5,264.88	82.01	25.43	46.21	502.57	6,289.86	2,904.83	2,831.32	73.51	39.514	
6,800.00	5,400.37	5,457.20	5,349.93	83.52	25.63	47.21	503.52	6,289.42	2,849.97	2,774.50	75.46	37.766	
6,900.00	5,473.33	5,530.93	5,423.66	85.04	25.81	48.10	504.39	6,288.87	2,795.53	2,718.05	77.48	36.080	
7,000.00	5,546.28	5,604.80	5,497.52	86.55	25.99	49.01	505.24	6,288.29	2,741.71	2,662.15	79.56	34.460	
7,100.00	5,619.24	5,680.29	5,573.00	88.06	26.17	49.98	506.05	6,287.63	2,688.53	2,606.83	81.70	32.907	
7,200.00	5,692.20	5,758.05	5,650.75	89.58	26.36	51.01	506.62	6,286.72	2,635.95	2,552.04	83.91	31.414	
7,300.00	5,765.15	5,838.09	5,730.79	91.09	26.55	52.11	507.16	6,285.55	2,583.96	2,497.78	86.18	29.983	
7,400.00	5,838.11	5,917.56	5,810.24	92.61	26.74	53.24	507.72	6,284.14	2,532.57	2,444.05	88.52	28.610	
7,500.00	5,911.07	5,992.91	5,885.57	94.12	26.92	54.35	508.21	6,282.59	2,481.91	2,390.97	90.94	27.292	
7,600.00	5,984.03	6,063.96	5,956.60	95.64	27.09	55.42	508.64	6,281.07	2,432.13	2,338.69	93.44	26.030	
7,700.00	6,056.98	6,132.48	6,025.11	97.15	27.26	56.48	509.09	6,279.68	2,383.42	2,287.41	96.01	24.825	
7,800.00	6,129.94	6,199.44	6,092.06	98.67	27.42	57.55	509.35	6,278.38	2,335.90	2,237.24	98.66	23.677	
7,900.00	6,202.90	6,271.28	6,163.88	100.18	27.60	58.73	509.43	6,276.97	2,289.59	2,188.22	101.37	22.586	
8,000.00	6,275.85	6,335.83	6,228.42	101.70	27.76	59.82	509.38	6,275.68	2,244.55	2,140.38	104.17	21.546	
8,100.00	6,348.81	6,394.00	6,286.58	103.21	27.91	60.83	509.19	6,274.77	2,201.16	2,094.11	107.04	20.563	
8,200.00	6,421.77	6,448.38	6,340.96	104.73	28.05	61.78	508.96	6,274.36	2,159.65	2,049.67	109.98	19.638	
8,300.00	6,494.72	6,502.49	6,395.07	106.24	28.20	62.73	508.76	6,274.54	2,120.21	2,007.26	112.95	18.772	
8,400.00	6,567.68	6,557.75	6,450.32	107.76	28.37	63.72	508.47	6,275.26	2,082.90	1,966.94	115.96	17.962	
8,500.00	6,640.64	6,640.76	6,533.32	109.27	28.62	65.23	507.93	6,276.73	2,047.50	1,928.48	119.02	17.203	
8,600.00	6,713.59	6,725.44	6,618.00	110.79	28.87	66.82	507.47	6,277.37	2,013.07	1,890.95	122.12	16.484	
8,700.00	6,786.55	6,801.65	6,694.20	112.30	29.09	68.29	507.06	6,277.73	1,980.22	1,854.97	125.25	15.810	
8,800.00	6,859.51	6,877.04	6,769.59	113.82	29.30	69.77	506.57	6,277.85	1,949.10	1,820.70	128.40	15.180	
8,900.00	6,932.46	6,949.92	6,842.47	115.33	29.51	71.23	506.07	6,277.88	1,919.88	1,788.33	131.56	14.594	
9,000.00	7,005.42	7,015.27	6,907.82	116.85	29.69	72.57	505.53	6,278.00	1,892.83	1,758.13	134.70	14.052	
9,104.89	7,081.95	7,089.05	6,981.59	118.44	29.91	74.09	504.76	6,278.34	1,867.01	1,729.04	137.97	13.532	
9,150.00	7,115.15	7,123.65	7,016.19	119.12	30.01	69.39	504.40	6,278.49	1,855.16	1,715.83	139.33	13.315	
9,200.00	7,152.46	7,161.17	7,053.70	119.86	30.12	63.71	504.02	6,278.63	1,839.08	1,698.34	140.74	13.067	
9,250.00	7,190.04	7,197.63	7,090.16	120.57	30.22	57.65	503.64	6,278.77	1,819.96	1,677.91	142.04	12.813	
9,300.00	7,227.59	7,234.13	7,126.66	121.25	30.33	51.36	503.24	6,278.93	1,797.85	1,654.62	143.23	12.552	
9,350.00	7,264.83	7,272.14	7,164.67	121.89	30.44	44.98	502.79	6,279.06	1,772.80	1,628.49	144.31	12.285	
9,400.00	7,301.48	7,309.59	7,202.12	122.48	30.55	38.55	502.31	6,279.12	1,744.88	1,599.62	145.26	12.012	
9,450.00	7,337.26	7,346.17	7,238.70	123.01	30.66	32.10	501.80	6,279.11	1,714.22	1,568.14	146.09	11.734	
9,500.00	7,371.90	7,381.68	7,274.20	123.49	30.76	25.58	501.33	6,279.11	1,680.98	1,534.19	146.78	11.452	
9,550.00	7,405.13	7,415.80	7,308.32	123.91	30.86	18.89	500.90	6,279.11	1,645.32	1,497.98	147.34	11.167	
9,600.00	7,436.70	7,448.26	7,340.78	124.27	30.95	11.86	500.51	6,279.13	1,607.47	1,459.72	147.76	10.879	
9,650.00	7,466.36	7,478.81	7,371.33	124.57	31.04	4.25	500.16	6,279.15	1,567.69	1,419.65	148.03	10.590	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,700.00	7,493.91	7,507.21	7,399.72	124.81	31.12	-4.20	499.85	6,279.18	1,526.24	1,378.08	148.15	10.302	
9,750.00	7,519.11	7,533.84	7,426.35	125.00	31.20	-13.76	499.58	6,279.21	1,483.44	1,335.32	148.12	10.015	
9,800.00	7,541.79	7,558.11	7,450.62	125.12	31.27	-24.55	499.35	6,279.23	1,439.64	1,291.72	147.91	9.733	
9,850.00	7,561.77	7,579.49	7,472.00	125.20	31.33	-36.37	499.17	6,279.25	1,395.22	1,247.69	147.53	9.457	
9,900.00	7,578.90	7,597.82	7,490.33	125.23	31.39	-48.56	499.03	6,279.26	1,350.61	1,203.66	146.95	9.191	
9,950.00	7,593.04	7,612.98	7,505.48	125.22	31.43	-60.16	498.92	6,279.27	1,306.27	1,160.12	146.15	8.938	
10,000.00	7,604.09	7,623.71	7,516.22	125.17	31.46	-70.24	498.85	6,279.28	1,262.71	1,117.58	145.13	8.700	
10,050.00	7,611.97	7,631.63	7,524.13	125.08	31.49	-78.53	498.79	6,279.30	1,220.44	1,076.57	143.86	8.483	
10,100.00	7,616.61	7,636.43	7,528.94	124.97	31.50	-84.98	498.76	6,279.30	1,180.00	1,037.68	142.32	8.291	
10,145.95	7,618.00	7,638.07	7,530.57	124.84	31.51	-89.45	498.75	6,279.31	1,144.93	1,004.30	140.63	8.141	
10,200.00	7,618.00	7,638.42	7,530.92	124.69	31.51	-89.48	498.75	6,279.31	1,105.64	967.26	138.38	7.990	
10,300.00	7,618.00	7,639.07	7,531.57	124.41	31.51	-89.52	498.74	6,279.31	1,036.47	902.96	133.51	7.763	
10,400.00	7,618.00	7,639.71	7,532.22	124.14	31.51	-89.57	498.74	6,279.31	972.67	845.09	127.58	7.624	
10,500.00	7,618.00	7,640.36	7,532.87	123.88	31.51	-89.62	498.73	6,279.31	915.37	794.91	120.46	7.599 SF	
10,600.00	7,618.00	7,641.01	7,533.51	123.63	31.52	-89.67	498.73	6,279.32	865.86	753.77	112.09	7.724	
10,700.00	7,618.00	7,641.65	7,534.16	123.40	31.52	-89.71	498.73	6,279.32	825.55	722.93	102.62	8.045	
10,800.00	7,618.00	7,642.29	7,534.80	123.18	31.52	-89.76	498.72	6,279.32	795.83	703.29	92.53	8.600	
10,900.00	7,618.00	7,642.94	7,535.44	122.96	31.52	-89.81	498.72	6,279.32	777.92	694.99	82.92	9.381 ES	
10,990.94	7,618.00	7,643.52	7,536.03	122.78	31.52	-89.85	498.71	6,279.32	772.58	696.46	76.12	10.149 CC	
11,000.00	7,618.00	7,643.58	7,536.09	122.76	31.52	-89.86	498.71	6,279.32	772.64	697.02	75.61	10.218	
11,100.00	7,618.00	7,644.22	7,536.73	122.57	31.52	-89.91	498.71	6,279.32	780.24	707.46	72.78	10.721	
11,200.00	7,618.00	7,644.86	7,537.37	122.39	31.53	-89.95	498.70	6,279.32	800.37	725.07	75.30	10.629	
11,300.00	7,618.00	7,645.50	7,538.01	122.23	31.53	-90.00	498.70	6,279.33	832.10	750.38	81.73	10.181	
11,400.00	7,618.00	7,646.14	7,538.64	122.07	31.53	-90.05	498.70	6,279.33	874.19	784.33	89.85	9.729	
11,500.00	7,618.00	7,646.78	7,539.28	121.93	31.53	-90.10	498.69	6,279.33	925.21	827.07	98.14	9.428	
11,600.00	7,618.00	7,647.41	7,539.92	121.79	31.53	-90.14	498.69	6,279.33	983.78	877.97	105.81	9.298	
11,700.00	7,618.00	7,648.05	7,540.55	121.67	31.54	-90.19	498.68	6,279.33	1,048.63	936.03	112.60	9.313	
11,800.00	7,618.00	7,648.68	7,541.19	121.56	31.54	-90.24	498.68	6,279.34	1,118.67	1,000.21	118.46	9.443	
11,900.00	7,618.00	7,649.32	7,541.82	121.46	31.54	-90.28	498.67	6,279.34	1,192.99	1,069.52	123.47	9.662	
12,000.00	7,618.00	7,649.95	7,542.46	121.38	31.54	-90.33	498.67	6,279.34	1,270.84	1,143.11	127.73	9.950	
12,100.00	7,618.00	7,650.58	7,543.09	121.30	31.54	-90.38	498.67	6,279.34	1,351.61	1,220.26	131.35	10.290	
12,200.00	7,618.00	7,651.21	7,543.72	121.24	31.55	-90.42	498.66	6,279.34	1,434.80	1,300.37	134.43	10.673	
12,300.00	7,618.00	7,651.84	7,544.35	121.19	31.55	-90.47	498.66	6,279.34	1,520.01	1,382.95	137.07	11.090	
12,400.00	7,618.00	7,652.47	7,544.98	121.16	31.55	-90.52	498.65	6,279.35	1,606.94	1,467.60	139.33	11.533	
12,500.00	7,618.00	7,653.10	7,545.61	121.14	31.55	-90.56	498.65	6,279.35	1,695.30	1,554.01	141.29	11.999	
12,600.00	7,618.00	7,653.73	7,546.23	121.13	31.55	-90.61	498.64	6,279.35	1,784.89	1,641.90	142.99	12.483	
12,700.00	7,618.00	7,654.36	7,546.86	121.13	31.55	-90.66	498.64	6,279.35	1,875.54	1,731.06	144.47	12.982	
12,800.00	7,618.00	7,654.98	7,547.49	121.15	31.56	-90.70	498.64	6,279.35	1,967.09	1,821.31	145.78	13.494	
12,900.00	7,618.00	7,655.61	7,548.11	121.18	31.56	-90.75	498.63	6,279.36	2,059.42	1,912.50	146.93	14.017	
13,000.00	7,618.00	7,656.23	7,548.74	121.23	31.56	-90.80	498.63	6,279.36	2,152.45	2,004.50	147.95	14.549	
13,100.00	7,618.00	7,656.85	7,549.36	121.29	31.56	-90.84	498.62	6,279.36	2,246.07	2,097.21	148.85	15.089	
13,200.00	7,618.00	7,657.48	7,549.98	121.37	31.56	-90.89	498.62	6,279.36	2,340.22	2,190.55	149.66	15.636	
13,300.00	7,618.00	7,658.10	7,550.60	121.46	31.57	-90.93	498.62	6,279.36	2,434.83	2,284.44	150.39	16.190	
13,400.00	7,618.00	7,658.72	7,551.22	121.57	31.57	-90.98	498.61	6,279.37	2,529.86	2,378.81	151.05	16.748	
13,500.00	7,618.00	7,659.34	7,551.84	121.70	31.57	-91.03	498.61	6,279.37	2,625.26	2,473.61	151.65	17.312	
13,600.00	7,618.00	7,659.96	7,552.46	121.84	31.57	-91.07	498.60	6,279.37	2,720.99	2,568.80	152.19	17.879	
13,700.00	7,618.00	7,660.58	7,553.08	122.01	31.57	-91.12	498.60	6,279.37	2,817.01	2,664.33	152.68	18.450	
13,800.00	7,618.00	7,661.19	7,553.70	122.19	31.58	-91.16	498.60	6,279.38	2,913.31	2,760.17	153.13	19.025	
13,900.00	7,618.00	7,661.81	7,554.31	122.39	31.58	-91.21	498.59	6,279.38	3,009.84	2,856.29	153.55	19.602	
14,000.00	7,618.00	7,662.42	7,554.93	122.62	31.58	-91.26	498.59	6,279.38	3,106.59	2,952.67	153.93	20.182	
14,100.00	7,618.00	7,663.04	7,555.54	122.86	31.58	-91.30	498.58	6,279.38	3,203.55	3,049.27	154.28	20.764	
14,200.00	7,618.00	7,663.65	7,556.16	123.12	31.58	-91.35	498.58	6,279.38	3,300.68	3,146.08	154.61	21.349	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	7,664.27	7,556.77	123.41	31.58	-91.39	498.57	6,279.39	3,397.98	3,243.07	154.91	21.935	
14,400.00	7,618.00	7,664.88	7,557.38	123.72	31.59	-91.44	498.57	6,279.39	3,495.44	3,340.25	155.19	22.524	
14,500.00	7,618.00	7,665.49	7,557.99	124.06	31.59	-91.48	498.57	6,279.39	3,593.03	3,437.58	155.45	23.113	
14,600.00	7,618.00	7,666.10	7,558.60	124.42	31.59	-91.53	498.56	6,279.39	3,690.75	3,535.05	155.70	23.705	
14,700.00	7,618.00	7,666.71	7,559.21	124.80	31.59	-91.57	498.56	6,279.40	3,788.59	3,632.66	155.93	24.297	
14,800.00	7,618.00	7,667.32	7,559.82	125.21	31.59	-91.62	498.55	6,279.40	3,886.54	3,730.40	156.14	24.891	
14,900.00	7,618.00	7,667.92	7,560.43	125.65	31.60	-91.66	498.55	6,279.40	3,984.59	3,828.25	156.34	25.486	
15,000.00	7,618.00	7,668.53	7,561.04	126.11	31.60	-91.71	498.55	6,279.40	4,082.74	3,926.21	156.53	26.082	
15,100.00	7,618.00	7,669.14	7,561.64	126.61	31.60	-91.75	498.54	6,279.41	4,180.97	4,024.26	156.71	26.679	
15,200.00	7,618.00	7,669.74	7,562.25	127.13	31.60	-91.80	498.54	6,279.41	4,279.29	4,122.41	156.88	27.277	
15,300.00	7,618.00	7,670.35	7,562.85	127.68	31.60	-91.84	498.54	6,279.41	4,377.68	4,220.64	157.04	27.876	
15,400.00	7,618.00	7,670.95	7,563.46	128.26	31.60	-91.89	498.53	6,279.41	4,476.14	4,318.95	157.19	28.475	
15,500.00	7,618.00	7,671.55	7,564.06	128.87	31.61	-91.93	498.53	6,279.42	4,574.67	4,417.33	157.34	29.075	
15,600.00	7,618.00	7,672.16	7,564.66	129.51	31.61	-91.98	498.52	6,279.42	4,673.27	4,515.79	157.48	29.676	
15,700.00	7,618.00	7,672.76	7,565.26	130.18	31.61	-92.02	498.52	6,279.42	4,771.92	4,614.31	157.61	30.277	
15,800.00	7,618.00	7,673.36	7,565.86	130.88	31.61	-92.07	498.52	6,279.42	4,870.62	4,712.89	157.73	30.879	
15,900.00	7,618.00	7,673.96	7,566.46	131.61	31.61	-92.11	498.51	6,279.43	4,969.38	4,811.53	157.85	31.481	
16,000.00	7,618.00	7,674.55	7,567.06	132.37	31.61	-92.15	498.51	6,279.43	5,068.19	4,910.22	157.97	32.084	
16,100.00	7,618.00	7,675.15	7,567.66	133.17	31.62	-92.20	498.50	6,279.43	5,167.04	5,008.96	158.08	32.687	
16,200.00	7,618.00	7,675.75	7,568.25	133.99	31.62	-92.24	498.50	6,279.43	5,265.93	5,107.75	158.18	33.291	
16,300.00	7,618.00	7,676.35	7,568.85	134.84	31.62	-92.29	498.50	6,279.44	5,364.87	5,206.59	158.28	33.894	
16,400.00	7,618.00	7,676.94	7,569.45	135.72	31.62	-92.33	498.49	6,279.44	5,463.84	5,305.46	158.38	34.499	
16,500.00	7,618.00	7,677.54	7,570.04	136.63	31.62	-92.37	498.49	6,279.44	5,562.85	5,404.38	158.47	35.103	
16,600.00	7,618.00	7,678.13	7,570.63	137.57	31.63	-92.42	498.48	6,279.44	5,661.90	5,503.34	158.56	35.708	
16,700.00	7,618.00	7,678.72	7,571.23	138.54	31.63	-92.46	498.48	6,279.45	5,760.98	5,602.33	158.65	36.313	
16,800.00	7,618.00	7,679.31	7,571.82	139.53	31.63	-92.51	498.48	6,279.45	5,860.09	5,701.36	158.73	36.918	
16,900.00	7,618.00	7,679.91	7,572.41	140.55	31.63	-92.55	498.47	6,279.45	5,959.23	5,800.41	158.81	37.523	
17,000.00	7,618.00	7,680.50	7,573.00	141.60	31.63	-92.59	498.47	6,279.45	6,058.40	5,899.50	158.89	38.129	
17,100.00	7,618.00	7,681.09	7,573.59	142.67	31.63	-92.64	498.47	6,279.46	6,157.59	5,998.62	158.97	38.735	
17,200.00	7,618.00	7,681.67	7,574.18	143.77	31.64	-92.68	498.46	6,279.46	6,256.81	6,097.77	159.04	39.341	
17,300.00	7,618.00	7,682.26	7,574.77	144.88	31.64	-92.72	498.46	6,279.46	6,356.06	6,196.94	159.11	39.947	
17,400.00	7,618.00	7,682.85	7,575.35	146.02	31.64	-92.77	498.45	6,279.47	6,455.32	6,296.14	159.18	40.553	
17,500.00	7,618.00	7,683.44	7,575.94	147.19	31.64	-92.81	498.45	6,279.47	6,554.61	6,395.36	159.25	41.159	
17,600.00	7,618.00	7,684.02	7,576.53	148.37	31.64	-92.85	498.45	6,279.47	6,653.93	6,494.61	159.32	41.765	
17,700.00	7,618.00	7,684.61	7,577.11	149.57	31.64	-92.90	498.44	6,279.47	6,753.26	6,593.88	159.38	42.372	
17,800.00	7,618.00	7,685.19	7,577.70	150.79	31.65	-92.94	498.44	6,279.48	6,852.61	6,693.17	159.44	42.978	
17,900.00	7,618.00	7,685.77	7,578.28	152.03	31.65	-92.98	498.44	6,279.48	6,951.98	6,792.47	159.50	43.585	
18,000.00	7,618.00	7,686.36	7,578.86	153.29	31.65	-93.03	498.43	6,279.48	7,051.37	6,891.80	159.56	44.191	
18,100.00	7,618.00	7,686.94	7,579.44	154.57	31.65	-93.07	498.43	6,279.49	7,150.77	6,991.15	159.62	44.798	
18,200.00	7,618.00	7,687.52	7,580.02	155.86	31.65	-93.11	498.42	6,279.49	7,250.19	7,090.51	159.68	45.405	
18,300.00	7,618.00	7,688.10	7,580.60	157.17	31.66	-93.16	498.42	6,279.49	7,349.63	7,189.89	159.74	46.011	
18,400.00	7,618.00	7,688.68	7,581.18	158.49	31.66	-93.20	498.42	6,279.50	7,449.08	7,289.29	159.79	46.618	
18,500.00	7,618.00	7,689.26	7,581.76	159.82	31.66	-93.24	498.41	6,279.50	7,548.54	7,388.70	159.84	47.225	
18,600.00	7,618.00	7,689.83	7,582.34	161.17	31.66	-93.28	498.41	6,279.50	7,648.02	7,488.13	159.90	47.831	
18,700.00	7,618.00	7,690.41	7,582.92	162.54	31.66	-93.33	498.41	6,279.50	7,747.52	7,587.57	159.95	48.438	
18,800.00	7,618.00	7,690.99	7,583.49	163.91	31.66	-93.37	498.40	6,279.51	7,847.02	7,687.03	160.00	49.044	
18,900.00	7,618.00	7,691.56	7,584.07	165.30	31.67	-93.41	498.40	6,279.51	7,946.54	7,786.49	160.05	49.651	
19,000.00	7,618.00	7,692.14	7,584.64	166.70	31.67	-93.45	498.39	6,279.51	8,046.07	7,885.97	160.10	50.257	
19,100.00	7,618.00	7,692.71	7,585.22	168.10	31.67	-93.50	498.39	6,279.52	8,145.61	7,985.47	160.15	50.864	
19,200.00	7,618.00	7,693.28	7,585.79	169.52	31.67	-93.54	498.39	6,279.52	8,245.17	8,084.97	160.19	51.470	
19,300.00	7,618.00	7,693.86	7,586.36	170.95	31.67	-93.58	498.38	6,279.52	8,344.73	8,184.49	160.24	52.076	
19,400.00	7,618.00	7,694.43	7,586.93	172.39	31.67	-93.62	498.38	6,279.53	8,444.30	8,284.02	160.29	52.683	

Anticollision Report

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

Survey Program: 47-MWD OWSG

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
19,500.00	7,618.00	7,695.00	7,587.50	173.84	31.68	-93.67	498.38	6,279.53	8,543.89	8,383.56	160.33	53.289	
19,600.00	7,618.00	7,713.35	7,587.15	175.30	31.73	-93.64	498.38	6,279.52	8,643.48	8,483.05	160.43	53.876	
19,700.00	7,618.00	7,712.73	7,587.78	176.76	31.73	-93.69	498.37	6,279.53	8,743.08	8,582.61	160.47	54.483	
19,800.00	7,618.00	7,712.10	7,588.40	178.24	31.73	-93.73	498.37	6,279.53	8,842.69	8,682.18	160.51	55.090	
19,896.19	7,618.00	7,711.50	7,589.01	179.66	31.73	-93.78	498.37	6,279.54	8,938.52	8,777.96	160.55	55.674	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	81.92	758.30	5,344.25	5,398.38				
100.00	100.00	23.49	23.49	0.13	0.04	81.92	758.28	5,344.24	5,397.77	5,397.60	0.17	N/A	
200.00	200.00	118.64	118.64	0.49	0.26	81.93	757.62	5,344.18	5,397.61	5,396.86	0.76	7,141.868	
249.54	249.54	154.62	154.61	0.67	0.39	12.63	756.69	5,344.36	5,397.26	5,396.20	1.06	5,086.407	
300.00	299.98	169.00	168.97	0.85	0.45	12.64	756.19	5,344.47	5,396.23	5,394.94	1.29	4,177.236	
400.00	399.84	237.12	236.99	1.21	0.70	12.70	752.70	5,345.61	5,392.16	5,390.25	1.90	2,835.745	
500.00	499.45	295.27	294.94	1.58	0.92	12.79	748.29	5,347.37	5,385.58	5,383.09	2.48	2,168.112	
600.00	598.70	351.00	350.39	1.97	1.13	12.91	743.12	5,349.54	5,376.32	5,373.26	3.06	1,754.546	
700.00	697.47	413.36	412.29	2.38	1.38	13.06	736.14	5,352.59	5,364.44	5,360.75	3.69	1,454.983	
800.00	795.62	442.00	440.64	2.83	1.50	13.18	732.47	5,354.24	5,350.12	5,345.94	4.18	1,280.488	
900.00	893.06	495.86	493.81	3.31	1.74	13.38	724.73	5,358.00	5,333.41	5,328.62	4.79	1,112.540	
1,000.00	989.64	533.00	530.32	3.83	1.90	13.56	718.74	5,361.21	5,314.60	5,309.26	5.34	994.516	
1,100.00	1,085.27	566.45	563.09	4.40	2.06	13.76	712.92	5,364.53	5,293.65	5,287.75	5.90	897.495	
1,200.00	1,179.82	624.00	619.21	5.02	2.34	14.05	702.04	5,371.18	5,270.70	5,264.13	6.58	801.463	
1,300.00	1,273.17	644.09	638.71	5.70	2.45	14.25	697.97	5,373.74	5,245.35	5,238.26	7.10	739.215	
1,400.00	1,365.21	706.19	698.75	6.43	2.78	14.62	684.36	5,381.96	5,217.68	5,209.83	7.84	665.262	
1,500.00	1,455.84	752.95	743.67	7.23	3.04	14.98	673.18	5,388.54	5,187.57	5,179.03	8.54	607.397	
1,600.00	1,544.94	808.00	796.25	8.09	3.36	15.40	659.19	5,396.89	5,155.27	5,145.97	9.30	554.221	
1,700.00	1,632.39	846.78	833.10	9.01	3.60	15.79	648.81	5,403.10	5,120.70	5,110.70	10.00	511.852	
1,800.00	1,718.11	902.00	885.28	10.00	3.95	16.29	633.29	5,412.29	5,083.86	5,073.04	10.82	469.839	
1,900.00	1,801.97	955.18	935.37	11.07	4.30	16.83	617.97	5,421.47	5,044.72	5,033.07	11.65	432.892	
2,000.00	1,883.88	1,021.72	998.00	12.20	4.74	17.48	598.83	5,433.25	5,003.24	4,990.65	12.60	397.188	
2,100.00	1,963.74	1,103.62	1,074.82	13.41	5.29	18.29	574.42	5,447.77	4,959.12	4,945.45	13.67	362.843	
2,200.00	2,041.45	1,264.58	1,225.96	14.69	6.40	19.70	526.45	5,475.40	4,912.24	4,896.96	15.28	321.470	
2,300.00	2,116.92	1,362.49	1,318.33	16.05	7.05	20.79	497.78	5,490.61	4,861.34	4,844.84	16.50	294.584	
2,357.48	2,159.25	1,383.25	1,337.89	16.86	7.20	21.20	491.63	5,493.88	4,831.13	4,814.14	16.99	284.322	
2,400.00	2,190.27	1,398.52	1,352.26	17.47	7.30	21.31	487.08	5,496.34	4,808.66	4,791.30	17.36	277.058	
2,500.00	2,263.22	1,433.00	1,384.64	18.92	7.54	21.57	476.72	5,502.08	4,756.48	4,738.27	18.22	261.129	
2,600.00	2,336.18	1,469.77	1,419.04	20.37	7.80	21.86	465.42	5,508.47	4,705.31	4,686.19	19.12	246.075	
2,700.00	2,409.14	1,504.93	1,451.78	21.84	8.05	22.13	454.29	5,514.84	4,655.18	4,635.14	20.04	232.316	
2,800.00	2,482.09	1,556.08	1,499.17	23.31	8.43	22.54	437.63	5,524.48	4,606.08	4,584.99	21.09	218.361	
2,900.00	2,555.05	1,634.26	1,571.56	24.78	9.01	23.18	412.02	5,539.20	4,557.55	4,535.17	22.37	203.710	
3,000.00	2,628.01	1,704.36	1,636.56	26.27	9.53	23.76	389.34	5,552.39	4,509.55	4,485.93	23.61	190.968	
3,100.00	2,700.96	1,843.42	1,766.17	27.75	10.54	24.92	345.62	5,577.40	4,461.30	4,435.94	25.36	175.896	
3,200.00	2,773.92	1,909.26	1,827.86	29.24	11.01	25.47	325.75	5,589.00	4,413.40	4,386.80	26.60	165.889	
3,300.00	2,846.88	1,984.03	1,898.08	30.73	11.54	26.09	303.73	5,602.26	4,366.09	4,338.17	27.92	156.361	
3,400.00	2,919.83	2,053.14	1,963.04	32.23	12.02	26.68	283.63	5,614.54	4,319.36	4,290.14	29.22	147.804	
3,500.00	2,992.79	2,115.10	2,021.26	33.72	12.46	27.21	265.52	5,625.63	4,273.32	4,242.82	30.50	140.106	
3,600.00	3,065.75	2,170.34	2,073.01	35.22	12.85	27.69	249.03	5,635.67	4,228.15	4,196.40	31.76	133.142	
3,700.00	3,138.71	2,227.76	2,126.68	36.72	13.26	28.20	231.59	5,646.30	4,183.92	4,150.86	33.06	126.568	
3,800.00	3,211.66	2,323.35	2,216.01	38.22	13.95	29.06	202.65	5,664.17	4,140.55	4,105.88	34.67	119.443	
3,900.00	3,284.62	2,444.88	2,330.26	39.72	14.80	30.17	167.13	5,685.52	4,096.74	4,060.26	36.48	112.302	
4,000.00	3,357.58	2,512.95	2,394.41	41.22	15.27	30.79	147.66	5,697.27	4,053.40	4,015.48	37.92	106.882	
4,100.00	3,430.53	2,573.17	2,451.05	42.73	15.69	31.35	130.10	5,707.75	4,010.95	3,971.61	39.34	101.953	
4,200.00	3,503.49	2,628.63	2,503.01	44.23	16.09	31.88	113.31	5,717.49	3,969.53	3,928.77	40.76	97.396	
4,300.00	3,576.45	2,717.37	2,586.04	45.74	16.72	32.75	86.21	5,733.14	3,929.00	3,886.54	42.46	92.535	
4,400.00	3,649.40	2,790.92	2,655.25	47.25	17.24	33.46	64.92	5,746.05	3,888.91	3,844.85	44.06	88.263	
4,500.00	3,722.36	2,849.70	2,710.42	48.75	17.65	34.04	47.49	5,756.40	3,849.81	3,804.24	45.57	84.474	
4,600.00	3,795.32	2,900.04	2,757.53	50.26	18.01	34.55	32.21	5,765.43	3,811.91	3,764.87	47.05	81.020	
4,700.00	3,868.27	2,954.17	2,808.05	51.77	18.41	35.10	15.49	5,775.36	3,775.31	3,726.73	48.58	77.710	
4,800.00	3,941.23	3,013.48	2,863.30	53.28	18.84	35.72	-3.05	5,786.40	3,739.90	3,689.71	50.19	74.520	
4,900.00	4,014.19	3,081.81	2,926.83	54.79	19.35	36.43	-24.67	5,799.20	3,705.62	3,653.72	51.90	71.397	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,087.15	3,154.36	2,994.18	56.30	19.90	37.21	-48.04	5,812.68	3,672.37	3,618.68	53.69	68.401	
5,100.00	4,160.10	3,241.20	3,074.60	57.81	20.55	38.15	-76.76	5,828.42	3,640.06	3,584.41	55.65	65.411	
5,200.00	4,233.06	3,349.88	3,175.70	59.32	21.35	39.35	-111.80	5,847.46	3,608.15	3,550.31	57.84	62.386	
5,300.00	4,306.02	3,427.21	3,248.17	60.83	21.91	40.19	-135.03	5,861.18	3,576.87	3,517.14	59.73	59.885	
5,400.00	4,378.97	3,486.34	3,303.63	62.34	22.33	40.83	-152.53	5,871.94	3,546.82	3,485.35	61.47	57.701	
5,500.00	4,451.93	3,530.87	3,345.28	63.85	22.65	41.32	-165.89	5,880.21	3,518.27	3,455.17	63.10	55.761	
5,600.00	4,524.89	3,586.00	3,396.59	65.36	23.06	41.94	-183.11	5,890.72	3,491.49	3,426.65	64.84	53.846	
5,700.00	4,597.84	3,646.15	3,452.46	66.88	23.51	42.61	-202.10	5,902.36	3,466.21	3,399.55	66.66	51.997	
5,800.00	4,670.80	3,797.83	3,594.25	68.39	24.61	44.33	-247.90	5,930.72	3,441.22	3,371.80	69.41	49.575	
5,900.00	4,743.76	3,870.60	3,662.62	69.90	25.12	45.15	-269.10	5,943.83	3,416.57	3,345.18	71.39	47.857	
6,000.00	4,816.71	3,928.57	3,716.96	71.41	25.53	45.82	-286.44	5,954.18	3,393.30	3,320.05	73.25	46.326	
6,100.00	4,889.67	3,981.42	3,766.30	72.93	25.92	46.44	-302.95	5,963.45	3,371.61	3,296.54	75.07	44.912	
6,200.00	4,962.63	4,028.64	3,810.30	74.44	26.27	47.00	-317.76	5,972.08	3,351.73	3,274.88	76.84	43.619	
6,300.00	5,035.59	4,087.51	3,865.09	75.95	26.70	47.69	-336.11	5,983.36	3,333.64	3,254.89	78.74	42.336	
6,400.00	5,108.54	4,165.75	3,937.91	77.47	27.28	48.61	-360.36	5,998.48	3,316.93	3,236.06	80.87	41.014	
6,500.00	5,181.50	4,256.75	4,022.64	78.98	27.95	49.70	-389.01	6,015.25	3,301.19	3,218.02	83.17	39.691	
6,600.00	5,254.46	4,316.29	4,078.08	80.49	28.39	50.42	-407.76	6,026.21	3,286.85	3,201.73	85.12	38.615	
6,700.00	5,327.41	4,372.19	4,130.11	82.01	28.81	51.09	-425.17	6,036.92	3,274.21	3,187.19	87.02	37.627	
6,800.00	5,400.37	4,430.00	4,183.84	83.52	29.24	51.78	-443.17	6,048.41	3,263.38	3,174.44	88.94	36.693	
6,900.00	5,473.33	4,497.65	4,246.63	85.04	29.75	52.59	-464.33	6,062.03	3,254.18	3,163.20	90.98	35.768	
7,000.00	5,546.28	4,568.50	4,312.33	86.55	30.29	53.45	-486.83	6,076.01	3,246.43	3,153.35	93.07	34.880	
7,100.00	5,619.24	4,633.22	4,372.21	88.06	30.78	54.25	-508.18	6,088.19	3,240.20	3,145.10	95.10	34.071	
7,200.00	5,692.20	4,688.34	4,423.05	89.58	31.21	54.94	-526.90	6,098.33	3,235.77	3,138.77	97.00	33.357	
7,300.00	5,765.15	4,739.02	4,469.68	91.09	31.60	55.57	-544.40	6,107.73	3,233.26	3,134.42	98.83	32.714	
7,400.00	5,838.11	5,064.86	4,774.39	92.61	33.95	59.47	-639.59	6,172.03	3,231.20	3,127.10	104.10	31.038	
7,500.00	5,911.07	5,193.29	4,896.63	94.12	34.78	61.03	-673.55	6,191.96	3,225.46	3,118.60	106.86	30.183	
7,600.00	5,984.03	6,216.43	5,904.22	95.64	38.87	73.41	-804.47	6,258.78	3,201.21	3,086.86	114.36	27.994	
7,700.00	6,056.98	6,294.48	5,982.27	97.15	39.01	74.37	-804.73	6,258.38	3,175.90	3,059.45	116.45	27.272	
7,800.00	6,129.94	6,367.92	6,055.71	98.67	39.15	75.28	-804.93	6,257.91	3,151.80	3,033.24	118.56	26.584	
7,900.00	6,202.90	6,443.93	6,131.72	100.18	39.28	76.23	-805.14	6,257.37	3,129.00	3,008.32	120.68	25.929	
8,000.00	6,275.85	6,522.45	6,210.23	101.70	39.42	77.23	-805.34	6,256.62	3,107.44	2,984.64	122.80	25.305	
8,100.00	6,348.81	6,602.68	6,290.46	103.21	39.57	78.25	-805.37	6,255.78	3,087.11	2,962.19	124.92	24.713	
8,200.00	6,421.77	6,683.90	6,371.68	104.73	39.71	79.29	-805.25	6,254.75	3,068.00	2,940.96	127.04	24.150	
8,300.00	6,494.72	6,750.34	6,438.11	106.24	39.82	80.15	-805.06	6,254.01	3,050.32	2,921.16	129.16	23.617	
8,400.00	6,567.68	6,847.44	6,535.21	107.76	39.99	81.41	-804.54	6,252.88	3,033.96	2,902.70	131.26	23.115	
8,500.00	6,640.64	6,918.21	6,605.95	109.27	40.11	82.34	-803.99	6,251.55	3,018.66	2,885.29	133.36	22.635	
8,600.00	6,713.59	6,992.52	6,680.25	110.79	40.24	83.33	-803.60	6,250.10	3,005.00	2,869.55	135.45	22.185	
8,700.00	6,786.55	7,080.59	6,768.29	112.30	40.39	84.50	-803.01	6,247.86	2,992.61	2,855.09	137.52	21.761	
8,800.00	6,859.51	7,165.41	6,853.07	113.82	40.54	85.64	-802.09	6,245.44	2,981.44	2,841.87	139.57	21.362	
8,900.00	6,932.46	7,244.18	6,931.80	115.33	40.67	86.70	-800.98	6,243.13	2,971.64	2,830.05	141.59	20.987	
9,000.00	7,005.42	7,294.98	6,982.59	116.85	40.76	87.38	-800.16	6,242.18	2,963.66	2,820.06	143.60	20.638	
9,104.89	7,081.95	7,357.51	7,045.10	118.44	40.88	88.21	-799.15	6,241.91	2,957.44	2,811.78	145.67	20.303	
9,150.00	7,115.15	7,387.87	7,075.47	119.12	40.93	83.72	-798.83	6,241.54	2,953.68	2,807.15	146.54	20.157	
9,200.00	7,152.46	7,421.30	7,108.88	119.86	41.00	78.39	-798.65	6,240.82	2,945.97	2,798.50	147.47	19.977	
9,250.00	7,190.04	7,454.29	7,141.86	120.57	41.06	72.80	-798.66	6,239.76	2,934.57	2,786.20	148.37	19.779	
9,300.00	7,227.59	7,486.66	7,174.20	121.25	41.12	67.10	-798.84	6,238.41	2,919.53	2,770.30	149.22	19.565	
9,350.00	7,264.83	7,518.25	7,205.74	121.89	41.18	61.44	-799.18	6,236.78	2,900.92	2,750.89	150.03	19.336	
9,400.00	7,301.48	7,539.02	7,226.48	122.48	41.22	55.78	-799.48	6,235.72	2,878.90	2,728.13	150.77	19.095	
9,450.00	7,337.26	7,560.10	7,247.54	123.01	41.26	50.35	-799.82	6,234.82	2,853.63	2,702.19	151.44	18.843	
9,500.00	7,371.90	7,580.93	7,268.36	123.49	41.31	45.16	-800.19	6,234.10	2,825.23	2,673.18	152.05	18.581	
9,550.00	7,405.13	7,611.00	7,298.41	123.91	41.37	40.32	-800.80	6,233.39	2,793.88	2,641.27	152.61	18.308	
9,600.00	7,436.70	7,626.21	7,313.61	124.27	41.41	35.43	-801.12	6,233.17	2,759.64	2,606.56	153.07	18.028	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	7,654.67	7,342.07	124.57	41.48	30.76	-801.65	6,232.97	2,722.70	2,569.21	153.49	17.738	
9,700.00	7,493.91	7,681.49	7,368.89	124.81	41.54	25.93	-802.08	6,233.07	2,683.25	2,529.41	153.84	17.441	
9,750.00	7,519.11	7,706.35	7,393.74	125.00	41.60	20.65	-802.41	6,233.39	2,641.56	2,487.44	154.12	17.139	
9,800.00	7,541.79	7,721.07	7,408.46	125.12	41.64	14.44	-802.61	6,233.66	2,597.94	2,443.62	154.32	16.835	
9,850.00	7,561.77	7,734.67	7,422.05	125.20	41.68	6.85	-802.83	6,233.94	2,552.71	2,398.26	154.45	16.528	
9,900.00	7,578.90	7,746.57	7,433.95	125.23	41.71	-3.03	-803.05	6,234.20	2,506.18	2,351.67	154.51	16.220	
9,950.00	7,593.04	7,756.65	7,444.02	125.22	41.73	-16.29	-803.26	6,234.44	2,458.69	2,304.19	154.51	15.913	
10,000.00	7,604.09	7,764.79	7,452.16	125.17	41.76	-33.57	-803.43	6,234.64	2,410.59	2,256.15	154.44	15.609	
10,050.00	7,611.97	7,770.89	7,458.26	125.08	41.77	-53.27	-803.58	6,234.80	2,362.25	2,207.94	154.31	15.308	
10,100.00	7,616.61	7,774.86	7,462.23	124.97	41.78	-71.40	-803.67	6,234.91	2,314.06	2,159.94	154.12	15.014	
10,145.95	7,618.00	7,776.57	7,463.93	124.84	41.79	-84.30	-803.71	6,234.95	2,270.25	2,116.36	153.90	14.752	
10,200.00	7,618.00	7,777.48	7,464.84	124.69	41.79	-84.37	-803.74	6,234.98	2,219.19	2,065.60	153.60	14.448	
10,300.00	7,618.00	7,779.18	7,466.54	124.41	41.79	-84.51	-803.78	6,235.02	2,125.12	1,972.13	152.98	13.891	
10,400.00	7,618.00	7,780.93	7,468.29	124.14	41.80	-84.64	-803.82	6,235.07	2,031.60	1,879.30	152.30	13.340	
10,500.00	7,618.00	7,782.72	7,470.07	123.88	41.80	-84.78	-803.87	6,235.12	1,938.73	1,787.20	151.52	12.795	
10,600.00	7,618.00	7,784.55	7,471.91	123.63	41.81	-84.92	-803.92	6,235.18	1,846.60	1,695.95	150.65	12.258	
10,700.00	7,618.00	7,786.43	7,473.79	123.40	41.81	-85.07	-803.97	6,235.23	1,755.33	1,605.68	149.65	11.730	
10,800.00	7,618.00	7,788.36	7,475.71	123.18	41.82	-85.22	-804.02	6,235.28	1,665.06	1,516.56	148.50	11.213	
10,900.00	7,618.00	7,790.34	7,477.69	122.96	41.82	-85.37	-804.07	6,235.34	1,575.96	1,428.78	147.18	10.708	
11,000.00	7,618.00	7,792.37	7,479.72	122.76	41.83	-85.53	-804.13	6,235.40	1,488.25	1,342.60	145.65	10.218	
11,100.00	7,618.00	7,794.46	7,481.81	122.57	41.83	-85.69	-804.18	6,235.46	1,402.17	1,258.31	143.86	9.747	
11,200.00	7,618.00	7,799.00	7,486.34	122.39	41.85	-86.05	-804.31	6,235.60	1,318.06	1,176.30	141.77	9.297	
11,300.00	7,618.00	7,799.00	7,486.34	122.23	41.85	-86.05	-804.31	6,235.60	1,236.31	1,097.01	139.30	8.875	
11,400.00	7,618.00	7,801.23	7,488.57	122.07	41.85	-86.22	-804.38	6,235.67	1,157.43	1,021.04	136.39	8.486	
11,500.00	7,618.00	7,803.71	7,491.05	121.93	41.86	-86.41	-804.45	6,235.75	1,082.04	949.10	132.93	8.140	
11,600.00	7,618.00	7,806.23	7,493.57	121.79	41.87	-86.61	-804.52	6,235.82	1,010.91	882.07	128.84	7.846	
11,700.00	7,618.00	7,808.80	7,496.14	121.67	41.88	-86.81	-804.60	6,235.90	945.03	821.01	124.01	7.620	
11,800.00	7,618.00	7,811.42	7,498.75	121.56	41.88	-87.02	-804.68	6,235.99	885.54	767.13	118.41	7.479	
11,900.00	7,618.00	7,814.09	7,501.42	121.46	41.89	-87.22	-804.76	6,236.07	833.84	721.75	112.09	7.439	
12,000.00	7,618.00	7,816.80	7,504.13	121.38	41.90	-87.43	-804.84	6,236.16	791.43	686.06	105.37	7.511	
12,100.00	7,618.00	7,819.56	7,506.89	121.30	41.91	-87.65	-804.92	6,236.25	759.89	660.87	99.02	7.674	
12,200.00	7,618.00	7,822.38	7,509.70	121.24	41.91	-87.87	-805.01	6,236.34	740.59	646.17	94.42	7.843	
12,294.89	7,618.00	7,825.10	7,512.42	121.20	41.92	-88.08	-805.10	6,236.43	734.50	641.26	93.24	7.877 CC	
12,300.00	7,618.00	7,825.24	7,512.56	121.19	41.92	-88.09	-805.10	6,236.44	734.51	641.23	93.29	7.874 ES	
12,400.00	7,618.00	7,828.17	7,515.48	121.16	41.93	-88.32	-805.19	6,236.54	741.97	645.52	96.46	7.692	
12,500.00	7,618.00	7,831.14	7,518.46	121.14	41.94	-88.55	-805.29	6,236.64	762.57	659.57	103.00	7.404	
12,600.00	7,618.00	7,834.18	7,521.49	121.13	41.95	-88.79	-805.39	6,236.74	795.29	684.22	111.07	7.160	
12,700.00	7,618.00	7,837.28	7,524.58	121.13	41.96	-89.03	-805.49	6,236.85	838.72	719.54	119.17	7.038 SF	
12,800.00	7,618.00	7,840.43	7,527.73	121.15	41.97	-89.28	-805.59	6,236.96	891.28	764.78	126.50	7.046	
12,900.00	7,618.00	7,843.65	7,530.95	121.18	41.98	-89.53	-805.70	6,237.07	951.47	818.70	132.77	7.166	
13,000.00	7,618.00	7,846.94	7,534.23	121.23	41.99	-89.78	-805.81	6,237.19	1,017.93	879.96	137.97	7.378	
13,100.00	7,618.00	7,850.29	7,537.58	121.29	42.00	-90.04	-805.92	6,237.31	1,089.52	947.30	142.22	7.661	
13,200.00	7,618.00	7,853.71	7,540.99	121.37	42.01	-90.31	-806.04	6,237.43	1,165.29	1,019.61	145.68	7.999	
13,300.00	7,618.00	7,857.20	7,544.48	121.46	42.02	-90.58	-806.16	6,237.56	1,244.48	1,095.99	148.48	8.381	
13,400.00	7,618.00	7,860.76	7,548.04	121.57	42.03	-90.86	-806.28	6,237.69	1,326.47	1,175.70	150.77	8.798	
13,500.00	7,618.00	7,864.40	7,551.67	121.70	42.04	-91.14	-806.41	6,237.83	1,410.78	1,258.14	152.63	9.243	
13,600.00	7,618.00	7,868.12	7,555.39	121.84	42.05	-91.43	-806.54	6,237.97	1,497.01	1,342.84	154.17	9.710	
13,700.00	7,618.00	7,871.92	7,559.18	122.01	42.06	-91.73	-806.68	6,238.12	1,584.85	1,429.42	155.44	10.196	
13,800.00	7,618.00	7,875.80	7,563.06	122.19	42.07	-92.03	-806.82	6,238.27	1,674.05	1,517.56	156.50	10.697	
13,900.00	7,618.00	7,879.77	7,567.02	122.39	42.08	-92.34	-806.96	6,238.42	1,764.40	1,607.02	157.38	11.211	
14,000.00	7,618.00	7,883.83	7,571.07	122.62	42.09	-92.65	-807.12	6,238.58	1,855.74	1,697.61	158.13	11.736	
14,100.00	7,618.00	7,887.97	7,575.21	122.86	42.11	-92.97	-807.27	6,238.75	1,947.91	1,789.15	158.76	12.269	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,200.00	7,618.00	7,892.22	7,579.45	123.12	42.12	-93.30	-807.43	6,238.92	2,040.82	1,881.51	159.31	12.811	
14,300.00	7,618.00	7,896.56	7,583.78	123.41	42.13	-93.63	-807.60	6,239.10	2,134.36	1,974.58	159.77	13.359	
14,400.00	7,618.00	7,901.00	7,588.22	123.72	42.14	-93.98	-807.77	6,239.28	2,228.45	2,068.27	160.18	13.913	
14,500.00	7,618.00	7,905.55	7,592.76	124.06	42.16	-94.33	-807.95	6,239.47	2,323.03	2,162.50	160.53	14.471	
14,600.00	7,618.00	7,910.21	7,597.41	124.42	42.17	-94.68	-808.14	6,239.67	2,418.03	2,257.20	160.83	15.035	
14,700.00	7,618.00	7,911.10	7,598.30	124.80	42.17	-94.75	-808.14	6,239.65	2,513.44	2,352.33	161.10	15.601	
14,800.00	7,618.00	7,914.73	7,601.93	125.21	42.18	-95.03	-808.28	6,239.78	2,609.17	2,447.83	161.34	16.172	
14,900.00	7,618.00	7,918.31	7,605.51	125.65	42.19	-95.31	-808.41	6,239.91	2,705.21	2,543.65	161.55	16.745	
15,000.00	7,618.00	7,921.85	7,609.04	126.11	42.20	-95.58	-808.54	6,240.03	2,801.52	2,639.77	161.74	17.321	
15,100.00	7,618.00	7,925.34	7,612.53	126.61	42.21	-95.85	-808.66	6,240.15	2,898.07	2,736.16	161.91	17.900	
15,200.00	7,618.00	7,928.79	7,615.98	127.13	42.22	-96.11	-808.79	6,240.27	2,994.85	2,832.79	162.06	18.480	
15,300.00	7,618.00	7,932.20	7,619.38	127.68	42.23	-96.37	-808.91	6,240.38	3,091.83	2,929.63	162.19	19.063	
15,400.00	7,618.00	7,935.56	7,622.74	128.26	42.24	-96.63	-809.03	6,240.49	3,188.99	3,026.67	162.32	19.647	
15,500.00	7,618.00	7,938.88	7,626.05	128.87	42.25	-96.88	-809.14	6,240.59	3,286.31	3,123.89	162.43	20.233	
15,600.00	7,618.00	7,942.16	7,629.33	129.51	42.26	-97.13	-809.26	6,240.69	3,383.80	3,221.27	162.53	20.820	
15,700.00	7,618.00	7,945.40	7,632.57	130.18	42.27	-97.37	-809.37	6,240.79	3,481.42	3,318.80	162.62	21.408	
15,800.00	7,618.00	7,948.60	7,635.76	130.88	42.28	-97.62	-809.48	6,240.88	3,579.16	3,416.46	162.70	21.998	
15,900.00	7,618.00	7,951.76	7,638.92	131.61	42.29	-97.86	-809.59	6,240.97	3,677.03	3,514.25	162.78	22.589	
16,000.00	7,618.00	7,954.89	7,642.04	132.37	42.30	-98.09	-809.70	6,241.06	3,775.01	3,612.15	162.85	23.180	
16,100.00	7,618.00	7,957.97	7,645.12	133.17	42.31	-98.33	-809.80	6,241.15	3,873.08	3,710.16	162.92	23.773	
16,200.00	7,618.00	7,961.02	7,648.17	133.99	42.32	-98.56	-809.90	6,241.23	3,971.25	3,808.27	162.98	24.366	
16,300.00	7,618.00	7,964.03	7,651.18	134.84	42.33	-98.78	-810.00	6,241.31	4,069.51	3,906.47	163.04	24.960	
16,400.00	7,618.00	7,967.01	7,654.15	135.72	42.33	-99.01	-810.10	6,241.38	4,167.84	4,004.75	163.10	25.555	
16,500.00	7,618.00	7,969.95	7,657.09	136.63	42.34	-99.23	-810.20	6,241.46	4,266.26	4,103.11	163.15	26.150	
16,600.00	7,618.00	7,972.86	7,660.00	137.57	42.35	-99.45	-810.30	6,241.53	4,364.74	4,201.54	163.19	26.746	
16,700.00	7,618.00	7,975.73	7,662.87	138.54	42.36	-99.66	-810.39	6,241.60	4,463.28	4,300.05	163.24	27.342	
16,800.00	7,618.00	7,978.57	7,665.71	139.53	42.37	-99.88	-810.48	6,241.66	4,561.89	4,398.61	163.28	27.939	
16,900.00	7,618.00	7,981.38	7,668.51	140.55	42.38	-100.09	-810.57	6,241.72	4,660.56	4,497.24	163.32	28.536	
17,000.00	7,618.00	7,984.16	7,671.29	141.60	42.38	-100.29	-810.66	6,241.79	4,759.28	4,595.92	163.36	29.133	
17,100.00	7,618.00	7,986.90	7,674.03	142.67	42.39	-100.50	-810.75	6,241.84	4,858.05	4,694.65	163.40	29.731	
17,200.00	7,618.00	7,986.00	7,673.13	143.77	42.39	-100.43	-810.72	6,241.83	4,956.87	4,793.44	163.43	30.330	
17,300.00	7,618.00	7,986.00	7,673.13	144.88	42.39	-100.43	-810.72	6,241.83	5,055.73	4,892.27	163.46	30.930	
17,400.00	7,618.00	7,986.00	7,673.13	146.02	42.39	-100.43	-810.72	6,241.83	5,154.64	4,991.15	163.49	31.529	
17,500.00	7,618.00	7,986.00	7,673.13	147.19	42.39	-100.43	-810.72	6,241.83	5,253.59	5,090.08	163.52	32.129	
17,600.00	7,618.00	7,986.00	7,673.13	148.37	42.39	-100.43	-810.72	6,241.83	5,352.58	5,189.04	163.54	32.729	
17,700.00	7,618.00	7,986.00	7,673.13	149.57	42.39	-100.43	-810.72	6,241.83	5,451.61	5,288.04	163.57	33.329	
17,800.00	7,618.00	7,986.00	7,673.13	150.79	42.39	-100.43	-810.72	6,241.83	5,550.67	5,387.08	163.59	33.930	
17,900.00	7,618.00	7,986.00	7,673.13	152.03	42.39	-100.43	-810.72	6,241.83	5,649.76	5,486.15	163.62	34.531	
18,000.00	7,618.00	7,986.00	7,673.13	153.29	42.39	-100.43	-810.72	6,241.83	5,748.89	5,585.25	163.64	35.132	
18,100.00	7,618.00	7,986.00	7,673.13	154.57	42.39	-100.43	-810.72	6,241.83	5,848.05	5,684.39	163.66	35.733	
18,200.00	7,618.00	7,986.00	7,673.13	155.86	42.39	-100.43	-810.72	6,241.83	5,947.23	5,783.55	163.68	36.334	
18,300.00	7,618.00	8,005.65	7,692.77	157.17	42.44	-101.89	-811.31	6,242.20	6,046.38	5,882.65	163.73	36.929	
18,400.00	7,618.00	8,007.04	7,694.16	158.49	42.45	-101.99	-811.35	6,242.23	6,145.60	5,981.85	163.75	37.529	
18,500.00	7,618.00	8,008.41	7,695.52	159.82	42.45	-102.09	-811.39	6,242.25	6,244.86	6,081.08	163.78	38.130	
18,600.00	7,618.00	8,009.74	7,696.86	161.17	42.45	-102.19	-811.42	6,242.27	6,344.13	6,180.33	163.80	38.731	
18,700.00	7,618.00	8,011.06	7,698.17	162.54	42.46	-102.29	-811.46	6,242.29	6,443.43	6,279.61	163.82	39.332	
18,800.00	7,618.00	8,012.35	7,699.46	163.91	42.46	-102.38	-811.50	6,242.31	6,542.74	6,378.90	163.84	39.933	
18,900.00	7,618.00	8,013.61	7,700.73	165.30	42.46	-102.48	-811.53	6,242.33	6,642.08	6,478.22	163.86	40.534	
19,000.00	7,618.00	8,014.86	7,701.97	166.70	42.47	-102.57	-811.56	6,242.35	6,741.44	6,577.55	163.88	41.135	
19,100.00	7,618.00	8,016.08	7,703.19	168.10	42.47	-102.66	-811.59	6,242.37	6,840.81	6,676.91	163.91	41.736	
19,200.00	7,618.00	8,017.28	7,704.39	169.52	42.47	-102.74	-811.63	6,242.39	6,940.20	6,776.28	163.93	42.337	
19,300.00	7,618.00	8,018.46	7,705.56	170.95	42.48	-102.83	-811.66	6,242.40	7,039.61	6,875.67	163.95	42.938	

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

Survey Program: 78-MWD OWSG

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
19,400.00	7,618.00	8,019.61	7,706.72	172.39	42.48	-102.92	-811.69	6,242.42	7,139.04	6,975.07	163.97	43.540	
19,500.00	7,618.00	8,020.75	7,707.86	173.84	42.48	-103.00	-811.71	6,242.44	7,238.48	7,074.49	163.99	44.141	
19,600.00	7,618.00	8,021.87	7,708.98	175.30	42.48	-103.08	-811.74	6,242.45	7,337.93	7,173.93	164.01	44.742	
19,700.00	7,618.00	8,022.97	7,710.07	176.76	42.49	-103.16	-811.77	6,242.47	7,437.40	7,273.38	164.03	45.342	
19,800.00	7,618.00	8,024.05	7,711.15	178.24	42.49	-103.24	-811.80	6,242.48	7,536.89	7,372.84	164.05	45.943	
19,896.19	7,618.00	8,025.07	7,712.18	179.66	42.49	-103.32	-811.82	6,242.49	7,632.59	7,468.52	164.07	46.521	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	1,139.52	1,117.29	0.00	5.04	83.22	615.19	5,178.34	5,350.43				
100.00	100.00	1,215.00	1,189.69	0.13	5.49	83.38	599.55	5,163.80	5,328.46	5,323.18	5.28	1,008.618	
200.00	200.00	1,286.18	1,257.99	0.49	5.91	83.52	584.64	5,150.41	5,306.94	5,301.13	5.81	914.025	
300.00	299.98	1,363.86	1,332.37	0.85	6.38	14.50	567.50	5,136.02	5,284.00	5,277.51	6.49	813.896	
400.00	399.84	1,717.01	1,668.21	1.21	8.62	15.51	488.19	5,061.32	5,254.05	5,245.37	8.68	605.626	
500.00	499.45	1,775.00	1,723.37	1.58	8.99	15.85	476.18	5,048.05	5,220.78	5,211.47	9.31	560.824	
600.00	598.70	1,854.31	1,798.89	1.97	9.50	16.27	459.76	5,030.24	5,184.87	5,174.81	10.06	515.423	
700.00	697.47	1,912.34	1,854.21	2.38	9.86	16.66	447.93	5,017.29	5,146.15	5,135.45	10.70	480.832	
800.00	795.62	1,962.00	1,901.78	2.83	10.17	17.06	438.71	5,006.45	5,105.10	5,093.79	11.31	451.413	
900.00	893.06	2,021.37	1,958.79	3.31	10.53	17.52	427.93	4,993.85	5,061.69	5,049.73	11.96	423.043	
1,000.00	989.64	2,171.71	2,102.89	3.83	11.45	18.33	399.37	4,961.89	5,015.41	5,002.34	13.07	383.775	
1,100.00	1,085.27	2,256.75	2,184.29	4.40	11.97	19.00	383.49	4,943.07	4,965.48	4,951.61	13.86	358.145	
1,200.00	1,179.82	2,347.85	2,271.53	5.02	12.54	19.75	366.89	4,922.76	4,912.72	4,898.02	14.69	334.329	
1,300.00	1,273.17	2,407.38	2,328.58	5.70	12.90	20.45	356.22	4,909.56	4,857.43	4,842.04	15.38	315.747	
1,400.00	1,365.21	2,483.89	2,401.97	6.43	13.37	21.29	342.53	4,892.76	4,799.75	4,783.58	16.16	296.929	
1,500.00	1,455.84	2,548.24	2,463.65	7.23	13.76	22.17	330.83	4,878.63	4,739.57	4,722.66	16.90	280.373	
1,600.00	1,544.94	2,594.85	2,508.34	8.09	14.05	23.03	322.15	4,868.65	4,677.35	4,659.76	17.58	266.053	
1,700.00	1,632.39	2,659.91	2,570.75	9.01	14.44	24.09	309.82	4,855.02	4,613.13	4,594.77	18.36	251.262	
1,800.00	1,718.11	2,710.00	2,618.80	10.00	14.75	25.16	300.42	4,844.46	4,546.65	4,527.56	19.09	238.170	
1,900.00	1,801.97	2,761.61	2,668.41	11.07	15.06	26.34	291.04	4,833.74	4,478.28	4,458.44	19.84	225.699	
2,000.00	1,883.88	2,804.00	2,709.29	12.20	15.31	27.55	283.74	4,825.26	4,408.33	4,387.75	20.58	214.244	
2,100.00	1,963.74	3,014.79	2,912.05	13.41	16.56	30.40	248.63	4,779.62	4,335.31	4,313.28	22.04	196.737	
2,200.00	2,041.45	3,040.40	2,936.59	14.69	16.72	31.84	244.32	4,773.76	4,259.84	4,237.09	22.75	187.237	
2,300.00	2,116.92	3,084.00	2,978.52	16.05	16.98	33.62	237.11	4,764.19	4,183.20	4,159.62	23.57	177.456	
2,357.48	2,159.25	3,084.00	2,978.52	16.86	16.98	34.41	237.11	4,764.19	4,138.45	4,114.49	23.96	172.720	
2,400.00	2,190.27	3,102.84	2,996.66	17.47	17.10	34.64	234.01	4,760.16	4,105.31	4,080.98	24.33	168.742	
2,500.00	2,263.22	3,184.76	3,075.44	18.92	17.58	35.66	220.43	4,742.26	4,027.33	4,001.96	25.37	158.755	
2,600.00	2,336.18	3,231.27	3,120.11	20.37	17.87	36.26	212.60	4,731.98	3,949.53	3,923.22	26.30	150.147	
2,700.00	2,409.14	3,279.36	3,166.30	21.84	18.16	36.90	204.40	4,721.39	3,872.08	3,844.80	27.29	141.910	
2,800.00	2,482.09	3,322.51	3,207.73	23.31	18.42	37.49	196.85	4,711.95	3,795.07	3,766.79	28.29	134.155	
2,900.00	2,555.05	3,368.64	3,248.84	24.78	18.70	38.09	189.14	4,702.68	3,718.56	3,689.21	29.35	126.703	
3,000.00	2,628.01	3,417.16	3,298.54	26.27	19.00	38.84	179.68	4,691.52	3,642.51	3,612.06	30.46	119.594	
3,100.00	2,700.96	3,468.96	3,348.23	27.75	19.31	39.61	170.22	4,680.37	3,566.90	3,535.27	31.63	112.782	
3,200.00	2,773.92	3,506.81	3,384.55	29.24	19.54	40.18	163.26	4,672.31	3,491.86	3,459.08	32.78	106.519	
3,300.00	2,846.88	3,547.06	3,423.19	30.73	19.79	40.81	155.80	4,663.87	3,417.49	3,383.49	33.99	100.534	
3,400.00	2,919.83	3,582.49	3,457.23	32.23	20.00	41.37	149.20	4,656.57	3,343.85	3,308.62	35.23	94.909	
3,500.00	2,992.79	3,617.38	3,490.78	33.72	20.21	41.93	142.69	4,649.57	3,271.06	3,234.54	36.52	89.574	
3,600.00	3,065.75	3,647.00	3,519.30	35.22	20.39	42.42	137.15	4,643.78	3,199.16	3,161.33	37.83	84.565	
3,700.00	3,138.71	3,678.54	3,549.71	36.72	20.57	42.94	131.26	4,637.83	3,128.28	3,089.08	39.20	79.800	
3,800.00	3,211.66	3,706.39	3,576.60	38.22	20.73	43.41	126.06	4,632.83	3,058.55	3,017.94	40.61	75.317	
3,900.00	3,284.62	3,741.00	3,610.10	39.72	20.93	44.00	119.60	4,626.96	2,990.03	2,947.93	42.10	71.017	
4,000.00	3,357.58	3,808.03	3,674.94	41.22	21.31	45.17	106.97	4,615.65	2,922.43	2,878.61	43.82	66.696	
4,100.00	3,430.53	3,947.12	3,809.06	42.73	22.12	47.72	80.75	4,589.75	2,854.78	2,808.82	45.96	62.118	
4,200.00	3,503.49	3,995.35	3,855.50	44.23	22.40	48.65	71.94	4,580.21	2,787.25	2,739.52	47.73	58.400	
4,300.00	3,576.45	4,048.55	3,906.76	45.74	22.72	49.69	62.40	4,569.60	2,720.56	2,670.98	49.59	54.864	
4,400.00	3,649.40	4,096.14	3,952.68	47.25	22.99	50.63	54.14	4,560.25	2,654.99	2,603.50	51.49	51.564	
4,500.00	3,722.36	4,156.72	4,011.23	48.75	23.34	51.86	43.97	4,548.49	2,590.55	2,537.03	53.52	48.401	
4,600.00	3,795.32	4,226.62	4,078.74	50.26	23.75	53.31	32.36	4,534.57	2,526.97	2,471.29	55.68	45.385	
4,700.00	3,868.27	4,272.12	4,122.54	51.77	24.02	54.30	24.25	4,525.31	2,464.61	2,406.78	57.82	42.623	
4,800.00	3,941.23	4,327.53	4,175.71	53.28	24.36	55.54	13.65	4,513.85	2,403.69	2,343.57	60.12	39.982	
4,900.00	4,014.19	4,397.51	4,242.75	54.79	24.79	57.15	0.19	4,498.95	2,344.01	2,281.41	62.60	37.446	
5,000.00	4,087.15	4,451.78	4,294.65	56.30	25.13	58.44	-10.35	4,487.09	2,285.75	2,220.67	65.08	35.121	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,160.10	4,505.71	4,346.11	57.81	25.47	59.75	-21.14	4,475.11	2,229.23	2,161.57	67.66	32.948	
5,200.00	4,233.06	4,561.81	4,399.52	59.32	25.83	61.15	-32.65	4,462.38	2,174.56	2,104.21	70.35	30.911	
5,300.00	4,306.02	4,617.64	4,452.56	60.83	26.20	62.57	-44.32	4,449.43	2,121.89	2,048.76	73.13	29.015	
5,400.00	4,378.97	4,673.44	4,505.51	62.34	26.56	64.02	-56.02	4,436.28	2,071.38	1,995.39	75.99	27.259	
5,500.00	4,451.93	4,739.19	4,567.93	63.85	26.99	65.77	-69.45	4,420.58	2,023.10	1,944.11	78.98	25.615	
5,600.00	4,524.89	4,789.41	4,615.69	65.36	27.32	67.11	-79.19	4,408.52	1,977.13	1,895.22	81.91	24.138	
5,700.00	4,597.84	4,823.17	4,647.79	66.88	27.54	68.03	-85.94	4,400.51	1,934.28	1,849.53	84.75	22.824	
5,800.00	4,670.80	4,856.86	4,679.78	68.39	27.76	68.95	-92.97	4,392.64	1,894.86	1,807.26	87.60	21.631	
5,900.00	4,743.76	4,896.39	4,717.32	69.90	28.02	70.05	-101.44	4,383.60	1,859.04	1,768.56	90.48	20.545	
6,000.00	4,816.71	4,939.21	4,758.08	71.41	28.30	71.24	-110.51	4,374.12	1,826.85	1,733.49	93.36	19.567	
6,100.00	4,889.67	4,994.28	4,810.62	72.93	28.65	72.78	-122.00	4,362.27	1,798.35	1,702.05	96.30	18.675	
6,200.00	4,962.63	5,058.29	4,871.71	74.44	29.05	74.59	-135.03	4,348.25	1,773.25	1,674.00	99.24	17.868	
6,300.00	5,035.59	5,107.28	4,918.52	75.95	29.36	75.98	-144.77	4,337.59	1,751.89	1,649.95	101.94	17.186	
6,400.00	5,108.54	5,162.02	4,970.96	77.47	29.70	77.54	-155.39	4,326.02	1,734.51	1,629.97	104.55	16.591	
6,500.00	5,181.50	5,231.82	5,038.23	78.98	30.11	79.51	-167.79	4,312.13	1,720.86	1,613.74	107.12	16.065	
6,600.00	5,254.46	5,301.96	5,106.38	80.49	30.49	81.46	-178.59	4,299.61	1,710.71	1,601.23	109.48	15.626	
6,700.00	5,327.41	5,371.19	5,174.22	82.01	30.83	83.34	-187.54	4,289.12	1,703.99	1,592.37	111.61	15.267	
6,800.00	5,400.37	5,440.10	5,242.14	83.52	31.15	85.18	-195.23	4,280.38	1,700.74	1,587.20	113.54	14.979	
6,842.41	5,431.31	5,465.14	5,266.89	84.16	31.24	85.84	-197.79	4,277.63	1,700.43	1,586.17	114.25	14.883	
6,900.00	5,473.33	5,502.66	5,304.05	85.04	31.40	86.81	-201.42	4,273.95	1,701.00	1,585.80	115.20	14.766	
7,000.00	5,546.28	5,578.95	5,379.82	86.55	31.69	88.76	-208.02	4,267.84	1,704.52	1,587.77	116.75	14.600	
7,100.00	5,619.24	5,670.73	5,471.21	88.06	32.00	91.04	-214.30	4,262.37	1,710.65	1,592.46	118.19	14.474	
7,200.00	5,692.20	5,772.91	5,573.24	89.58	32.30	93.49	-218.57	4,259.05	1,718.64	1,599.17	119.47	14.386	
7,300.00	5,765.15	5,869.88	5,670.18	91.09	32.53	95.73	-220.31	4,258.19	1,728.24	1,607.72	120.53	14.339	
7,400.00	5,838.11	5,947.69	5,747.99	92.61	32.70	97.48	-220.71	4,258.55	1,739.84	1,618.46	121.38	14.334	
7,500.00	5,911.07	6,019.32	5,819.62	94.12	32.85	99.08	-221.12	4,258.82	1,754.05	1,631.97	122.08	14.368	
7,600.00	5,984.03	6,091.09	5,891.39	95.64	33.01	100.67	-221.59	4,258.96	1,770.83	1,648.18	122.65	14.438	
7,700.00	6,056.98	6,161.72	5,962.02	97.15	33.17	102.22	-222.13	4,259.06	1,790.15	1,667.05	123.10	14.543	
7,800.00	6,129.94	6,234.32	6,034.62	98.67	33.33	103.80	-222.74	4,259.22	1,811.91	1,688.47	123.44	14.679	
7,900.00	6,202.90	6,310.02	6,110.32	100.18	33.50	105.41	-223.35	4,259.43	1,835.93	1,712.25	123.68	14.844	
8,000.00	6,275.85	6,387.19	6,187.48	101.70	33.67	107.03	-223.78	4,259.77	1,861.98	1,738.14	123.84	15.036	
8,100.00	6,348.81	6,462.07	6,262.36	103.21	33.84	108.58	-224.09	4,260.07	1,890.03	1,766.13	123.90	15.254	
8,200.00	6,421.77	6,535.01	6,335.30	104.73	34.00	110.06	-224.36	4,260.24	1,920.07	1,796.18	123.89	15.498	
8,300.00	6,494.72	6,609.16	6,409.45	106.24	34.17	111.53	-224.60	4,260.31	1,952.03	1,828.21	123.82	15.765	
8,400.00	6,567.68	6,684.25	6,484.54	107.76	34.34	113.00	-224.79	4,260.46	1,985.77	1,862.07	123.70	16.053	
8,500.00	6,640.64	6,757.85	6,558.14	109.27	34.51	114.41	-224.89	4,260.59	2,021.17	1,897.65	123.53	16.362	
8,600.00	6,713.59	6,826.88	6,627.17	110.79	34.66	115.69	-225.10	4,260.85	2,058.32	1,935.02	123.30	16.693	
8,700.00	6,786.55	6,900.16	6,700.45	112.30	34.83	117.02	-225.44	4,261.29	2,097.11	1,974.03	123.08	17.039	
8,800.00	6,859.51	6,976.77	6,777.06	113.82	35.00	118.38	-225.79	4,261.90	2,137.31	2,014.46	122.85	17.398	
8,900.00	6,932.46	7,053.03	6,853.31	115.33	35.17	119.69	-226.04	4,262.74	2,178.74	2,056.14	122.60	17.771	
9,000.00	7,005.42	7,126.39	6,926.67	116.85	35.33	120.92	-226.22	4,263.42	2,221.45	2,099.11	122.34	18.158	
9,104.89	7,081.95	7,202.13	7,002.40	118.44	35.50	122.16	-226.42	4,264.05	2,267.58	2,145.54	122.05	18.580	
9,150.00	7,115.15	7,234.93	7,035.20	119.12	35.58	117.32	-226.51	4,264.32	2,286.30	2,164.39	121.91	18.754	
9,200.00	7,152.46	7,271.79	7,072.06	119.86	35.66	111.83	-226.63	4,264.62	2,303.69	2,181.95	121.74	18.923	
9,250.00	7,190.04	7,308.76	7,109.03	120.57	35.74	106.32	-226.76	4,264.92	2,317.48	2,195.94	121.55	19.067	
9,300.00	7,227.59	7,345.29	7,145.56	121.25	35.83	100.93	-226.90	4,265.20	2,327.64	2,206.32	121.32	19.186	
9,350.00	7,264.83	7,381.53	7,181.80	121.89	35.91	95.81	-227.06	4,265.47	2,334.13	2,213.08	121.05	19.282	
9,400.00	7,301.48	7,417.48	7,217.75	122.48	36.00	91.09	-227.23	4,265.72	2,336.98	2,216.22	120.75	19.353	
9,450.00	7,337.26	7,452.67	7,252.93	123.01	36.08	86.88	-227.40	4,265.94	2,336.18	2,215.77	120.41	19.402	
9,500.00	7,371.90	7,486.70	7,286.96	123.49	36.17	83.23	-227.56	4,266.12	2,331.80	2,211.78	120.01	19.430	
9,550.00	7,405.13	7,519.31	7,319.57	123.91	36.25	80.18	-227.72	4,266.26	2,323.90	2,204.33	119.56	19.436	
9,600.00	7,436.70	7,550.27	7,350.54	124.27	36.32	77.72	-227.86	4,266.37	2,312.57	2,193.51	119.06	19.424	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	7,579.37	7,379.63	124.57	36.39	75.86	-228.00	4,266.45	2,297.92	2,179.42	118.50	19.392	
9,700.00	7,493.91	7,607.64	7,407.90	124.81	36.46	74.61	-228.13	4,266.54	2,280.07	2,162.18	117.89	19.340	
9,750.00	7,519.11	7,633.63	7,433.89	125.00	36.53	73.94	-228.27	4,266.64	2,259.15	2,141.92	117.23	19.271	
9,800.00	7,541.79	7,657.11	7,457.37	125.12	36.58	73.83	-228.40	4,266.76	2,235.32	2,118.81	116.51	19.185	
9,850.00	7,561.77	7,678.23	7,478.49	125.20	36.64	74.30	-228.53	4,266.89	2,208.76	2,093.01	115.75	19.082	
9,900.00	7,578.90	7,697.32	7,497.58	125.23	36.68	75.38	-228.64	4,267.02	2,179.64	2,064.70	114.95	18.962	
9,950.00	7,593.04	7,713.11	7,513.36	125.22	36.72	77.06	-228.71	4,267.13	2,148.16	2,034.06	114.10	18.827	
10,000.00	7,604.09	7,725.46	7,525.72	125.17	36.75	79.37	-228.77	4,267.22	2,114.53	2,001.32	113.21	18.678	
10,050.00	7,611.97	7,734.31	7,534.57	125.08	36.77	82.36	-228.81	4,267.28	2,078.95	1,966.66	112.30	18.513	
10,100.00	7,616.61	7,739.60	7,539.86	124.97	36.78	86.07	-228.83	4,267.32	2,041.66	1,930.30	111.36	18.334	
10,145.95	7,618.00	7,741.31	7,541.56	124.84	36.79	90.16	-228.83	4,267.34	2,006.06	1,895.57	110.49	18.156	
10,200.00	7,618.00	7,741.53	7,541.78	124.69	36.79	90.18	-228.84	4,267.34	1,963.79	1,854.35	109.44	17.944	
10,300.00	7,618.00	7,741.93	7,542.19	124.41	36.79	90.19	-228.84	4,267.34	1,887.17	1,779.80	107.37	17.577	
10,400.00	7,618.00	7,742.34	7,542.59	124.14	36.79	90.21	-228.84	4,267.34	1,812.83	1,707.72	105.11	17.246	
10,500.00	7,618.00	7,742.74	7,542.99	123.88	36.79	90.23	-228.84	4,267.35	1,741.07	1,638.39	102.68	16.957	
10,600.00	7,618.00	7,743.13	7,543.39	123.63	36.79	90.25	-228.84	4,267.35	1,672.20	1,572.15	100.05	16.713	
10,700.00	7,618.00	7,743.53	7,543.78	123.40	36.79	90.27	-228.84	4,267.35	1,606.61	1,509.36	97.25	16.520	
10,800.00	7,618.00	7,743.92	7,544.18	123.18	36.79	90.29	-228.84	4,267.36	1,544.72	1,450.42	94.30	16.381	
10,900.00	7,618.00	7,744.31	7,544.57	122.96	36.79	90.30	-228.85	4,267.36	1,486.97	1,395.73	91.24	16.297	
11,000.00	7,618.00	7,744.70	7,544.95	122.76	36.80	90.32	-228.85	4,267.36	1,433.89	1,345.73	88.16	16.265	
11,100.00	7,618.00	7,745.08	7,545.34	122.57	36.80	90.34	-228.85	4,267.37	1,385.99	1,300.82	85.17	16.273	
11,200.00	7,618.00	7,745.46	7,545.72	122.39	36.80	90.36	-228.85	4,267.37	1,343.85	1,261.38	82.47	16.296	
11,300.00	7,618.00	7,745.84	7,546.10	122.23	36.80	90.37	-228.85	4,267.37	1,308.00	1,227.73	80.28	16.294	
11,400.00	7,618.00	7,746.22	7,546.47	122.07	36.80	90.39	-228.85	4,267.37	1,278.99	1,200.10	78.89	16.213	
11,500.00	7,618.00	7,746.59	7,546.84	121.93	36.80	90.41	-228.85	4,267.38	1,257.28	1,178.71	78.57	16.002	
11,600.00	7,618.00	7,746.96	7,547.22	121.79	36.80	90.43	-228.86	4,267.38	1,243.26	1,163.73	79.53	15.633	
11,700.00	7,618.00	7,747.33	7,547.58	121.67	36.80	90.44	-228.86	4,267.38	1,237.19	1,155.41	81.78	15.128	
11,725.29	7,618.00	7,747.42	7,547.68	121.64	36.80	90.45	-228.86	4,267.38	1,236.93	1,154.39	82.55	14.985	CC
11,800.00	7,618.00	7,747.69	7,547.95	121.56	36.80	90.46	-228.86	4,267.39	1,239.19	1,154.02	85.17	14.550	ES
11,900.00	7,618.00	7,748.06	7,548.31	121.46	36.80	90.48	-228.86	4,267.39	1,249.21	1,159.82	89.39	13.974	
12,000.00	7,618.00	7,748.42	7,548.67	121.38	36.80	90.49	-228.86	4,267.39	1,267.07	1,172.95	94.12	13.463	
12,100.00	7,618.00	7,748.78	7,549.03	121.30	36.81	90.51	-228.86	4,267.39	1,292.44	1,193.41	99.03	13.051	
12,200.00	7,618.00	7,749.13	7,549.39	121.24	36.81	90.53	-228.86	4,267.40	1,324.90	1,221.01	103.89	12.753	
12,300.00	7,618.00	7,749.49	7,549.74	121.19	36.81	90.54	-228.86	4,267.40	1,363.93	1,255.41	108.51	12.569	
12,400.00	7,618.00	7,749.84	7,550.09	121.16	36.81	90.56	-228.87	4,267.40	1,408.98	1,296.18	112.80	12.491	SF
12,500.00	7,618.00	7,750.19	7,550.44	121.14	36.81	90.58	-228.87	4,267.41	1,459.51	1,342.81	116.70	12.507	
12,600.00	7,618.00	7,750.53	7,550.79	121.13	36.81	90.59	-228.87	4,267.41	1,514.96	1,394.78	120.19	12.605	
12,700.00	7,618.00	7,750.88	7,551.13	121.13	36.81	90.61	-228.87	4,267.41	1,574.82	1,451.54	123.28	12.775	
12,800.00	7,618.00	7,751.22	7,551.48	121.15	36.81	90.62	-228.87	4,267.41	1,638.60	1,512.61	125.99	13.006	
12,900.00	7,618.00	7,751.56	7,551.82	121.18	36.81	90.64	-228.87	4,267.42	1,705.85	1,577.50	128.36	13.290	
13,000.00	7,618.00	7,751.90	7,552.15	121.23	36.81	90.66	-228.87	4,267.42	1,776.20	1,645.78	130.42	13.619	
13,100.00	7,618.00	7,752.23	7,552.49	121.29	36.81	90.67	-228.87	4,267.42	1,849.27	1,717.06	132.21	13.987	
13,200.00	7,618.00	7,752.57	7,552.82	121.37	36.81	90.69	-228.88	4,267.42	1,924.77	1,791.01	133.76	14.389	
13,300.00	7,618.00	7,752.90	7,553.16	121.46	36.82	90.70	-228.88	4,267.43	2,002.42	1,867.31	135.11	14.821	
13,400.00	7,618.00	7,753.23	7,553.48	121.57	36.82	90.72	-228.88	4,267.43	2,081.98	1,945.70	136.28	15.277	
13,500.00	7,618.00	7,753.56	7,553.81	121.70	36.82	90.73	-228.88	4,267.43	2,163.23	2,025.94	137.29	15.757	
13,600.00	7,618.00	7,753.88	7,554.14	121.84	36.82	90.75	-228.88	4,267.43	2,246.00	2,107.83	138.17	16.255	
13,700.00	7,618.00	7,754.20	7,554.46	122.01	36.82	90.76	-228.88	4,267.44	2,330.12	2,191.18	138.94	16.771	
13,800.00	7,618.00	7,754.53	7,554.78	122.19	36.82	90.78	-228.88	4,267.44	2,415.45	2,275.85	139.60	17.302	
13,900.00	7,618.00	7,754.84	7,555.10	122.39	36.82	90.79	-228.88	4,267.44	2,501.86	2,361.68	140.18	17.847	
14,000.00	7,618.00	7,755.16	7,555.42	122.62	36.82	90.81	-228.88	4,267.45	2,589.26	2,448.57	140.69	18.404	
14,100.00	7,618.00	7,755.48	7,555.73	122.86	36.82	90.82	-228.89	4,267.45	2,677.54	2,536.40	141.13	18.972	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,200.00	7,618.00	7,755.79	7,556.04	123.12	36.82	90.84	-228.89	4,267.45	2,766.61	2,625.09	141.52	19.549	
14,300.00	7,618.00	7,756.10	7,556.36	123.41	36.82	90.85	-228.89	4,267.45	2,856.41	2,714.55	141.86	20.135	
14,400.00	7,618.00	7,756.41	7,556.67	123.72	36.82	90.86	-228.89	4,267.45	2,946.86	2,804.71	142.16	20.729	
14,500.00	7,618.00	7,756.72	7,556.97	124.06	36.82	90.88	-228.89	4,267.46	3,037.92	2,895.50	142.42	21.331	
14,600.00	7,618.00	7,757.02	7,557.28	124.42	36.83	90.89	-228.89	4,267.46	3,129.52	2,986.87	142.65	21.938	
14,700.00	7,618.00	7,757.33	7,557.58	124.80	36.83	90.91	-228.89	4,267.46	3,221.62	3,078.76	142.86	22.552	
14,800.00	7,618.00	7,757.63	7,557.88	125.21	36.83	90.92	-228.89	4,267.46	3,314.17	3,171.14	143.03	23.170	
14,900.00	7,618.00	7,757.93	7,558.18	125.65	36.83	90.93	-228.89	4,267.47	3,407.15	3,263.96	143.19	23.794	
15,000.00	7,618.00	7,758.22	7,558.48	126.11	36.83	90.95	-228.89	4,267.47	3,500.52	3,357.19	143.33	24.422	
15,100.00	7,618.00	7,758.52	7,558.78	126.61	36.83	90.96	-228.90	4,267.47	3,594.24	3,450.78	143.46	25.055	
15,200.00	7,618.00	7,758.81	7,559.07	127.13	36.83	90.98	-228.90	4,267.47	3,688.29	3,544.73	143.57	25.691	
15,300.00	7,618.00	7,759.11	7,559.36	127.68	36.83	90.99	-228.90	4,267.48	3,782.65	3,638.99	143.66	26.330	
15,400.00	7,618.00	7,759.40	7,559.65	128.26	36.83	91.00	-228.90	4,267.48	3,877.29	3,733.54	143.75	26.973	
15,500.00	7,618.00	7,759.69	7,559.94	128.87	36.83	91.02	-228.90	4,267.48	3,972.19	3,828.37	143.82	27.619	
15,600.00	7,618.00	7,759.97	7,560.23	129.51	36.83	91.03	-228.90	4,267.48	4,067.34	3,923.45	143.89	28.267	
15,700.00	7,618.00	7,760.26	7,560.52	130.18	36.83	91.04	-228.90	4,267.49	4,162.71	4,018.76	143.95	28.918	
15,800.00	7,618.00	7,760.54	7,560.80	130.88	36.83	91.06	-228.90	4,267.49	4,258.30	4,114.30	144.00	29.571	
15,900.00	7,618.00	7,760.83	7,561.08	131.61	36.83	91.07	-228.90	4,267.49	4,354.08	4,210.04	144.05	30.227	
16,000.00	7,618.00	7,761.11	7,561.36	132.37	36.84	91.08	-228.90	4,267.49	4,450.05	4,305.97	144.09	30.884	
16,100.00	7,618.00	7,761.39	7,561.64	133.17	36.84	91.10	-228.90	4,267.50	4,546.20	4,402.07	144.12	31.544	
16,200.00	7,618.00	7,761.66	7,561.92	133.99	36.84	91.11	-228.91	4,267.50	4,642.50	4,498.35	144.16	32.205	
16,300.00	7,618.00	7,761.94	7,562.19	134.84	36.84	91.12	-228.91	4,267.50	4,738.96	4,594.78	144.18	32.868	
16,400.00	7,618.00	7,762.21	7,562.47	135.72	36.84	91.13	-228.91	4,267.50	4,835.57	4,691.36	144.21	33.532	
16,500.00	7,618.00	7,762.48	7,562.74	136.63	36.84	91.15	-228.91	4,267.50	4,932.31	4,788.08	144.23	34.198	
16,600.00	7,618.00	7,762.76	7,563.01	137.57	36.84	91.16	-228.91	4,267.51	5,029.17	4,884.92	144.25	34.865	
16,700.00	7,618.00	7,763.02	7,563.28	138.54	36.84	91.17	-228.91	4,267.51	5,126.16	4,981.89	144.27	35.533	
16,800.00	7,618.00	7,763.29	7,563.55	139.53	36.84	91.18	-228.91	4,267.51	5,223.26	5,078.98	144.28	36.202	
16,900.00	7,618.00	7,763.56	7,563.81	140.55	36.84	91.20	-228.91	4,267.51	5,320.47	5,176.17	144.29	36.873	
17,000.00	7,618.00	7,763.82	7,564.08	141.60	36.84	91.21	-228.91	4,267.51	5,417.78	5,273.47	144.30	37.544	
17,100.00	7,618.00	7,764.09	7,564.34	142.67	36.84	91.22	-228.91	4,267.52	5,515.18	5,370.87	144.32	38.216	
17,200.00	7,618.00	7,764.35	7,564.60	143.77	36.84	91.23	-228.91	4,267.52	5,612.68	5,468.35	144.32	38.889	
17,300.00	7,618.00	7,764.61	7,564.86	144.88	36.84	91.24	-228.91	4,267.52	5,710.26	5,565.93	144.33	39.563	
17,400.00	7,618.00	7,764.87	7,565.12	146.02	36.84	91.26	-228.92	4,267.52	5,807.93	5,663.59	144.34	40.238	
17,500.00	7,618.00	7,765.12	7,565.38	147.19	36.85	91.27	-228.92	4,267.53	5,905.67	5,761.33	144.34	40.914	
17,600.00	7,618.00	7,765.38	7,565.63	148.37	36.85	91.28	-228.92	4,267.53	6,003.49	5,859.14	144.35	41.590	
17,700.00	7,618.00	7,765.63	7,565.89	149.57	36.85	91.29	-228.92	4,267.53	6,101.38	5,957.02	144.35	42.267	
17,800.00	7,618.00	7,765.89	7,566.14	150.79	36.85	91.30	-228.92	4,267.53	6,199.33	6,054.98	144.36	42.944	
17,900.00	7,618.00	7,766.14	7,566.39	152.03	36.85	91.32	-228.92	4,267.53	6,297.35	6,152.99	144.36	43.622	
18,000.00	7,618.00	7,766.39	7,566.64	153.29	36.85	91.33	-228.92	4,267.54	6,395.44	6,251.07	144.37	44.300	
18,100.00	7,618.00	7,766.64	7,566.89	154.57	36.85	91.34	-228.92	4,267.54	6,493.58	6,349.21	144.37	44.979	
18,200.00	7,618.00	7,766.88	7,567.14	155.86	36.85	91.35	-228.92	4,267.54	6,591.77	6,447.40	144.37	45.658	
18,300.00	7,618.00	7,767.15	7,567.40	157.17	36.85	91.36	-228.92	4,267.54	6,690.02	6,545.65	144.38	46.338	
18,400.00	7,618.00	7,767.42	7,567.68	158.49	36.85	91.37	-228.92	4,267.54	6,788.32	6,643.94	144.38	47.018	
18,500.00	7,618.00	7,767.70	7,567.95	159.82	36.85	91.39	-228.92	4,267.55	6,886.67	6,742.29	144.38	47.698	
18,600.00	7,618.00	7,767.97	7,568.23	161.17	36.85	91.40	-228.92	4,267.55	6,985.07	6,840.69	144.38	48.378	
18,700.00	7,618.00	7,768.25	7,568.50	162.54	36.85	91.41	-228.93	4,267.55	7,083.51	6,939.12	144.39	49.059	
18,800.00	7,618.00	7,768.52	7,568.77	163.91	36.85	91.43	-228.93	4,267.55	7,181.99	7,037.61	144.39	49.740	
18,900.00	7,618.00	7,768.79	7,569.05	165.30	36.85	91.44	-228.93	4,267.56	7,280.52	7,136.13	144.39	50.422	
19,000.00	7,618.00	7,769.06	7,569.32	166.70	36.85	91.45	-228.93	4,267.56	7,379.09	7,234.69	144.40	51.103	
19,100.00	7,618.00	7,769.34	7,569.59	168.10	36.86	91.46	-228.93	4,267.56	7,477.69	7,333.29	144.40	51.785	
19,200.00	7,618.00	7,769.61	7,569.86	169.52	36.86	91.48	-228.93	4,267.56	7,576.33	7,431.93	144.40	52.467	
19,300.00	7,618.00	7,769.88	7,570.13	170.95	36.86	91.49	-228.93	4,267.56	7,675.00	7,530.60	144.41	53.149	

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

Survey Program: 109-MWD OWSG

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
19,400.00	7,618.00	7,770.15	7,570.40	172.39	36.86	91.50	-228.93	4,267.57	7,773.71	7,629.30	144.41	53.831	
19,500.00	7,618.00	7,770.42	7,570.68	173.84	36.86	91.51	-228.93	4,267.57	7,872.45	7,728.04	144.41	54.513	
19,600.00	7,618.00	7,770.69	7,570.94	175.30	36.86	91.53	-228.93	4,267.57	7,971.23	7,826.81	144.42	55.196	
19,700.00	7,618.00	7,770.96	7,571.21	176.76	36.86	91.54	-228.93	4,267.57	8,070.03	7,925.61	144.42	55.878	
19,800.00	7,618.00	7,771.23	7,571.48	178.24	36.86	91.55	-228.93	4,267.58	8,168.86	8,024.44	144.43	56.560	
19,896.19	7,618.00	7,771.49	7,571.74	179.66	36.86	91.56	-228.93	4,267.58	8,263.95	8,119.52	144.43	57.217	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	134.93	-2,069.07	2,074.15	2,930.05				
100.00	100.00	72.57	72.57	0.13	0.12	134.93	-2,068.96	2,073.96	2,929.54	2,929.29	0.25	N/A	
200.00	200.00	185.27	185.26	0.49	0.42	134.94	-2,068.40	2,073.04	2,928.60	2,927.68	0.92	3,191.540	
300.00	299.98	300.44	300.42	0.85	0.84	65.69	-2,067.41	2,072.02	2,926.65	2,924.96	1.69	1,736.365	
400.00	399.84	395.49	395.46	1.21	1.18	65.85	-2,066.42	2,071.02	2,923.02	2,920.63	2.38	1,225.752	
500.00	499.45	486.09	486.05	1.58	1.50	66.07	-2,065.30	2,070.56	2,918.22	2,915.14	3.08	948.775	
600.00	598.70	643.59	643.50	1.97	2.06	66.52	-2,061.97	2,068.94	2,910.97	2,906.95	4.03	723.166	
700.00	697.47	762.91	762.75	2.38	2.49	67.02	-2,058.41	2,066.65	2,901.23	2,896.37	4.86	597.107	
800.00	795.62	852.16	851.94	2.83	2.82	67.52	-2,055.32	2,065.15	2,890.05	2,884.44	5.61	515.152	
900.00	893.06	1,705.15	1,691.36	3.31	6.33	71.53	-1,952.11	1,982.17	2,874.00	2,864.98	9.02	318.707	
1,000.00	989.64	1,928.61	1,903.74	3.83	7.57	73.59	-1,900.16	1,936.15	2,835.21	2,824.95	10.26	276.307	
1,100.00	1,085.27	2,086.37	2,051.44	4.40	8.54	75.56	-1,858.20	1,899.95	2,791.14	2,779.81	11.32	246.501	
1,200.00	1,179.82	2,181.08	2,139.55	5.02	9.15	77.29	-1,832.17	1,876.98	2,745.20	2,732.97	12.23	224.473	
1,300.00	1,273.17	2,237.69	2,192.34	5.70	9.52	78.80	-1,816.91	1,863.34	2,699.40	2,686.33	13.07	206.470	
1,400.00	1,365.21	2,306.51	2,256.69	6.43	9.97	80.50	-1,798.86	1,846.92	2,654.09	2,640.07	14.02	189.344	
1,500.00	1,455.84	2,380.20	2,325.66	7.23	10.46	82.33	-1,780.04	1,829.08	2,609.08	2,594.04	15.04	173.478	
1,600.00	1,544.94	2,455.74	2,396.40	8.09	10.96	84.25	-1,760.35	1,811.37	2,564.46	2,548.33	16.14	158.920	
1,700.00	1,632.39	2,529.18	2,465.22	9.01	11.45	86.20	-1,740.89	1,794.66	2,520.43	2,503.13	17.30	145.680	
1,800.00	1,718.11	2,622.12	2,552.20	10.00	12.07	88.52	-1,716.14	1,773.22	2,476.93	2,458.34	18.59	133.233	
1,900.00	1,801.97	2,691.35	2,616.89	11.07	12.55	90.56	-1,697.76	1,756.78	2,434.23	2,414.33	19.91	122.287	
2,000.00	1,883.88	2,755.98	2,677.32	12.20	12.99	92.55	-1,680.62	1,741.57	2,393.02	2,371.72	21.30	112.367	
2,100.00	1,963.74	2,820.35	2,737.58	13.41	13.43	94.55	-1,663.36	1,726.93	2,353.64	2,330.86	22.77	103.344	
2,200.00	2,041.45	2,909.41	2,820.76	14.69	14.04	97.05	-1,639.40	1,706.02	2,315.94	2,291.55	24.39	94.956	
2,300.00	2,116.92	3,015.47	2,919.23	16.05	14.80	99.95	-1,609.88	1,679.91	2,279.72	2,253.60	26.12	87.292	
2,357.48	2,159.25	3,044.81	2,946.40	16.86	15.01	100.98	-1,601.54	1,672.60	2,259.90	2,232.80	27.10	83.398	
2,400.00	2,190.27	3,069.89	2,969.60	17.47	15.20	101.51	-1,594.41	1,666.33	2,245.80	2,217.96	27.84	80.660	
2,500.00	2,263.22	3,120.02	3,016.00	18.92	15.56	102.58	-1,580.24	1,653.70	2,214.48	2,184.87	29.61	74.783	
2,600.00	2,336.18	3,162.32	3,055.25	20.37	15.87	103.50	-1,568.56	1,643.06	2,186.11	2,154.71	31.40	69.613	
2,700.00	2,409.14	3,213.06	3,102.43	21.84	16.23	104.60	-1,554.89	1,630.36	2,160.83	2,127.60	33.23	65.028	
2,800.00	2,482.09	3,284.02	3,168.39	23.31	16.74	106.15	-1,535.47	1,612.86	2,138.18	2,103.09	35.09	60.935	
2,900.00	2,555.05	3,343.81	3,223.93	24.78	17.18	107.47	-1,518.89	1,598.14	2,118.19	2,081.24	36.94	57.334	
3,000.00	2,628.01	3,406.97	3,282.53	26.27	17.64	108.87	-1,501.43	1,582.32	2,101.10	2,062.29	38.80	54.146	
3,100.00	2,700.96	3,477.89	3,348.17	27.75	18.16	110.46	-1,481.58	1,564.29	2,086.76	2,046.10	40.66	51.319	
3,200.00	2,773.92	3,562.28	3,425.99	29.24	18.80	112.36	-1,457.26	1,542.49	2,074.97	2,032.46	42.52	48.805	
3,300.00	2,846.88	3,613.59	3,473.21	30.73	19.19	113.52	-1,442.18	1,529.24	2,066.02	2,021.70	44.32	46.615	
3,400.00	2,919.83	3,662.11	3,518.02	32.23	19.55	114.62	-1,428.09	1,517.08	2,060.53	2,014.44	46.09	44.705	
3,500.00	2,992.79	3,703.44	3,556.32	33.72	19.85	115.55	-1,416.31	1,506.95	2,058.60	2,010.79	47.81	43.057	
3,502.37	2,994.52	3,704.42	3,557.23	33.76	19.86	115.57	-1,416.04	1,506.72	2,058.60	2,010.75	47.85	43.021	CC, ES
3,600.00	3,065.75	3,744.68	3,594.67	35.22	20.15	116.48	-1,404.89	1,497.00	2,060.36	2,010.88	49.48	41.641	
3,700.00	3,138.71	3,805.50	3,651.40	36.72	20.59	117.84	-1,388.36	1,482.56	2,065.59	2,014.48	51.10	40.422	
3,800.00	3,211.66	3,873.76	3,715.00	38.22	21.09	119.36	-1,369.49	1,466.49	2,073.63	2,020.96	52.67	39.370	
3,900.00	3,284.62	3,931.84	3,768.94	39.72	21.51	120.65	-1,353.34	1,452.24	2,084.68	2,030.51	54.17	38.485	
4,000.00	3,357.58	3,996.53	3,828.86	41.22	21.99	122.10	-1,335.28	1,435.86	2,098.78	2,043.17	55.61	37.744	
4,100.00	3,430.53	4,062.13	3,889.67	42.73	22.48	123.56	-1,316.75	1,419.70	2,115.64	2,058.67	56.97	37.135	
4,200.00	3,503.49	4,121.48	3,944.80	44.23	22.91	124.86	-1,299.97	1,405.50	2,135.37	2,077.11	58.25	36.656	
4,300.00	3,576.45	4,173.93	3,993.61	45.74	23.30	125.99	-1,285.23	1,393.17	2,157.98	2,098.52	59.45	36.296	
4,400.00	3,649.40	4,223.46	4,039.73	47.25	23.66	127.06	-1,271.52	1,381.44	2,183.57	2,123.00	60.57	36.048	
4,500.00	3,722.36	4,297.68	4,108.82	48.75	24.20	128.64	-1,250.93	1,363.80	2,211.79	2,150.13	61.65	35.874	
4,600.00	3,795.32	4,361.40	4,168.03	50.26	24.67	129.99	-1,232.86	1,348.68	2,242.15	2,179.49	62.65	35.786	SF
4,700.00	3,868.27	4,415.69	4,218.40	51.77	25.07	131.13	-1,217.45	1,335.55	2,275.03	2,211.46	63.57	35.788	
4,800.00	3,941.23	4,470.15	4,268.93	53.28	25.47	132.26	-1,202.08	1,322.30	2,310.40	2,245.98	64.42	35.864	
4,900.00	4,014.19	4,523.52	4,318.56	54.79	25.86	133.35	-1,187.19	1,309.48	2,348.12	2,282.91	65.21	36.010	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,087.15	4,570.19	4,362.09	56.30	26.20	134.28	-1,174.48	1,298.47	2,388.20	2,322.28	65.92	36.230	
5,100.00	4,160.10	4,617.23	4,406.13	57.81	26.53	135.21	-1,162.04	1,287.58	2,430.59	2,364.01	66.57	36.510	
5,200.00	4,233.06	4,664.35	4,450.46	59.32	26.85	136.12	-1,150.04	1,277.01	2,475.15	2,407.98	67.17	36.849	
5,300.00	4,306.02	4,712.44	4,495.93	60.83	27.18	137.02	-1,138.33	1,266.66	2,521.74	2,454.01	67.73	37.234	
5,400.00	4,378.97	4,761.18	4,542.25	62.34	27.49	137.91	-1,126.98	1,256.58	2,570.22	2,501.98	68.24	37.665	
5,500.00	4,451.93	4,809.68	4,588.56	63.85	27.80	138.77	-1,116.24	1,246.95	2,620.46	2,551.74	68.71	38.135	
5,600.00	4,524.89	4,855.87	4,632.91	65.36	28.07	139.56	-1,106.67	1,238.29	2,672.40	2,603.25	69.14	38.650	
5,700.00	4,597.84	4,907.04	4,682.33	66.88	28.37	140.40	-1,096.91	1,229.32	2,725.92	2,656.35	69.57	39.182	
5,800.00	4,670.80	4,973.69	4,746.95	68.39	28.73	141.45	-1,084.84	1,218.39	2,780.61	2,710.57	70.03	39.704	
5,900.00	4,743.76	5,028.17	4,799.96	69.90	29.01	142.28	-1,075.46	1,210.00	2,836.35	2,765.92	70.43	40.275	
6,000.00	4,816.71	5,081.00	4,851.55	71.41	29.29	143.05	-1,067.05	1,202.31	2,893.30	2,822.50	70.80	40.865	
6,100.00	4,889.67	5,139.16	4,908.52	72.93	29.56	143.86	-1,058.46	1,194.33	2,951.30	2,880.12	71.18	41.462	
6,200.00	4,962.63	5,205.80	4,973.99	74.44	29.87	144.75	-1,049.40	1,185.89	3,010.16	2,938.57	71.59	42.047	
6,300.00	5,035.59	5,286.75	5,054.03	75.95	30.21	145.74	-1,040.25	1,178.06	3,069.49	2,997.40	72.09	42.580	
6,400.00	5,108.54	5,348.56	5,115.39	77.47	30.43	146.44	-1,034.45	1,173.39	3,129.34	3,056.88	72.47	43.184	
6,500.00	5,181.50	5,422.72	5,189.19	78.98	30.68	147.22	-1,028.65	1,169.00	3,189.68	3,116.77	72.92	43.745	
6,600.00	5,254.46	5,507.54	5,273.79	80.49	30.94	148.04	-1,023.37	1,165.71	3,250.25	3,176.83	73.43	44.266	
6,700.00	5,327.41	5,577.58	5,343.72	82.01	31.13	148.65	-1,020.03	1,164.40	3,310.89	3,237.02	73.87	44.823	
6,800.00	5,400.37	5,625.89	5,392.01	83.52	31.26	149.06	-1,018.49	1,163.87	3,372.24	3,298.05	74.19	45.455	
6,900.00	5,473.33	5,676.88	5,442.99	85.04	31.38	149.46	-1,017.57	1,163.50	3,434.36	3,359.84	74.52	46.085	
7,000.00	5,546.28	5,729.99	5,496.09	86.55	31.50	149.86	-1,017.10	1,163.14	3,497.14	3,422.27	74.87	46.711	
7,100.00	5,619.24	5,813.56	5,579.67	88.06	31.69	150.46	-1,016.84	1,162.80	3,560.30	3,484.91	75.39	47.223	
7,200.00	5,692.20	5,888.89	5,655.00	89.58	31.86	150.99	-1,016.49	1,162.73	3,623.40	3,547.53	75.88	47.754	
7,300.00	5,765.15	5,957.22	5,723.32	91.09	32.02	151.46	-1,015.88	1,162.32	3,686.76	3,610.45	76.31	48.311	
7,400.00	5,838.11	6,024.38	5,790.48	92.61	32.18	151.91	-1,015.27	1,161.77	3,750.40	3,673.65	76.75	48.867	
7,500.00	5,911.07	6,096.68	5,862.77	94.12	32.35	152.38	-1,014.62	1,161.11	3,814.28	3,737.06	77.21	49.399	
7,600.00	5,984.03	6,163.53	5,929.61	95.64	32.52	152.80	-1,013.99	1,160.43	3,878.36	3,800.71	77.65	49.948	
7,700.00	6,056.98	6,229.42	5,995.49	97.15	32.68	153.21	-1,013.47	1,159.68	3,942.75	3,864.67	78.08	50.497	
7,800.00	6,129.94	6,301.78	6,067.85	98.67	32.85	153.65	-1,012.94	1,158.82	4,007.33	3,928.78	78.55	51.015	
7,900.00	6,202.90	6,380.08	6,146.14	100.18	33.05	154.10	-1,012.32	1,157.92	4,072.02	3,992.95	79.07	51.501	
8,000.00	6,275.85	6,455.93	6,221.98	101.70	33.23	154.53	-1,011.68	1,157.14	4,136.75	4,057.18	79.57	51.990	
8,100.00	6,348.81	6,532.60	6,298.66	103.21	33.42	154.95	-1,011.16	1,156.53	4,201.56	4,121.48	80.08	52.467	
8,200.00	6,421.77	6,622.04	6,388.09	104.73	33.64	155.42	-1,010.74	1,156.19	4,266.37	4,185.69	80.68	52.881	
8,300.00	6,494.72	6,712.34	6,478.38	106.24	33.85	155.86	-1,010.37	1,156.60	4,330.80	4,249.51	81.29	53.278	
8,400.00	6,567.68	6,767.00	6,533.04	107.76	33.98	156.12	-1,010.12	1,156.72	4,395.49	4,313.82	81.67	53.821	
8,500.00	6,640.64	6,840.77	6,606.82	109.27	34.17	156.48	-1,009.68	1,156.54	4,460.47	4,378.29	82.18	54.279	
8,600.00	6,713.59	6,910.28	6,676.33	110.79	34.34	156.80	-1,009.06	1,156.29	4,525.49	4,442.83	82.66	54.749	
8,700.00	6,786.55	6,970.63	6,736.67	112.30	34.49	157.08	-1,008.67	1,156.02	4,590.78	4,507.70	83.08	55.255	
8,800.00	6,859.51	7,059.57	6,825.61	113.82	34.72	157.47	-1,008.17	1,155.70	4,656.14	4,572.43	83.70	55.627	
8,900.00	6,932.46	7,158.97	6,925.01	115.33	34.97	157.90	-1,007.45	1,155.79	4,721.25	4,636.86	84.39	55.944	
9,000.00	7,005.42	7,233.25	6,999.28	116.85	35.16	158.20	-1,006.81	1,156.05	4,786.24	4,701.32	84.92	56.361	
9,104.89	7,081.95	7,296.78	7,062.81	118.44	35.32	158.46	-1,006.17	1,156.14	4,854.56	4,769.18	85.38	56.857	
9,150.00	7,115.15	7,321.94	7,087.97	119.12	35.39	150.90	-1,005.90	1,156.08	4,883.21	4,797.65	85.56	57.071	
9,200.00	7,152.46	7,350.84	7,116.86	119.86	35.46	142.72	-1,005.59	1,155.95	4,912.98	4,827.21	85.76	57.284	
9,250.00	7,190.04	7,389.37	7,155.39	120.57	35.57	134.89	-1,005.09	1,155.68	4,940.41	4,854.38	86.03	57.429	
9,300.00	7,227.59	7,427.64	7,193.66	121.25	35.67	127.47	-1,004.46	1,155.32	4,965.31	4,879.03	86.28	57.550	
9,350.00	7,264.83	7,460.25	7,226.25	121.89	35.76	120.50	-1,003.83	1,154.95	4,987.54	4,901.06	86.48	57.673	
9,400.00	7,301.48	7,488.68	7,254.67	122.48	35.84	114.10	-1,003.25	1,154.54	5,007.03	4,920.39	86.64	57.792	
9,450.00	7,337.26	7,516.22	7,282.20	123.01	35.92	108.34	-1,002.66	1,154.09	5,023.69	4,936.92	86.77	57.893	
9,500.00	7,371.90	7,546.26	7,312.23	123.49	36.00	103.29	-1,002.00	1,153.53	5,037.44	4,950.53	86.91	57.963	
9,550.00	7,405.13	7,587.91	7,353.87	123.91	36.12	99.04	-1,001.19	1,152.86	5,048.14	4,961.04	87.10	57.957	
9,600.00	7,436.70	9,600.00	7,447.55	124.27	41.22	95.93	-1,000.31	1,152.93	5,055.48	4,962.96	92.52	54.645	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	7,745.54	7,511.48	124.57	36.52	93.23	-1,000.23	1,153.94	5,059.60	4,971.66	87.95	57.531	
9,700.00	7,493.91	7,759.99	7,525.92	124.81	36.56	90.69	-1,000.30	1,154.27	5,060.60	4,972.71	87.89	57.578	
9,750.00	7,519.11	7,773.16	7,539.09	125.00	36.59	88.71	-1,000.36	1,154.53	5,058.67	4,970.86	87.80	57.613	
9,800.00	7,541.79	7,784.96	7,550.89	125.12	36.62	87.26	-1,000.42	1,154.72	5,053.83	4,966.15	87.69	57.636	
9,850.00	7,561.77	7,795.33	7,561.25	125.20	36.64	86.31	-1,000.46	1,154.87	5,046.15	4,958.61	87.54	57.646	
9,900.00	7,578.90	7,819.00	7,584.92	125.23	36.69	86.00	-1,000.57	1,155.12	5,035.72	4,948.25	87.47	57.573	
9,950.00	7,593.04	7,819.00	7,584.92	125.22	36.69	85.91	-1,000.57	1,155.12	5,022.50	4,935.28	87.22	57.586	
10,000.00	7,604.09	7,819.00	7,584.92	125.17	36.69	86.30	-1,000.57	1,155.12	5,006.69	4,919.73	86.96	57.576	
10,050.00	7,611.97	7,819.00	7,584.92	125.08	36.69	87.15	-1,000.57	1,155.12	4,988.38	4,901.68	86.69	57.540	
10,100.00	7,616.61	7,819.00	7,584.92	124.97	36.69	88.49	-1,000.57	1,155.12	4,967.68	4,881.24	86.43	57.473	
10,145.95	7,618.00	7,819.00	7,584.92	124.84	36.69	90.16	-1,000.57	1,155.12	4,946.66	4,860.45	86.20	57.383	
10,200.00	7,618.00	7,819.00	7,584.92	124.69	36.69	90.16	-1,000.57	1,155.12	4,921.08	4,835.14	85.94	57.261	
10,300.00	7,618.00	7,819.00	7,584.92	124.41	36.69	90.16	-1,000.57	1,155.12	4,874.99	4,789.52	85.47	57.034	
10,400.00	7,618.00	7,819.00	7,584.92	124.14	36.69	90.16	-1,000.57	1,155.12	4,830.53	4,745.50	85.04	56.804	
10,500.00	7,618.00	7,819.00	7,584.92	123.88	36.69	90.16	-1,000.57	1,155.12	4,787.75	4,703.12	84.64	56.569	
10,600.00	7,618.00	7,819.00	7,584.92	123.63	36.69	90.16	-1,000.57	1,155.12	4,746.69	4,662.42	84.27	56.328	
10,700.00	7,618.00	7,819.00	7,584.92	123.40	36.69	90.16	-1,000.57	1,155.12	4,707.40	4,623.45	83.95	56.077	
10,800.00	7,618.00	7,819.00	7,584.92	123.18	36.69	90.16	-1,000.57	1,155.12	4,669.91	4,586.25	83.67	55.816	
10,900.00	7,618.00	7,819.00	7,584.92	122.96	36.69	90.16	-1,000.57	1,155.12	4,634.28	4,550.85	83.43	55.544	
11,000.00	7,618.00	7,819.00	7,584.92	122.76	36.69	90.16	-1,000.57	1,155.12	4,600.55	4,517.30	83.26	55.259	
11,100.00	7,618.00	7,819.00	7,584.92	122.57	36.69	90.16	-1,000.57	1,155.12	4,568.76	4,485.63	83.13	54.959	
11,200.00	7,618.00	7,819.00	7,584.92	122.39	36.69	90.16	-1,000.57	1,155.12	4,538.95	4,455.89	83.06	54.645	
11,300.00	7,618.00	7,819.00	7,584.92	122.23	36.69	90.16	-1,000.57	1,155.12	4,511.16	4,428.11	83.06	54.315	
11,400.00	7,618.00	7,819.00	7,584.92	122.07	36.69	90.16	-1,000.57	1,155.12	4,485.43	4,402.32	83.11	53.970	
11,500.00	7,618.00	7,819.00	7,584.92	121.93	36.69	90.16	-1,000.57	1,155.12	4,461.79	4,378.57	83.23	53.611	
11,600.00	7,618.00	7,819.00	7,584.92	121.79	36.69	90.16	-1,000.57	1,155.12	4,440.28	4,356.88	83.40	53.238	
11,700.00	7,618.00	7,819.00	7,584.92	121.67	36.69	90.16	-1,000.57	1,155.12	4,420.93	4,337.28	83.65	52.853	
11,800.00	7,618.00	7,819.00	7,584.92	121.56	36.69	90.16	-1,000.57	1,155.12	4,403.76	4,319.81	83.95	52.458	
11,900.00	7,618.00	7,819.00	7,584.92	121.46	36.69	90.16	-1,000.57	1,155.12	4,388.81	4,304.50	84.31	52.054	
12,000.00	7,618.00	7,819.00	7,584.92	121.38	36.69	90.16	-1,000.57	1,155.12	4,376.09	4,291.35	84.73	51.644	
12,100.00	7,618.00	7,819.00	7,584.92	121.30	36.69	90.16	-1,000.57	1,155.12	4,365.62	4,280.41	85.21	51.231	
12,200.00	7,618.00	7,819.00	7,584.92	121.24	36.69	90.16	-1,000.57	1,155.12	4,357.42	4,271.68	85.75	50.818	
12,300.00	7,618.00	7,819.00	7,584.92	121.19	36.69	90.16	-1,000.57	1,155.12	4,351.51	4,265.18	86.33	50.407	
12,400.00	7,618.00	7,819.00	7,584.92	121.16	36.69	90.16	-1,000.57	1,155.12	4,347.89	4,260.93	86.96	50.001	
12,500.00	7,618.00	7,819.00	7,584.92	121.14	36.69	90.16	-1,000.57	1,155.12	4,346.57	4,258.94	87.63	49.603	
12,507.48	7,618.00	7,819.00	7,584.92	121.13	36.69	90.16	-1,000.57	1,155.12	4,346.56	4,258.88	87.68	49.573	
12,600.00	7,618.00	7,832.12	7,598.04	121.13	36.73	90.33	-1,000.63	1,155.20	4,347.51	4,259.05	88.46	49.145	
12,700.00	7,618.00	7,832.43	7,598.35	121.13	36.73	90.33	-1,000.63	1,155.20	4,350.79	4,261.58	89.21	48.771	
12,800.00	7,618.00	7,832.75	7,598.67	121.15	36.73	90.34	-1,000.63	1,155.21	4,356.36	4,266.38	89.98	48.414	
12,900.00	7,618.00	7,833.06	7,598.98	121.18	36.73	90.34	-1,000.63	1,155.21	4,364.21	4,273.43	90.78	48.073	
13,000.00	7,618.00	7,833.38	7,599.30	121.23	36.73	90.35	-1,000.63	1,155.21	4,374.34	4,282.74	91.60	47.753	
13,100.00	7,618.00	7,833.70	7,599.62	121.29	36.73	90.35	-1,000.64	1,155.21	4,386.72	4,294.28	92.44	47.454	
13,200.00	7,618.00	7,834.02	7,599.94	121.37	36.73	90.36	-1,000.64	1,155.21	4,401.34	4,308.05	93.29	47.177	
13,300.00	7,618.00	7,834.35	7,600.27	121.46	36.73	90.36	-1,000.64	1,155.21	4,418.18	4,324.02	94.16	46.924	
13,400.00	7,618.00	7,834.68	7,600.60	121.57	36.73	90.36	-1,000.64	1,155.22	4,437.21	4,342.18	95.03	46.695	
13,500.00	7,618.00	7,835.01	7,600.93	121.70	36.73	90.37	-1,000.64	1,155.22	4,458.40	4,362.50	95.90	46.491	
13,600.00	7,618.00	7,835.34	7,601.26	121.84	36.73	90.37	-1,000.65	1,155.22	4,481.72	4,384.95	96.77	46.314	
13,700.00	7,618.00	7,835.68	7,601.60	122.01	36.73	90.38	-1,000.65	1,155.22	4,507.14	4,409.50	97.64	46.162	
13,800.00	7,618.00	7,836.02	7,601.94	122.19	36.74	90.38	-1,000.65	1,155.22	4,534.62	4,436.12	98.50	46.036	
13,900.00	7,618.00	7,836.36	7,602.28	122.39	36.74	90.39	-1,000.65	1,155.23	4,564.13	4,464.77	99.36	45.936	
14,000.00	7,618.00	7,836.70	7,602.62	122.62	36.74	90.39	-1,000.65	1,155.23	4,595.62	4,495.42	100.20	45.863	
14,100.00	7,618.00	7,837.05	7,602.97	122.86	36.74	90.40	-1,000.65	1,155.23	4,629.06	4,528.02	101.04	45.814	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,200.00	7,618.00	7,837.40	7,603.32	123.12	36.74	90.40	-1,000.66	1,155.23	4,664.41	4,562.55	101.86	45.792	
14,300.00	7,618.00	7,837.75	7,603.67	123.41	36.74	90.40	-1,000.66	1,155.23	4,701.62	4,598.95	102.67	45.793	
14,400.00	7,618.00	7,838.11	7,604.03	123.72	36.74	90.41	-1,000.66	1,155.23	4,740.64	4,637.18	103.46	45.820	
14,500.00	7,618.00	7,838.47	7,604.39	124.06	36.74	90.41	-1,000.66	1,155.24	4,781.44	4,677.20	104.24	45.870	
14,600.00	7,618.00	7,838.83	7,604.75	124.42	36.74	90.42	-1,000.66	1,155.24	4,823.97	4,718.97	105.00	45.943	
14,700.00	7,618.00	7,839.19	7,605.12	124.80	36.74	90.42	-1,000.67	1,155.24	4,868.18	4,762.44	105.74	46.040	
14,800.00	7,618.00	7,839.56	7,605.48	125.21	36.74	90.43	-1,000.67	1,155.24	4,914.02	4,807.56	106.46	46.158	
14,900.00	7,618.00	7,839.93	7,605.85	125.65	36.74	90.43	-1,000.67	1,155.24	4,961.46	4,854.30	107.17	46.297	
15,000.00	7,618.00	7,840.31	7,606.23	126.11	36.75	90.44	-1,000.67	1,155.24	5,010.45	4,902.60	107.85	46.457	
15,100.00	7,618.00	7,840.69	7,606.61	126.61	36.75	90.44	-1,000.67	1,155.25	5,060.94	4,952.42	108.52	46.637	
15,200.00	7,618.00	7,841.07	7,606.99	127.13	36.75	90.45	-1,000.68	1,155.25	5,112.88	5,003.72	109.16	46.837	
15,300.00	7,618.00	7,841.45	7,607.37	127.68	36.75	90.45	-1,000.68	1,155.25	5,166.24	5,056.45	109.79	47.055	
15,400.00	7,618.00	7,841.84	7,607.76	128.26	36.75	90.46	-1,000.68	1,155.25	5,220.97	5,110.57	110.40	47.292	
15,500.00	7,618.00	7,842.23	7,608.15	128.87	36.75	90.46	-1,000.68	1,155.25	5,277.03	5,166.04	110.99	47.545	
15,600.00	7,618.00	7,842.62	7,608.54	129.51	36.75	90.47	-1,000.69	1,155.25	5,334.37	5,222.81	111.56	47.816	
15,700.00	7,618.00	7,843.02	7,608.94	130.18	36.75	90.47	-1,000.69	1,155.26	5,392.96	5,280.84	112.11	48.103	
15,800.00	7,618.00	7,843.42	7,609.34	130.88	36.75	90.48	-1,000.69	1,155.26	5,452.75	5,340.10	112.65	48.405	
15,900.00	7,618.00	7,843.82	7,609.74	131.61	36.75	90.48	-1,000.69	1,155.26	5,513.70	5,400.54	113.17	48.722	
16,000.00	7,618.00	7,844.23	7,610.15	132.37	36.75	90.49	-1,000.69	1,155.26	5,575.79	5,462.12	113.67	49.054	
16,100.00	7,618.00	7,844.64	7,610.56	133.17	36.76	90.50	-1,000.70	1,155.26	5,638.96	5,524.81	114.15	49.400	
16,200.00	7,618.00	7,845.06	7,610.98	133.99	36.76	90.50	-1,000.70	1,155.26	5,703.19	5,588.57	114.62	49.759	
16,300.00	7,618.00	7,845.48	7,611.40	134.84	36.76	90.51	-1,000.70	1,155.26	5,768.44	5,653.37	115.07	50.131	
16,400.00	7,618.00	7,845.90	7,611.82	135.72	36.76	90.51	-1,000.70	1,155.27	5,834.67	5,719.16	115.50	50.515	
16,500.00	7,618.00	7,846.33	7,612.25	136.63	36.76	90.52	-1,000.71	1,155.27	5,901.85	5,785.92	115.92	50.912	
16,600.00	7,618.00	7,846.76	7,612.68	137.57	36.76	90.52	-1,000.71	1,155.27	5,969.95	5,853.62	116.33	51.319	
16,700.00	7,618.00	7,847.19	7,613.11	138.54	36.76	90.53	-1,000.71	1,155.27	6,038.94	5,922.22	116.72	51.738	
16,800.00	7,618.00	7,847.63	7,613.55	139.53	36.76	90.53	-1,000.72	1,155.27	6,108.78	5,991.68	117.10	52.167	
16,900.00	7,618.00	7,848.07	7,614.00	140.55	36.76	90.54	-1,000.72	1,155.27	6,179.46	6,061.99	117.47	52.607	
17,000.00	7,618.00	7,848.52	7,614.44	141.60	36.76	90.55	-1,000.72	1,155.27	6,250.93	6,133.12	117.82	53.056	
17,100.00	7,618.00	7,848.97	7,614.89	142.67	36.77	90.55	-1,000.72	1,155.28	6,323.18	6,205.03	118.16	53.515	
17,200.00	7,618.00	7,849.43	7,615.35	143.77	36.77	90.56	-1,000.73	1,155.28	6,396.18	6,277.69	118.49	53.983	
17,300.00	7,618.00	7,849.89	7,615.81	144.88	36.77	90.56	-1,000.73	1,155.28	6,469.90	6,351.10	118.80	54.459	
17,400.00	7,618.00	7,850.35	7,616.27	146.02	36.77	90.57	-1,000.73	1,155.28	6,544.32	6,425.21	119.11	54.944	
17,500.00	7,618.00	7,850.82	7,616.74	147.19	36.77	90.58	-1,000.73	1,155.28	6,619.41	6,500.00	119.40	55.437	
17,600.00	7,618.00	7,851.29	7,617.21	148.37	36.77	90.58	-1,000.74	1,155.28	6,695.15	6,575.46	119.69	55.937	
17,700.00	7,618.00	7,851.77	7,617.69	149.57	36.77	90.59	-1,000.74	1,155.28	6,771.52	6,651.55	119.97	56.446	
17,800.00	7,618.00	7,852.25	7,618.17	150.79	36.77	90.60	-1,000.74	1,155.29	6,848.50	6,728.27	120.23	56.961	
17,900.00	7,618.00	7,852.74	7,618.66	152.03	36.77	90.60	-1,000.75	1,155.29	6,926.07	6,805.58	120.49	57.483	
18,000.00	7,618.00	7,853.23	7,619.15	153.29	36.78	90.61	-1,000.75	1,155.29	7,004.21	6,883.47	120.74	58.012	
18,100.00	7,618.00	7,853.72	7,619.64	154.57	36.78	90.61	-1,000.75	1,155.29	7,082.89	6,961.92	120.98	58.547	
18,200.00	7,618.00	7,854.22	7,620.15	155.86	36.78	90.62	-1,000.76	1,155.29	7,162.11	7,040.90	121.21	59.089	
18,300.00	7,618.00	7,854.73	7,620.65	157.17	36.78	90.63	-1,000.76	1,155.29	7,241.84	7,120.41	121.43	59.636	
18,400.00	7,618.00	7,855.24	7,621.16	158.49	36.78	90.63	-1,000.76	1,155.29	7,322.07	7,200.42	121.65	60.190	
18,500.00	7,618.00	7,855.76	7,621.68	159.82	36.78	90.64	-1,000.77	1,155.29	7,402.79	7,280.93	121.86	60.748	
18,600.00	7,618.00	7,856.28	7,622.20	161.17	36.78	90.65	-1,000.77	1,155.30	7,483.96	7,361.90	122.06	61.312	
18,700.00	7,618.00	7,856.81	7,622.73	162.54	36.78	90.66	-1,000.77	1,155.30	7,565.59	7,443.33	122.26	61.881	
18,800.00	7,618.00	7,857.34	7,623.26	163.91	36.79	90.66	-1,000.78	1,155.30	7,647.65	7,525.20	122.45	62.455	
18,900.00	7,618.00	7,857.87	7,623.79	165.30	36.79	90.67	-1,000.78	1,155.30	7,730.14	7,607.51	122.63	63.034	
19,000.00	7,618.00	7,858.42	7,624.34	166.70	36.79	90.68	-1,000.78	1,155.30	7,813.04	7,690.22	122.81	63.618	
19,100.00	7,618.00	7,858.96	7,624.88	168.10	36.79	90.68	-1,000.79	1,155.30	7,896.33	7,773.34	122.99	64.205	
19,200.00	7,618.00	7,859.52	7,625.44	169.52	36.79	90.69	-1,000.79	1,155.30	7,980.00	7,856.85	123.15	64.797	
19,300.00	7,618.00	7,860.08	7,626.00	170.95	36.79	90.70	-1,000.80	1,155.30	8,064.05	7,940.74	123.32	65.393	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,400.00	7,618.00	7,860.64	7,626.56	172.39	36.79	90.71	-1,000.80	1,155.30	8,148.46	8,024.99	123.47	65.994	
19,500.00	7,618.00	7,861.22	7,627.14	173.84	36.80	90.71	-1,000.80	1,155.30	8,233.22	8,109.59	123.63	66.597	
19,600.00	7,618.00	7,861.79	7,627.71	175.30	36.80	90.72	-1,000.81	1,155.30	8,318.31	8,194.54	123.78	67.205	
19,700.00	7,618.00	7,862.38	7,628.30	176.76	36.80	90.73	-1,000.81	1,155.30	8,403.73	8,279.81	123.92	67.816	
19,800.00	7,618.00	7,862.97	7,628.89	178.24	36.80	90.74	-1,000.82	1,155.31	8,489.48	8,365.42	124.06	68.431	
19,896.19	7,618.00	7,863.54	7,629.46	179.66	36.80	90.74	-1,000.82	1,155.31	8,572.24	8,448.05	124.19	69.025	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	135.10	-2,072.72	2,065.75	2,926.69				
100.00	100.00	63.81	63.81	0.13	0.10	135.10	-2,072.60	2,065.73	2,926.26	2,926.02	0.24	N/A	
200.00	200.00	167.47	167.47	0.49	0.36	135.09	-2,072.02	2,065.64	2,925.79	2,924.94	0.86	3,414.981	
300.00	299.98	266.51	266.50	0.85	0.72	65.82	-2,071.62	2,065.54	2,924.72	2,923.16	1.57	1,867.381	
400.00	399.84	373.46	373.46	1.21	1.10	65.96	-2,071.12	2,065.28	2,922.08	2,919.77	2.31	1,266.674	
500.00	499.45	500.00	555.12	1.58	1.55	66.39	-2,069.69	2,061.21	2,916.33	2,913.20	3.13	931.700	
600.00	598.70	724.37	723.79	1.97	2.37	67.11	-2,069.35	2,048.62	2,905.62	2,901.30	4.32	672.426	
700.00	697.47	809.30	808.26	2.38	2.68	67.72	-2,071.10	2,039.97	2,893.90	2,888.86	5.04	574.352	
800.00	795.62	884.67	883.10	2.83	2.97	68.37	-2,073.89	2,031.48	2,881.52	2,875.77	5.75	500.759	
900.00	893.06	950.00	947.84	3.31	3.23	69.04	-2,077.67	2,023.63	2,869.09	2,862.62	6.47	443.345	
1,000.00	989.64	1,008.67	1,005.85	3.83	3.46	69.73	-2,082.29	2,016.17	2,856.84	2,849.63	7.21	396.179	
1,100.00	1,085.27	1,044.00	1,040.70	4.40	3.61	70.25	-2,085.69	2,011.45	2,845.10	2,837.20	7.90	360.027	
1,200.00	1,179.82	1,105.64	1,101.38	5.02	3.86	71.04	-2,092.74	2,003.28	2,833.99	2,825.23	8.76	323.540	
1,300.00	1,273.17	1,139.00	1,134.18	5.70	4.00	71.57	-2,097.16	1,999.01	2,824.05	2,814.50	9.55	295.685	
1,400.00	1,365.21	1,189.18	1,183.43	6.43	4.21	72.29	-2,104.55	1,992.88	2,815.22	2,804.74	10.48	268.697	
1,500.00	1,455.84	1,233.00	1,226.36	7.23	4.40	72.95	-2,111.73	1,987.85	2,807.70	2,796.26	11.44	245.481	
1,600.00	1,544.94	1,262.00	1,254.72	8.09	4.53	73.42	-2,116.90	1,984.70	2,801.62	2,789.23	12.39	226.050	
1,700.00	1,632.39	1,309.16	1,300.75	9.01	4.73	74.12	-2,125.89	1,979.80	2,796.99	2,783.48	13.50	207.126	
1,800.00	1,718.11	1,338.00	1,328.86	10.00	4.86	74.57	-2,131.67	1,976.90	2,793.83	2,779.24	14.59	191.472	
1,900.00	1,801.97	1,386.93	1,376.43	11.07	5.08	75.29	-2,142.09	1,972.12	2,792.20	2,776.35	15.85	176.134	
1,937.99	1,833.32	1,400.24	1,389.33	11.50	5.14	75.48	-2,145.08	1,970.85	2,792.07	2,775.74	16.33	170.982	CC
2,000.00	1,883.88	1,433.00	1,421.04	12.20	5.29	75.97	-2,152.73	1,967.77	2,792.47	2,775.30	17.17	162.653	ES
2,100.00	1,963.74	1,433.00	1,421.04	13.41	5.29	75.92	-2,152.73	1,967.77	2,794.71	2,776.41	18.30	152.702	
2,200.00	2,041.45	1,481.56	1,467.87	14.69	5.52	76.60	-2,164.83	1,963.48	2,798.75	2,778.98	19.77	141.585	
2,300.00	2,116.92	1,527.00	1,511.51	16.05	5.74	77.21	-2,176.96	1,959.88	2,805.18	2,783.89	21.28	131.804	
2,357.48	2,159.25	1,527.00	1,511.51	16.86	5.74	77.13	-2,176.96	1,959.88	2,809.66	2,787.63	22.03	127.561	
2,400.00	2,190.27	1,527.00	1,511.51	17.47	5.74	77.13	-2,176.96	1,959.88	2,813.63	2,791.05	22.58	124.609	
2,500.00	2,263.22	1,563.40	1,546.35	18.92	5.92	77.73	-2,187.20	1,957.33	2,824.98	2,800.88	24.10	117.228	
2,600.00	2,336.18	1,590.89	1,572.59	20.37	6.06	78.18	-2,195.21	1,955.65	2,839.26	2,813.71	25.55	111.130	
2,700.00	2,409.14	1,622.00	1,602.22	21.84	6.22	78.69	-2,204.56	1,954.00	2,856.42	2,829.41	27.01	105.773	
2,800.00	2,482.09	1,670.15	1,648.04	23.31	6.46	79.47	-2,219.21	1,951.85	2,876.16	2,847.61	28.55	100.740	
2,900.00	2,555.05	1,739.21	1,713.82	24.78	6.82	80.58	-2,240.07	1,949.39	2,898.06	2,867.84	30.22	95.905	
3,000.00	2,628.01	1,830.79	1,801.37	26.27	7.30	82.03	-2,266.75	1,946.13	2,921.25	2,889.23	32.02	91.235	
3,100.00	2,700.96	1,878.58	1,847.10	27.75	7.55	82.78	-2,280.56	1,944.70	2,946.42	2,912.92	33.50	87.945	
3,200.00	2,773.92	1,957.41	1,922.56	29.24	7.97	84.00	-2,303.29	1,943.03	2,973.62	2,938.44	35.17	84.539	
3,300.00	2,846.88	2,036.27	1,998.32	30.73	8.38	85.20	-2,325.16	1,941.85	3,001.95	2,965.13	36.82	81.523	
3,400.00	2,919.83	2,093.99	2,053.79	32.23	8.69	86.07	-2,341.12	1,941.19	3,032.05	2,993.75	38.30	79.161	
3,500.00	2,992.79	2,147.61	2,105.26	33.72	8.98	86.87	-2,356.11	1,940.31	3,063.98	3,024.25	39.73	77.121	
3,600.00	3,065.75	2,188.00	2,143.97	35.22	9.20	87.47	-2,367.57	1,939.19	3,097.78	3,056.75	41.03	75.498	
3,700.00	3,138.71	2,237.14	2,191.00	36.72	9.48	88.21	-2,381.77	1,937.81	3,133.52	3,091.15	42.37	73.959	
3,800.00	3,211.66	2,282.00	2,233.84	38.22	9.73	88.87	-2,395.03	1,936.95	3,171.25	3,127.61	43.64	72.661	
3,900.00	3,284.62	2,395.77	2,342.87	39.72	10.37	90.48	-2,427.48	1,937.05	3,209.80	3,164.38	45.42	70.674	
4,000.00	3,357.58	2,434.78	2,380.29	41.22	10.58	91.03	-2,438.54	1,937.28	3,249.74	3,203.14	46.60	69.738	
4,100.00	3,430.53	2,475.84	2,419.57	42.73	10.81	91.60	-2,450.49	1,937.23	3,291.50	3,243.73	47.77	68.907	
4,200.00	3,503.49	2,552.69	2,493.08	44.23	11.25	92.67	-2,472.90	1,936.87	3,334.60	3,285.41	49.19	67.784	
4,300.00	3,576.45	2,628.69	2,565.87	45.74	11.68	93.69	-2,494.77	1,937.13	3,378.70	3,328.11	50.59	66.782	
4,400.00	3,649.40	2,730.86	2,663.90	47.25	12.25	95.03	-2,523.49	1,938.51	3,423.57	3,371.38	52.19	65.604	
4,500.00	3,722.36	2,836.19	2,765.31	48.75	12.85	96.45	-2,551.66	1,935.11	3,468.75	3,414.98	53.77	64.513	
4,600.00	3,795.32	2,888.12	2,815.35	50.26	13.14	97.16	-2,565.18	1,931.90	3,514.82	3,459.92	54.91	64.014	
4,700.00	3,868.27	2,936.12	2,861.58	51.77	13.42	97.80	-2,577.91	1,929.66	3,562.30	3,506.30	55.99	63.619	
4,800.00	3,941.23	3,005.81	2,928.69	53.28	13.81	98.70	-2,596.56	1,927.61	3,610.93	3,553.70	57.23	63.090	
4,900.00	4,014.19	3,069.86	2,990.41	54.79	14.18	99.50	-2,613.65	1,926.51	3,660.46	3,602.05	58.42	62.663	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,087.15	3,126.08	3,044.57	56.30	14.50	100.21	-2,628.62	1,924.75	3,711.04	3,651.54	59.51	62.363	
5,100.00	4,160.10	3,164.94	3,081.97	57.81	14.72	100.69	-2,639.04	1,923.07	3,762.82	3,702.39	60.43	62.263	
5,200.00	4,233.06	3,202.17	3,117.74	59.32	14.94	101.16	-2,649.21	1,921.26	3,815.92	3,754.60	61.32	62.227	
5,300.00	4,306.02	3,257.86	3,171.16	60.83	15.26	101.85	-2,664.66	1,918.26	3,870.24	3,807.90	62.34	62.078	
5,400.00	4,378.97	3,337.14	3,247.30	62.34	15.73	102.82	-2,686.38	1,914.10	3,925.22	3,861.67	63.55	61.765	
5,500.00	4,451.93	3,404.71	3,312.24	63.85	16.12	103.63	-2,704.81	1,911.13	3,980.86	3,916.21	64.65	61.579	
5,600.00	4,524.89	3,448.53	3,354.33	65.36	16.38	104.14	-2,716.86	1,909.51	4,037.35	3,971.83	65.52	61.617	
5,700.00	4,597.84	3,489.22	3,393.37	66.88	16.62	104.61	-2,728.27	1,908.07	4,094.89	4,028.54	66.36	61.710	
5,800.00	4,670.80	3,557.93	3,459.21	68.39	17.03	105.38	-2,747.81	1,905.93	4,153.33	4,085.91	67.43	61.596	
5,900.00	4,743.76	3,638.05	3,536.05	69.90	17.50	106.25	-2,770.41	1,904.33	4,212.12	4,143.52	68.60	61.401	
6,000.00	4,816.71	3,708.35	3,603.49	71.41	17.91	107.00	-2,790.25	1,903.59	4,271.39	4,201.71	69.68	61.302	
6,100.00	4,889.67	3,746.84	3,640.39	72.93	18.14	107.40	-2,801.19	1,903.10	4,331.41	4,260.96	70.45	61.482	
6,200.00	4,962.63	3,790.00	3,681.73	74.44	18.40	107.85	-2,813.58	1,902.33	4,392.27	4,321.02	71.25	61.646	
6,300.00	5,035.59	3,820.23	3,710.65	75.95	18.58	108.16	-2,822.35	1,901.55	4,454.04	4,382.13	71.91	61.937	
6,400.00	5,108.54	3,850.07	3,739.14	77.47	18.76	108.47	-2,831.11	1,900.47	4,516.77	4,444.22	72.55	62.255	
6,500.00	5,181.50	5,109.17	4,976.52	78.98	24.41	120.10	-3,031.24	1,871.02	4,563.57	4,481.72	81.85	55.752	
6,600.00	5,254.46	5,195.39	5,062.69	80.49	24.67	120.82	-3,033.95	1,870.04	4,610.19	4,527.32	82.87	55.630	
6,700.00	5,327.41	5,253.26	5,120.54	82.01	24.85	121.29	-3,035.74	1,869.40	4,657.36	4,573.61	83.75	55.609	
6,800.00	5,400.37	6,800.00	5,231.34	83.52	29.44	122.18	-3,039.07	1,868.56	4,704.95	4,615.31	89.64	52.486	
6,900.00	5,473.33	5,483.38	5,350.57	85.04	25.52	123.12	-3,041.41	1,868.53	4,752.05	4,666.07	85.98	55.270	
7,000.00	5,546.28	5,560.49	5,427.67	86.55	25.74	123.71	-3,042.83	1,868.75	4,799.63	4,712.73	86.91	55.226	
7,100.00	5,619.24	5,637.44	5,504.61	88.06	25.97	124.30	-3,044.14	1,868.93	4,847.65	4,759.83	87.83	55.195	
7,200.00	5,692.20	5,718.00	5,585.16	89.58	26.20	124.90	-3,045.39	1,869.04	4,896.09	4,807.35	88.75	55.169	
7,300.00	5,765.15	5,810.59	5,677.74	91.09	26.46	125.58	-3,046.54	1,869.14	4,944.82	4,855.12	89.71	55.122	
7,400.00	5,838.11	5,912.39	5,779.54	92.61	26.74	126.32	-3,047.32	1,869.51	4,993.62	4,902.93	90.69	55.062	
7,500.00	5,911.07	6,009.39	5,876.54	94.12	27.00	127.01	-3,047.42	1,869.65	5,042.50	4,950.87	91.63	55.032	
7,600.00	5,984.03	6,086.36	5,953.50	95.64	27.20	127.56	-3,047.04	1,869.45	5,091.56	4,999.09	92.46	55.066	
7,700.00	6,056.98	6,143.36	6,010.50	97.15	27.34	127.96	-3,046.79	1,869.10	5,141.21	5,048.01	93.20	55.161	
7,800.00	6,129.94	6,201.52	6,068.66	98.67	27.50	128.37	-3,046.66	1,868.63	5,191.51	5,097.57	93.94	55.263	
7,900.00	6,202.90	6,268.73	6,135.87	100.18	27.68	128.83	-3,046.71	1,868.07	5,242.42	5,147.72	94.71	55.355	
8,000.00	6,275.85	6,380.25	6,247.39	101.70	27.97	129.58	-3,046.70	1,867.83	5,293.50	5,197.86	95.65	55.345	
8,100.00	6,348.81	6,473.79	6,340.92	103.21	28.21	130.20	-3,046.04	1,867.85	5,344.40	5,247.90	96.50	55.385	
8,200.00	6,421.77	6,534.97	6,402.10	104.73	28.36	130.60	-3,045.43	1,867.48	5,395.74	5,298.54	97.20	55.511	
8,300.00	6,494.72	6,584.97	6,452.09	106.24	28.49	130.93	-3,044.89	1,866.78	5,447.69	5,349.84	97.85	55.676	
8,400.00	6,567.68	6,629.00	6,496.11	107.76	28.61	131.23	-3,044.40	1,865.76	5,500.32	5,401.87	98.45	55.868	
8,500.00	6,640.64	6,684.73	6,551.81	109.27	28.76	131.59	-3,043.80	1,864.10	5,553.61	5,454.52	99.09	56.045	
8,600.00	6,713.59	6,735.11	6,602.16	110.79	28.90	131.93	-3,043.37	1,862.37	5,607.54	5,507.84	99.70	56.246	
8,700.00	6,786.55	6,786.61	6,653.62	112.30	29.04	132.26	-3,043.06	1,860.48	5,662.09	5,561.79	100.30	56.453	
8,800.00	6,859.51	6,846.31	6,713.28	113.82	29.21	132.64	-3,042.90	1,858.26	5,717.20	5,616.28	100.93	56.647	
8,900.00	6,932.46	6,919.99	6,786.93	115.33	29.42	133.11	-3,043.08	1,856.07	5,772.68	5,671.06	101.62	56.807	
9,000.00	7,005.42	6,971.52	6,838.44	116.85	29.58	133.42	-3,043.34	1,854.62	5,828.59	5,726.39	102.21	57.027	
9,104.89	7,081.95	7,060.85	6,927.71	118.44	29.84	133.97	-3,043.68	1,851.62	5,887.73	5,784.75	102.97	57.177	
9,150.00	7,115.15	7,134.71	7,001.51	119.12	30.05	128.32	-3,043.10	1,848.64	5,911.76	5,808.30	103.45	57.144	
9,200.00	7,152.46	9,200.00	7,046.06	119.86	35.79	121.85	-3,042.23	1,846.69	5,934.99	5,824.92	110.07	53.921	
9,250.00	7,190.04	7,246.68	7,113.37	120.57	30.36	115.64	-3,040.97	1,843.98	5,954.75	5,850.43	104.32	57.082	
9,300.00	7,227.59	7,283.91	7,150.57	121.25	30.46	109.45	-3,040.47	1,842.88	5,971.01	5,866.31	104.70	57.032	
9,350.00	7,264.83	7,385.57	7,252.22	121.89	30.74	104.04	-3,039.74	1,841.73	5,983.49	5,878.11	105.37	56.783	
9,400.00	7,301.48	7,406.72	7,273.37	122.48	30.80	98.57	-3,039.66	1,841.76	5,992.11	5,886.42	105.69	56.693	
9,450.00	7,337.26	7,428.49	7,295.14	123.01	30.86	93.67	-3,039.59	1,841.73	5,997.11	5,891.11	106.01	56.573	
9,500.00	7,371.90	7,449.46	7,316.11	123.49	30.92	89.37	-3,039.54	1,841.63	5,998.47	5,892.17	106.30	56.429	
9,550.00	7,405.13	7,479.00	7,345.65	123.91	31.00	85.76	-3,039.48	1,841.38	5,996.20	5,889.59	106.62	56.240	
9,600.00	7,436.70	7,491.78	7,358.43	124.27	31.04	82.65	-3,039.47	1,841.25	5,990.30	5,883.47	106.83	56.071	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	7,515.94	7,382.59	124.57	31.11	80.25	-3,039.46	1,840.98	5,980.83	5,873.75	107.08	55.853	
9,700.00	7,493.91	9,700.00	7,479.99	124.81	37.27	79.07	-3,039.27	1,840.35	5,967.83	5,853.57	114.26	52.231	
9,750.00	7,519.11	7,692.23	7,558.87	125.00	31.61	78.39	-3,038.67	1,840.72	5,951.07	5,842.96	108.12	55.043	
9,800.00	7,541.79	7,702.88	7,569.51	125.12	31.64	77.71	-3,038.59	1,840.85	5,930.91	5,822.68	108.23	54.801	
9,850.00	7,561.77	7,712.31	7,578.94	125.20	31.67	77.62	-3,038.54	1,840.96	5,907.68	5,799.38	108.30	54.549	
9,900.00	7,578.90	7,720.44	7,587.07	125.23	31.69	78.11	-3,038.52	1,841.06	5,881.54	5,773.20	108.34	54.286	
9,950.00	7,593.04	7,727.21	7,593.84	125.22	31.71	79.21	-3,038.51	1,841.14	5,852.67	5,744.31	108.36	54.013	
10,000.00	7,604.09	7,732.54	7,599.17	125.17	31.72	80.97	-3,038.51	1,841.20	5,821.25	5,712.91	108.34	53.732	
10,050.00	7,611.97	7,736.38	7,603.01	125.08	31.73	83.45	-3,038.51	1,841.24	5,787.49	5,679.20	108.30	53.441	
10,100.00	7,616.61	7,738.68	7,605.31	124.97	31.74	86.73	-3,038.51	1,841.27	5,751.63	5,643.40	108.23	53.140	
10,145.95	7,618.00	7,739.40	7,606.03	124.84	31.74	90.52	-3,038.51	1,841.28	5,717.01	5,608.85	108.16	52.856	
10,200.00	7,618.00	7,739.44	7,606.07	124.69	31.74	90.52	-3,038.51	1,841.28	5,675.55	5,567.48	108.07	52.518	
10,300.00	7,618.00	7,739.53	7,606.16	124.41	31.74	90.52	-3,038.51	1,841.28	5,599.39	5,491.50	107.89	51.898	
10,400.00	7,618.00	7,739.61	7,606.25	124.14	31.74	90.52	-3,038.51	1,841.28	5,524.00	5,416.29	107.72	51.283	
10,500.00	7,618.00	7,739.70	7,606.34	123.88	31.74	90.52	-3,038.51	1,841.28	5,449.40	5,341.86	107.54	50.674	
10,600.00	7,618.00	7,739.80	7,606.43	123.63	31.74	90.52	-3,038.51	1,841.28	5,375.63	5,268.26	107.36	50.070	
10,700.00	7,618.00	7,739.89	7,606.52	123.40	31.74	90.53	-3,038.51	1,841.28	5,302.71	5,195.53	107.18	49.473	
10,800.00	7,618.00	7,739.99	7,606.62	123.18	31.74	90.53	-3,038.51	1,841.28	5,230.69	5,123.68	107.01	48.881	
10,900.00	7,618.00	7,740.08	7,606.71	122.96	31.74	90.53	-3,038.51	1,841.28	5,159.60	5,052.77	106.83	48.296	
11,000.00	7,618.00	7,740.18	7,606.81	122.76	31.74	90.53	-3,038.51	1,841.29	5,089.49	4,982.83	106.66	47.717	
11,100.00	7,618.00	7,740.29	7,606.92	122.57	31.75	90.53	-3,038.51	1,841.29	5,020.38	4,913.89	106.49	47.144	
11,200.00	7,618.00	7,740.39	7,607.02	122.39	31.75	90.53	-3,038.51	1,841.29	4,952.34	4,846.01	106.32	46.579	
11,300.00	7,618.00	7,740.50	7,607.13	122.23	31.75	90.54	-3,038.52	1,841.29	4,885.39	4,779.23	106.16	46.020	
11,400.00	7,618.00	7,740.61	7,607.24	122.07	31.75	90.54	-3,038.52	1,841.29	4,819.58	4,713.59	106.00	45.469	
11,500.00	7,618.00	7,740.72	7,607.35	121.93	31.75	90.54	-3,038.52	1,841.29	4,754.97	4,649.13	105.84	44.925	
11,600.00	7,618.00	7,740.84	7,607.47	121.79	31.75	90.54	-3,038.52	1,841.29	4,691.60	4,585.91	105.70	44.388	
11,700.00	7,618.00	7,740.96	7,607.59	121.67	31.75	90.54	-3,038.52	1,841.29	4,629.53	4,523.97	105.55	43.859	
11,800.00	7,618.00	7,741.08	7,607.71	121.56	31.75	90.54	-3,038.52	1,841.30	4,568.80	4,463.38	105.42	43.338	
11,900.00	7,618.00	7,741.20	7,607.83	121.46	31.75	90.55	-3,038.52	1,841.30	4,509.47	4,404.17	105.30	42.826	
12,000.00	7,618.00	7,741.33	7,607.96	121.38	31.75	90.55	-3,038.52	1,841.30	4,451.59	4,346.41	105.19	42.321	
12,100.00	7,618.00	7,741.46	7,608.09	121.30	31.75	90.55	-3,038.52	1,841.30	4,395.23	4,290.15	105.08	41.826	
12,200.00	7,618.00	7,741.59	7,608.23	121.24	31.75	90.55	-3,038.52	1,841.30	4,340.44	4,235.44	105.00	41.339	
12,300.00	7,618.00	7,741.73	7,608.36	121.19	31.75	90.55	-3,038.52	1,841.30	4,287.28	4,182.36	104.92	40.861	
12,400.00	7,618.00	7,741.87	7,608.50	121.16	31.75	90.56	-3,038.52	1,841.30	4,235.82	4,130.95	104.87	40.392	
12,500.00	7,618.00	7,742.02	7,608.65	121.14	31.75	90.56	-3,038.52	1,841.31	4,186.12	4,081.29	104.83	39.932	
12,600.00	7,618.00	7,742.17	7,608.80	121.13	31.75	90.56	-3,038.52	1,841.31	4,138.23	4,033.42	104.81	39.483	
12,700.00	7,618.00	7,742.32	7,608.95	121.13	31.75	90.56	-3,038.52	1,841.31	4,092.23	3,987.41	104.81	39.043	
12,800.00	7,618.00	7,742.48	7,609.11	121.15	31.75	90.57	-3,038.52	1,841.31	4,048.17	3,943.34	104.84	38.614	
12,900.00	7,618.00	7,742.64	7,609.28	121.18	31.75	90.57	-3,038.52	1,841.31	4,006.13	3,901.25	104.88	38.196	
13,000.00	7,618.00	7,742.81	7,609.44	121.23	31.75	90.57	-3,038.52	1,841.31	3,966.16	3,861.21	104.96	37.788	
13,100.00	7,618.00	7,742.99	7,609.62	121.29	31.75	90.57	-3,038.52	1,841.32	3,928.34	3,823.28	105.06	37.393	
13,200.00	7,618.00	7,743.16	7,609.79	121.37	31.75	90.58	-3,038.52	1,841.32	3,892.71	3,787.53	105.18	37.008	
13,300.00	7,618.00	7,743.35	7,609.98	121.46	31.75	90.58	-3,038.52	1,841.32	3,859.35	3,754.01	105.34	36.637	
13,400.00	7,618.00	7,743.54	7,610.17	121.57	31.75	90.58	-3,038.52	1,841.32	3,828.31	3,722.78	105.53	36.278	
13,500.00	7,618.00	7,743.73	7,610.36	121.70	31.75	90.59	-3,038.52	1,841.32	3,799.65	3,693.91	105.74	35.933	
13,600.00	7,618.00	7,743.93	7,610.56	121.84	31.76	90.59	-3,038.52	1,841.33	3,773.42	3,667.43	105.99	35.602	
13,700.00	7,618.00	7,744.14	7,610.77	122.01	31.76	90.59	-3,038.52	1,841.33	3,749.68	3,643.41	106.27	35.285	
13,800.00	7,618.00	7,744.36	7,610.99	122.19	31.76	90.60	-3,038.52	1,841.33	3,728.47	3,621.89	106.58	34.984	
13,900.00	7,618.00	7,744.58	7,611.21	122.39	31.76	90.60	-3,038.53	1,841.33	3,709.83	3,602.92	106.92	34.699	
14,000.00	7,618.00	7,744.81	7,611.44	122.62	31.76	90.60	-3,038.53	1,841.34	3,693.81	3,586.53	107.28	34.430	
14,100.00	7,618.00	7,745.05	7,611.68	122.86	31.76	90.61	-3,038.53	1,841.34	3,680.44	3,572.76	107.68	34.179	
14,200.00	7,618.00	7,745.30	7,611.93	123.12	31.76	90.61	-3,038.53	1,841.34	3,669.74	3,561.64	108.10	33.947	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,300.00	7,618.00	7,745.55	7,612.18	123.41	31.76	90.61	-3,038.53	1,841.34	3,661.74	3,553.19	108.55	33.733	
14,400.00	7,618.00	7,745.82	7,612.45	123.72	31.76	90.62	-3,038.53	1,841.35	3,656.47	3,547.44	109.02	33.539	
14,500.00	7,618.00	7,746.09	7,612.73	124.06	31.76	90.62	-3,038.53	1,841.35	3,653.92	3,544.41	109.51	33.365	
14,543.12	7,618.00	7,746.22	7,612.85	124.21	31.76	90.62	-3,038.53	1,841.35	3,653.66	3,543.93	109.73	33.296	
14,600.00	7,618.00	7,746.38	7,613.01	124.42	31.76	90.63	-3,038.53	1,841.35	3,654.11	3,544.08	110.02	33.212	
14,700.00	7,618.00	7,746.68	7,613.31	124.80	31.76	90.63	-3,038.53	1,841.36	3,657.03	3,546.48	110.55	33.081	
14,800.00	7,618.00	7,746.99	7,613.62	125.21	31.76	90.64	-3,038.53	1,841.36	3,662.68	3,551.60	111.09	32.971	
14,900.00	7,618.00	7,747.31	7,613.94	125.65	31.76	90.64	-3,038.53	1,841.36	3,671.05	3,559.42	111.64	32.884	
15,000.00	7,618.00	7,747.65	7,614.28	126.11	31.77	90.65	-3,038.53	1,841.37	3,682.12	3,569.93	112.19	32.820	
15,100.00	7,618.00	7,748.00	7,614.63	126.61	31.77	90.65	-3,038.54	1,841.37	3,695.86	3,583.11	112.75	32.779	
15,200.00	7,618.00	7,748.37	7,615.00	127.13	31.77	90.66	-3,038.54	1,841.38	3,712.24	3,598.93	113.31	32.761	SF
15,300.00	7,618.00	7,748.75	7,615.38	127.68	31.77	90.66	-3,038.54	1,841.38	3,731.24	3,617.36	113.87	32.766	
15,400.00	7,618.00	7,749.15	7,615.78	128.26	31.77	90.67	-3,038.54	1,841.38	3,752.80	3,638.37	114.43	32.795	
15,500.00	7,618.00	7,749.57	7,616.20	128.87	31.77	90.68	-3,038.54	1,841.39	3,776.89	3,661.90	114.98	32.847	
15,600.00	7,618.00	7,750.01	7,616.63	129.51	31.77	90.68	-3,038.54	1,841.39	3,803.45	3,687.92	115.53	32.922	
15,700.00	7,618.00	7,750.47	7,617.10	130.18	31.77	90.69	-3,038.55	1,841.40	3,832.44	3,716.38	116.06	33.020	
15,800.00	7,618.00	7,750.95	7,617.58	130.88	31.77	90.70	-3,038.55	1,841.40	3,863.81	3,747.22	116.59	33.141	
15,900.00	7,618.00	7,751.46	7,618.09	131.61	31.78	90.71	-3,038.55	1,841.41	3,897.48	3,780.39	117.10	33.284	
16,000.00	7,618.00	7,751.99	7,618.62	132.37	31.78	90.72	-3,038.55	1,841.41	3,933.41	3,815.82	117.59	33.449	
16,100.00	7,618.00	7,752.56	7,619.19	133.17	31.78	90.72	-3,038.55	1,841.42	3,971.54	3,853.46	118.08	33.635	
16,200.00	7,618.00	7,753.16	7,619.79	133.99	31.78	90.73	-3,038.56	1,841.43	4,011.79	3,893.25	118.54	33.843	
16,300.00	7,618.00	7,753.79	7,620.42	134.84	31.78	90.74	-3,038.56	1,841.43	4,054.12	3,935.13	118.99	34.071	
16,400.00	7,618.00	7,754.46	7,621.08	135.72	31.78	90.75	-3,038.56	1,841.44	4,098.44	3,979.02	119.42	34.319	
16,500.00	7,618.00	7,755.17	7,621.79	136.63	31.79	90.77	-3,038.57	1,841.45	4,144.71	4,024.87	119.84	34.586	
16,600.00	7,618.00	7,755.92	7,622.55	137.57	31.79	90.78	-3,038.57	1,841.46	4,192.85	4,072.61	120.24	34.872	
16,700.00	7,618.00	7,756.72	7,623.35	138.54	31.79	90.79	-3,038.58	1,841.46	4,242.80	4,122.18	120.62	35.176	
16,800.00	7,618.00	7,757.58	7,624.21	139.53	31.79	90.80	-3,038.58	1,841.47	4,294.50	4,173.52	120.98	35.498	
16,900.00	7,618.00	7,758.50	7,625.13	140.55	31.80	90.82	-3,038.59	1,841.48	4,347.88	4,226.56	121.32	35.837	
17,000.00	7,618.00	7,759.48	7,626.11	141.60	31.80	90.83	-3,038.59	1,841.49	4,402.89	4,281.24	121.65	36.192	
17,100.00	7,618.00	7,760.54	7,627.17	142.67	31.80	90.85	-3,038.60	1,841.50	4,459.46	4,337.49	121.97	36.563	
17,200.00	7,618.00	7,761.83	7,628.46	143.77	31.81	90.87	-3,038.61	1,841.52	4,517.54	4,395.27	122.27	36.948	
17,300.00	7,618.00	7,763.35	7,629.98	144.88	31.81	90.89	-3,038.62	1,841.53	4,577.07	4,454.51	122.55	37.348	
17,400.00	7,618.00	7,765.02	7,631.65	146.02	31.82	90.92	-3,038.63	1,841.55	4,637.98	4,515.16	122.82	37.762	
17,500.00	7,618.00	7,766.87	7,633.50	147.19	31.82	90.95	-3,038.64	1,841.57	4,700.24	4,577.16	123.08	38.189	
17,600.00	7,618.00	7,768.94	7,635.57	148.37	31.83	90.98	-3,038.66	1,841.59	4,763.78	4,640.46	123.32	38.629	
17,700.00	7,618.00	7,771.25	7,637.88	149.57	31.83	91.02	-3,038.68	1,841.62	4,828.56	4,705.00	123.55	39.081	
17,800.00	7,618.00	7,773.86	7,640.49	150.79	31.84	91.06	-3,038.70	1,841.64	4,894.52	4,770.74	123.77	39.544	
17,900.00	7,618.00	7,776.82	7,643.45	152.03	31.85	91.10	-3,038.73	1,841.67	4,961.62	4,837.63	123.98	40.018	
18,000.00	7,618.00	7,780.22	7,646.85	153.29	31.86	91.16	-3,038.76	1,841.71	5,029.81	4,905.62	124.18	40.503	
18,100.00	7,618.00	7,784.16	7,650.79	154.57	31.87	91.22	-3,038.80	1,841.75	5,099.05	4,974.67	124.38	40.997	
18,200.00	7,618.00	18,200.00	7,603.05	155.86	61.35	90.47	-3,038.69	1,841.22	5,169.25	5,014.16	155.10	33.329	
18,300.00	7,618.00	18,300.00	7,602.68	157.17	61.64	90.47	-3,038.69	1,841.21	5,240.47	5,084.87	155.60	33.679	
18,400.00	7,618.00	18,400.00	7,602.31	158.49	61.93	90.46	-3,038.69	1,841.21	5,312.61	5,156.52	156.09	34.035	
18,500.00	7,618.00	7,809.09	7,675.71	159.82	31.95	91.61	-3,039.15	1,842.01	5,385.67	5,260.57	125.10	43.052	
18,600.00	7,618.00	7,819.41	7,686.03	161.17	31.98	91.77	-3,039.33	1,842.11	5,459.55	5,334.27	125.28	43.580	
18,700.00	7,618.00	7,832.87	7,699.48	162.54	32.02	91.98	-3,039.60	1,842.25	5,534.25	5,408.78	125.47	44.110	
18,800.00	7,618.00	7,851.12	7,717.73	163.91	32.08	92.27	-3,040.02	1,842.44	5,609.73	5,484.05	125.67	44.638	
18,900.00	7,618.00	18,900.00	7,681.27	165.30	66.35	91.70	-3,039.47	1,842.06	5,685.81	5,524.98	160.83	35.352	
19,000.00	7,618.00	19,000.00	7,682.89	166.70	66.66	91.72	-3,039.50	1,842.08	5,762.78	5,601.50	161.28	35.732	
19,100.00	7,618.00	19,100.00	7,684.50	168.10	66.97	91.75	-3,039.52	1,842.10	5,840.45	5,678.73	161.72	36.115	
19,200.00	7,618.00	7,865.46	7,732.06	169.52	32.13	92.49	-3,040.40	1,842.59	5,918.88	5,792.79	126.09	46.941	
19,300.00	7,618.00	7,868.23	7,734.83	170.95	32.13	92.54	-3,040.47	1,842.61	5,997.85	5,871.67	126.18	47.535	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,400.00	7,618.00	7,871.01	7,737.62	172.39	32.14	92.58	-3,040.54	1,842.64	6,077.43	5,951.17	126.26	48.135	
19,500.00	7,618.00	7,873.81	7,740.41	173.84	32.15	92.62	-3,040.62	1,842.67	6,157.61	6,031.27	126.33	48.741	
19,600.00	7,618.00	7,876.63	7,743.23	175.30	32.16	92.67	-3,040.69	1,842.70	6,238.35	6,111.95	126.41	49.352	
19,700.00	7,618.00	19,700.00	7,694.19	176.76	68.83	91.90	-3,039.68	1,842.20	6,319.64	6,155.39	164.24	38.478	
19,800.00	7,618.00	7,882.31	7,748.91	178.24	32.18	92.76	-3,040.84	1,842.75	6,401.48	6,274.94	126.54	50.590	
19,896.19	7,618.00	7,885.06	7,751.66	179.66	32.19	92.80	-3,040.91	1,842.78	6,480.66	6,354.07	126.60	51.192	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	109.45	-1,475.02	4,177.05	4,430.09				
100.00	100.00	34.24	34.24	0.13	0.05	109.45	-1,475.01	4,177.12	4,429.93	4,429.75	0.19	N/A	
200.00	200.00	100.08	100.08	0.49	0.16	109.45	-1,474.94	4,177.70	4,430.72	4,430.07	0.65	6,809.604	
300.00	299.98	245.82	245.81	0.85	0.63	40.15	-1,474.45	4,179.13	4,430.27	4,428.79	1.48	2,990.776	
400.00	399.84	514.18	513.81	1.21	1.58	40.47	-1,482.74	4,171.36	4,424.69	4,421.90	2.79	1,586.795	
500.00	499.45	615.01	613.92	1.58	1.96	40.83	-1,491.99	4,163.80	4,414.09	4,410.56	3.54	1,248.026	
600.00	598.70	676.62	674.79	1.97	2.21	41.18	-1,500.09	4,158.80	4,401.66	4,397.51	4.16	1,058.824	
700.00	697.47	778.64	774.85	2.38	2.66	41.77	-1,517.50	4,149.29	4,387.00	4,382.02	4.99	879.270	
800.00	795.62	856.00	850.16	2.83	3.02	42.36	-1,533.22	4,141.21	4,370.08	4,364.32	5.75	759.427	
900.00	893.06	924.63	916.72	3.31	3.36	42.97	-1,548.30	4,133.94	4,351.31	4,344.79	6.52	667.511	
1,000.00	989.64	1,022.35	1,011.34	3.83	3.87	43.82	-1,570.47	4,123.68	4,330.72	4,323.25	7.47	580.006	
1,100.00	1,085.27	1,176.41	1,160.57	4.40	4.68	45.08	-1,604.38	4,106.01	4,306.96	4,298.21	8.75	492.115	
1,200.00	1,179.82	1,242.53	1,224.70	5.02	5.03	45.89	-1,618.49	4,098.23	4,280.91	4,271.30	9.61	445.514	
1,300.00	1,273.17	1,293.61	1,274.30	5.70	5.30	46.64	-1,629.38	4,092.63	4,253.60	4,243.17	10.42	408.052	
1,400.00	1,365.21	1,384.50	1,362.44	6.43	5.79	47.74	-1,649.26	4,082.85	4,224.88	4,213.38	11.50	367.367	
1,500.00	1,455.84	1,450.01	1,425.72	7.23	6.15	48.73	-1,664.43	4,075.32	4,194.40	4,181.90	12.50	335.612	
1,600.00	1,544.94	1,510.34	1,483.89	8.09	6.49	49.74	-1,678.91	4,068.49	4,162.81	4,149.28	13.52	307.836	
1,700.00	1,632.39	1,589.97	1,560.58	9.01	6.94	50.99	-1,698.32	4,059.41	4,129.92	4,115.20	14.72	280.562	
1,800.00	1,718.11	1,642.79	1,611.44	10.00	7.24	52.05	-1,711.29	4,053.45	4,095.92	4,080.10	15.83	258.805	
1,900.00	1,801.97	1,701.30	1,667.78	11.07	7.57	53.22	-1,725.70	4,047.14	4,061.15	4,044.12	17.03	238.468	
2,000.00	1,883.88	1,797.25	1,760.35	12.20	8.12	54.83	-1,748.75	4,036.80	4,025.21	4,006.69	18.52	217.339	
2,100.00	1,963.74	1,871.66	1,832.23	13.41	8.54	56.30	-1,766.20	4,028.68	3,988.15	3,968.19	19.96	199.845	
2,200.00	2,041.45	1,975.65	1,932.84	14.69	9.12	58.17	-1,789.75	4,017.03	3,949.98	3,928.34	21.64	182.549	
2,300.00	2,116.92	2,052.39	2,007.20	16.05	9.54	59.81	-1,806.57	4,008.14	3,910.85	3,887.60	23.24	168.262	
2,357.48	2,159.25	2,357.48	2,082.71	16.86	11.22	61.21	-1,823.07	3,998.37	3,887.58	3,861.94	25.65	151.581	
2,400.00	2,190.27	2,196.37	2,146.77	17.47	10.33	62.04	-1,836.71	3,989.70	3,870.37	3,845.06	25.31	152.932	
2,500.00	2,263.22	2,253.93	2,202.63	18.92	10.64	62.76	-1,848.25	3,982.06	3,830.66	3,803.73	26.93	142.232	
2,600.00	2,336.18	2,309.47	2,256.56	20.37	10.95	63.47	-1,859.33	3,974.75	3,792.31	3,763.73	28.58	132.680	
2,700.00	2,409.14	2,360.04	2,305.66	21.84	11.22	64.12	-1,869.47	3,968.09	3,755.40	3,725.16	30.24	124.193	
2,800.00	2,482.09	2,401.46	2,345.89	23.31	11.44	64.65	-1,877.79	3,962.82	3,720.11	3,688.24	31.87	116.721	
2,900.00	2,555.05	2,443.79	2,387.04	24.78	11.67	65.20	-1,886.29	3,957.68	3,686.55	3,653.01	33.54	109.923	
3,000.00	2,628.01	2,491.57	2,433.48	26.27	11.93	65.82	-1,895.98	3,952.01	3,654.69	3,619.43	35.26	103.652	
3,100.00	2,700.96	2,545.69	2,486.05	27.75	12.22	66.53	-1,907.14	3,945.63	3,624.54	3,587.50	37.04	97.848	
3,200.00	2,773.92	2,643.46	2,581.00	29.24	12.75	67.82	-1,927.01	3,933.45	3,595.52	3,556.41	39.11	91.928	
3,300.00	2,846.88	2,689.70	2,625.94	30.73	13.00	68.43	-1,936.26	3,927.66	3,568.02	3,527.13	40.89	87.256	
3,400.00	2,919.83	2,736.95	2,671.89	32.23	13.26	69.06	-1,945.67	3,922.00	3,542.36	3,499.67	42.69	82.980	
3,500.00	2,992.79	2,786.09	2,719.75	33.72	13.52	69.71	-1,955.34	3,916.44	3,518.56	3,474.05	44.51	79.058	
3,600.00	3,065.75	2,841.75	2,774.03	35.22	13.81	70.45	-1,966.12	3,910.52	3,496.59	3,450.22	46.37	75.406	
3,700.00	3,138.71	2,908.27	2,838.94	36.72	14.16	71.33	-1,978.87	3,903.50	3,476.27	3,427.97	48.31	71.965	
3,800.00	3,211.66	2,974.82	2,903.90	38.22	14.50	72.22	-1,991.50	3,896.42	3,457.58	3,407.34	50.25	68.811	
3,900.00	3,284.62	3,030.62	2,958.36	39.72	14.79	72.97	-2,002.06	3,890.42	3,440.59	3,388.46	52.13	66.002	
4,000.00	3,357.58	3,075.66	3,002.24	41.22	15.03	73.57	-2,010.90	3,885.42	3,425.60	3,371.65	53.95	63.502	
4,100.00	3,430.53	3,120.13	3,045.48	42.73	15.27	74.18	-2,019.98	3,880.33	3,412.70	3,356.95	55.76	61.209	
4,200.00	3,503.49	3,164.54	3,088.59	44.23	15.51	74.79	-2,029.30	3,875.21	3,401.93	3,344.37	57.56	59.103	
4,300.00	3,576.45	3,212.31	3,134.92	45.74	15.77	75.44	-2,039.55	3,869.70	3,393.31	3,333.93	59.37	57.152	
4,400.00	3,649.40	3,270.64	3,191.60	47.25	16.09	76.24	-2,051.84	3,863.46	3,386.68	3,325.43	61.24	55.300	
4,500.00	3,722.36	3,324.73	3,244.28	48.75	16.38	76.97	-2,062.94	3,858.23	3,381.98	3,318.92	63.06	53.632	
4,600.00	3,795.32	3,376.50	3,294.75	50.26	16.65	77.67	-2,073.50	3,853.57	3,379.32	3,314.48	64.84	52.120	
4,691.34	3,861.96	3,435.34	3,352.09	51.64	16.96	78.47	-2,085.57	3,848.25	3,378.56	3,312.03	66.53	50.784	
4,700.00	3,868.27	3,440.89	3,357.50	51.77	16.99	78.54	-2,086.71	3,847.73	3,378.57	3,311.88	66.69	50.663	
4,800.00	3,941.23	3,504.25	3,419.16	53.28	17.33	79.41	-2,099.88	3,841.50	3,379.64	3,311.14	68.51	49.333	
4,900.00	4,014.19	3,566.44	3,479.59	54.79	17.66	80.26	-2,112.97	3,834.91	3,382.57	3,312.28	70.29	48.121	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
5,000.00	4,087.15	3,684.65	3,594.69	56.30	18.28	81.87	-2,136.77	3,822.18	3,386.89	3,314.44	72.45	46.749	
5,100.00	4,160.10	3,793.86	3,701.49	57.81	18.84	83.34	-2,156.58	3,810.95	3,392.08	3,317.59	74.49	45.539	
5,200.00	4,233.06	3,889.48	3,795.43	59.32	19.30	84.61	-2,172.23	3,802.40	3,398.42	3,322.04	76.38	44.491	
5,300.00	4,306.02	5,300.00	3,959.75	60.83	25.21	86.74	-2,193.47	3,791.06	3,404.25	3,320.73	83.52	40.758	
5,400.00	4,378.97	4,331.81	4,234.69	62.34	21.04	90.16	-2,215.03	3,778.25	3,409.69	3,328.54	81.16	42.014	
5,500.00	4,451.93	4,439.41	4,342.20	63.85	21.35	91.44	-2,218.50	3,775.86	3,414.22	3,331.37	82.85	41.207	
5,600.00	4,524.89	4,554.17	4,456.93	65.36	21.68	92.78	-2,220.45	3,774.22	3,419.31	3,334.76	84.55	40.441	
5,700.00	4,597.84	4,658.03	4,560.78	66.88	21.97	93.98	-2,220.77	3,773.39	3,424.95	3,338.78	86.18	39.744	
5,800.00	4,670.80	4,753.75	4,656.50	68.39	22.21	95.08	-2,220.38	3,772.49	3,431.46	3,343.72	87.74	39.111	
5,900.00	4,743.76	4,838.28	4,741.02	69.90	22.42	96.05	-2,219.50	3,771.74	3,438.89	3,349.65	89.24	38.535	
6,000.00	4,816.71	4,914.14	4,816.88	71.41	22.61	96.92	-2,218.63	3,770.94	3,447.59	3,356.89	90.70	38.012	
6,100.00	4,889.67	4,991.03	4,893.75	72.93	22.81	97.80	-2,217.70	3,769.91	3,457.54	3,365.42	92.13	37.530	
6,200.00	4,962.63	5,048.55	4,951.26	74.44	22.96	98.46	-2,217.12	3,769.10	3,468.97	3,375.48	93.49	37.104	
6,300.00	5,035.59	5,107.82	5,010.52	75.95	23.12	99.13	-2,216.73	3,768.30	3,482.01	3,387.18	94.83	36.719	
6,400.00	5,108.54	5,167.03	5,069.73	77.47	23.29	99.80	-2,216.56	3,767.55	3,496.63	3,400.50	96.13	36.374	
6,500.00	5,181.50	5,226.17	5,128.87	78.98	23.45	100.47	-2,216.61	3,766.84	3,512.82	3,415.42	97.40	36.066	
6,600.00	5,254.46	5,288.12	5,190.81	80.49	23.62	101.17	-2,216.88	3,766.14	3,530.55	3,431.90	98.65	35.790	
6,700.00	5,327.41	5,355.97	5,258.66	82.01	23.82	101.93	-2,217.29	3,765.42	3,549.67	3,449.79	99.89	35.537	
6,800.00	5,400.37	5,428.38	5,331.06	83.52	24.03	102.73	-2,217.77	3,764.68	3,570.08	3,468.97	101.11	35.309	
6,900.00	5,473.33	5,512.03	5,414.71	85.04	24.27	103.66	-2,218.22	3,763.79	3,591.63	3,489.29	102.34	35.095	
7,000.00	5,546.28	5,595.01	5,497.68	86.55	24.51	104.57	-2,218.35	3,762.79	3,614.08	3,510.54	103.54	34.906	
7,100.00	5,619.24	5,673.35	5,576.01	88.06	24.74	105.42	-2,218.32	3,761.84	3,637.58	3,532.89	104.69	34.747	
7,200.00	5,692.20	5,752.11	5,654.76	89.58	24.96	106.27	-2,218.14	3,760.89	3,662.10	3,556.29	105.81	34.611	
7,300.00	5,765.15	5,803.17	5,705.82	91.09	25.11	106.82	-2,218.18	3,760.26	3,687.95	3,581.14	106.81	34.529	
7,400.00	5,838.11	5,909.45	5,812.09	92.61	25.42	107.95	-2,218.23	3,758.83	3,715.00	3,607.03	107.96	34.409	
7,500.00	5,911.07	5,998.98	5,901.61	94.12	25.67	108.89	-2,217.34	3,757.50	3,742.30	3,633.27	109.03	34.324	
7,600.00	5,984.03	6,067.75	5,970.36	95.64	25.86	109.61	-2,216.57	3,756.49	3,770.58	3,660.59	110.00	34.279	
7,700.00	6,056.98	6,135.20	6,037.81	97.15	26.05	110.31	-2,215.94	3,755.59	3,800.05	3,689.11	110.94	34.255	
7,800.00	6,129.94	6,212.16	6,114.76	98.67	26.27	111.10	-2,215.21	3,754.63	3,830.51	3,718.63	111.88	34.238	
7,900.00	6,202.90	6,280.15	6,182.74	100.18	26.46	111.79	-2,214.55	3,753.68	3,861.96	3,749.19	112.77	34.247	
8,000.00	6,275.85	6,346.59	6,249.17	101.70	26.65	112.46	-2,213.96	3,752.57	3,894.48	3,780.85	113.62	34.275	
8,100.00	6,348.81	6,412.54	6,315.10	103.21	26.85	113.12	-2,213.47	3,751.40	3,928.06	3,813.61	114.45	34.320	
8,200.00	6,421.77	6,480.72	6,383.27	104.73	27.05	113.80	-2,213.03	3,750.10	3,962.67	3,847.40	115.27	34.378	
8,300.00	6,494.72	6,544.54	6,447.07	106.24	27.24	114.43	-2,212.72	3,748.90	3,998.28	3,882.24	116.04	34.456	
8,400.00	6,567.68	6,610.65	6,513.18	107.76	27.44	115.07	-2,212.59	3,747.92	4,034.93	3,918.12	116.81	34.544	
8,500.00	6,640.64	6,685.26	6,587.78	109.27	27.66	115.79	-2,212.50	3,747.05	4,072.44	3,954.85	117.59	34.633	
8,600.00	6,713.59	6,745.26	6,647.78	110.79	27.85	116.35	-2,212.53	3,746.44	4,110.85	3,992.56	118.29	34.752	
8,700.00	6,786.55	6,806.35	6,708.87	112.30	28.04	116.92	-2,212.74	3,745.82	4,150.27	4,031.29	118.98	34.882	
8,800.00	6,859.51	6,868.35	6,770.86	113.82	28.23	117.49	-2,213.10	3,745.13	4,190.64	4,070.98	119.65	35.024	
8,900.00	6,932.46	6,930.75	6,833.26	115.33	28.43	118.07	-2,213.58	3,744.33	4,231.92	4,111.62	120.31	35.176	
9,000.00	7,005.42	6,991.44	6,893.94	116.85	28.62	118.62	-2,214.17	3,743.45	4,274.11	4,153.17	120.94	35.341	
9,104.89	7,081.95	7,052.45	6,954.93	118.44	28.82	119.17	-2,214.89	3,742.36	4,319.36	4,197.79	121.56	35.531	
9,150.00	7,115.15	7,081.71	6,984.18	119.12	28.92	114.19	-2,215.27	3,741.74	4,337.55	4,215.70	121.85	35.598	
9,200.00	7,152.46	7,116.38	7,018.85	119.86	29.03	108.54	-2,215.72	3,740.94	4,354.17	4,231.99	122.18	35.638	
9,250.00	7,190.04	7,151.21	7,053.65	120.57	29.14	102.86	-2,216.16	3,740.06	4,366.96	4,244.45	122.51	35.646	
9,300.00	7,227.59	7,182.67	7,085.10	121.25	29.25	97.25	-2,216.56	3,739.20	4,375.87	4,253.05	122.82	35.628	
9,350.00	7,264.83	7,213.37	7,115.79	121.89	29.35	91.89	-2,216.98	3,738.34	4,380.89	4,257.76	123.12	35.581	
9,400.00	7,301.48	7,243.62	7,146.02	122.48	29.45	86.92	-2,217.43	3,737.47	4,381.99	4,258.58	123.41	35.507	
9,450.00	7,337.26	7,273.98	7,176.36	123.01	29.55	82.44	-2,217.92	3,736.58	4,379.18	4,255.50	123.68	35.406	
9,500.00	7,371.90	7,303.62	7,205.98	123.49	29.65	78.50	-2,218.42	3,735.69	4,372.49	4,248.56	123.93	35.282	
9,550.00	7,405.13	7,332.11	7,234.46	123.91	29.75	75.14	-2,218.92	3,734.80	4,361.97	4,237.82	124.15	35.135	
9,600.00	7,436.70	7,359.24	7,261.57	124.27	29.84	72.36	-2,219.41	3,733.94	4,347.71	4,223.38	124.33	34.968	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,650.00	7,466.36	7,384.83	7,287.14	124.57	29.93	70.15	-2,219.89	3,733.10	4,329.81	4,205.33	124.48	34.783	
9,700.00	7,493.91	9,700.00	7,505.30	124.81	36.73	70.91	-2,219.78	3,727.42	4,308.05	4,175.66	132.39	32.541	
9,750.00	7,519.11	7,664.38	7,566.56	125.00	30.79	70.56	-2,218.22	3,726.77	4,281.97	4,156.24	125.73	34.058	
9,800.00	7,541.79	7,683.32	7,585.49	125.12	30.84	70.33	-2,217.71	3,726.63	4,252.77	4,127.00	125.77	33.814	
9,850.00	7,561.77	7,699.88	7,602.04	125.20	30.89	70.76	-2,217.27	3,726.52	4,220.71	4,094.93	125.77	33.558	
9,900.00	7,578.90	7,713.94	7,616.09	125.23	30.92	71.89	-2,216.91	3,726.42	4,185.98	4,060.23	125.75	33.289	
9,950.00	7,593.04	7,727.01	7,629.16	125.22	30.96	73.86	-2,216.58	3,726.33	4,148.82	4,023.12	125.69	33.008	
10,000.00	7,604.09	7,738.98	7,641.13	125.17	30.99	76.80	-2,216.27	3,726.27	4,109.46	3,983.85	125.62	32.714	
10,050.00	7,611.97	7,747.06	7,649.20	125.08	31.02	80.86	-2,216.07	3,726.23	4,068.19	3,942.67	125.52	32.411	
10,100.00	7,616.61	7,751.17	7,653.31	124.97	31.03	86.28	-2,215.96	3,726.21	4,025.26	3,899.87	125.39	32.101	
10,145.95	7,618.00	7,751.42	7,653.57	124.84	31.03	92.70	-2,215.95	3,726.21	3,984.61	3,859.35	125.26	31.810	
10,200.00	7,618.00	7,749.73	7,651.88	124.69	31.02	92.65	-2,216.00	3,726.21	3,936.28	3,811.18	125.10	31.464	
10,300.00	7,618.00	7,746.61	7,648.76	124.41	31.02	92.55	-2,216.08	3,726.23	3,847.27	3,722.48	124.79	30.830	
10,400.00	7,618.00	7,743.50	7,645.65	124.14	31.01	92.45	-2,216.16	3,726.24	3,758.80	3,634.35	124.45	30.202	
10,500.00	7,618.00	7,740.40	7,642.55	123.88	31.00	92.35	-2,216.24	3,726.26	3,670.93	3,546.83	124.10	29.581	
10,600.00	7,618.00	7,737.30	7,639.45	123.63	30.99	92.25	-2,216.31	3,726.27	3,583.69	3,459.97	123.72	28.966	
10,700.00	7,618.00	7,734.21	7,636.36	123.40	30.98	92.15	-2,216.39	3,726.29	3,497.13	3,373.81	123.32	28.359	
10,800.00	7,618.00	7,731.13	7,633.28	123.18	30.97	92.05	-2,216.47	3,726.31	3,411.30	3,288.41	122.88	27.760	
10,900.00	7,618.00	7,728.05	7,630.21	122.96	30.96	91.95	-2,216.55	3,726.33	3,326.26	3,203.83	122.42	27.170	
11,000.00	7,618.00	7,724.98	7,627.14	122.76	30.96	91.85	-2,216.63	3,726.35	3,242.07	3,120.14	121.93	26.589	
11,100.00	7,618.00	7,721.92	7,624.08	122.57	30.95	91.75	-2,216.70	3,726.37	3,158.81	3,037.40	121.41	26.019	
11,200.00	7,618.00	7,719.37	7,621.52	122.39	30.94	91.67	-2,216.77	3,726.38	3,076.53	2,955.69	120.85	25.458	
11,300.00	7,618.00	7,717.02	7,619.17	122.23	30.93	91.59	-2,216.83	3,726.40	2,995.34	2,875.09	120.25	24.910	
11,400.00	7,618.00	7,714.65	7,616.80	122.07	30.93	91.51	-2,216.89	3,726.42	2,915.31	2,795.71	119.60	24.375	
11,500.00	7,618.00	7,712.26	7,614.42	121.93	30.92	91.44	-2,216.95	3,726.43	2,836.55	2,717.63	118.92	23.854	
11,600.00	7,618.00	7,709.86	7,612.02	121.79	30.91	91.36	-2,217.01	3,726.45	2,759.16	2,640.98	118.18	23.348	
11,700.00	7,618.00	7,707.44	7,609.60	121.67	30.91	91.28	-2,217.07	3,726.47	2,683.26	2,565.87	117.39	22.858	
11,800.00	7,618.00	7,705.01	7,607.17	121.56	30.90	91.20	-2,217.14	3,726.48	2,608.99	2,492.45	116.54	22.387	
11,900.00	7,618.00	7,702.56	7,604.72	121.46	30.89	91.12	-2,217.20	3,726.50	2,536.48	2,420.85	115.64	21.935	
12,000.00	7,618.00	7,700.09	7,602.25	121.38	30.89	91.04	-2,217.26	3,726.52	2,465.90	2,351.23	114.67	21.504	
12,100.00	7,618.00	7,697.60	7,599.76	121.30	30.88	90.96	-2,217.33	3,726.53	2,397.40	2,283.76	113.64	21.096	
12,200.00	7,618.00	7,695.10	7,597.26	121.24	30.87	90.88	-2,217.40	3,726.55	2,331.18	2,218.64	112.55	20.713	
12,300.00	7,618.00	7,692.58	7,594.74	121.19	30.86	90.80	-2,217.46	3,726.57	2,267.44	2,156.05	111.39	20.355	
12,400.00	7,618.00	7,690.04	7,592.20	121.16	30.86	90.72	-2,217.53	3,726.59	2,206.39	2,096.21	110.18	20.026	
12,500.00	7,618.00	7,687.48	7,589.64	121.14	30.85	90.64	-2,217.60	3,726.60	2,148.25	2,039.35	108.90	19.726	
12,600.00	7,618.00	7,684.90	7,587.07	121.13	30.84	90.55	-2,217.66	3,726.62	2,093.28	1,985.69	107.58	19.457	
12,700.00	7,618.00	7,682.31	7,584.48	121.13	30.84	90.47	-2,217.73	3,726.64	2,041.72	1,935.49	106.23	19.220	
12,800.00	7,618.00	7,679.69	7,581.86	121.15	30.83	90.38	-2,217.80	3,726.66	1,993.85	1,889.00	104.85	19.016	
12,900.00	7,618.00	7,677.06	7,579.23	121.18	30.82	90.30	-2,217.87	3,726.68	1,949.92	1,846.45	103.48	18.844	
13,000.00	7,618.00	7,674.41	7,576.58	121.23	30.81	90.21	-2,217.95	3,726.70	1,910.23	1,808.10	102.13	18.704	
13,100.00	7,618.00	7,671.74	7,573.91	121.29	30.81	90.13	-2,218.02	3,726.72	1,875.03	1,774.18	100.85	18.592	
13,200.00	7,618.00	7,669.05	7,571.22	121.37	30.80	90.04	-2,218.09	3,726.74	1,844.58	1,744.91	99.67	18.507	
13,300.00	7,618.00	7,666.34	7,568.51	121.46	30.79	89.95	-2,218.17	3,726.75	1,819.12	1,720.49	98.63	18.445	
13,400.00	7,618.00	7,663.61	7,565.78	121.57	30.78	89.86	-2,218.24	3,726.77	1,798.86	1,701.09	97.77	18.399	
13,500.00	7,618.00	7,660.86	7,563.03	121.70	30.78	89.77	-2,218.32	3,726.79	1,783.99	1,686.85	97.13	18.366	
13,600.00	7,618.00	7,658.08	7,560.26	121.84	30.77	89.68	-2,218.39	3,726.81	1,774.62	1,677.87	96.75	18.342	
13,700.00	7,618.00	7,655.29	7,557.47	122.01	30.76	89.59	-2,218.47	3,726.83	1,770.86	1,674.21	96.65	18.322	
13,716.72	7,618.00	7,654.82	7,557.00	122.04	30.76	89.58	-2,218.48	3,726.84	1,770.78	1,674.12	96.66	18.319	CC, ES
13,800.00	7,618.00	7,652.48	7,554.66	122.19	30.75	89.50	-2,218.55	3,726.85	1,772.74	1,675.90	96.84	18.306	
13,900.00	7,618.00	7,649.64	7,551.83	122.39	30.74	89.41	-2,218.63	3,726.88	1,780.24	1,682.93	97.31	18.295	
14,000.00	7,618.00	7,646.79	7,548.97	122.62	30.74	89.32	-2,218.71	3,726.90	1,793.28	1,695.24	98.04	18.292	SF
14,100.00	7,618.00	7,643.91	7,546.10	122.86	30.73	89.23	-2,218.79	3,726.92	1,811.76	1,712.76	99.00	18.301	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,200.00	7,618.00	7,644.51	7,546.69	123.12	30.73	89.25	-2,218.74	3,726.94	1,835.48	1,735.27	100.22	18.315	
14,300.00	7,618.00	7,640.50	7,542.69	123.41	30.72	89.12	-2,218.87	3,726.96	1,864.29	1,762.79	101.50	18.367	
14,400.00	7,618.00	7,636.65	7,538.84	123.72	30.71	88.99	-2,218.99	3,726.98	1,897.94	1,795.04	102.89	18.446	
14,500.00	7,618.00	7,632.95	7,535.13	124.06	30.70	88.87	-2,219.10	3,727.00	1,936.16	1,831.81	104.35	18.554	
14,600.00	7,618.00	7,629.38	7,531.57	124.42	30.69	88.76	-2,219.20	3,727.02	1,978.69	1,872.85	105.84	18.695	
14,700.00	7,618.00	7,625.94	7,528.13	124.80	30.68	88.65	-2,219.30	3,727.05	2,025.27	1,917.94	107.33	18.869	
14,800.00	7,618.00	7,622.62	7,524.82	125.21	30.67	88.54	-2,219.39	3,727.08	2,075.62	1,966.83	108.80	19.078	
14,900.00	7,618.00	7,619.42	7,521.62	125.65	30.66	88.43	-2,219.48	3,727.10	2,129.48	2,019.26	110.22	19.320	
15,000.00	7,618.00	7,616.33	7,518.53	126.11	30.65	88.33	-2,219.56	3,727.13	2,186.58	2,074.99	111.59	19.595	
15,100.00	7,618.00	7,613.35	7,515.55	126.61	30.64	88.24	-2,219.64	3,727.16	2,246.68	2,133.78	112.89	19.901	
15,200.00	7,618.00	7,610.46	7,512.66	127.13	30.63	88.14	-2,219.72	3,727.19	2,309.54	2,195.42	114.12	20.237	
15,300.00	7,618.00	7,607.67	7,509.87	127.68	30.63	88.05	-2,219.79	3,727.22	2,374.95	2,259.66	115.28	20.601	
15,400.00	7,618.00	7,604.97	7,507.17	128.26	30.62	87.97	-2,219.86	3,727.25	2,442.70	2,326.33	116.37	20.991	
15,500.00	7,618.00	7,602.36	7,504.56	128.87	30.61	87.88	-2,219.93	3,727.28	2,512.60	2,395.21	117.38	21.405	
15,600.00	7,618.00	7,599.82	7,502.02	129.51	30.60	87.80	-2,219.99	3,727.31	2,584.47	2,466.14	118.33	21.842	
15,700.00	7,618.00	7,597.37	7,499.57	130.18	30.60	87.72	-2,220.05	3,727.34	2,658.17	2,538.96	119.21	22.299	
15,800.00	7,618.00	7,594.98	7,497.19	130.88	30.59	87.64	-2,220.10	3,727.38	2,733.53	2,613.51	120.02	22.775	
15,900.00	7,618.00	7,592.67	7,494.88	131.61	30.58	87.57	-2,220.16	3,727.41	2,810.43	2,689.65	120.78	23.269	
16,000.00	7,618.00	7,590.43	7,492.64	132.37	30.58	87.50	-2,220.21	3,727.44	2,888.74	2,767.26	121.48	23.779	
16,100.00	7,618.00	7,588.25	7,490.46	133.17	30.57	87.43	-2,220.26	3,727.47	2,968.36	2,846.22	122.13	24.305	
16,200.00	7,618.00	7,586.14	7,488.35	133.99	30.56	87.36	-2,220.31	3,727.50	3,049.17	2,926.43	122.74	24.843	
16,300.00	7,618.00	7,584.08	7,486.29	134.84	30.56	87.29	-2,220.35	3,727.53	3,131.09	3,007.79	123.30	25.395	
16,400.00	7,618.00	7,582.08	7,484.29	135.72	30.55	87.23	-2,220.40	3,727.56	3,214.03	3,090.21	123.82	25.958	
16,500.00	7,618.00	7,580.14	7,482.35	136.63	30.55	87.16	-2,220.44	3,727.59	3,297.92	3,173.62	124.30	26.532	
16,600.00	7,618.00	7,578.25	7,480.46	137.57	30.54	87.10	-2,220.48	3,727.62	3,382.68	3,257.93	124.75	27.116	
16,700.00	7,618.00	7,576.41	7,478.62	138.54	30.54	87.04	-2,220.52	3,727.65	3,468.25	3,343.08	125.17	27.709	
16,800.00	7,618.00	7,574.61	7,476.82	139.53	30.53	86.99	-2,220.56	3,727.68	3,554.58	3,429.02	125.56	28.310	
16,900.00	7,618.00	7,572.87	7,475.08	140.55	30.52	86.93	-2,220.59	3,727.71	3,641.60	3,515.68	125.92	28.920	
17,000.00	7,618.00	7,571.17	7,473.38	141.60	30.52	86.88	-2,220.63	3,727.74	3,729.27	3,603.01	126.26	29.536	
17,100.00	7,618.00	7,569.51	7,471.72	142.67	30.52	86.82	-2,220.66	3,727.77	3,817.55	3,690.98	126.58	30.160	
17,200.00	7,618.00	7,567.89	7,470.10	143.77	30.51	86.77	-2,220.69	3,727.80	3,906.40	3,779.52	126.87	30.789	
17,300.00	7,618.00	7,566.31	7,468.53	144.88	30.51	86.72	-2,220.72	3,727.83	3,995.77	3,868.61	127.15	31.425	
17,400.00	7,618.00	7,564.77	7,466.99	146.02	30.50	86.67	-2,220.75	3,727.85	4,085.63	3,958.21	127.41	32.066	
17,500.00	7,618.00	7,563.27	7,465.49	147.19	30.50	86.62	-2,220.78	3,727.88	4,175.95	4,048.29	127.66	32.712	
17,600.00	7,618.00	7,561.81	7,464.02	148.37	30.49	86.57	-2,220.81	3,727.91	4,266.70	4,138.81	127.89	33.362	
17,700.00	7,618.00	7,560.38	7,462.59	149.57	30.49	86.53	-2,220.83	3,727.94	4,357.86	4,229.75	128.11	34.017	
17,800.00	7,618.00	7,558.98	7,461.19	150.79	30.48	86.48	-2,220.86	3,727.97	4,449.40	4,321.08	128.31	34.676	
17,900.00	7,618.00	7,557.61	7,459.83	152.03	30.48	86.44	-2,220.88	3,727.99	4,541.29	4,412.78	128.51	35.339	
18,000.00	7,618.00	7,556.28	7,458.49	153.29	30.48	86.39	-2,220.91	3,728.02	4,633.52	4,504.83	128.69	36.006	
18,100.00	7,618.00	7,554.97	7,457.19	154.57	30.47	86.35	-2,220.93	3,728.04	4,726.06	4,597.20	128.86	36.676	
18,200.00	7,618.00	7,553.70	7,455.91	155.86	30.47	86.31	-2,220.95	3,728.07	4,818.90	4,689.88	129.03	37.349	
18,300.00	7,618.00	7,552.45	7,454.67	157.17	30.47	86.27	-2,220.97	3,728.10	4,912.02	4,782.84	129.18	38.024	
18,400.00	7,618.00	7,551.23	7,453.45	158.49	30.46	86.23	-2,221.00	3,728.12	5,005.41	4,876.08	129.33	38.703	
18,500.00	7,618.00	7,550.03	7,452.25	159.82	30.46	86.19	-2,221.02	3,728.15	5,099.05	4,969.58	129.47	39.384	
18,600.00	7,618.00	7,548.86	7,451.08	161.17	30.46	86.16	-2,221.04	3,728.17	5,192.92	5,063.32	129.60	40.068	
18,700.00	7,618.00	7,547.72	7,449.94	162.54	30.45	86.12	-2,221.05	3,728.20	5,287.02	5,157.29	129.73	40.754	
18,800.00	7,618.00	7,546.60	7,448.82	163.91	30.45	86.08	-2,221.07	3,728.22	5,381.33	5,251.48	129.85	41.442	
18,900.00	7,618.00	7,545.50	7,447.72	165.30	30.45	86.05	-2,221.09	3,728.24	5,475.84	5,345.87	129.97	42.132	
19,000.00	7,618.00	7,544.43	7,446.65	166.70	30.44	86.01	-2,221.11	3,728.27	5,570.55	5,440.46	130.08	42.824	
19,100.00	7,618.00	7,534.00	7,436.23	168.10	30.41	85.68	-2,221.27	3,728.51	5,665.44	5,535.28	130.16	43.527	
19,200.00	7,618.00	7,534.00	7,436.23	169.52	30.41	85.68	-2,221.27	3,728.51	5,760.50	5,630.23	130.27	44.221	
19,300.00	7,618.00	7,534.00	7,436.23	170.95	30.41	85.68	-2,221.27	3,728.51	5,855.72	5,725.35	130.37	44.917	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,400.00	7,618.00	7,534.00	7,436.23	172.39	30.41	85.68	-2,221.27	3,728.51	5,951.10	5,820.63	130.47	45.614	
19,500.00	7,618.00	7,534.00	7,436.23	173.84	30.41	85.68	-2,221.27	3,728.51	6,046.62	5,916.06	130.56	46.313	
19,600.00	7,618.00	7,534.00	7,436.23	175.30	30.41	85.68	-2,221.27	3,728.51	6,142.29	6,011.64	130.65	47.013	
19,700.00	7,618.00	7,534.00	7,436.23	176.76	30.41	85.68	-2,221.27	3,728.51	6,238.10	6,107.36	130.74	47.714	
19,800.00	7,618.00	7,534.00	7,436.23	178.24	30.41	85.68	-2,221.27	3,728.51	6,334.03	6,203.21	130.82	48.417	
19,896.19	7,618.00	7,534.00	7,436.23	179.66	30.41	85.68	-2,221.27	3,728.51	6,426.42	6,295.52	130.90	49.094	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	124.20	-3,055.97	4,496.56	5,436.91				
100.00	100.00	49.83	49.83	0.13	0.08	124.20	-3,056.06	4,496.52	5,436.75	5,436.54	0.21	N/A	
200.00	200.00	150.83	150.82	0.49	0.36	124.21	-3,056.65	4,496.28	5,436.88	5,436.03	0.85	6,400.972	
300.00	299.98	208.26	208.26	0.85	0.56	54.91	-3,057.02	4,496.20	5,436.22	5,434.81	1.41	3,861.474	
400.00	399.84	246.75	246.74	1.21	0.70	54.96	-3,057.37	4,496.63	5,434.63	5,432.73	1.90	2,859.350	
500.00	499.45	273.00	272.98	1.58	0.79	55.01	-3,057.66	4,497.18	5,432.21	5,429.85	2.36	2,302.426	
600.00	598.70	317.54	317.49	1.97	0.95	55.11	-3,058.23	4,498.71	5,428.93	5,426.04	2.89	1,875.318	
700.00	697.47	364.00	363.88	2.38	1.11	55.23	-3,058.87	4,501.19	5,424.95	5,421.50	3.45	1,570.949	
800.00	795.62	364.00	363.88	2.83	1.11	55.31	-3,058.87	4,501.19	5,420.23	5,416.36	3.87	1,399.839	
900.00	893.06	406.82	406.58	3.31	1.27	55.47	-3,059.63	4,504.35	5,414.74	5,410.27	4.47	1,211.307	
1,000.00	989.64	455.00	454.51	3.83	1.45	55.66	-3,060.79	4,509.05	5,408.89	5,403.78	5.12	1,057.111	
1,100.00	1,085.27	455.00	454.51	4.40	1.45	55.77	-3,060.79	4,509.05	5,402.12	5,396.49	5.63	959.967	
1,200.00	1,179.82	779.66	775.82	5.02	2.72	56.61	-3,054.88	4,544.99	5,389.95	5,382.57	7.38	730.188	
1,300.00	1,273.17	824.00	819.44	5.70	2.88	56.92	-3,054.64	4,552.72	5,379.76	5,371.61	8.14	660.750	
1,400.00	1,365.21	824.00	819.44	6.43	2.88	57.16	-3,054.64	4,552.72	5,366.08	5,357.29	8.79	610.671	
1,500.00	1,455.84	824.00	819.44	7.23	2.88	57.39	-3,054.64	4,552.72	5,352.35	5,342.87	9.48	564.386	
1,600.00	1,544.94	824.00	819.44	8.09	2.88	57.62	-3,054.64	4,552.72	5,338.60	5,328.37	10.23	521.660	
1,700.00	1,632.39	824.00	819.44	9.01	2.88	57.86	-3,054.64	4,552.72	5,324.83	5,313.79	11.04	482.276	
1,800.00	1,718.11	824.00	819.44	10.00	2.88	58.09	-3,054.64	4,552.72	5,311.07	5,299.16	11.91	446.027	
1,900.00	1,801.97	824.00	819.44	11.07	2.88	58.33	-3,054.64	4,552.72	5,297.32	5,284.49	12.84	412.713	
2,000.00	1,883.88	824.00	819.44	12.20	2.88	58.57	-3,054.64	4,552.72	5,283.61	5,269.79	13.83	382.138	
2,100.00	1,963.74	824.00	819.44	13.41	2.88	58.80	-3,054.64	4,552.72	5,269.96	5,255.08	14.88	354.109	
2,200.00	2,041.45	863.46	857.80	14.69	3.08	59.24	-3,056.78	4,561.71	5,255.99	5,239.83	16.17	325.110	
2,300.00	2,116.92	919.00	911.53	16.05	3.35	59.79	-3,059.67	4,575.46	5,241.69	5,224.09	17.60	297.848	
2,357.48	2,159.25	919.00	911.53	16.86	3.35	59.94	-3,059.67	4,575.46	5,233.08	5,214.77	18.31	285.759	
2,400.00	2,190.27	919.00	911.53	17.47	3.35	59.94	-3,059.67	4,575.46	5,226.91	5,208.05	18.85	277.279	
2,500.00	2,263.22	954.12	945.34	18.92	3.54	60.13	-3,061.57	4,584.80	5,213.32	5,193.03	20.29	256.877	
2,600.00	2,336.18	980.31	970.44	20.37	3.68	60.28	-3,063.14	4,592.09	5,201.23	5,179.51	21.71	239.565	
2,700.00	2,409.14	1,013.00	1,001.65	21.84	3.85	60.46	-3,065.29	4,601.56	5,190.60	5,167.43	23.17	224.033	
2,800.00	2,482.09	1,013.00	1,001.65	23.31	3.85	60.46	-3,065.29	4,601.56	5,181.54	5,157.06	24.48	211.664	
2,900.00	2,555.05	1,057.35	1,043.78	24.78	4.12	60.70	-3,068.67	4,615.00	5,173.75	5,147.72	26.03	198.794	
3,000.00	2,628.01	1,107.00	1,090.64	26.27	4.42	60.97	-3,073.23	4,630.77	5,167.78	5,140.17	27.61	187.163	
3,100.00	2,700.96	1,107.00	1,090.64	27.75	4.42	60.97	-3,073.23	4,630.77	5,162.91	5,133.97	28.94	178.429	
3,200.00	2,773.92	1,156.87	1,137.42	29.24	4.74	61.24	-3,078.12	4,647.34	5,159.54	5,129.00	30.55	168.903	
3,300.00	2,846.88	1,214.00	1,190.73	30.73	5.12	61.54	-3,083.49	4,667.16	5,157.30	5,125.09	32.21	160.121	
3,400.00	2,919.83	1,272.99	1,245.62	32.23	5.53	61.85	-3,089.06	4,688.05	5,156.00	5,122.10	33.90	152.088	
3,500.00	2,992.79	1,359.89	1,326.45	33.72	6.15	62.30	-3,097.58	4,718.79	5,155.38	5,119.60	35.78	144.068	
3,600.00	3,065.75	1,458.71	1,418.26	35.22	6.87	62.81	-3,106.52	4,754.24	5,155.02	5,117.26	37.77	136.487	
3,652.76	3,104.24	1,509.29	1,465.20	36.01	7.24	63.07	-3,110.80	4,772.59	5,154.95	5,116.13	38.82	132.808	
3,700.00	3,138.71	1,530.00	1,484.39	36.72	7.40	63.18	-3,112.58	4,780.16	5,155.08	5,115.48	39.59	130.196	
3,800.00	3,211.66	1,591.00	1,540.83	38.22	7.86	63.49	-3,117.98	4,802.67	5,156.07	5,114.70	41.36	124.653	
3,900.00	3,284.62	1,664.57	1,608.78	39.72	8.43	63.86	-3,124.65	4,830.07	5,157.85	5,114.61	43.23	119.302	
4,000.00	3,357.58	1,804.51	1,738.25	41.22	9.51	64.56	-3,136.69	4,881.79	5,159.48	5,113.89	45.59	113.163	
4,100.00	3,430.53	1,859.42	1,789.06	42.73	9.93	64.84	-3,141.41	4,902.06	5,161.55	5,114.19	47.36	108.987	
4,200.00	3,503.49	1,945.27	1,868.44	44.23	10.60	65.28	-3,149.21	4,933.84	5,164.40	5,115.04	49.36	104.627	
4,300.00	3,576.45	2,162.20	2,070.56	45.74	12.23	66.40	-3,167.85	5,010.34	5,165.84	5,113.51	52.32	98.730	
4,400.00	3,649.40	2,198.86	2,104.72	47.25	12.52	66.59	-3,170.78	5,023.32	5,167.75	5,113.75	54.00	95.707	
4,500.00	3,722.36	2,252.00	2,153.97	48.75	12.93	66.85	-3,175.22	5,042.77	5,170.95	5,115.16	55.79	92.687	
4,600.00	3,795.32	4,600.00	2,230.11	50.26	31.31	67.27	-3,182.15	5,072.97	5,174.82	5,103.65	71.17	72.712	
4,700.00	3,868.27	2,426.58	2,315.76	51.77	14.29	67.73	-3,189.88	5,106.69	5,178.88	5,118.95	59.93	86.414	
4,800.00	3,941.23	4,800.00	2,413.69	53.28	32.72	68.27	-3,198.71	5,145.04	5,183.23	5,107.64	75.60	68.565	
4,900.00	4,014.19	2,589.39	2,466.85	54.79	15.56	68.56	-3,203.60	5,165.79	5,188.12	5,124.10	64.02	81.044	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
5,000.00	4,087.15	2,637.41	2,511.21	56.30	15.94	68.79	-3,207.87	5,183.65	5,194.15	5,128.36	65.80	78.941	
5,100.00	4,160.10	2,702.80	2,571.43	57.81	16.47	69.12	-3,213.76	5,208.46	5,201.12	5,133.39	67.73	76.791	
5,200.00	4,233.06	2,780.33	2,642.65	59.32	17.10	69.50	-3,220.79	5,238.29	5,208.80	5,139.02	69.78	74.651	
5,300.00	4,306.02	2,916.25	2,767.68	60.83	18.21	70.16	-3,233.10	5,290.12	5,216.73	5,144.39	72.33	72.120	
5,400.00	4,378.97	2,979.25	2,825.77	62.34	18.72	70.47	-3,238.81	5,313.83	5,224.67	5,150.41	74.27	70.352	
5,500.00	4,451.93	3,051.12	2,891.95	63.85	19.31	70.82	-3,245.57	5,341.02	5,233.37	5,157.09	76.28	68.608	
5,600.00	4,524.89	3,121.80	2,956.90	65.36	19.89	71.17	-3,252.17	5,368.13	5,242.69	5,164.40	78.29	66.967	
5,700.00	4,597.84	3,179.97	3,010.16	66.88	20.38	71.45	-3,257.64	5,390.88	5,252.84	5,172.65	80.19	65.507	
5,800.00	4,670.80	3,329.78	3,147.34	68.39	21.63	72.15	-3,270.80	5,449.60	5,262.79	5,179.84	82.95	63.444	
5,900.00	4,743.76	3,390.88	3,203.42	69.90	22.14	72.44	-3,276.37	5,473.22	5,273.15	5,188.26	84.89	62.117	
6,000.00	4,816.71	3,515.07	3,317.78	71.41	23.15	73.05	-3,288.17	5,520.18	5,283.75	5,196.33	87.42	60.442	
6,100.00	4,889.67	3,574.00	3,372.06	72.93	23.63	73.33	-3,293.49	5,542.49	5,294.50	5,205.16	89.34	59.264	
6,200.00	4,962.63	3,626.96	3,420.63	74.44	24.08	73.58	-3,298.34	5,563.02	5,306.19	5,214.98	91.21	58.178	
6,300.00	5,035.59	6,300.00	3,503.63	75.95	46.86	74.00	-3,307.05	5,599.24	5,318.95	5,207.77	111.18	47.840	
6,400.00	5,108.54	3,846.69	3,621.72	77.47	25.93	74.61	-3,318.98	5,649.14	5,331.17	5,235.10	96.07	55.495	
6,500.00	5,181.50	3,938.49	3,706.36	78.98	26.67	75.05	-3,328.10	5,683.50	5,343.73	5,245.42	98.31	54.356	
6,600.00	5,254.46	4,064.98	3,823.00	80.49	27.70	75.65	-3,340.04	5,730.94	5,356.29	5,255.39	100.90	53.085	
6,700.00	5,327.41	4,191.36	3,939.71	82.01	28.72	76.25	-3,351.26	5,778.11	5,368.72	5,265.22	103.49	51.875	
6,800.00	5,400.37	4,276.07	4,018.11	83.52	29.40	76.65	-3,358.38	5,809.40	5,380.90	5,275.22	105.68	50.916	
6,900.00	5,473.33	4,330.44	4,068.40	85.04	29.83	76.91	-3,363.31	5,829.47	5,393.96	5,286.39	107.57	50.143	
7,000.00	5,546.28	4,406.03	4,138.20	86.55	30.44	77.27	-3,370.40	5,857.59	5,407.77	5,298.10	109.67	49.310	
7,100.00	5,619.24	4,497.49	4,222.34	88.06	31.20	77.69	-3,378.66	5,892.48	5,422.05	5,310.11	111.94	48.437	
7,200.00	5,692.20	4,555.03	4,275.04	89.58	31.68	77.94	-3,383.58	5,915.06	5,436.79	5,322.93	113.86	47.749	
7,300.00	5,765.15	6,022.00	5,697.97	91.09	39.11	86.46	-3,456.89	6,216.83	5,447.77	5,323.41	124.36	43.806	
7,400.00	5,838.11	6,142.94	5,818.91	92.61	39.34	87.32	-3,456.43	6,217.46	5,442.53	5,316.17	126.36	43.072	
7,500.00	5,911.07	6,218.35	5,894.31	94.12	39.46	87.87	-3,456.21	6,217.04	5,437.92	5,309.65	128.27	42.396	
7,600.00	5,984.03	6,295.99	5,971.95	95.64	39.59	88.43	-3,455.93	6,216.58	5,434.12	5,303.96	130.16	41.749	
7,700.00	6,056.98	6,371.65	6,047.61	97.15	39.73	88.98	-3,455.57	6,216.20	5,431.13	5,299.08	132.05	41.131	
7,800.00	6,129.94	6,445.53	6,121.48	98.67	39.86	89.51	-3,455.17	6,215.88	5,428.97	5,295.06	133.91	40.541	
7,900.00	6,202.90	6,520.11	6,196.07	100.18	39.99	90.05	-3,454.75	6,215.57	5,427.68	5,291.91	135.77	39.978	
8,000.00	6,275.85	6,602.84	6,278.79	101.70	40.14	90.65	-3,454.16	6,215.28	5,427.16	5,289.55	137.62	39.437	
8,014.58	6,286.49	6,614.92	6,290.87	101.92	40.16	90.73	-3,454.05	6,215.24	5,427.15	5,289.26	137.88	39.360	
8,100.00	6,348.81	6,675.10	6,351.05	103.21	40.27	91.17	-3,453.57	6,215.04	5,427.45	5,288.01	139.44	38.924	
8,200.00	6,421.77	6,745.82	6,421.77	104.73	40.41	91.68	-3,452.98	6,214.90	5,428.61	5,287.37	141.24	38.436	
8,300.00	6,494.72	6,811.50	6,487.45	106.24	40.54	92.15	-3,452.36	6,215.13	5,430.68	5,287.66	143.02	37.972	
8,400.00	6,567.68	6,870.88	6,546.82	107.76	40.67	92.57	-3,451.79	6,215.80	5,433.76	5,288.99	144.77	37.533	
8,500.00	6,640.64	6,941.18	6,617.11	109.27	40.82	93.07	-3,451.11	6,217.07	5,437.80	5,291.27	146.53	37.110	
8,600.00	6,713.59	7,027.98	6,703.87	110.79	41.02	93.68	-3,450.16	6,218.86	5,442.64	5,294.33	148.31	36.697	
8,700.00	6,786.55	7,130.32	6,806.20	112.30	41.25	94.40	-3,448.73	6,220.52	5,447.98	5,297.88	150.10	36.296	
8,800.00	6,859.51	7,210.70	6,886.56	113.82	41.43	94.96	-3,447.33	6,221.64	5,453.84	5,302.02	151.82	35.923	
8,900.00	6,932.46	7,286.54	6,962.38	115.33	41.60	95.50	-3,446.06	6,222.62	5,460.56	5,307.05	153.51	35.571	
9,000.00	7,005.42	7,353.00	7,028.83	116.85	41.74	95.97	-3,444.90	6,223.19	5,467.97	5,312.81	155.16	35.242	
9,104.89	7,081.95	7,402.53	7,078.35	118.44	41.84	96.32	-3,444.24	6,223.40	5,476.91	5,320.10	156.81	34.928	
9,150.00	7,115.15	7,419.38	7,095.20	119.12	41.87	91.70	-3,444.13	6,223.43	5,479.46	5,321.96	157.50	34.791	
9,200.00	7,152.46	7,448.00	7,123.82	119.86	41.93	86.34	-3,444.08	6,223.42	5,478.52	5,320.25	158.28	34.614	
9,250.00	7,190.04	7,480.06	7,155.88	120.57	42.00	80.79	-3,444.07	6,223.34	5,473.54	5,314.49	159.04	34.416	
9,300.00	7,227.59	7,546.13	7,221.95	121.25	42.12	75.43	-3,443.83	6,223.01	5,464.34	5,304.48	159.85	34.183	
9,350.00	7,264.83	7,612.33	7,288.14	121.89	42.25	70.18	-3,443.27	6,222.42	5,450.92	5,290.29	160.63	33.934	
9,400.00	7,301.48	9,400.00	7,373.27	122.48	45.74	65.31	-3,441.80	6,221.37	5,433.11	5,268.15	164.97	32.935	
9,450.00	7,337.26	7,768.05	7,443.82	123.01	42.56	60.67	-3,440.15	6,220.48	5,411.37	5,249.27	162.10	33.383	
9,500.00	7,371.90	7,799.43	7,475.19	123.49	42.62	56.13	-3,439.33	6,220.11	5,385.89	5,223.20	162.69	33.105	
9,550.00	7,405.13	7,823.00	7,498.75	123.91	42.67	51.90	-3,438.72	6,219.85	5,356.93	5,193.71	163.22	32.820	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,600.00	7,436.70	7,823.00	7,498.75	124.27	42.67	47.83	-3,438.72	6,219.85	5,324.79	5,161.14	163.66	32.536	
9,650.00	7,466.36	7,823.00	7,498.75	124.57	42.67	44.03	-3,438.72	6,219.85	5,289.72	5,125.68	164.04	32.247	
9,700.00	7,493.91	7,854.27	7,530.01	124.81	42.73	40.72	-3,438.08	6,219.64	5,251.65	5,087.23	164.42	31.940	
9,750.00	7,519.11	7,862.64	7,538.37	125.00	42.75	37.29	-3,437.97	6,219.63	5,211.20	5,046.49	164.71	31.639	
9,800.00	7,541.79	7,870.23	7,545.97	125.12	42.77	33.76	-3,437.88	6,219.63	5,168.49	5,003.56	164.94	31.336	
9,850.00	7,561.77	7,876.98	7,552.72	125.20	42.78	29.82	-3,437.82	6,219.65	5,123.81	4,958.70	165.12	31.031	
9,900.00	7,578.90	7,882.82	7,558.56	125.23	42.80	24.96	-3,437.78	6,219.68	5,077.46	4,912.22	165.25	30.727	
9,950.00	7,593.04	7,887.69	7,563.43	125.22	42.81	18.06	-3,437.76	6,219.71	5,029.76	4,864.44	165.33	30.423	
10,000.00	7,604.09	7,918.00	7,593.74	125.17	42.87	6.57	-3,437.79	6,220.02	4,981.26	4,815.83	165.43	30.111	
10,050.00	7,611.97	7,918.00	7,593.74	125.08	42.87	-17.59	-3,437.79	6,220.02	4,931.85	4,766.43	165.42	29.814	
10,100.00	7,616.61	7,918.00	7,593.74	124.97	42.87	-60.13	-3,437.79	6,220.02	4,882.17	4,716.79	165.38	29.521	
10,145.95	7,618.00	7,918.00	7,593.74	124.84	42.87	-91.63	-3,437.79	6,220.02	4,836.60	4,671.28	165.32	29.256	
10,200.00	7,618.00	7,918.00	7,593.74	124.69	42.87	-91.63	-3,437.79	6,220.02	4,783.17	4,617.94	165.23	28.949	
10,300.00	7,618.00	7,918.00	7,593.74	124.41	42.87	-91.63	-3,437.79	6,220.02	4,684.36	4,519.30	165.06	28.380	
10,400.00	7,618.00	7,918.00	7,593.74	124.14	42.87	-91.63	-3,437.79	6,220.02	4,585.60	4,420.71	164.88	27.811	
10,500.00	7,618.00	7,918.00	7,593.74	123.88	42.87	-91.63	-3,437.79	6,220.02	4,486.89	4,322.19	164.69	27.244	
10,600.00	7,618.00	7,918.00	7,593.74	123.63	42.87	-91.63	-3,437.79	6,220.02	4,388.24	4,223.74	164.50	26.676	
10,700.00	7,618.00	7,918.00	7,593.74	123.40	42.87	-91.63	-3,437.79	6,220.02	4,289.65	4,125.36	164.29	26.110	
10,800.00	7,618.00	7,918.00	7,593.74	123.18	42.87	-91.63	-3,437.79	6,220.02	4,191.13	4,027.06	164.08	25.544	
10,900.00	7,618.00	7,918.00	7,593.74	122.96	42.87	-91.63	-3,437.79	6,220.02	4,092.68	3,928.84	163.85	24.979	
11,000.00	7,618.00	7,918.00	7,593.74	122.76	42.87	-91.63	-3,437.79	6,220.02	3,994.31	3,830.71	163.61	24.414	
11,100.00	7,618.00	7,918.00	7,593.74	122.57	42.87	-91.63	-3,437.79	6,220.02	3,896.02	3,732.67	163.35	23.851	
11,200.00	7,618.00	7,918.00	7,593.74	122.39	42.87	-91.63	-3,437.79	6,220.02	3,797.83	3,634.75	163.08	23.288	
11,300.00	7,618.00	7,918.00	7,593.74	122.23	42.87	-91.63	-3,437.79	6,220.02	3,699.72	3,536.93	162.79	22.727	
11,400.00	7,618.00	7,918.00	7,593.74	122.07	42.87	-91.63	-3,437.79	6,220.02	3,601.73	3,439.24	162.49	22.166	
11,500.00	7,618.00	7,918.00	7,593.74	121.93	42.87	-91.63	-3,437.79	6,220.02	3,503.84	3,341.68	162.16	21.607	
11,600.00	7,618.00	7,918.00	7,593.74	121.79	42.87	-91.63	-3,437.79	6,220.02	3,406.08	3,244.26	161.82	21.049	
11,700.00	7,618.00	7,918.00	7,593.74	121.67	42.87	-91.63	-3,437.79	6,220.02	3,308.45	3,147.00	161.45	20.492	
11,800.00	7,618.00	7,895.55	7,571.29	121.56	42.82	-89.87	-3,437.74	6,219.76	3,210.80	3,049.79	161.01	19.942	
11,900.00	7,618.00	7,895.49	7,571.23	121.46	42.82	-89.86	-3,437.74	6,219.76	3,113.47	2,952.89	160.58	19.389	
12,000.00	7,618.00	7,895.42	7,571.16	121.38	42.82	-89.85	-3,437.74	6,219.76	3,016.32	2,856.19	160.13	18.837	
12,100.00	7,618.00	7,895.36	7,571.09	121.30	42.82	-89.85	-3,437.74	6,219.76	2,919.36	2,759.72	159.64	18.288	
12,200.00	7,618.00	7,895.28	7,571.02	121.24	42.82	-89.84	-3,437.74	6,219.76	2,822.61	2,663.51	159.11	17.740	
12,300.00	7,618.00	7,895.21	7,570.95	121.19	42.82	-89.84	-3,437.74	6,219.76	2,726.10	2,567.57	158.53	17.196	
12,400.00	7,618.00	7,895.14	7,570.87	121.16	42.82	-89.83	-3,437.74	6,219.76	2,629.85	2,471.94	157.91	16.654	
12,500.00	7,618.00	7,895.06	7,570.80	121.14	42.82	-89.83	-3,437.74	6,219.76	2,533.89	2,376.66	157.23	16.116	
12,600.00	7,618.00	7,894.98	7,570.72	121.13	42.82	-89.82	-3,437.74	6,219.76	2,438.26	2,281.76	156.49	15.581	
12,700.00	7,618.00	7,894.90	7,570.63	121.13	42.82	-89.81	-3,437.74	6,219.76	2,342.98	2,187.31	155.68	15.050	
12,800.00	7,618.00	7,894.81	7,570.55	121.15	42.82	-89.81	-3,437.74	6,219.76	2,248.12	2,093.34	154.79	14.524	
12,900.00	7,618.00	7,894.72	7,570.46	121.18	42.82	-89.80	-3,437.74	6,219.76	2,153.73	1,999.93	153.80	14.003	
13,000.00	7,618.00	7,894.63	7,570.36	121.23	42.82	-89.79	-3,437.74	6,219.76	2,059.86	1,907.15	152.71	13.489	
13,100.00	7,618.00	7,894.53	7,570.27	121.29	42.82	-89.78	-3,437.74	6,219.76	1,966.60	1,815.10	151.50	12.981	
13,200.00	7,618.00	7,894.43	7,570.17	121.37	42.82	-89.78	-3,437.74	6,219.75	1,874.03	1,723.89	150.14	12.482	
13,300.00	7,618.00	7,894.33	7,570.07	121.46	42.82	-89.77	-3,437.74	6,219.75	1,782.27	1,633.65	148.62	11.992	
13,400.00	7,618.00	7,894.22	7,569.96	121.57	42.82	-89.76	-3,437.74	6,219.75	1,691.44	1,544.52	146.92	11.513	
13,500.00	7,618.00	7,894.11	7,569.85	121.70	42.82	-89.75	-3,437.74	6,219.75	1,601.70	1,456.71	144.99	11.047	
13,600.00	7,618.00	7,893.99	7,569.73	121.84	42.82	-89.74	-3,437.74	6,219.75	1,513.25	1,370.45	142.81	10.597	
13,700.00	7,618.00	7,893.87	7,569.61	122.01	42.82	-89.73	-3,437.74	6,219.75	1,426.33	1,286.01	140.32	10.165	
13,800.00	7,618.00	7,893.75	7,569.48	122.19	42.82	-89.72	-3,437.74	6,219.75	1,341.23	1,203.74	137.50	9.755	
13,900.00	7,618.00	7,893.61	7,569.35	122.39	42.82	-89.71	-3,437.74	6,219.75	1,258.33	1,124.05	134.28	9.371	
14,000.00	7,618.00	7,893.48	7,569.21	122.62	42.82	-89.70	-3,437.74	6,219.75	1,178.08	1,047.45	130.63	9.019	
14,100.00	7,618.00	7,893.33	7,569.07	122.86	42.82	-89.69	-3,437.74	6,219.75	1,101.07	974.56	126.52	8.703	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,200.00	7,618.00	7,893.18	7,568.92	123.12	42.82	-89.68	-3,437.74	6,219.74	1,028.03	906.07	121.96	8.429	
14,300.00	7,618.00	7,893.03	7,568.76	123.41	42.82	-89.67	-3,437.74	6,219.74	959.86	842.79	117.07	8.199	
14,400.00	7,618.00	7,892.86	7,568.60	123.72	42.82	-89.65	-3,437.75	6,219.74	897.67	785.58	112.09	8.008	
14,500.00	7,618.00	7,892.69	7,568.42	124.06	42.82	-89.64	-3,437.75	6,219.74	842.79	735.23	107.56	7.836	
14,600.00	7,618.00	7,892.50	7,568.24	124.42	42.82	-89.62	-3,437.75	6,219.74	796.73	692.44	104.29	7.639	
14,700.00	7,618.00	7,892.31	7,568.05	124.80	42.82	-89.61	-3,437.75	6,219.74	761.10	657.75	103.35	7.364	
14,800.00	7,618.00	7,892.11	7,567.85	125.21	42.82	-89.59	-3,437.75	6,219.74	737.40	631.79	105.60	6.983	
14,900.00	7,618.00	7,891.90	7,567.63	125.65	42.82	-89.58	-3,437.75	6,219.73	726.80	615.60	111.20	6.536	
14,927.58	7,618.00	7,891.83	7,567.57	125.77	42.82	-89.57	-3,437.75	6,219.73	726.27	613.03	113.24	6.414 CC	
15,000.00	7,618.00	7,891.67	7,567.41	126.11	42.82	-89.56	-3,437.75	6,219.73	729.88	610.53	119.34	6.116 ES	
15,100.00	7,618.00	7,891.43	7,567.17	126.61	42.82	-89.54	-3,437.75	6,219.73	746.46	617.75	128.71	5.799	
15,200.00	7,618.00	7,891.18	7,566.91	127.13	42.82	-89.52	-3,437.75	6,219.73	775.68	637.65	138.04	5.619	
15,300.00	7,618.00	7,890.91	7,566.64	127.68	42.81	-89.50	-3,437.75	6,219.73	816.19	669.74	146.46	5.573 SF	
15,400.00	7,618.00	7,890.62	7,566.36	128.26	42.81	-89.48	-3,437.75	6,219.72	866.40	712.83	153.58	5.642	
15,500.00	7,618.00	7,890.31	7,566.05	128.87	42.81	-89.45	-3,437.75	6,219.72	924.74	765.39	159.34	5.803	
15,600.00	7,618.00	7,889.99	7,565.72	129.51	42.81	-89.43	-3,437.75	6,219.72	989.76	825.86	163.89	6.039	
15,700.00	7,618.00	7,889.64	7,565.37	130.18	42.81	-89.40	-3,437.75	6,219.72	1,060.24	892.82	167.42	6.333	
15,800.00	7,618.00	7,889.26	7,565.00	130.88	42.81	-89.37	-3,437.76	6,219.72	1,135.16	965.03	170.13	6.672	
15,900.00	7,618.00	7,888.85	7,564.59	131.61	42.81	-89.34	-3,437.76	6,219.71	1,213.70	1,041.51	172.19	7.048	
16,000.00	7,618.00	7,888.41	7,564.15	132.37	42.81	-89.30	-3,437.76	6,219.71	1,295.20	1,121.44	173.77	7.454	
16,100.00	7,618.00	7,887.94	7,563.68	133.17	42.81	-89.26	-3,437.76	6,219.71	1,379.14	1,204.18	174.96	7.883	
16,200.00	7,618.00	7,887.42	7,563.16	133.99	42.81	-89.22	-3,437.76	6,219.70	1,465.10	1,289.23	175.87	8.331	
16,300.00	7,618.00	7,886.86	7,562.60	134.84	42.81	-89.18	-3,437.76	6,219.70	1,552.74	1,376.19	176.55	8.795	
16,400.00	7,618.00	7,886.24	7,561.98	135.72	42.80	-89.13	-3,437.77	6,219.70	1,641.79	1,464.73	177.06	9.273	
16,500.00	7,618.00	7,885.57	7,561.30	136.63	42.80	-89.08	-3,437.77	6,219.69	1,732.04	1,554.60	177.44	9.761	
16,600.00	7,618.00	7,884.82	7,560.55	137.57	42.80	-89.02	-3,437.77	6,219.69	1,823.30	1,645.58	177.72	10.259	
16,700.00	7,618.00	7,883.98	7,559.72	138.54	42.80	-88.95	-3,437.78	6,219.68	1,915.44	1,737.52	177.92	10.766	
16,800.00	7,618.00	7,883.05	7,558.79	139.53	42.80	-88.88	-3,437.78	6,219.68	2,008.33	1,830.27	178.06	11.279	
16,900.00	7,618.00	7,882.00	7,557.74	140.55	42.79	-88.80	-3,437.79	6,219.67	2,101.87	1,923.72	178.15	11.798	
17,000.00	7,618.00	7,880.82	7,556.55	141.60	42.79	-88.70	-3,437.80	6,219.67	2,195.98	2,017.77	178.21	12.323	
17,100.00	7,618.00	7,879.46	7,555.20	142.67	42.79	-88.60	-3,437.81	6,219.66	2,290.59	2,112.36	178.24	12.851	
17,200.00	7,618.00	7,877.89	7,553.63	143.77	42.79	-88.47	-3,437.82	6,219.66	2,385.64	2,207.40	178.24	13.384	
17,300.00	7,618.00	7,876.07	7,551.80	144.88	42.78	-88.33	-3,437.83	6,219.65	2,481.08	2,302.85	178.23	13.921	
17,400.00	7,618.00	7,873.91	7,549.64	146.02	42.78	-88.16	-3,437.85	6,219.64	2,576.86	2,398.66	178.20	14.460	
17,500.00	7,618.00	7,871.32	7,547.05	147.19	42.77	-87.95	-3,437.87	6,219.64	2,672.95	2,494.78	178.17	15.002	
17,600.00	7,618.00	7,868.15	7,543.88	148.37	42.76	-87.70	-3,437.90	6,219.63	2,769.32	2,591.19	178.13	15.547	
17,700.00	7,618.00	7,864.18	7,539.92	149.57	42.76	-87.39	-3,437.95	6,219.63	2,865.93	2,687.86	178.08	16.094	
17,800.00	7,618.00	7,859.09	7,534.83	150.79	42.74	-86.99	-3,438.01	6,219.63	2,962.77	2,784.74	178.03	16.642	
17,900.00	7,618.00	7,852.29	7,528.03	152.03	42.73	-86.46	-3,438.11	6,219.65	3,059.81	2,881.83	177.98	17.192	
18,000.00	7,618.00	7,842.78	7,518.52	153.29	42.71	-85.71	-3,438.28	6,219.69	3,157.03	2,979.10	177.93	17.743	
18,100.00	7,618.00	7,828.49	7,504.24	154.57	42.68	-84.59	-3,438.59	6,219.79	3,254.41	3,076.52	177.89	18.295	
18,200.00	7,618.00	7,821.13	7,496.88	155.86	42.66	-84.02	-3,438.77	6,219.87	3,351.94	3,174.11	177.83	18.849	
18,300.00	7,618.00	7,818.52	7,494.26	157.17	42.66	-83.81	-3,438.84	6,219.90	3,449.60	3,271.84	177.76	19.406	
18,400.00	7,618.00	7,815.89	7,491.64	158.49	42.65	-83.61	-3,438.91	6,219.93	3,547.39	3,369.70	177.69	19.964	
18,500.00	7,618.00	7,813.26	7,489.01	159.82	42.65	-83.41	-3,438.97	6,219.96	3,645.31	3,467.68	177.62	20.523	
18,600.00	7,618.00	7,810.63	7,486.38	161.17	42.64	-83.20	-3,439.04	6,219.99	3,743.32	3,565.77	177.56	21.082	
18,700.00	7,618.00	7,807.99	7,483.74	162.54	42.64	-83.00	-3,439.11	6,220.02	3,841.44	3,663.95	177.49	21.643	
18,800.00	7,618.00	7,805.34	7,481.10	163.91	42.63	-82.79	-3,439.18	6,220.05	3,939.66	3,762.23	177.43	22.204	
18,900.00	7,618.00	7,802.69	7,478.45	165.30	42.63	-82.59	-3,439.25	6,220.08	4,037.96	3,860.59	177.37	22.766	
19,000.00	7,618.00	7,800.04	7,475.79	166.70	42.62	-82.38	-3,439.32	6,220.11	4,136.34	3,959.03	177.31	23.329	
19,100.00	7,618.00	7,797.38	7,473.13	168.10	42.61	-82.17	-3,439.39	6,220.14	4,234.79	4,057.54	177.25	23.892	
19,200.00	7,618.00	7,794.71	7,470.47	169.52	42.61	-81.97	-3,439.46	6,220.17	4,333.31	4,156.12	177.19	24.456	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
19,300.00	7,618.00	7,792.04	7,467.79	170.95	42.60	-81.76	-3,439.52	6,220.20	4,431.90	4,254.76	177.13	25.020	
19,400.00	7,618.00	7,789.36	7,465.12	172.39	42.60	-81.56	-3,439.59	6,220.23	4,530.55	4,353.47	177.08	25.585	
19,500.00	7,618.00	7,786.67	7,462.43	173.84	42.59	-81.35	-3,439.66	6,220.26	4,629.25	4,452.22	177.03	26.150	
19,600.00	7,618.00	7,783.98	7,459.74	175.30	42.59	-81.14	-3,439.73	6,220.29	4,728.01	4,551.03	176.98	26.716	
19,700.00	7,618.00	7,781.29	7,457.05	176.76	42.58	-80.94	-3,439.81	6,220.32	4,826.81	4,649.89	176.93	27.281	
19,800.00	7,618.00	7,778.59	7,454.35	178.24	42.58	-80.73	-3,439.88	6,220.36	4,925.67	4,748.79	176.88	27.848	
19,896.19	7,618.00	7,775.98	7,451.75	179.66	42.57	-80.53	-3,439.94	6,220.39	5,020.79	4,843.96	176.83	28.393	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	81.81	772.14	5,365.24	5,421.23				
100.00	100.00	12.00	12.00	0.13	0.09	81.81	772.14	5,365.24	5,420.52	5,420.29	0.23	N/A	
200.00	200.00	112.00	112.00	0.49	0.99	81.81	772.14	5,365.24	5,420.52	5,419.04	1.48	3,664.964	
300.00	299.98	211.98	211.98	0.85	2.73	12.51	772.14	5,365.24	5,418.82	5,415.24	3.58	1,513.918	
400.00	399.84	311.84	311.84	1.21	4.47	12.54	772.14	5,365.24	5,413.71	5,408.03	5.68	952.712	
500.00	499.45	411.45	411.45	1.58	6.21	12.60	772.14	5,365.24	5,405.20	5,397.41	7.79	694.279	
600.00	598.70	510.70	510.70	1.97	7.94	12.68	772.14	5,365.24	5,393.30	5,383.42	9.89	545.593	
700.00	697.47	609.47	609.47	2.38	9.67	12.78	772.14	5,365.24	5,378.04	5,366.06	11.98	448.910	
800.00	795.62	707.62	707.62	2.83	11.38	12.91	772.14	5,365.24	5,359.42	5,345.35	14.07	380.942	
900.00	893.06	805.06	805.06	3.31	13.08	13.07	772.14	5,365.24	5,337.47	5,321.32	16.15	330.498	
1,000.00	989.64	901.64	901.64	3.83	14.77	13.25	772.14	5,365.24	5,312.23	5,294.00	18.22	291.535	
1,100.00	1,085.27	1,002.73	997.27	4.40	16.53	13.46	772.14	5,365.24	5,283.72	5,263.34	20.38	259.283	
1,200.00	1,179.82	1,108.18	1,091.82	5.02	18.37	13.70	772.14	5,365.24	5,251.98	5,229.36	22.62	232.204	
1,300.00	1,273.17	1,185.17	1,185.17	5.70	19.72	13.97	772.14	5,365.24	5,217.05	5,192.68	24.37	214.092	
1,400.00	1,365.21	1,277.21	1,277.21	6.43	21.32	14.28	772.14	5,365.24	5,178.99	5,152.60	26.39	196.252	
1,500.00	1,455.84	1,367.84	1,367.84	7.23	22.90	14.62	772.14	5,365.24	5,137.84	5,109.44	28.39	180.945	
1,600.00	1,544.94	1,456.94	1,456.94	8.09	24.46	15.00	772.14	5,365.24	5,093.65	5,063.27	30.38	167.656	
1,700.00	1,632.39	1,544.39	1,544.39	9.01	25.99	15.42	772.14	5,365.24	5,046.48	5,014.13	32.35	155.999	
1,800.00	1,718.11	1,630.11	1,630.11	10.00	27.48	15.89	772.14	5,365.24	4,996.41	4,962.11	34.30	145.682	
1,900.00	1,801.97	1,713.97	1,713.97	11.07	28.95	16.41	772.14	5,365.24	4,943.48	4,907.26	36.22	136.478	
2,000.00	1,883.88	1,804.12	1,795.88	12.20	30.52	16.99	772.14	5,365.24	4,887.78	4,849.52	38.27	127.727	
2,100.00	1,963.74	1,875.74	1,875.74	13.41	31.77	17.62	772.14	5,365.24	4,829.38	4,789.38	40.00	120.733	
2,200.00	2,041.45	1,953.45	1,953.45	14.69	33.13	18.33	772.14	5,365.24	4,768.36	4,726.51	41.85	113.934	
2,300.00	2,116.92	2,028.92	2,028.92	16.05	34.44	19.10	772.14	5,365.24	4,704.80	4,661.13	43.68	107.719	
2,357.48	2,159.25	2,071.25	2,071.25	16.86	35.18	19.59	772.14	5,365.24	4,667.15	4,622.44	44.71	104.376	
2,400.00	2,190.27	2,102.27	2,102.27	17.47	35.72	19.70	772.14	5,365.24	4,639.01	4,593.53	45.48	102.005	
2,500.00	2,263.22	2,175.22	2,175.22	18.92	37.00	19.98	772.14	5,365.24	4,572.88	4,525.60	47.28	96.724	
2,600.00	2,336.18	2,248.18	2,248.18	20.37	38.27	20.27	772.14	5,365.24	4,506.81	4,457.71	49.09	91.804	
2,700.00	2,409.14	2,321.14	2,321.14	21.84	39.54	20.57	772.14	5,365.24	4,440.81	4,389.89	50.92	87.213	
2,800.00	2,482.09	2,405.91	2,394.09	23.31	41.02	20.87	772.14	5,365.24	4,374.88	4,321.91	52.97	82.597	
2,900.00	2,555.05	2,467.05	2,467.05	24.78	42.09	21.19	772.14	5,365.24	4,309.03	4,254.42	54.62	78.897	
3,000.00	2,628.01	2,540.01	2,540.01	26.27	43.36	21.51	772.14	5,365.24	4,243.26	4,186.78	56.48	75.123	
3,100.00	2,700.96	2,612.96	2,612.96	27.75	44.64	21.84	772.14	5,365.24	4,177.58	4,119.21	58.37	71.575	
3,200.00	2,773.92	2,685.92	2,685.92	29.24	45.91	22.19	772.14	5,365.24	4,111.98	4,051.72	60.26	68.234	
3,300.00	2,846.88	2,758.88	2,758.88	30.73	47.18	22.54	772.14	5,365.24	4,046.48	3,984.30	62.17	65.083	
3,400.00	2,919.83	2,831.83	2,831.83	32.23	48.46	22.90	772.14	5,365.24	3,981.07	3,916.97	64.10	62.108	
3,500.00	2,992.79	2,904.79	2,904.79	33.72	49.73	23.28	772.14	5,365.24	3,915.77	3,849.73	66.04	59.293	
3,600.00	3,065.75	2,977.75	2,977.75	35.22	51.00	23.67	772.14	5,365.24	3,850.57	3,782.57	68.00	56.628	
3,700.00	3,138.71	3,050.71	3,050.71	36.72	52.28	24.06	772.14	5,365.24	3,785.49	3,715.52	69.97	54.101	
3,800.00	3,211.66	3,123.66	3,123.66	38.22	53.55	24.48	772.14	5,365.24	3,720.52	3,648.56	71.96	51.702	
3,900.00	3,284.62	3,203.38	3,196.62	39.72	54.94	24.90	772.14	5,365.24	3,655.68	3,581.59	74.09	49.343	
4,000.00	3,357.58	3,269.58	3,269.58	41.22	56.10	25.34	772.14	5,365.24	3,590.97	3,514.97	76.00	47.251	
4,100.00	3,430.53	3,342.53	3,342.53	42.73	57.37	25.80	772.14	5,365.24	3,526.40	3,448.35	78.04	45.185	
4,200.00	3,503.49	3,415.49	3,415.49	44.23	58.64	26.26	772.14	5,365.24	3,461.98	3,381.86	80.11	43.214	
4,300.00	3,576.45	3,488.45	3,488.45	45.74	59.92	26.75	772.14	5,365.24	3,397.71	3,315.50	82.20	41.333	
4,400.00	3,649.40	3,561.40	3,561.40	47.25	61.19	27.25	772.14	5,365.24	3,333.60	3,249.28	84.32	39.536	
4,500.00	3,722.36	3,634.36	3,634.36	48.75	62.46	27.77	772.14	5,365.24	3,269.67	3,183.21	86.46	37.818	
4,600.00	3,795.32	3,707.32	3,707.32	50.26	63.74	28.31	772.14	5,365.24	3,205.92	3,117.30	88.62	36.175	
4,700.00	3,868.27	3,780.27	3,780.27	51.77	65.01	28.87	772.14	5,365.24	3,142.37	3,051.56	90.82	34.602	
4,800.00	3,941.23	3,853.23	3,853.23	53.28	66.28	29.45	772.14	5,365.24	3,079.03	2,985.99	93.04	33.094	
4,900.00	4,014.19	3,926.19	3,926.19	54.79	67.56	30.05	772.14	5,365.24	3,015.90	2,920.61	95.29	31.649	
5,000.00	4,087.15	4,000.85	3,999.15	56.30	68.86	30.67	772.14	5,365.24	2,953.01	2,855.40	97.61	30.253	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,160.10	4,072.10	4,072.10	57.81	70.10	31.32	772.14	5,365.24	2,890.38	2,790.47	99.91	28.931	
5,200.00	4,233.06	4,145.06	4,145.06	59.32	71.38	31.99	772.14	5,365.24	2,828.00	2,725.74	102.27	27.653	
5,300.00	4,306.02	4,218.02	4,218.02	60.83	72.65	32.69	772.14	5,365.24	2,765.91	2,661.25	104.67	26.425	
5,400.00	4,378.97	4,309.03	4,290.97	62.34	74.24	33.41	772.14	5,365.24	2,704.13	2,596.70	107.43	25.171	
5,500.00	4,451.93	4,363.93	4,363.93	63.85	75.20	34.17	772.14	5,365.24	2,642.67	2,533.07	109.60	24.111	
5,600.00	4,524.89	4,436.89	4,436.89	65.36	76.47	34.95	772.14	5,365.24	2,581.56	2,469.42	112.14	23.020	
5,700.00	4,597.84	4,509.84	4,509.84	66.88	77.74	35.77	772.14	5,365.24	2,520.83	2,406.09	114.74	21.971	
5,800.00	4,670.80	4,582.80	4,582.80	68.39	79.02	36.62	772.14	5,365.24	2,460.49	2,343.11	117.38	20.961	
5,900.00	4,743.76	4,655.76	4,655.76	69.90	80.29	37.50	772.14	5,365.24	2,400.59	2,280.50	120.09	19.990	
6,000.00	4,816.71	4,728.71	4,728.71	71.41	81.56	38.42	772.14	5,365.24	2,341.15	2,218.29	122.86	19.056	
6,100.00	4,889.67	4,801.67	4,801.67	72.93	82.84	39.38	772.14	5,365.24	2,282.22	2,156.52	125.70	18.157	
6,200.00	4,962.63	4,874.63	4,874.63	74.44	84.11	40.39	772.14	5,365.24	2,223.82	2,095.22	128.60	17.292	
6,300.00	5,035.59	4,947.59	4,947.59	75.95	85.38	41.43	772.14	5,365.24	2,166.01	2,034.43	131.58	16.461	
6,400.00	5,108.54	5,020.54	5,020.54	77.47	86.66	42.52	772.14	5,365.24	2,108.84	1,974.19	134.65	15.662	
6,500.00	5,181.50	5,106.50	5,093.50	78.98	88.16	43.66	772.14	5,365.24	2,052.35	1,914.33	138.02	14.870	
6,600.00	5,254.46	5,166.46	5,166.46	80.49	89.20	44.85	772.14	5,365.24	1,996.60	1,855.58	141.03	14.157	
6,700.00	5,327.41	5,239.41	5,239.41	82.01	90.48	46.09	772.14	5,365.24	1,941.67	1,797.31	144.36	13.450	
6,800.00	5,400.37	5,312.37	5,312.37	83.52	91.75	47.38	772.14	5,365.24	1,887.61	1,739.83	147.78	12.773	
6,900.00	5,473.33	5,385.33	5,385.33	85.04	93.02	48.73	772.14	5,365.24	1,834.51	1,683.20	151.31	12.124	
7,000.00	5,546.28	5,458.28	5,458.28	86.55	94.30	50.13	772.14	5,365.24	1,782.45	1,627.51	154.95	11.504	
7,100.00	5,619.24	5,531.24	5,531.24	88.06	95.57	51.60	772.14	5,365.24	1,731.53	1,572.84	158.69	10.911	
7,200.00	5,692.20	5,604.20	5,604.20	89.58	96.84	53.13	772.14	5,365.24	1,681.85	1,519.31	162.54	10.347	
7,300.00	5,765.15	5,677.15	5,677.15	91.09	98.12	54.72	772.14	5,365.24	1,633.53	1,467.02	166.51	9.811	
7,400.00	5,838.11	5,750.11	5,750.11	92.61	99.39	56.38	772.14	5,365.24	1,586.67	1,416.09	170.58	9.302	
7,500.00	5,911.07	5,823.07	5,823.07	94.12	100.66	58.10	772.14	5,365.24	1,541.43	1,366.67	174.76	8.820	
7,600.00	5,984.03	5,903.98	5,896.03	95.64	102.08	59.89	772.14	5,365.24	1,497.95	1,318.77	179.18	8.360	
7,700.00	6,056.98	5,968.98	5,968.98	97.15	103.21	61.75	772.14	5,365.24	1,456.38	1,272.96	183.42	7.940	
7,800.00	6,129.94	6,041.94	6,041.94	98.67	104.48	63.68	772.14	5,365.24	1,416.90	1,229.02	187.87	7.542	
7,900.00	6,202.90	6,114.90	6,114.90	100.18	105.76	65.67	772.14	5,365.24	1,379.67	1,187.29	192.39	7.171	
8,000.00	6,275.85	6,187.85	6,187.85	101.70	107.03	67.72	772.14	5,365.24	1,344.90	1,147.96	196.94	6.829	
8,100.00	6,348.81	6,260.81	6,260.81	103.21	108.30	69.84	772.14	5,365.24	1,312.77	1,111.26	201.51	6.515	
8,200.00	6,421.77	6,333.77	6,333.77	104.73	109.58	72.02	772.14	5,365.24	1,283.48	1,077.44	206.05	6.229	
8,300.00	6,494.72	6,406.72	6,406.72	106.24	110.85	74.25	772.14	5,365.24	1,257.24	1,046.71	210.53	5.972	
8,400.00	6,567.68	6,479.68	6,479.68	107.76	112.12	76.53	772.14	5,365.24	1,234.23	1,019.32	214.91	5.743	
8,500.00	6,640.64	6,552.64	6,552.64	109.27	113.40	78.86	772.14	5,365.24	1,214.64	995.49	219.15	5.543	
8,600.00	6,713.59	6,625.59	6,625.59	110.79	114.67	81.22	772.14	5,365.24	1,198.64	975.45	223.19	5.370	
8,700.00	6,786.55	6,701.45	6,698.55	112.30	115.99	83.62	772.14	5,365.24	1,186.37	959.33	227.05	5.225	
8,800.00	6,859.51	6,771.51	6,771.51	113.82	117.22	86.04	772.14	5,365.24	1,177.95	947.43	230.52	5.110	
8,900.00	6,932.46	6,844.46	6,844.46	115.33	118.49	88.47	772.14	5,365.24	1,173.47	939.74	233.73	5.021	
8,962.80	6,978.28	6,909.72	6,890.28	116.29	119.63	90.00	772.14	5,365.24	1,172.68	936.77	235.91	4.971	
9,000.00	7,005.42	6,917.42	6,917.42	116.85	119.76	90.91	772.14	5,365.24	1,172.96	936.35	236.60	4.958	
9,104.89	7,081.95	7,006.05	6,993.95	118.44	121.31	93.46	772.14	5,365.24	1,176.70	937.26	239.44	4.914	
9,150.00	7,115.15	7,027.15	7,027.15	119.12	121.68	89.80	772.14	5,365.24	1,177.91	937.66	240.24	4.903	
9,200.00	7,152.46	7,064.46	7,064.46	119.86	122.33	85.43	772.14	5,365.24	1,176.08	934.79	241.29	4.874	
9,250.00	7,190.04	7,102.04	7,102.04	120.57	122.99	80.87	772.14	5,365.24	1,170.89	928.62	242.26	4.833	
9,300.00	7,227.59	7,139.59	7,139.59	121.25	123.64	76.28	772.14	5,365.24	1,162.31	919.16	243.14	4.780	
9,350.00	7,264.83	7,176.83	7,176.83	121.89	124.29	71.83	772.14	5,365.24	1,150.35	906.42	243.93	4.716	
9,400.00	7,301.48	7,213.48	7,213.48	122.48	124.93	67.68	772.14	5,365.24	1,135.05	890.42	244.63	4.640	
9,450.00	7,337.26	7,249.26	7,249.26	123.01	125.55	63.92	772.14	5,365.24	1,116.45	871.24	245.22	4.553	
9,500.00	7,371.90	7,283.90	7,283.90	123.49	126.16	60.64	772.14	5,365.24	1,094.64	848.94	245.70	4.455	
9,550.00	7,405.13	7,317.13	7,317.13	123.91	126.74	57.89	772.14	5,365.24	1,069.71	823.64	246.07	4.347	
9,600.00	7,436.70	7,348.70	7,348.70	124.27	127.29	55.68	772.14	5,365.24	1,041.78	795.45	246.33	4.229	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	7,378.36	7,378.36	124.57	127.81	54.03	772.14	5,365.24	1,010.98	764.52	246.47	4.102	
9,700.00	7,493.91	7,405.91	7,405.91	124.81	128.29	52.96	772.14	5,365.24	977.49	731.00	246.49	3.966	
9,750.00	7,519.11	7,431.11	7,431.11	125.00	128.73	52.49	772.14	5,365.24	941.48	695.09	246.39	3.821	
9,800.00	7,541.79	7,453.79	7,453.79	125.12	129.12	52.66	772.14	5,365.24	903.13	656.96	246.17	3.669	
9,850.00	7,561.77	7,473.77	7,473.77	125.20	129.47	53.57	772.14	5,365.24	862.65	616.82	245.83	3.509	
9,900.00	7,578.90	7,509.10	7,490.90	125.23	130.09	55.34	772.14	5,365.24	820.27	574.58	245.69	3.339	
9,950.00	7,593.04	7,505.04	7,505.04	125.22	130.02	58.19	772.14	5,365.24	776.21	531.41	244.80	3.171	
10,000.00	7,604.09	7,516.09	7,516.09	125.17	130.21	62.49	772.14	5,365.24	730.72	486.59	244.13	2.993	
10,050.00	7,611.97	7,523.97	7,523.97	125.08	130.35	68.81	772.14	5,365.24	684.03	440.68	243.36	2.811	
10,100.00	7,616.61	7,528.61	7,528.61	124.97	130.43	78.02	772.14	5,365.24	636.41	393.90	242.50	2.624	
10,145.95	7,618.00	7,530.00	7,530.00	124.84	130.45	90.00	772.14	5,365.24	592.03	350.36	241.67	2.450	
10,200.00	7,618.00	7,530.00	7,530.00	124.69	130.45	90.00	772.14	5,365.24	539.72	299.19	240.53	2.244	
10,300.00	7,618.00	7,530.00	7,530.00	124.41	130.45	90.00	772.14	5,365.24	444.05	206.53	237.52	1.870	
10,400.00	7,618.00	7,530.00	7,530.00	124.14	130.45	90.00	772.14	5,365.24	350.80	118.51	232.29	1.510	
10,500.00	7,618.00	7,530.00	7,530.00	123.88	130.45	90.00	772.14	5,365.24	262.57	40.54	222.04	1.183	Level 2
10,600.00	7,618.00	7,530.00	7,530.00	123.63	130.45	90.00	772.14	5,365.24	186.61	-12.85	199.47	0.936	Level 1
10,700.00	7,618.00	7,530.00	7,530.00	123.40	130.45	90.00	772.14	5,365.24	143.90	-30.04	173.94	0.827	Level 1
10,720.60	7,618.00	7,530.00	7,530.00	123.35	130.45	90.00	772.14	5,365.24	142.41	-36.96	179.38	0.794	Level 1, CC
10,800.00	7,618.00	7,530.00	7,530.00	123.18	130.45	90.00	772.14	5,365.24	163.06	-53.72	216.77	0.752	Level 1, ES, SF
10,900.00	7,618.00	7,530.00	7,530.00	122.96	130.45	90.00	772.14	5,365.24	229.06	-12.07	241.13	0.950	Level 1
11,000.00	7,618.00	7,530.00	7,530.00	122.76	130.45	90.00	772.14	5,365.24	313.61	65.00	248.60	1.261	Level 3
11,100.00	7,618.00	7,530.00	7,530.00	122.57	130.45	90.00	772.14	5,365.24	405.25	154.20	251.06	1.614	
11,200.00	7,618.00	7,530.00	7,530.00	122.39	130.45	90.00	772.14	5,365.24	500.11	248.19	251.92	1.985	
11,300.00	7,618.00	7,530.00	7,530.00	122.23	130.45	90.00	772.14	5,365.24	596.65	344.45	252.21	2.366	
11,400.00	7,618.00	7,530.00	7,530.00	122.07	130.45	90.00	772.14	5,365.24	694.17	441.91	252.26	2.752	
11,500.00	7,618.00	7,530.00	7,530.00	121.93	130.45	90.00	772.14	5,365.24	792.31	540.09	252.22	3.141	
11,600.00	7,618.00	7,530.00	7,530.00	121.79	130.45	90.00	772.14	5,365.24	890.86	638.72	252.14	3.533	
11,700.00	7,618.00	7,530.00	7,530.00	121.67	130.45	90.00	772.14	5,365.24	989.71	737.66	252.05	3.927	
11,800.00	7,618.00	7,530.00	7,530.00	121.56	130.45	90.00	772.14	5,365.24	1,088.76	836.81	251.95	4.321	
11,900.00	7,618.00	7,530.00	7,530.00	121.46	130.45	90.00	772.14	5,365.24	1,187.97	936.12	251.85	4.717	
12,000.00	7,618.00	7,530.00	7,530.00	121.38	130.45	90.00	772.14	5,365.24	1,287.31	1,035.55	251.76	5.113	
12,100.00	7,618.00	7,530.00	7,530.00	121.30	130.45	90.00	772.14	5,365.24	1,386.74	1,135.06	251.68	5.510	
12,200.00	7,618.00	7,530.00	7,530.00	121.24	130.45	90.00	772.14	5,365.24	1,486.25	1,234.65	251.60	5.907	
12,300.00	7,618.00	7,530.00	7,530.00	121.19	130.45	90.00	772.14	5,365.24	1,585.81	1,334.29	251.52	6.305	
12,400.00	7,618.00	7,530.00	7,530.00	121.16	130.45	90.00	772.14	5,365.24	1,685.43	1,433.98	251.46	6.703	
12,500.00	7,618.00	7,530.00	7,530.00	121.14	130.45	90.00	772.14	5,365.24	1,785.10	1,533.70	251.40	7.101	
12,600.00	7,618.00	7,530.00	7,530.00	121.13	130.45	90.00	772.14	5,365.24	1,884.80	1,633.46	251.34	7.499	
12,700.00	7,618.00	7,530.00	7,530.00	121.13	130.45	90.00	772.14	5,365.24	1,984.52	1,733.24	251.29	7.897	
12,800.00	7,618.00	7,530.00	7,530.00	121.15	130.45	90.00	772.14	5,365.24	2,084.28	1,833.04	251.24	8.296	
12,900.00	7,618.00	7,530.00	7,530.00	121.18	130.45	90.00	772.14	5,365.24	2,184.06	1,932.86	251.20	8.695	
13,000.00	7,618.00	7,530.00	7,530.00	121.23	130.45	90.00	772.14	5,365.24	2,283.85	2,032.70	251.16	9.093	
13,100.00	7,618.00	7,530.00	7,530.00	121.29	130.45	90.00	772.14	5,365.24	2,383.67	2,132.55	251.12	9.492	
13,200.00	7,618.00	7,530.00	7,530.00	121.37	130.45	90.00	772.14	5,365.24	2,483.49	2,232.41	251.08	9.891	
13,300.00	7,618.00	7,530.00	7,530.00	121.46	130.45	90.00	772.14	5,365.24	2,583.34	2,332.28	251.05	10.290	
13,400.00	7,618.00	7,530.00	7,530.00	121.57	130.45	90.00	772.14	5,365.24	2,683.19	2,432.17	251.02	10.689	
13,500.00	7,618.00	7,530.00	7,530.00	121.70	130.45	90.00	772.14	5,365.24	2,783.05	2,532.06	251.00	11.088	
13,600.00	7,618.00	7,530.00	7,530.00	121.84	130.45	90.00	772.14	5,365.24	2,882.93	2,631.96	250.97	11.487	
13,700.00	7,618.00	7,530.00	7,530.00	122.01	130.45	90.00	772.14	5,365.24	2,982.81	2,731.86	250.95	11.886	
13,800.00	7,618.00	7,530.00	7,530.00	122.19	130.45	90.00	772.14	5,365.24	3,082.70	2,831.77	250.93	12.285	
13,900.00	7,618.00	7,530.00	7,530.00	122.39	130.45	90.00	772.14	5,365.24	3,182.60	2,931.69	250.91	12.684	
14,000.00	7,618.00	7,530.00	7,530.00	122.62	130.45	90.00	772.14	5,365.24	3,282.50	3,031.61	250.89	13.084	
14,100.00	7,618.00	7,530.00	7,530.00	122.86	130.45	90.00	772.14	5,365.24	3,382.41	3,131.54	250.87	13.483	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,200.00	7,618.00	7,530.00	7,530.00	123.12	130.45	90.00	772.14	5,365.24	3,482.32	3,231.47	250.85	13.882	
14,300.00	7,618.00	7,530.00	7,530.00	123.41	130.45	90.00	772.14	5,365.24	3,582.24	3,331.40	250.84	14.281	
14,400.00	7,618.00	7,530.00	7,530.00	123.72	130.45	90.00	772.14	5,365.24	3,682.16	3,431.33	250.83	14.680	
14,500.00	7,618.00	7,530.00	7,530.00	124.06	130.45	90.00	772.14	5,365.24	3,782.09	3,531.27	250.82	15.079	
14,600.00	7,618.00	7,530.00	7,530.00	124.42	130.45	90.00	772.14	5,365.24	3,882.02	3,631.22	250.80	15.478	
14,700.00	7,618.00	7,530.00	7,530.00	124.80	130.45	90.00	772.14	5,365.24	3,981.95	3,731.16	250.79	15.877	
14,800.00	7,618.00	7,530.00	7,530.00	125.21	130.45	90.00	772.14	5,365.24	4,081.89	3,831.11	250.79	16.276	
14,900.00	7,618.00	7,530.00	7,530.00	125.65	130.45	90.00	772.14	5,365.24	4,181.83	3,931.05	250.78	16.675	
15,000.00	7,618.00	7,530.00	7,530.00	126.11	130.45	90.00	772.14	5,365.24	4,281.78	4,031.01	250.77	17.074	
15,100.00	7,618.00	7,530.00	7,530.00	126.61	130.45	90.00	772.14	5,365.24	4,381.72	4,130.96	250.76	17.473	
15,200.00	7,618.00	7,530.00	7,530.00	127.13	130.45	90.00	772.14	5,365.24	4,481.67	4,230.91	250.76	17.872	
15,300.00	7,618.00	7,530.00	7,530.00	127.68	130.45	90.00	772.14	5,365.24	4,581.62	4,330.87	250.75	18.271	
15,400.00	7,618.00	7,530.00	7,530.00	128.26	130.45	90.00	772.14	5,365.24	4,681.57	4,430.82	250.75	18.670	
15,500.00	7,618.00	7,530.00	7,530.00	128.87	130.45	90.00	772.14	5,365.24	4,781.53	4,530.78	250.75	19.069	
15,600.00	7,618.00	7,530.00	7,530.00	129.51	130.45	90.00	772.14	5,365.24	4,881.48	4,630.74	250.74	19.468	
15,700.00	7,618.00	7,530.00	7,530.00	130.18	130.45	90.00	772.14	5,365.24	4,981.44	4,730.70	250.74	19.867	
15,800.00	7,618.00	7,530.00	7,530.00	130.88	130.45	90.00	772.14	5,365.24	5,081.40	4,830.66	250.74	20.266	
15,900.00	7,618.00	7,530.00	7,530.00	131.61	130.45	90.00	772.14	5,365.24	5,181.36	4,930.62	250.74	20.664	
16,000.00	7,618.00	7,530.00	7,530.00	132.37	130.45	90.00	772.14	5,365.24	5,281.33	5,030.59	250.74	21.063	
16,100.00	7,618.00	7,530.00	7,530.00	133.17	130.45	90.00	772.14	5,365.24	5,381.29	5,130.55	250.74	21.462	
16,200.00	7,618.00	7,530.00	7,530.00	133.99	130.45	90.00	772.14	5,365.24	5,481.26	5,230.52	250.74	21.860	
16,300.00	7,618.00	7,530.00	7,530.00	134.84	130.45	90.00	772.14	5,365.24	5,581.22	5,330.48	250.74	22.259	
16,400.00	7,618.00	7,530.00	7,530.00	135.72	130.45	90.00	772.14	5,365.24	5,681.19	5,430.45	250.75	22.657	
16,500.00	7,618.00	7,530.00	7,530.00	136.63	130.45	90.00	772.14	5,365.24	5,781.16	5,530.41	250.75	23.056	
16,600.00	7,618.00	7,530.00	7,530.00	137.57	130.45	90.00	772.14	5,365.24	5,881.13	5,630.38	250.75	23.454	
16,700.00	7,618.00	7,530.00	7,530.00	138.54	130.45	90.00	772.14	5,365.24	5,981.10	5,730.35	250.75	23.852	
16,800.00	7,618.00	7,530.00	7,530.00	139.53	130.45	90.00	772.14	5,365.24	6,081.07	5,830.32	250.76	24.251	
16,900.00	7,618.00	7,530.00	7,530.00	140.55	130.45	90.00	772.14	5,365.24	6,181.05	5,930.29	250.76	24.649	
17,000.00	7,618.00	7,530.00	7,530.00	141.60	130.45	90.00	772.14	5,365.24	6,281.02	6,030.26	250.77	25.047	
17,100.00	7,618.00	7,530.00	7,530.00	142.67	130.45	90.00	772.14	5,365.24	6,381.00	6,130.22	250.77	25.445	
17,200.00	7,618.00	7,530.00	7,530.00	143.77	130.45	90.00	772.14	5,365.24	6,480.97	6,230.19	250.78	25.843	
17,300.00	7,618.00	7,530.00	7,530.00	144.88	130.45	90.00	772.14	5,365.24	6,580.95	6,330.16	250.78	26.242	
17,400.00	7,618.00	7,530.00	7,530.00	146.02	130.45	90.00	772.14	5,365.24	6,680.93	6,430.14	250.79	26.640	
17,500.00	7,618.00	7,530.00	7,530.00	147.19	130.45	90.00	772.14	5,365.24	6,780.90	6,530.11	250.80	27.037	
17,600.00	7,618.00	7,530.00	7,530.00	148.37	130.45	90.00	772.14	5,365.24	6,880.88	6,630.08	250.80	27.435	
17,700.00	7,618.00	7,530.00	7,530.00	149.57	130.45	90.00	772.14	5,365.24	6,980.86	6,730.05	250.81	27.833	
17,800.00	7,618.00	7,530.00	7,530.00	150.79	130.45	90.00	772.14	5,365.24	7,080.84	6,830.02	250.82	28.231	
17,900.00	7,618.00	7,530.00	7,530.00	152.03	130.45	90.00	772.14	5,365.24	7,180.82	6,929.99	250.83	28.628	
18,000.00	7,618.00	7,530.00	7,530.00	153.29	130.45	90.00	772.14	5,365.24	7,280.80	7,029.96	250.84	29.026	
18,100.00	7,618.00	7,530.00	7,530.00	154.57	130.45	90.00	772.14	5,365.24	7,380.78	7,129.94	250.85	29.424	
18,200.00	7,618.00	7,530.00	7,530.00	155.86	130.45	90.00	772.14	5,365.24	7,480.76	7,229.91	250.86	29.821	
18,300.00	7,618.00	7,530.00	7,530.00	157.17	130.45	90.00	772.14	5,365.24	7,580.75	7,329.88	250.86	30.218	
18,400.00	7,618.00	7,530.00	7,530.00	158.49	130.45	90.00	772.14	5,365.24	7,680.73	7,429.85	250.87	30.616	
18,500.00	7,618.00	7,530.00	7,530.00	159.82	130.45	90.00	772.14	5,365.24	7,780.71	7,529.83	250.89	31.013	
18,600.00	7,618.00	7,530.00	7,530.00	161.17	130.45	90.00	772.14	5,365.24	7,880.69	7,629.80	250.90	31.410	
18,700.00	7,618.00	7,530.00	7,530.00	162.54	130.45	90.00	772.14	5,365.24	7,980.68	7,729.77	250.91	31.807	
18,800.00	7,618.00	7,530.00	7,530.00	163.91	130.45	90.00	772.14	5,365.24	8,080.66	7,829.74	250.92	32.204	
18,900.00	7,618.00	7,530.00	7,530.00	165.30	130.45	90.00	772.14	5,365.24	8,180.65	7,929.72	250.93	32.601	
19,000.00	7,618.00	7,530.00	7,530.00	166.70	130.45	90.00	772.14	5,365.24	8,280.63	8,029.69	250.94	32.998	
19,100.00	7,618.00	7,530.00	7,530.00	168.10	130.45	90.00	772.14	5,365.24	8,380.62	8,129.66	250.95	33.395	
19,200.00	7,618.00	7,530.00	7,530.00	169.52	130.45	90.00	772.14	5,365.24	8,480.60	8,229.64	250.97	33.792	
19,300.00	7,618.00	7,530.00	7,530.00	170.95	130.45	90.00	772.14	5,365.24	8,580.59	8,329.61	250.98	34.188	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	7,530.00	7,530.00	172.39	130.45	90.00	772.14	5,365.24	8,680.58	8,429.58	250.99	34.585	
19,500.00	7,618.00	7,530.00	7,530.00	173.84	130.45	90.00	772.14	5,365.24	8,780.56	8,529.56	251.01	34.981	
19,600.00	7,618.00	7,530.00	7,530.00	175.30	130.45	90.00	772.14	5,365.24	8,880.55	8,629.53	251.02	35.378	
19,700.00	7,618.00	7,530.00	7,530.00	176.76	130.45	90.00	772.14	5,365.24	8,980.54	8,729.50	251.03	35.774	
19,800.00	7,618.00	7,530.00	7,530.00	178.24	130.45	90.00	772.14	5,365.24	9,080.52	8,829.47	251.05	36.170	
19,896.19	7,618.00	7,530.00	7,530.00	179.66	130.45	90.00	772.14	5,365.24	9,176.70	8,925.64	251.06	36.551	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	116.25	-1,438.77	2,916.96	3,252.99				
100.00	100.00	43.00	43.00	0.13	0.33	116.25	-1,438.77	2,916.96	3,252.49	3,252.03	0.46	6,999.965	
200.00	200.00	143.00	143.00	0.49	1.52	116.25	-1,438.77	2,916.96	3,252.49	3,250.48	2.01	1,617.079	
300.00	299.98	242.98	242.98	0.85	3.26	46.98	-1,438.77	2,916.96	3,251.30	3,247.19	4.11	790.877	
400.00	399.84	342.84	342.84	1.21	5.01	47.10	-1,438.77	2,916.96	3,247.73	3,241.52	6.21	522.771	
500.00	499.45	442.45	442.45	1.58	6.74	47.30	-1,438.77	2,916.96	3,241.79	3,233.48	8.32	389.729	
600.00	598.70	541.70	541.70	1.97	8.48	47.58	-1,438.77	2,916.96	3,233.52	3,223.09	10.43	310.079	
700.00	697.47	640.47	640.47	2.38	10.20	47.94	-1,438.77	2,916.96	3,222.93	3,210.39	12.54	256.933	
800.00	795.62	738.62	738.62	2.83	11.91	48.38	-1,438.77	2,916.96	3,210.07	3,195.40	14.67	218.855	
900.00	893.06	836.06	836.06	3.31	13.61	48.91	-1,438.77	2,916.96	3,194.99	3,178.19	16.80	190.164	
1,000.00	989.64	932.64	932.64	3.83	15.30	49.52	-1,438.77	2,916.96	3,177.75	3,158.80	18.95	167.716	
1,100.00	1,085.27	1,028.27	1,028.27	4.40	16.97	50.22	-1,438.77	2,916.96	3,158.42	3,137.31	21.11	149.631	
1,200.00	1,179.82	1,122.82	1,122.82	5.02	18.62	51.00	-1,438.77	2,916.96	3,137.07	3,113.78	23.29	134.716	
1,300.00	1,273.17	1,216.17	1,216.17	5.70	20.25	51.86	-1,438.77	2,916.96	3,113.79	3,088.31	25.49	122.181	
1,400.00	1,365.21	1,308.21	1,308.21	6.43	21.86	52.82	-1,438.77	2,916.96	3,088.69	3,060.98	27.71	111.477	
1,500.00	1,455.84	1,401.16	1,398.84	7.23	23.48	53.86	-1,438.77	2,916.96	3,061.86	3,031.87	30.00	102.078	
1,600.00	1,544.94	1,487.94	1,487.94	8.09	24.99	54.99	-1,438.77	2,916.96	3,033.44	3,001.21	32.23	94.112	
1,700.00	1,632.39	1,575.39	1,575.39	9.01	26.52	56.20	-1,438.77	2,916.96	3,003.55	2,969.01	34.54	86.954	
1,800.00	1,718.11	1,661.11	1,661.11	10.00	28.01	57.50	-1,438.77	2,916.96	2,972.33	2,935.44	36.89	80.578	
1,900.00	1,801.97	1,744.97	1,744.97	11.07	29.48	58.87	-1,438.77	2,916.96	2,939.94	2,900.67	39.27	74.861	
2,000.00	1,883.88	1,826.88	1,826.88	12.20	30.91	60.33	-1,438.77	2,916.96	2,906.54	2,864.84	41.70	69.703	
2,100.00	1,963.74	1,906.74	1,906.74	13.41	32.30	61.85	-1,438.77	2,916.96	2,872.31	2,828.14	44.17	65.028	
2,200.00	2,041.45	1,984.45	1,984.45	14.69	33.66	63.44	-1,438.77	2,916.96	2,837.44	2,790.75	46.69	60.771	
2,300.00	2,116.92	2,059.92	2,059.92	16.05	34.97	65.09	-1,438.77	2,916.96	2,802.13	2,752.87	49.26	56.882	
2,357.48	2,159.25	2,102.25	2,102.25	16.86	35.71	66.06	-1,438.77	2,916.96	2,781.71	2,730.95	50.76	54.798	
2,400.00	2,190.27	2,133.27	2,133.27	17.47	36.26	66.49	-1,438.77	2,916.96	2,766.71	2,714.83	51.88	53.325	
2,500.00	2,263.22	2,206.22	2,206.22	18.92	37.53	67.51	-1,438.77	2,916.96	2,732.32	2,677.77	54.55	50.088	
2,600.00	2,336.18	2,279.18	2,279.18	20.37	38.80	68.54	-1,438.77	2,916.96	2,699.22	2,641.96	57.26	47.142	
2,700.00	2,409.14	2,352.14	2,352.14	21.84	40.08	69.59	-1,438.77	2,916.96	2,667.46	2,607.46	60.00	44.458	
2,800.00	2,482.09	2,425.09	2,425.09	23.31	41.35	70.66	-1,438.77	2,916.96	2,637.09	2,574.32	62.78	42.008	
2,900.00	2,555.05	2,501.95	2,498.05	24.78	42.69	71.74	-1,438.77	2,916.96	2,608.17	2,542.52	65.65	39.729	
3,000.00	2,628.01	2,571.01	2,571.01	26.27	43.90	72.83	-1,438.77	2,916.96	2,580.73	2,512.32	68.42	37.722	
3,100.00	2,700.96	2,643.96	2,643.96	27.75	45.17	73.93	-1,438.77	2,916.96	2,554.84	2,483.56	71.27	35.846	
3,200.00	2,773.92	2,716.92	2,716.92	29.24	46.44	75.05	-1,438.77	2,916.96	2,530.52	2,456.37	74.15	34.126	
3,300.00	2,846.88	2,789.88	2,789.88	30.73	47.72	76.18	-1,438.77	2,916.96	2,507.83	2,430.79	77.05	32.549	
3,400.00	2,919.83	2,862.83	2,862.83	32.23	48.99	77.32	-1,438.77	2,916.96	2,486.82	2,406.86	79.96	31.102	
3,500.00	2,992.79	2,935.79	2,935.79	33.72	50.26	78.47	-1,438.77	2,916.96	2,467.53	2,384.65	82.88	29.773	
3,600.00	3,065.75	3,008.75	3,008.75	35.22	51.54	79.63	-1,438.77	2,916.96	2,449.99	2,364.19	85.81	28.553	
3,700.00	3,138.71	3,081.71	3,081.71	36.72	52.81	80.79	-1,438.77	2,916.96	2,434.25	2,345.52	88.73	27.433	
3,800.00	3,211.66	3,154.66	3,154.66	38.22	54.08	81.97	-1,438.77	2,916.96	2,420.34	2,328.68	91.66	26.405	
3,900.00	3,284.62	3,227.62	3,227.62	39.72	55.36	83.15	-1,438.77	2,916.96	2,408.29	2,313.71	94.58	25.462	
4,000.00	3,357.58	3,300.58	3,300.58	41.22	56.63	84.34	-1,438.77	2,916.96	2,398.14	2,300.64	97.50	24.597	
4,100.00	3,430.53	3,373.53	3,373.53	42.73	57.90	85.54	-1,438.77	2,916.96	2,389.90	2,289.50	100.39	23.806	
4,200.00	3,503.49	3,446.49	3,446.49	44.23	59.18	86.73	-1,438.77	2,916.96	2,383.59	2,280.32	103.27	23.081	
4,300.00	3,576.45	3,519.45	3,519.45	45.74	60.45	87.93	-1,438.77	2,916.96	2,379.23	2,273.11	106.12	22.419	
4,400.00	3,649.40	3,607.60	3,592.40	47.25	61.99	89.14	-1,438.77	2,916.96	2,376.84	2,267.62	109.22	21.762	
4,471.85	3,701.82	3,644.82	3,644.82	48.33	62.64	90.00	-1,438.77	2,916.96	2,376.33	2,265.36	110.97	21.415	CC
4,500.00	3,722.36	3,665.36	3,665.36	48.75	63.00	90.34	-1,438.77	2,916.96	2,376.41	2,264.66	111.75	21.266	
4,600.00	3,795.32	3,738.32	3,738.32	50.26	64.27	91.54	-1,438.77	2,916.96	2,377.94	2,263.43	114.51	20.766	ES
4,700.00	3,868.27	3,811.27	3,811.27	51.77	65.54	92.74	-1,438.77	2,916.96	2,381.44	2,264.21	117.24	20.313	
4,800.00	3,941.23	3,884.23	3,884.23	53.28	66.82	93.94	-1,438.77	2,916.96	2,386.90	2,266.98	119.92	19.904	
4,900.00	4,014.19	3,957.19	3,957.19	54.79	68.09	95.14	-1,438.77	2,916.96	2,394.30	2,271.74	122.56	19.536	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,087.15	4,030.15	4,030.15	56.30	69.36	96.33	-1,438.77	2,916.96	2,403.62	2,278.47	125.15	19.205	
5,100.00	4,160.10	4,103.10	4,103.10	57.81	70.64	97.51	-1,438.77	2,916.96	2,414.85	2,287.15	127.70	18.910	
5,200.00	4,233.06	4,176.06	4,176.06	59.32	71.91	98.69	-1,438.77	2,916.96	2,427.95	2,297.75	130.20	18.648	
5,300.00	4,306.02	4,249.02	4,249.02	60.83	73.18	99.86	-1,438.77	2,916.96	2,442.89	2,310.24	132.65	18.416	
5,400.00	4,378.97	4,321.97	4,321.97	62.34	74.46	101.03	-1,438.77	2,916.96	2,459.65	2,324.60	135.04	18.214	
5,500.00	4,451.93	4,405.07	4,394.93	63.85	75.91	102.18	-1,438.77	2,916.96	2,478.18	2,340.61	137.57	18.014	
5,600.00	4,524.89	4,467.89	4,467.89	65.36	77.00	103.33	-1,438.77	2,916.96	2,498.44	2,358.76	139.69	17.886	
5,700.00	4,597.84	4,540.84	4,540.84	66.88	78.28	104.46	-1,438.77	2,916.96	2,520.40	2,378.47	141.93	17.758	
5,800.00	4,670.80	4,613.80	4,613.80	68.39	79.55	105.58	-1,438.77	2,916.96	2,544.01	2,399.88	144.13	17.651	
5,900.00	4,743.76	4,686.76	4,686.76	69.90	80.82	106.69	-1,438.77	2,916.96	2,569.23	2,422.95	146.28	17.564	
6,000.00	4,816.71	4,759.71	4,759.71	71.41	82.10	107.79	-1,438.77	2,916.96	2,596.00	2,447.62	148.38	17.496	
6,100.00	4,889.67	4,832.67	4,832.67	72.93	83.37	108.87	-1,438.77	2,916.96	2,624.28	2,473.85	150.43	17.445	
6,200.00	4,962.63	4,905.63	4,905.63	74.44	84.64	109.94	-1,438.77	2,916.96	2,654.02	2,501.58	152.44	17.410	
6,300.00	5,035.59	4,978.59	4,978.59	75.95	85.92	111.00	-1,438.77	2,916.96	2,685.17	2,530.77	154.41	17.390	
6,400.00	5,108.54	5,051.54	5,051.54	77.47	87.19	112.04	-1,438.77	2,916.96	2,717.69	2,561.36	156.33	17.384	
6,500.00	5,181.50	5,124.50	5,124.50	78.98	88.46	113.07	-1,438.77	2,916.96	2,751.53	2,593.30	158.22	17.390	
6,600.00	5,254.46	5,202.54	5,197.46	80.49	89.82	114.08	-1,438.77	2,916.96	2,786.63	2,626.47	160.16	17.399	
6,700.00	5,327.41	5,270.41	5,270.41	82.01	91.01	115.07	-1,438.77	2,916.96	2,822.95	2,661.06	161.89	17.438	
6,800.00	5,400.37	5,343.37	5,343.37	83.52	92.28	116.05	-1,438.77	2,916.96	2,860.45	2,696.78	163.67	17.477	
6,900.00	5,473.33	5,416.33	5,416.33	85.04	93.56	117.01	-1,438.77	2,916.96	2,899.07	2,733.65	165.42	17.525	
7,000.00	5,546.28	5,489.28	5,489.28	86.55	94.83	117.96	-1,438.77	2,916.96	2,938.78	2,771.63	167.15	17.582	
7,100.00	5,619.24	5,562.24	5,562.24	88.06	96.10	118.89	-1,438.77	2,916.96	2,979.53	2,810.69	168.85	17.646	
7,200.00	5,692.20	5,635.20	5,635.20	89.58	97.38	119.81	-1,438.77	2,916.96	3,021.28	2,850.76	170.52	17.718	
7,300.00	5,765.15	5,708.15	5,708.15	91.09	98.65	120.70	-1,438.77	2,916.96	3,063.99	2,891.82	172.17	17.797	
7,400.00	5,838.11	5,781.11	5,781.11	92.61	99.92	121.58	-1,438.77	2,916.96	3,107.62	2,933.82	173.80	17.881	
7,500.00	5,911.07	5,854.07	5,854.07	94.12	101.20	122.45	-1,438.77	2,916.96	3,152.12	2,976.72	175.40	17.971	
7,600.00	5,984.03	5,927.03	5,927.03	95.64	102.47	123.30	-1,438.77	2,916.96	3,197.47	3,020.48	176.99	18.065	
7,700.00	6,056.98	6,000.02	5,999.98	97.15	103.74	124.13	-1,438.77	2,916.96	3,243.63	3,065.06	178.57	18.165	
7,800.00	6,129.94	6,072.94	6,072.94	98.67	105.02	124.95	-1,438.77	2,916.96	3,290.56	3,110.43	180.13	18.268	
7,900.00	6,202.90	6,145.90	6,145.90	100.18	106.29	125.75	-1,438.77	2,916.96	3,338.23	3,156.56	181.67	18.375	
8,000.00	6,275.85	6,218.85	6,218.85	101.70	107.56	126.53	-1,438.77	2,916.96	3,386.61	3,203.41	183.20	18.486	
8,100.00	6,348.81	6,308.19	6,291.81	103.21	109.12	127.30	-1,438.77	2,916.96	3,435.68	3,250.67	185.01	18.570	
8,200.00	6,421.77	6,364.77	6,364.77	104.73	110.11	128.05	-1,438.77	2,916.96	3,485.39	3,299.16	186.23	18.715	
8,300.00	6,494.72	6,437.72	6,437.72	106.24	111.38	128.79	-1,438.77	2,916.96	3,535.73	3,347.99	187.74	18.834	
8,400.00	6,567.68	6,510.68	6,510.68	107.76	112.66	129.52	-1,438.77	2,916.96	3,586.67	3,397.44	189.23	18.954	
8,500.00	6,640.64	6,583.64	6,583.64	109.27	113.93	130.22	-1,438.77	2,916.96	3,638.17	3,447.46	190.71	19.077	
8,600.00	6,713.59	6,656.59	6,656.59	110.79	115.20	130.92	-1,438.77	2,916.96	3,690.23	3,498.04	192.19	19.201	
8,700.00	6,786.55	6,729.55	6,729.55	112.30	116.48	131.60	-1,438.77	2,916.96	3,742.81	3,549.15	193.67	19.326	
8,800.00	6,859.51	6,802.51	6,802.51	113.82	117.75	132.26	-1,438.77	2,916.96	3,795.90	3,600.76	195.14	19.453	
8,900.00	6,932.46	6,875.46	6,875.46	115.33	119.02	132.92	-1,438.77	2,916.96	3,849.47	3,652.87	196.60	19.580	
9,000.00	7,005.42	6,948.42	6,948.42	116.85	120.30	133.55	-1,438.77	2,916.96	3,903.50	3,705.44	198.06	19.708	
9,104.89	7,081.95	7,024.95	7,024.95	118.44	121.63	134.21	-1,438.77	2,916.96	3,960.65	3,761.06	199.59	19.844	
9,150.00	7,115.15	7,058.15	7,058.15	119.12	122.21	128.43	-1,438.77	2,916.96	3,984.05	3,783.80	200.25	19.895	
9,200.00	7,152.46	7,104.54	7,095.46	119.86	123.02	122.03	-1,438.77	2,916.96	4,006.91	3,805.76	201.15	19.920	
9,250.00	7,190.04	7,133.04	7,133.04	120.57	123.52	115.73	-1,438.77	2,916.96	4,026.40	3,824.67	201.74	19.959	
9,300.00	7,227.59	7,170.59	7,170.59	121.25	124.17	109.66	-1,438.77	2,916.96	4,042.43	3,839.96	202.47	19.966	
9,350.00	7,264.83	7,207.83	7,207.83	121.89	124.82	103.93	-1,438.77	2,916.96	4,054.91	3,851.73	203.18	19.957	
9,400.00	7,301.48	7,244.48	7,244.48	122.48	125.46	98.67	-1,438.77	2,916.96	4,063.80	3,859.94	203.87	19.934	
9,450.00	7,337.26	7,280.26	7,280.26	123.01	126.09	93.96	-1,438.77	2,916.96	4,069.08	3,864.56	204.51	19.896	
9,500.00	7,371.90	7,314.90	7,314.90	123.49	126.69	89.85	-1,438.77	2,916.96	4,070.74	3,865.63	205.11	19.846	
9,550.00	7,405.13	7,348.13	7,348.13	123.91	127.27	86.36	-1,438.77	2,916.96	4,068.81	3,863.15	205.66	19.784	
9,600.00	7,436.70	7,379.70	7,379.70	124.27	127.82	83.49	-1,438.77	2,916.96	4,063.34	3,857.19	206.14	19.711	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	7,409.36	7,409.36	124.57	128.34	81.23	-1,438.77	2,916.96	4,054.39	3,847.83	206.55	19.629	
9,700.00	7,493.91	7,436.91	7,436.91	124.81	128.82	79.55	-1,438.77	2,916.96	4,042.05	3,835.16	206.89	19.537	
9,750.00	7,519.11	7,462.11	7,462.11	125.00	129.26	78.45	-1,438.77	2,916.96	4,026.44	3,819.28	207.16	19.437	
9,800.00	7,541.79	7,484.79	7,484.79	125.12	129.66	77.89	-1,438.77	2,916.96	4,007.68	3,800.34	207.34	19.329	
9,850.00	7,561.77	7,504.77	7,504.77	125.20	130.01	77.89	-1,438.77	2,916.96	3,985.91	3,778.48	207.44	19.215	
9,900.00	7,578.90	7,521.90	7,521.90	125.23	130.30	78.44	-1,438.77	2,916.96	3,961.30	3,753.85	207.46	19.095	
9,950.00	7,593.04	7,536.04	7,536.04	125.22	130.55	79.55	-1,438.77	2,916.96	3,934.02	3,726.62	207.39	18.969	
10,000.00	7,604.09	7,547.09	7,547.09	125.17	130.74	81.25	-1,438.77	2,916.96	3,904.25	3,697.00	207.25	18.838	
10,050.00	7,611.97	7,554.97	7,554.97	125.08	130.88	83.58	-1,438.77	2,916.96	3,872.19	3,665.16	207.04	18.703	
10,100.00	7,616.61	7,559.61	7,559.61	124.97	130.96	86.59	-1,438.77	2,916.96	3,838.06	3,631.31	206.75	18.564	
10,145.95	7,618.00	7,561.00	7,561.00	124.84	130.99	90.00	-1,438.77	2,916.96	3,805.05	3,598.62	206.43	18.433	
10,200.00	7,618.00	7,561.00	7,561.00	124.69	130.99	90.00	-1,438.77	2,916.96	3,765.54	3,559.52	206.02	18.278	
10,300.00	7,618.00	7,561.00	7,561.00	124.41	130.99	90.00	-1,438.77	2,916.96	3,693.42	3,488.19	205.23	17.996	
10,400.00	7,618.00	7,561.00	7,561.00	124.14	130.99	90.00	-1,438.77	2,916.96	3,622.62	3,418.21	204.42	17.722	
10,500.00	7,618.00	7,561.00	7,561.00	123.88	130.99	90.00	-1,438.77	2,916.96	3,553.23	3,349.66	203.57	17.454	
10,600.00	7,618.00	7,561.00	7,561.00	123.63	130.99	90.00	-1,438.77	2,916.96	3,485.33	3,282.63	202.70	17.195	
10,700.00	7,618.00	7,561.00	7,561.00	123.40	130.99	90.00	-1,438.77	2,916.96	3,419.00	3,217.20	201.80	16.943	
10,800.00	7,618.00	7,561.00	7,561.00	123.18	130.99	90.00	-1,438.77	2,916.96	3,354.34	3,153.47	200.87	16.699	
10,900.00	7,618.00	7,561.00	7,561.00	122.96	130.99	90.00	-1,438.77	2,916.96	3,291.45	3,091.53	199.92	16.464	
11,000.00	7,618.00	7,561.00	7,561.00	122.76	130.99	90.00	-1,438.77	2,916.96	3,230.44	3,031.49	198.95	16.237	
11,100.00	7,618.00	7,561.00	7,561.00	122.57	130.99	90.00	-1,438.77	2,916.96	3,171.40	2,973.43	197.96	16.020	
11,200.00	7,618.00	7,561.00	7,561.00	122.39	130.99	90.00	-1,438.77	2,916.96	3,114.45	2,917.49	196.97	15.812	
11,300.00	7,618.00	7,561.00	7,561.00	122.23	130.99	90.00	-1,438.77	2,916.96	3,059.72	2,863.75	195.97	15.613	
11,400.00	7,618.00	7,561.00	7,561.00	122.07	130.99	90.00	-1,438.77	2,916.96	3,007.31	2,812.34	194.97	15.424	
11,500.00	7,618.00	7,561.00	7,561.00	121.93	130.99	90.00	-1,438.77	2,916.96	2,957.36	2,763.37	193.99	15.245	
11,600.00	7,618.00	7,561.00	7,561.00	121.79	130.99	90.00	-1,438.77	2,916.96	2,909.99	2,716.96	193.03	15.076	
11,700.00	7,618.00	7,561.00	7,561.00	121.67	130.99	90.00	-1,438.77	2,916.96	2,865.32	2,673.22	192.10	14.916	
11,800.00	7,618.00	7,561.00	7,561.00	121.56	130.99	90.00	-1,438.77	2,916.96	2,823.50	2,632.27	191.23	14.765	
11,900.00	7,618.00	7,561.00	7,561.00	121.46	130.99	90.00	-1,438.77	2,916.96	2,784.63	2,594.22	190.42	14.624	
12,000.00	7,618.00	7,561.00	7,561.00	121.38	130.99	90.00	-1,438.77	2,916.96	2,748.86	2,559.18	189.69	14.492	
12,100.00	7,618.00	7,561.00	7,561.00	121.30	130.99	90.00	-1,438.77	2,916.96	2,716.30	2,527.25	189.05	14.368	
12,200.00	7,618.00	7,561.00	7,561.00	121.24	130.99	90.00	-1,438.77	2,916.96	2,687.07	2,498.53	188.53	14.252	
12,300.00	7,618.00	7,561.00	7,561.00	121.19	130.99	90.00	-1,438.77	2,916.96	2,661.28	2,473.13	188.15	14.145	
12,400.00	7,618.00	7,561.00	7,561.00	121.16	130.99	90.00	-1,438.77	2,916.96	2,639.02	2,451.12	187.90	14.045	
12,500.00	7,618.00	7,561.00	7,561.00	121.14	130.99	90.00	-1,438.77	2,916.96	2,620.40	2,432.59	187.81	13.952	
12,600.00	7,618.00	7,561.00	7,561.00	121.13	130.99	90.00	-1,438.77	2,916.96	2,605.48	2,417.60	187.88	13.868	
12,700.00	7,618.00	7,561.00	7,561.00	121.13	130.99	90.00	-1,438.77	2,916.96	2,594.34	2,406.22	188.12	13.791	
12,800.00	7,618.00	7,561.00	7,561.00	121.15	130.99	90.00	-1,438.77	2,916.96	2,587.02	2,398.48	188.53	13.722	
12,900.00	7,618.00	7,561.00	7,561.00	121.18	130.99	90.00	-1,438.77	2,916.96	2,583.54	2,394.44	189.10	13.662	
12,939.74	7,618.00	7,561.00	7,561.00	121.20	130.99	90.00	-1,438.77	2,916.96	2,583.24	2,393.86	189.38	13.641	
13,000.00	7,618.00	7,561.00	7,561.00	121.23	130.99	90.00	-1,438.77	2,916.96	2,583.94	2,394.11	189.83	13.612	
13,100.00	7,618.00	7,561.00	7,561.00	121.29	130.99	90.00	-1,438.77	2,916.96	2,588.21	2,397.51	190.70	13.572	
13,200.00	7,618.00	7,561.00	7,561.00	121.37	130.99	90.00	-1,438.77	2,916.96	2,596.32	2,404.62	191.70	13.544	
13,300.00	7,618.00	7,561.00	7,561.00	121.46	130.99	90.00	-1,438.77	2,916.96	2,608.24	2,415.43	192.81	13.528	
13,400.00	7,618.00	7,561.00	7,561.00	121.57	130.99	90.00	-1,438.77	2,916.96	2,623.92	2,429.91	194.01	13.525 SF	
13,500.00	7,618.00	7,561.00	7,561.00	121.70	130.99	90.00	-1,438.77	2,916.96	2,643.30	2,448.02	195.28	13.536	
13,600.00	7,618.00	7,561.00	7,561.00	121.84	130.99	90.00	-1,438.77	2,916.96	2,666.28	2,469.67	196.61	13.561	
13,700.00	7,618.00	7,561.00	7,561.00	122.01	130.99	90.00	-1,438.77	2,916.96	2,692.79	2,494.82	197.98	13.602	
13,800.00	7,618.00	7,561.00	7,561.00	122.19	130.99	90.00	-1,438.77	2,916.96	2,722.71	2,523.35	199.36	13.657	
13,900.00	7,618.00	7,561.00	7,561.00	122.39	130.99	90.00	-1,438.77	2,916.96	2,755.94	2,555.19	200.75	13.728	
14,000.00	7,618.00	7,561.00	7,561.00	122.62	130.99	90.00	-1,438.77	2,916.96	2,792.36	2,590.22	202.14	13.814	
14,100.00	7,618.00	7,561.00	7,561.00	122.86	130.99	90.00	-1,438.77	2,916.96	2,831.84	2,628.34	203.50	13.915	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,200.00	7,618.00	7,561.00	7,561.00	123.12	130.99	90.00	-1,438.77	2,916.96	2,874.26	2,669.42	204.84	14.032	
14,300.00	7,618.00	7,561.00	7,561.00	123.41	130.99	90.00	-1,438.77	2,916.96	2,919.49	2,713.35	206.15	14.162	
14,400.00	7,618.00	7,561.00	7,561.00	123.72	130.99	90.00	-1,438.77	2,916.96	2,967.40	2,760.00	207.41	14.307	
14,500.00	7,618.00	7,561.00	7,561.00	124.06	130.99	90.00	-1,438.77	2,916.96	3,017.87	2,809.24	208.63	14.465	
14,600.00	7,618.00	7,561.00	7,561.00	124.42	130.99	90.00	-1,438.77	2,916.96	3,070.76	2,860.97	209.80	14.637	
14,700.00	7,618.00	7,561.00	7,561.00	124.80	130.99	90.00	-1,438.77	2,916.96	3,125.96	2,915.05	210.92	14.821	
14,800.00	7,618.00	7,561.00	7,561.00	125.21	130.99	90.00	-1,438.77	2,916.96	3,183.35	2,971.36	211.98	15.017	
14,900.00	7,618.00	7,561.00	7,561.00	125.65	130.99	90.00	-1,438.77	2,916.96	3,242.80	3,029.80	213.00	15.224	
15,000.00	7,618.00	7,561.00	7,561.00	126.11	130.99	90.00	-1,438.77	2,916.96	3,304.21	3,090.24	213.97	15.443	
15,100.00	7,618.00	7,561.00	7,561.00	126.61	130.99	90.00	-1,438.77	2,916.96	3,367.47	3,152.58	214.88	15.671	
15,200.00	7,618.00	7,561.00	7,561.00	127.13	130.99	90.00	-1,438.77	2,916.96	3,432.48	3,216.72	215.75	15.909	
15,300.00	7,618.00	7,561.00	7,561.00	127.68	130.99	90.00	-1,438.77	2,916.96	3,499.14	3,282.56	216.57	16.157	
15,400.00	7,618.00	7,561.00	7,561.00	128.26	130.99	90.00	-1,438.77	2,916.96	3,567.35	3,350.01	217.35	16.413	
15,500.00	7,618.00	7,561.00	7,561.00	128.87	130.99	90.00	-1,438.77	2,916.96	3,637.04	3,418.96	218.08	16.678	
15,600.00	7,618.00	7,561.00	7,561.00	129.51	130.99	90.00	-1,438.77	2,916.96	3,708.11	3,489.35	218.77	16.950	
15,700.00	7,618.00	7,561.00	7,561.00	130.18	130.99	90.00	-1,438.77	2,916.96	3,780.50	3,561.08	219.42	17.230	
15,800.00	7,618.00	7,561.00	7,561.00	130.88	130.99	90.00	-1,438.77	2,916.96	3,854.12	3,634.09	220.03	17.516	
15,900.00	7,618.00	7,561.00	7,561.00	131.61	130.99	90.00	-1,438.77	2,916.96	3,928.90	3,708.29	220.61	17.809	
16,000.00	7,618.00	7,561.00	7,561.00	132.37	130.99	90.00	-1,438.77	2,916.96	4,004.79	3,783.64	221.15	18.109	
16,100.00	7,618.00	7,561.00	7,561.00	133.17	130.99	90.00	-1,438.77	2,916.96	4,081.71	3,860.05	221.66	18.414	
16,200.00	7,618.00	7,561.00	7,561.00	133.99	130.99	90.00	-1,438.77	2,916.96	4,159.62	3,937.47	222.15	18.725	
16,300.00	7,618.00	7,561.00	7,561.00	134.84	130.99	90.00	-1,438.77	2,916.96	4,238.45	4,015.85	222.60	19.041	
16,400.00	7,618.00	7,561.00	7,561.00	135.72	130.99	90.00	-1,438.77	2,916.96	4,318.16	4,095.13	223.03	19.361	
16,500.00	7,618.00	7,561.00	7,561.00	136.63	130.99	90.00	-1,438.77	2,916.96	4,398.70	4,175.27	223.43	19.687	
16,600.00	7,618.00	7,561.00	7,561.00	137.57	130.99	90.00	-1,438.77	2,916.96	4,480.03	4,256.21	223.82	20.017	
16,700.00	7,618.00	7,561.00	7,561.00	138.54	130.99	90.00	-1,438.77	2,916.96	4,562.09	4,337.92	224.18	20.351	
16,800.00	7,618.00	7,561.00	7,561.00	139.53	130.99	90.00	-1,438.77	2,916.96	4,644.86	4,420.35	224.51	20.688	
16,900.00	7,618.00	7,561.00	7,561.00	140.55	130.99	90.00	-1,438.77	2,916.96	4,728.30	4,503.46	224.84	21.030	
17,000.00	7,618.00	7,561.00	7,561.00	141.60	130.99	90.00	-1,438.77	2,916.96	4,812.36	4,587.22	225.14	21.375	
17,100.00	7,618.00	7,561.00	7,561.00	142.67	130.99	90.00	-1,438.77	2,916.96	4,897.03	4,671.60	225.43	21.723	
17,200.00	7,618.00	7,561.00	7,561.00	143.77	130.99	90.00	-1,438.77	2,916.96	4,982.26	4,756.56	225.70	22.075	
17,300.00	7,618.00	7,561.00	7,561.00	144.88	130.99	90.00	-1,438.77	2,916.96	5,068.04	4,842.08	225.95	22.429	
17,400.00	7,618.00	7,561.00	7,561.00	146.02	130.99	90.00	-1,438.77	2,916.96	5,154.32	4,928.12	226.20	22.787	
17,500.00	7,618.00	7,561.00	7,561.00	147.19	130.99	90.00	-1,438.77	2,916.96	5,241.10	5,014.67	226.43	23.147	
17,600.00	7,618.00	7,561.00	7,561.00	148.37	130.99	90.00	-1,438.77	2,916.96	5,328.33	5,101.69	226.65	23.509	
17,700.00	7,618.00	7,561.00	7,561.00	149.57	130.99	90.00	-1,438.77	2,916.96	5,416.01	5,189.16	226.86	23.874	
17,800.00	7,618.00	7,561.00	7,561.00	150.79	130.99	90.00	-1,438.77	2,916.96	5,504.11	5,277.06	227.05	24.241	
17,900.00	7,618.00	7,561.00	7,561.00	152.03	130.99	90.00	-1,438.77	2,916.96	5,592.61	5,365.37	227.24	24.611	
18,000.00	7,618.00	7,561.00	7,561.00	153.29	130.99	90.00	-1,438.77	2,916.96	5,681.49	5,454.07	227.42	24.982	
18,100.00	7,618.00	7,561.00	7,561.00	154.57	130.99	90.00	-1,438.77	2,916.96	5,770.74	5,543.15	227.59	25.356	
18,200.00	7,618.00	7,561.00	7,561.00	155.86	130.99	90.00	-1,438.77	2,916.96	5,860.33	5,632.58	227.75	25.731	
18,300.00	7,618.00	7,561.00	7,561.00	157.17	130.99	90.00	-1,438.77	2,916.96	5,950.25	5,722.35	227.91	26.108	
18,400.00	7,618.00	7,561.00	7,561.00	158.49	130.99	90.00	-1,438.77	2,916.96	6,040.49	5,812.44	228.06	26.487	
18,500.00	7,618.00	7,561.00	7,561.00	159.82	130.99	90.00	-1,438.77	2,916.96	6,131.04	5,902.84	228.20	26.867	
18,600.00	7,618.00	7,561.00	7,561.00	161.17	130.99	90.00	-1,438.77	2,916.96	6,221.87	5,993.54	228.33	27.249	
18,700.00	7,618.00	7,561.00	7,561.00	162.54	130.99	90.00	-1,438.77	2,916.96	6,312.98	6,084.52	228.46	27.633	
18,800.00	7,618.00	7,561.00	7,561.00	163.91	130.99	90.00	-1,438.77	2,916.96	6,404.36	6,175.77	228.59	28.017	
18,900.00	7,618.00	7,561.00	7,561.00	165.30	130.99	90.00	-1,438.77	2,916.96	6,495.99	6,267.28	228.70	28.403	
19,000.00	7,618.00	7,561.00	7,561.00	166.70	130.99	90.00	-1,438.77	2,916.96	6,587.86	6,359.04	228.82	28.791	
19,100.00	7,618.00	7,561.00	7,561.00	168.10	130.99	90.00	-1,438.77	2,916.96	6,679.96	6,451.04	228.93	29.179	
19,200.00	7,618.00	7,561.00	7,561.00	169.52	130.99	90.00	-1,438.77	2,916.96	6,772.30	6,543.26	229.03	29.569	
19,300.00	7,618.00	7,561.00	7,561.00	170.95	130.99	90.00	-1,438.77	2,916.96	6,864.84	6,635.71	229.13	29.960	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	7,561.00	7,561.00	172.39	130.99	90.00	-1,438.77	2,916.96	6,957.59	6,728.36	229.23	30.352	
19,500.00	7,618.00	7,561.00	7,561.00	173.84	130.99	90.00	-1,438.77	2,916.96	7,050.54	6,821.22	229.32	30.745	
19,600.00	7,618.00	7,561.00	7,561.00	175.30	130.99	90.00	-1,438.77	2,916.96	7,143.68	6,914.27	229.41	31.139	
19,700.00	7,618.00	7,561.00	7,561.00	176.76	130.99	90.00	-1,438.77	2,916.96	7,237.00	7,007.50	229.50	31.534	
19,800.00	7,618.00	7,561.00	7,561.00	178.24	130.99	90.00	-1,438.77	2,916.96	7,330.50	7,100.92	229.59	31.929	
19,896.19	7,618.00	7,561.00	7,561.00	179.66	130.99	90.00	-1,438.77	2,916.96	7,420.60	7,190.93	229.66	32.311	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	108.83	-1,434.94	4,207.84	4,445.93				
100.00	100.00	64.00	64.00	0.13	0.49	108.83	-1,434.94	4,207.84	4,445.78	4,445.16	0.62	7,166.836	
200.00	200.00	164.00	164.00	0.49	1.88	108.83	-1,434.94	4,207.84	4,445.78	4,443.41	2.37	1,876.548	
300.00	299.98	263.98	263.98	0.85	3.62	39.55	-1,434.94	4,207.84	4,444.44	4,439.97	4.47	994.519	
400.00	399.84	363.84	363.84	1.21	5.36	39.64	-1,434.94	4,207.84	4,440.40	4,433.83	6.57	675.784	
500.00	499.45	463.45	463.45	1.58	7.10	39.80	-1,434.94	4,207.84	4,433.69	4,425.01	8.68	511.065	
600.00	598.70	562.70	562.70	1.97	8.83	40.02	-1,434.94	4,207.84	4,424.31	4,413.53	10.78	410.329	
700.00	697.47	661.47	661.47	2.38	10.56	40.31	-1,434.94	4,207.84	4,412.29	4,399.40	12.89	342.244	
800.00	795.62	759.62	759.62	2.83	12.27	40.66	-1,434.94	4,207.84	4,397.67	4,382.66	15.01	293.058	
900.00	893.06	857.06	857.06	3.31	13.97	41.08	-1,434.94	4,207.84	4,380.47	4,363.34	17.13	255.791	
1,000.00	989.64	953.64	953.64	3.83	15.66	41.56	-1,434.94	4,207.84	4,360.74	4,341.49	19.25	226.523	
1,100.00	1,085.27	1,049.27	1,049.27	4.40	17.33	42.12	-1,434.94	4,207.84	4,338.53	4,317.15	21.38	202.882	
1,200.00	1,179.82	1,143.82	1,143.82	5.02	18.98	42.75	-1,434.94	4,207.84	4,313.90	4,290.37	23.53	183.353	
1,300.00	1,273.17	1,237.17	1,237.17	5.70	20.61	43.44	-1,434.94	4,207.84	4,286.91	4,261.23	25.68	166.919	
1,400.00	1,365.21	1,329.21	1,329.21	6.43	22.21	44.22	-1,434.94	4,207.84	4,257.63	4,229.78	27.85	152.874	
1,500.00	1,455.84	1,419.84	1,419.84	7.23	23.79	45.07	-1,434.94	4,207.84	4,226.14	4,196.10	30.03	140.714	
1,600.00	1,544.94	1,508.94	1,508.94	8.09	25.35	45.99	-1,434.94	4,207.84	4,192.52	4,160.28	32.23	130.066	
1,700.00	1,632.39	1,603.61	1,596.39	9.01	27.00	47.00	-1,434.94	4,207.84	4,156.87	4,122.29	34.58	120.212	
1,800.00	1,718.11	1,682.11	1,682.11	10.00	28.37	48.08	-1,434.94	4,207.84	4,119.28	4,082.58	36.69	112.258	
1,900.00	1,801.97	1,765.97	1,765.97	11.07	29.84	49.25	-1,434.94	4,207.84	4,079.86	4,040.90	38.96	104.720	
2,000.00	1,883.88	1,847.88	1,847.88	12.20	31.27	50.50	-1,434.94	4,207.84	4,038.72	3,997.47	41.25	97.906	
2,100.00	1,963.74	1,927.74	1,927.74	13.41	32.66	51.82	-1,434.94	4,207.84	3,995.99	3,952.42	43.57	91.712	
2,200.00	2,041.45	2,005.45	2,005.45	14.69	34.02	53.23	-1,434.94	4,207.84	3,951.79	3,905.87	45.92	86.054	
2,300.00	2,116.92	2,080.92	2,080.92	16.05	35.33	54.71	-1,434.94	4,207.84	3,906.27	3,857.96	48.31	80.863	
2,357.48	2,159.25	2,123.25	2,123.25	16.86	36.07	55.60	-1,434.94	4,207.84	3,879.55	3,829.85	49.69	78.068	
2,400.00	2,190.27	2,154.27	2,154.27	17.47	36.61	55.89	-1,434.94	4,207.84	3,859.71	3,808.98	50.73	76.088	
2,500.00	2,263.22	2,227.22	2,227.22	18.92	37.89	56.59	-1,434.94	4,207.84	3,813.51	3,760.32	53.18	71.704	
2,600.00	2,336.18	2,300.18	2,300.18	20.37	39.16	57.30	-1,434.94	4,207.84	3,767.98	3,712.30	55.68	67.674	
2,700.00	2,409.14	2,373.14	2,373.14	21.84	40.43	58.02	-1,434.94	4,207.84	3,723.15	3,664.95	58.21	63.964	
2,800.00	2,482.09	2,446.09	2,446.09	23.31	41.71	58.75	-1,434.94	4,207.84	3,679.05	3,618.28	60.77	60.540	
2,900.00	2,555.05	2,519.05	2,519.05	24.78	42.98	59.50	-1,434.94	4,207.84	3,635.70	3,572.34	63.37	57.375	
3,000.00	2,628.01	2,607.99	2,592.01	26.27	44.53	60.25	-1,434.94	4,207.84	3,593.13	3,526.86	66.27	54.216	
3,100.00	2,700.96	2,664.96	2,664.96	27.75	45.53	61.02	-1,434.94	4,207.84	3,551.37	3,482.71	68.66	51.728	
3,200.00	2,773.92	2,737.92	2,737.92	29.24	46.80	61.80	-1,434.94	4,207.84	3,510.44	3,439.10	71.35	49.204	
3,300.00	2,846.88	2,810.88	2,810.88	30.73	48.07	62.59	-1,434.94	4,207.84	3,470.38	3,396.31	74.07	46.856	
3,400.00	2,919.83	2,883.83	2,883.83	32.23	49.35	63.39	-1,434.94	4,207.84	3,431.21	3,354.40	76.81	44.669	
3,500.00	2,992.79	2,956.79	2,956.79	33.72	50.62	64.21	-1,434.94	4,207.84	3,392.97	3,313.38	79.59	42.629	
3,600.00	3,065.75	3,029.75	3,029.75	35.22	51.89	65.03	-1,434.94	4,207.84	3,355.69	3,273.29	82.40	40.726	
3,700.00	3,138.71	3,102.71	3,102.71	36.72	53.17	65.87	-1,434.94	4,207.84	3,319.39	3,234.16	85.23	38.946	
3,800.00	3,211.66	3,175.66	3,175.66	38.22	54.44	66.72	-1,434.94	4,207.84	3,284.13	3,196.04	88.09	37.282	
3,900.00	3,284.62	3,248.62	3,248.62	39.72	55.71	67.57	-1,434.94	4,207.84	3,249.91	3,158.94	90.97	35.725	
4,000.00	3,357.58	3,321.58	3,321.58	41.22	56.99	68.44	-1,434.94	4,207.84	3,216.79	3,122.91	93.88	34.266	
4,100.00	3,430.53	3,405.47	3,394.53	42.73	58.45	69.32	-1,434.94	4,207.84	3,184.79	3,087.80	97.00	32.834	
4,200.00	3,503.49	3,467.49	3,467.49	44.23	59.53	70.21	-1,434.94	4,207.84	3,153.95	3,054.20	99.75	31.617	
4,300.00	3,576.45	3,540.45	3,540.45	45.74	60.81	71.11	-1,434.94	4,207.84	3,124.31	3,021.59	102.72	30.415	
4,400.00	3,649.40	3,613.40	3,613.40	47.25	62.08	72.02	-1,434.94	4,207.84	3,095.89	2,990.18	105.71	29.287	
4,500.00	3,722.36	3,686.36	3,686.36	48.75	63.35	72.94	-1,434.94	4,207.84	3,068.73	2,960.02	108.71	28.229	
4,600.00	3,795.32	3,759.32	3,759.32	50.26	64.63	73.87	-1,434.94	4,207.84	3,042.87	2,931.15	111.72	27.236	
4,700.00	3,868.27	3,832.27	3,832.27	51.77	65.90	74.81	-1,434.94	4,207.84	3,018.33	2,903.59	114.75	26.305	
4,800.00	3,941.23	3,905.23	3,905.23	53.28	67.17	75.75	-1,434.94	4,207.84	2,995.16	2,877.38	117.78	25.431	
4,900.00	4,014.19	3,978.19	3,978.19	54.79	68.45	76.70	-1,434.94	4,207.84	2,973.38	2,852.57	120.82	24.611	
5,000.00	4,087.15	4,051.15	4,051.15	56.30	69.72	77.67	-1,434.94	4,207.84	2,953.02	2,829.17	123.86	23.842	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,160.10	4,124.10	4,124.10	57.81	70.99	78.63	-1,434.94	4,207.84	2,934.12	2,807.22	126.90	23.122	
5,200.00	4,233.06	4,202.94	4,197.06	59.32	72.37	79.61	-1,434.94	4,207.84	2,916.70	2,786.66	130.04	22.430	
5,300.00	4,306.02	4,270.02	4,270.02	60.83	73.54	80.59	-1,434.94	4,207.84	2,900.78	2,767.82	132.97	21.816	
5,400.00	4,378.97	4,342.97	4,342.97	62.34	74.81	81.58	-1,434.94	4,207.84	2,886.40	2,750.41	135.99	21.226	
5,500.00	4,451.93	4,415.93	4,415.93	63.85	76.09	82.57	-1,434.94	4,207.84	2,873.58	2,734.58	139.00	20.674	
5,600.00	4,524.89	4,488.89	4,488.89	65.36	77.36	83.56	-1,434.94	4,207.84	2,862.33	2,720.34	141.99	20.159	
5,700.00	4,597.84	4,561.84	4,561.84	66.88	78.63	84.56	-1,434.94	4,207.84	2,852.68	2,707.71	144.96	19.679	
5,800.00	4,670.80	4,634.80	4,634.80	68.39	79.91	85.57	-1,434.94	4,207.84	2,844.64	2,696.72	147.91	19.232	
5,900.00	4,743.76	4,707.76	4,707.76	69.90	81.18	86.57	-1,434.94	4,207.84	2,838.22	2,687.38	150.84	18.816	
6,000.00	4,816.71	4,780.71	4,780.71	71.41	82.45	87.58	-1,434.94	4,207.84	2,833.44	2,679.71	153.74	18.431	
6,100.00	4,889.67	4,853.67	4,853.67	72.93	83.73	88.59	-1,434.94	4,207.84	2,830.31	2,673.71	156.60	18.073	
6,200.00	4,962.63	4,926.63	4,926.63	74.44	85.00	89.60	-1,434.94	4,207.84	2,828.83	2,669.40	159.43	17.743	
6,239.68	4,991.58	4,955.58	4,955.58	75.04	85.51	90.00	-1,434.94	4,207.84	2,828.70	2,668.16	160.54	17.619	
6,300.00	5,035.59	5,000.41	4,999.59	75.95	86.29	90.61	-1,434.94	4,207.84	2,829.00	2,666.76	162.24	17.437	
6,400.00	5,108.54	5,072.54	5,072.54	77.47	87.55	91.62	-1,434.94	4,207.84	2,830.82	2,665.85	164.98	17.159	
6,500.00	5,181.50	5,145.50	5,145.50	78.98	88.82	92.63	-1,434.94	4,207.84	2,834.30	2,666.61	167.69	16.902	
6,600.00	5,254.46	5,218.46	5,218.46	80.49	90.09	93.64	-1,434.94	4,207.84	2,839.41	2,669.06	170.36	16.667	
6,700.00	5,327.41	5,308.59	5,291.41	82.01	91.67	94.64	-1,434.94	4,207.84	2,846.16	2,672.89	173.28	16.425	
6,800.00	5,400.37	5,364.37	5,364.37	83.52	92.64	95.64	-1,434.94	4,207.84	2,854.54	2,678.98	175.55	16.260	
6,900.00	5,473.33	5,437.33	5,437.33	85.04	93.91	96.64	-1,434.94	4,207.84	2,864.52	2,686.44	178.08	16.085	
7,000.00	5,546.28	5,510.28	5,510.28	86.55	95.19	97.64	-1,434.94	4,207.84	2,876.10	2,695.54	180.56	15.929	
7,100.00	5,619.24	5,583.24	5,583.24	88.06	96.46	98.63	-1,434.94	4,207.84	2,889.24	2,706.26	182.99	15.789	
7,200.00	5,692.20	5,656.20	5,656.20	89.58	97.73	99.61	-1,434.94	4,207.84	2,903.94	2,718.58	185.37	15.666	
7,300.00	5,765.15	5,729.15	5,729.15	91.09	99.01	100.59	-1,434.94	4,207.84	2,920.17	2,732.48	187.69	15.558	
7,400.00	5,838.11	5,802.11	5,802.11	92.61	100.28	101.57	-1,434.94	4,207.84	2,937.90	2,747.93	189.97	15.465	
7,500.00	5,911.07	5,875.07	5,875.07	94.12	101.55	102.53	-1,434.94	4,207.84	2,957.11	2,764.91	192.20	15.386	
7,600.00	5,984.03	5,948.03	5,948.03	95.64	102.83	103.49	-1,434.94	4,207.84	2,977.76	2,783.38	194.38	15.319	
7,700.00	6,056.98	6,020.98	6,020.98	97.15	104.10	104.44	-1,434.94	4,207.84	2,999.83	2,803.32	196.51	15.265	
7,800.00	6,129.94	6,106.06	6,093.94	98.67	105.58	105.39	-1,434.94	4,207.84	3,023.29	2,824.48	198.81	15.207	
7,900.00	6,202.90	6,166.90	6,166.90	100.18	106.65	106.32	-1,434.94	4,207.84	3,048.10	2,847.46	200.64	15.192	
8,000.00	6,275.85	6,239.85	6,239.85	101.70	107.92	107.25	-1,434.94	4,207.84	3,074.23	2,871.60	202.63	15.172	
8,100.00	6,348.81	6,312.81	6,312.81	103.21	109.19	108.17	-1,434.94	4,207.84	3,101.65	2,897.07	204.58	15.161	
8,200.00	6,421.77	6,385.77	6,385.77	104.73	110.47	109.07	-1,434.94	4,207.84	3,130.33	2,923.84	206.49	15.160	
8,300.00	6,494.72	6,458.72	6,458.72	106.24	111.74	109.97	-1,434.94	4,207.84	3,160.22	2,951.86	208.36	15.167	
8,400.00	6,567.68	6,531.68	6,531.68	107.76	113.01	110.86	-1,434.94	4,207.84	3,191.30	2,981.11	210.19	15.183	
8,500.00	6,640.64	6,604.64	6,604.64	109.27	114.29	111.74	-1,434.94	4,207.84	3,223.54	3,011.55	211.99	15.206	
8,600.00	6,713.59	6,677.59	6,677.59	110.79	115.56	112.60	-1,434.94	4,207.84	3,256.89	3,043.14	213.75	15.237	
8,700.00	6,786.55	6,750.55	6,750.55	112.30	116.83	113.46	-1,434.94	4,207.84	3,291.32	3,075.85	215.47	15.275	
8,800.00	6,859.51	6,823.51	6,823.51	113.82	118.11	114.30	-1,434.94	4,207.84	3,326.80	3,109.64	217.17	15.319	
8,900.00	6,932.46	6,903.54	6,896.46	115.33	119.50	115.14	-1,434.94	4,207.84	3,363.30	3,144.35	218.96	15.361	
9,000.00	7,005.42	6,969.42	6,969.42	116.85	120.65	115.96	-1,434.94	4,207.84	3,400.78	3,180.31	220.47	15.425	
9,104.89	7,081.95	7,045.95	7,045.95	118.44	121.99	116.81	-1,434.94	4,207.84	3,441.12	3,218.96	222.16	15.489	
9,150.00	7,115.15	7,079.15	7,079.15	119.12	122.57	112.07	-1,434.94	4,207.84	3,457.17	3,234.28	222.89	15.511	
9,200.00	7,152.46	7,116.46	7,116.46	119.86	123.22	106.63	-1,434.94	4,207.84	3,471.34	3,247.63	223.70	15.518	
9,250.00	7,190.04	7,154.04	7,154.04	120.57	123.88	101.14	-1,434.94	4,207.84	3,481.63	3,257.11	224.52	15.507	
9,300.00	7,227.59	7,208.41	7,191.59	121.25	124.82	95.74	-1,434.94	4,207.84	3,488.01	3,262.38	225.62	15.459	
9,350.00	7,264.83	7,228.83	7,228.83	121.89	125.18	90.58	-1,434.94	4,207.84	3,490.44	3,264.32	226.12	15.436	
9,400.00	7,301.48	7,265.48	7,265.48	122.48	125.82	85.80	-1,434.94	4,207.84	3,488.93	3,262.05	226.88	15.378	
9,450.00	7,337.26	7,301.26	7,301.26	123.01	126.44	81.50	-1,434.94	4,207.84	3,483.52	3,255.91	227.61	15.305	
9,500.00	7,371.90	7,335.90	7,335.90	123.49	127.05	77.74	-1,434.94	4,207.84	3,474.25	3,245.97	228.28	15.219	
9,550.00	7,405.13	7,369.13	7,369.13	123.91	127.63	74.56	-1,434.94	4,207.84	3,461.21	3,232.30	228.91	15.121	
9,600.00	7,436.70	7,400.70	7,400.70	124.27	128.18	71.97	-1,434.94	4,207.84	3,444.49	3,215.02	229.47	15.011	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	7,430.36	7,430.36	124.57	128.70	69.98	-1,434.94	4,207.84	3,424.22	3,194.26	229.96	14.890	
9,700.00	7,493.91	7,457.91	7,457.91	124.81	129.18	68.57	-1,434.94	4,207.84	3,400.54	3,170.16	230.38	14.760	
9,750.00	7,519.11	7,483.11	7,483.11	125.00	129.62	67.75	-1,434.94	4,207.84	3,373.62	3,142.89	230.73	14.621	
9,800.00	7,541.79	7,505.79	7,505.79	125.12	130.01	67.55	-1,434.94	4,207.84	3,343.65	3,112.64	231.01	14.474	
9,850.00	7,561.77	7,525.77	7,525.77	125.20	130.36	67.98	-1,434.94	4,207.84	3,310.82	3,079.62	231.20	14.320	
9,900.00	7,578.90	7,542.90	7,542.90	125.23	130.66	69.12	-1,434.94	4,207.84	3,275.35	3,044.03	231.32	14.159	
9,950.00	7,593.04	7,557.04	7,557.04	125.22	130.91	71.05	-1,434.94	4,207.84	3,237.48	3,006.11	231.37	13.993	
10,000.00	7,604.09	7,568.09	7,568.09	125.17	131.10	73.92	-1,434.94	4,207.84	3,197.46	2,966.12	231.34	13.821	
10,050.00	7,611.97	7,575.97	7,575.97	125.08	131.24	77.95	-1,434.94	4,207.84	3,155.54	2,924.29	231.25	13.646	
10,100.00	7,616.61	7,580.61	7,580.61	124.97	131.32	83.41	-1,434.94	4,207.84	3,112.00	2,880.91	231.09	13.466	
10,145.95	7,618.00	7,582.00	7,582.00	124.84	131.34	90.00	-1,434.94	4,207.84	3,070.81	2,839.91	230.90	13.299	
10,200.00	7,618.00	7,582.00	7,582.00	124.69	131.34	90.00	-1,434.94	4,207.84	3,021.86	2,791.22	230.65	13.102	
10,300.00	7,618.00	7,582.00	7,582.00	124.41	131.34	90.00	-1,434.94	4,207.84	2,931.78	2,701.65	230.14	12.739	
10,400.00	7,618.00	7,582.00	7,582.00	124.14	131.34	90.00	-1,434.94	4,207.84	2,842.37	2,612.78	229.59	12.380	
10,500.00	7,618.00	7,582.00	7,582.00	123.88	131.34	90.00	-1,434.94	4,207.84	2,753.68	2,524.69	228.98	12.026	
10,600.00	7,618.00	7,582.00	7,582.00	123.63	131.34	90.00	-1,434.94	4,207.84	2,665.79	2,437.46	228.32	11.676	
10,700.00	7,618.00	7,582.00	7,582.00	123.40	131.34	90.00	-1,434.94	4,207.84	2,578.78	2,351.18	227.60	11.330	
10,800.00	7,618.00	7,582.00	7,582.00	123.18	131.34	90.00	-1,434.94	4,207.84	2,492.75	2,265.94	226.81	10.991	
10,900.00	7,618.00	7,582.00	7,582.00	122.96	131.34	90.00	-1,434.94	4,207.84	2,407.79	2,181.86	225.94	10.657	
11,000.00	7,618.00	7,582.00	7,582.00	122.76	131.34	90.00	-1,434.94	4,207.84	2,324.04	2,099.06	224.98	10.330	
11,100.00	7,618.00	7,582.00	7,582.00	122.57	131.34	90.00	-1,434.94	4,207.84	2,241.62	2,017.69	223.92	10.011	
11,200.00	7,618.00	7,582.00	7,582.00	122.39	131.34	90.00	-1,434.94	4,207.84	2,160.68	1,937.92	222.76	9.700	
11,300.00	7,618.00	7,582.00	7,582.00	122.23	131.34	90.00	-1,434.94	4,207.84	2,081.40	1,859.93	221.47	9.398	
11,400.00	7,618.00	7,582.00	7,582.00	122.07	131.34	90.00	-1,434.94	4,207.84	2,003.97	1,783.92	220.05	9.107	
11,500.00	7,618.00	7,582.00	7,582.00	121.93	131.34	90.00	-1,434.94	4,207.84	1,928.63	1,710.14	218.49	8.827	
11,600.00	7,618.00	7,582.00	7,582.00	121.79	131.34	90.00	-1,434.94	4,207.84	1,855.61	1,638.85	216.76	8.561	
11,700.00	7,618.00	7,582.00	7,582.00	121.67	131.34	90.00	-1,434.94	4,207.84	1,785.21	1,570.35	214.86	8.309	
11,800.00	7,618.00	7,582.00	7,582.00	121.56	131.34	90.00	-1,434.94	4,207.84	1,717.75	1,504.96	212.79	8.073	
11,900.00	7,618.00	7,582.00	7,582.00	121.46	131.34	90.00	-1,434.94	4,207.84	1,653.59	1,443.06	210.53	7.855	
12,000.00	7,618.00	7,582.00	7,582.00	121.38	131.34	90.00	-1,434.94	4,207.84	1,593.12	1,385.03	208.09	7.656	
12,100.00	7,618.00	7,582.00	7,582.00	121.30	131.34	90.00	-1,434.94	4,207.84	1,536.79	1,331.29	205.50	7.478	
12,200.00	7,618.00	7,582.00	7,582.00	121.24	131.34	90.00	-1,434.94	4,207.84	1,485.06	1,282.27	202.79	7.323	
12,300.00	7,618.00	7,582.00	7,582.00	121.19	131.34	90.00	-1,434.94	4,207.84	1,438.44	1,238.40	200.03	7.191	
12,400.00	7,618.00	7,582.00	7,582.00	121.16	131.34	90.00	-1,434.94	4,207.84	1,397.42	1,200.11	197.31	7.082	
12,500.00	7,618.00	7,582.00	7,582.00	121.14	131.34	90.00	-1,434.94	4,207.84	1,362.53	1,167.77	194.76	6.996	
12,600.00	7,618.00	7,582.00	7,582.00	121.13	131.34	90.00	-1,434.94	4,207.84	1,334.23	1,141.69	192.54	6.930	
12,700.00	7,618.00	7,582.00	7,582.00	121.13	131.34	90.00	-1,434.94	4,207.84	1,312.95	1,122.13	190.82	6.880	
12,800.00	7,618.00	7,582.00	7,582.00	121.15	131.34	90.00	-1,434.94	4,207.84	1,299.05	1,109.26	189.79	6.845	
12,900.00	7,618.00	7,582.00	7,582.00	121.18	131.34	90.00	-1,434.94	4,207.84	1,292.76	1,103.21	189.55	6.820	
12,931.56	7,618.00	7,582.00	7,582.00	121.19	131.34	90.00	-1,434.94	4,207.84	1,292.37	1,102.72	189.66	6.814	CC, ES
13,000.00	7,618.00	7,582.00	7,582.00	121.23	131.34	90.00	-1,434.94	4,207.84	1,294.18	1,104.03	190.15	6.806	
13,100.00	7,618.00	7,582.00	7,582.00	121.29	131.34	90.00	-1,434.94	4,207.84	1,303.30	1,111.76	191.54	6.804	SF
13,200.00	7,618.00	7,582.00	7,582.00	121.37	131.34	90.00	-1,434.94	4,207.84	1,319.96	1,126.36	193.60	6.818	
13,300.00	7,618.00	7,582.00	7,582.00	121.46	131.34	90.00	-1,434.94	4,207.84	1,343.87	1,147.73	196.13	6.852	
13,400.00	7,618.00	7,582.00	7,582.00	121.57	131.34	90.00	-1,434.94	4,207.84	1,374.65	1,175.68	198.97	6.909	
13,500.00	7,618.00	7,582.00	7,582.00	121.70	131.34	90.00	-1,434.94	4,207.84	1,411.86	1,209.91	201.95	6.991	
13,600.00	7,618.00	7,582.00	7,582.00	121.84	131.34	90.00	-1,434.94	4,207.84	1,455.00	1,250.07	204.93	7.100	
13,700.00	7,618.00	7,582.00	7,582.00	122.01	131.34	90.00	-1,434.94	4,207.84	1,503.57	1,295.75	207.83	7.235	
13,800.00	7,618.00	7,582.00	7,582.00	122.19	131.34	90.00	-1,434.94	4,207.84	1,557.05	1,346.48	210.57	7.394	
13,900.00	7,618.00	7,582.00	7,582.00	122.39	131.34	90.00	-1,434.94	4,207.84	1,614.96	1,401.83	213.13	7.577	
14,000.00	7,618.00	7,582.00	7,582.00	122.62	131.34	90.00	-1,434.94	4,207.84	1,676.84	1,461.36	215.48	7.782	
14,100.00	7,618.00	7,582.00	7,582.00	122.86	131.34	90.00	-1,434.94	4,207.84	1,742.26	1,524.64	217.63	8.006	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,200.00	7,618.00	7,582.00	7,582.00	123.12	131.34	90.00	-1,434.94	4,207.84	1,810.85	1,591.27	219.57	8.247	
14,300.00	7,618.00	7,582.00	7,582.00	123.41	131.34	90.00	-1,434.94	4,207.84	1,882.25	1,660.92	221.33	8.504	
14,400.00	7,618.00	7,582.00	7,582.00	123.72	131.34	90.00	-1,434.94	4,207.84	1,956.15	1,733.25	222.91	8.776	
14,500.00	7,618.00	7,582.00	7,582.00	124.06	131.34	90.00	-1,434.94	4,207.84	2,032.29	1,807.97	224.33	9.060	
14,600.00	7,618.00	7,582.00	7,582.00	124.42	131.34	90.00	-1,434.94	4,207.84	2,110.43	1,884.83	225.60	9.355	
14,700.00	7,618.00	7,582.00	7,582.00	124.80	131.34	90.00	-1,434.94	4,207.84	2,190.34	1,963.59	226.75	9.660	
14,800.00	7,618.00	7,582.00	7,582.00	125.21	131.34	90.00	-1,434.94	4,207.84	2,271.85	2,044.07	227.78	9.974	
14,900.00	7,618.00	7,582.00	7,582.00	125.65	131.34	90.00	-1,434.94	4,207.84	2,354.78	2,126.07	228.71	10.296	
15,000.00	7,618.00	7,582.00	7,582.00	126.11	131.34	90.00	-1,434.94	4,207.84	2,438.99	2,209.44	229.55	10.625	
15,100.00	7,618.00	7,582.00	7,582.00	126.61	131.34	90.00	-1,434.94	4,207.84	2,524.35	2,294.05	230.30	10.961	
15,200.00	7,618.00	7,582.00	7,582.00	127.13	131.34	90.00	-1,434.94	4,207.84	2,610.75	2,379.77	230.99	11.303	
15,300.00	7,618.00	7,582.00	7,582.00	127.68	131.34	90.00	-1,434.94	4,207.84	2,698.10	2,466.49	231.61	11.650	
15,400.00	7,618.00	7,582.00	7,582.00	128.26	131.34	90.00	-1,434.94	4,207.84	2,786.29	2,554.12	232.17	12.001	
15,500.00	7,618.00	7,582.00	7,582.00	128.87	131.34	90.00	-1,434.94	4,207.84	2,875.26	2,642.57	232.68	12.357	
15,600.00	7,618.00	7,582.00	7,582.00	129.51	131.34	90.00	-1,434.94	4,207.84	2,964.93	2,731.78	233.15	12.717	
15,700.00	7,618.00	7,582.00	7,582.00	130.18	131.34	90.00	-1,434.94	4,207.84	3,055.24	2,821.66	233.58	13.080	
15,800.00	7,618.00	7,582.00	7,582.00	130.88	131.34	90.00	-1,434.94	4,207.84	3,146.13	2,912.17	233.97	13.447	
15,900.00	7,618.00	7,582.00	7,582.00	131.61	131.34	90.00	-1,434.94	4,207.84	3,237.57	3,003.24	234.33	13.816	
16,000.00	7,618.00	7,582.00	7,582.00	132.37	131.34	90.00	-1,434.94	4,207.84	3,329.49	3,094.84	234.66	14.189	
16,100.00	7,618.00	7,582.00	7,582.00	133.17	131.34	90.00	-1,434.94	4,207.84	3,421.87	3,186.91	234.96	14.563	
16,200.00	7,618.00	7,582.00	7,582.00	133.99	131.34	90.00	-1,434.94	4,207.84	3,514.67	3,279.43	235.24	14.940	
16,300.00	7,618.00	7,582.00	7,582.00	134.84	131.34	90.00	-1,434.94	4,207.84	3,607.85	3,372.35	235.51	15.320	
16,400.00	7,618.00	7,582.00	7,582.00	135.72	131.34	90.00	-1,434.94	4,207.84	3,701.39	3,465.64	235.75	15.701	
16,500.00	7,618.00	7,582.00	7,582.00	136.63	131.34	90.00	-1,434.94	4,207.84	3,795.26	3,559.29	235.97	16.084	
16,600.00	7,618.00	7,582.00	7,582.00	137.57	131.34	90.00	-1,434.94	4,207.84	3,889.43	3,653.25	236.18	16.468	
16,700.00	7,618.00	7,582.00	7,582.00	138.54	131.34	90.00	-1,434.94	4,207.84	3,983.89	3,747.51	236.38	16.854	
16,800.00	7,618.00	7,582.00	7,582.00	139.53	131.34	90.00	-1,434.94	4,207.84	4,078.61	3,842.05	236.56	17.242	
16,900.00	7,618.00	7,582.00	7,582.00	140.55	131.34	90.00	-1,434.94	4,207.84	4,173.57	3,936.85	236.73	17.630	
17,000.00	7,618.00	7,582.00	7,582.00	141.60	131.34	90.00	-1,434.94	4,207.84	4,268.77	4,031.88	236.89	18.020	
17,100.00	7,618.00	7,582.00	7,582.00	142.67	131.34	90.00	-1,434.94	4,207.84	4,364.18	4,127.15	237.04	18.411	
17,200.00	7,618.00	7,582.00	7,582.00	143.77	131.34	90.00	-1,434.94	4,207.84	4,459.80	4,222.62	237.18	18.803	
17,300.00	7,618.00	7,582.00	7,582.00	144.88	131.34	90.00	-1,434.94	4,207.84	4,555.60	4,318.29	237.31	19.197	
17,400.00	7,618.00	7,582.00	7,582.00	146.02	131.34	90.00	-1,434.94	4,207.84	4,651.58	4,414.14	237.44	19.591	
17,500.00	7,618.00	7,582.00	7,582.00	147.19	131.34	90.00	-1,434.94	4,207.84	4,747.72	4,510.16	237.56	19.986	
17,600.00	7,618.00	7,582.00	7,582.00	148.37	131.34	90.00	-1,434.94	4,207.84	4,844.02	4,606.35	237.67	20.381	
17,700.00	7,618.00	7,582.00	7,582.00	149.57	131.34	90.00	-1,434.94	4,207.84	4,940.47	4,702.69	237.78	20.778	
17,800.00	7,618.00	7,582.00	7,582.00	150.79	131.34	90.00	-1,434.94	4,207.84	5,037.05	4,799.17	237.88	21.175	
17,900.00	7,618.00	7,582.00	7,582.00	152.03	131.34	90.00	-1,434.94	4,207.84	5,133.77	4,895.79	237.98	21.573	
18,000.00	7,618.00	7,582.00	7,582.00	153.29	131.34	90.00	-1,434.94	4,207.84	5,230.61	4,992.54	238.07	21.971	
18,100.00	7,618.00	7,582.00	7,582.00	154.57	131.34	90.00	-1,434.94	4,207.84	5,327.57	5,089.41	238.16	22.370	
18,200.00	7,618.00	7,582.00	7,582.00	155.86	131.34	90.00	-1,434.94	4,207.84	5,424.63	5,186.39	238.24	22.770	
18,300.00	7,618.00	7,582.00	7,582.00	157.17	131.34	90.00	-1,434.94	4,207.84	5,521.81	5,283.48	238.32	23.170	
18,400.00	7,618.00	7,582.00	7,582.00	158.49	131.34	90.00	-1,434.94	4,207.84	5,619.08	5,380.68	238.40	23.570	
18,500.00	7,618.00	7,582.00	7,582.00	159.82	131.34	90.00	-1,434.94	4,207.84	5,716.44	5,477.97	238.47	23.971	
18,600.00	7,618.00	7,582.00	7,582.00	161.17	131.34	90.00	-1,434.94	4,207.84	5,813.90	5,575.35	238.55	24.372	
18,700.00	7,618.00	7,582.00	7,582.00	162.54	131.34	90.00	-1,434.94	4,207.84	5,911.44	5,672.82	238.61	24.774	
18,800.00	7,618.00	7,582.00	7,582.00	163.91	131.34	90.00	-1,434.94	4,207.84	6,009.06	5,770.38	238.68	25.176	
18,900.00	7,618.00	7,582.00	7,582.00	165.30	131.34	90.00	-1,434.94	4,207.84	6,106.76	5,868.01	238.74	25.579	
19,000.00	7,618.00	7,582.00	7,582.00	166.70	131.34	90.00	-1,434.94	4,207.84	6,204.53	5,965.72	238.81	25.981	
19,100.00	7,618.00	7,582.00	7,582.00	168.10	131.34	90.00	-1,434.94	4,207.84	6,302.37	6,063.50	238.87	26.384	
19,200.00	7,618.00	7,582.00	7,582.00	169.52	131.34	90.00	-1,434.94	4,207.84	6,400.28	6,161.35	238.93	26.788	
19,300.00	7,618.00	7,582.00	7,582.00	170.95	131.34	90.00	-1,434.94	4,207.84	6,498.25	6,259.26	238.98	27.191	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	7,582.00	7,582.00	172.39	131.34	90.00	-1,434.94	4,207.84	6,596.28	6,357.24	239.04	27.595	
19,500.00	7,618.00	7,582.00	7,582.00	173.84	131.34	90.00	-1,434.94	4,207.84	6,694.37	6,455.28	239.09	27.999	
19,600.00	7,618.00	7,582.00	7,582.00	175.30	131.34	90.00	-1,434.94	4,207.84	6,792.52	6,553.37	239.14	28.404	
19,700.00	7,618.00	7,582.00	7,582.00	176.76	131.34	90.00	-1,434.94	4,207.84	6,890.72	6,651.52	239.19	28.808	
19,800.00	7,618.00	7,582.00	7,582.00	178.24	131.34	90.00	-1,434.94	4,207.84	6,988.97	6,749.72	239.24	29.213	
19,896.19	7,618.00	7,582.00	7,582.00	179.66	131.34	90.00	-1,434.94	4,207.84	7,083.52	6,844.23	239.29	29.602	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	124.25	-3,055.97	4,488.15	5,429.97				
100.00	100.00	55.00	55.00	0.13	0.42	124.25	-3,055.97	4,488.15	5,429.78	5,429.22	0.56	9,751.809	
200.00	200.00	155.00	155.00	0.49	1.73	124.25	-3,055.97	4,488.15	5,429.78	5,427.56	2.22	2,444.993	
300.00	299.98	254.98	254.98	0.85	3.47	54.97	-3,055.97	4,488.15	5,428.78	5,424.46	4.32	1,256.567	
400.00	399.84	354.84	354.84	1.21	5.22	55.06	-3,055.97	4,488.15	5,425.77	5,419.35	6.42	844.924	
500.00	499.45	454.45	454.45	1.58	6.95	55.22	-3,055.97	4,488.15	5,420.78	5,412.25	8.53	635.628	
600.00	598.70	553.70	553.70	1.97	8.69	55.44	-3,055.97	4,488.15	5,413.81	5,403.17	10.64	508.752	
700.00	697.47	652.47	652.47	2.38	10.41	55.72	-3,055.97	4,488.15	5,404.89	5,392.13	12.76	423.474	
800.00	795.62	750.62	750.62	2.83	12.12	56.07	-3,055.97	4,488.15	5,394.06	5,379.16	14.90	362.106	
900.00	893.06	848.06	848.06	3.31	13.82	56.48	-3,055.97	4,488.15	5,381.34	5,364.30	17.04	315.744	
1,000.00	989.64	944.64	944.64	3.83	15.51	56.95	-3,055.97	4,488.15	5,366.79	5,347.58	19.21	279.420	
1,100.00	1,085.27	1,040.27	1,040.27	4.40	17.18	57.48	-3,055.97	4,488.15	5,350.46	5,329.07	21.39	250.145	
1,200.00	1,179.82	1,134.82	1,134.82	5.02	18.83	58.08	-3,055.97	4,488.15	5,332.40	5,308.80	23.59	226.012	
1,300.00	1,273.17	1,228.17	1,228.17	5.70	20.46	58.73	-3,055.97	4,488.15	5,312.68	5,286.86	25.82	205.748	
1,400.00	1,365.21	1,320.21	1,320.21	6.43	22.06	59.45	-3,055.97	4,488.15	5,291.37	5,263.30	28.08	188.471	
1,500.00	1,455.84	1,410.84	1,410.84	7.23	23.65	60.22	-3,055.97	4,488.15	5,268.56	5,238.20	30.36	173.550	
1,600.00	1,544.94	1,500.06	1,499.94	8.09	25.20	61.05	-3,055.97	4,488.15	5,244.32	5,211.64	32.67	160.513	
1,700.00	1,632.39	1,587.39	1,587.39	9.01	26.73	61.94	-3,055.97	4,488.15	5,218.74	5,183.73	35.01	149.045	
1,800.00	1,718.11	1,673.11	1,673.11	10.00	28.22	62.88	-3,055.97	4,488.15	5,191.93	5,154.54	37.39	138.847	
1,900.00	1,801.97	1,756.97	1,756.97	11.07	29.69	63.87	-3,055.97	4,488.15	5,163.98	5,124.18	39.81	129.726	
2,000.00	1,883.88	1,838.88	1,838.88	12.20	31.12	64.91	-3,055.97	4,488.15	5,135.01	5,092.76	42.26	121.518	
2,100.00	1,963.74	1,918.74	1,918.74	13.41	32.51	65.99	-3,055.97	4,488.15	5,105.13	5,060.39	44.75	114.092	
2,200.00	2,041.45	2,003.55	1,996.45	14.69	33.99	67.11	-3,055.97	4,488.15	5,074.46	5,027.07	47.40	107.064	
2,300.00	2,116.92	2,071.92	2,071.92	16.05	35.18	68.27	-3,055.97	4,488.15	5,043.13	4,993.29	49.84	101.188	
2,357.48	2,159.25	2,114.25	2,114.25	16.86	35.92	68.95	-3,055.97	4,488.15	5,024.86	4,973.53	51.33	97.891	
2,400.00	2,190.27	2,145.27	2,145.27	17.47	36.46	69.19	-3,055.97	4,488.15	5,011.36	4,958.92	52.44	95.560	
2,500.00	2,263.22	2,218.22	2,218.22	18.92	37.74	69.75	-3,055.97	4,488.15	4,980.13	4,925.05	55.08	90.422	
2,600.00	2,336.18	2,308.82	2,291.18	20.37	39.32	70.32	-3,055.97	4,488.15	4,949.64	4,891.60	58.04	85.274	
2,700.00	2,409.14	2,364.14	2,364.14	21.84	40.28	70.89	-3,055.97	4,488.15	4,919.92	4,859.50	60.42	81.429	
2,800.00	2,482.09	2,437.09	2,437.09	23.31	41.56	71.47	-3,055.97	4,488.15	4,890.97	4,827.85	63.12	77.483	
2,900.00	2,555.05	2,510.05	2,510.05	24.78	42.83	72.05	-3,055.97	4,488.15	4,862.81	4,796.97	65.85	73.850	
3,000.00	2,628.01	2,583.01	2,583.01	26.27	44.10	72.63	-3,055.97	4,488.15	4,835.46	4,766.87	68.59	70.500	
3,100.00	2,700.96	2,655.96	2,655.96	27.75	45.38	73.22	-3,055.97	4,488.15	4,808.92	4,737.58	71.35	67.402	
3,200.00	2,773.92	2,728.92	2,728.92	29.24	46.65	73.81	-3,055.97	4,488.15	4,783.22	4,709.10	74.12	64.533	
3,300.00	2,846.88	2,801.88	2,801.88	30.73	47.92	74.41	-3,055.97	4,488.15	4,758.35	4,681.45	76.91	61.871	
3,400.00	2,919.83	2,874.83	2,874.83	32.23	49.20	75.00	-3,055.97	4,488.15	4,734.35	4,654.64	79.71	59.396	
3,500.00	2,992.79	2,947.79	2,947.79	33.72	50.47	75.61	-3,055.97	4,488.15	4,711.21	4,628.69	82.52	57.091	
3,600.00	3,065.75	3,020.75	3,020.75	35.22	51.74	76.21	-3,055.97	4,488.15	4,688.96	4,603.62	85.35	54.941	
3,700.00	3,138.71	3,106.29	3,093.71	36.72	53.24	76.82	-3,055.97	4,488.15	4,667.61	4,579.21	88.40	52.801	
3,800.00	3,211.66	3,166.66	3,166.66	38.22	54.29	77.43	-3,055.97	4,488.15	4,647.16	4,556.14	91.02	51.054	
3,900.00	3,284.62	3,239.62	3,239.62	39.72	55.56	78.05	-3,055.97	4,488.15	4,627.64	4,533.76	93.88	49.295	
4,000.00	3,357.58	3,312.58	3,312.58	41.22	56.84	78.66	-3,055.97	4,488.15	4,609.04	4,512.31	96.73	47.646	
4,100.00	3,430.53	3,385.53	3,385.53	42.73	58.11	79.28	-3,055.97	4,488.15	4,591.39	4,491.79	99.60	46.099	
4,200.00	3,503.49	3,458.49	3,458.49	44.23	59.38	79.90	-3,055.97	4,488.15	4,574.70	4,472.23	102.47	44.645	
4,300.00	3,576.45	3,531.45	3,531.45	45.74	60.66	80.53	-3,055.97	4,488.15	4,558.97	4,453.62	105.34	43.278	
4,400.00	3,649.40	3,604.40	3,604.40	47.25	61.93	81.16	-3,055.97	4,488.15	4,544.21	4,435.99	108.22	41.991	
4,500.00	3,722.36	3,677.36	3,677.36	48.75	63.20	81.78	-3,055.97	4,488.15	4,530.44	4,419.34	111.10	40.779	
4,600.00	3,795.32	3,750.32	3,750.32	50.26	64.48	82.42	-3,055.97	4,488.15	4,517.66	4,403.69	113.97	39.637	
4,700.00	3,868.27	3,823.27	3,823.27	51.77	65.75	83.05	-3,055.97	4,488.15	4,505.88	4,389.03	116.85	38.560	
4,800.00	3,941.23	3,903.77	3,896.23	53.28	67.16	83.68	-3,055.97	4,488.15	4,495.12	4,375.26	119.86	37.503	
4,900.00	4,014.19	3,969.19	3,969.19	54.79	68.30	84.32	-3,055.97	4,488.15	4,485.37	4,362.77	122.60	36.585	
5,000.00	4,087.15	4,042.15	4,042.15	56.30	69.57	84.96	-3,055.97	4,488.15	4,476.64	4,351.17	125.47	35.678	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,160.10	4,115.10	4,115.10	57.81	70.84	85.60	-3,055.97	4,488.15	4,468.95	4,340.61	128.34	34.822	
5,200.00	4,233.06	4,188.06	4,188.06	59.32	72.12	86.24	-3,055.97	4,488.15	4,462.29	4,331.09	131.19	34.013	
5,300.00	4,306.02	4,261.02	4,261.02	60.83	73.39	86.88	-3,055.97	4,488.15	4,456.67	4,322.62	134.04	33.248	
5,400.00	4,378.97	4,333.97	4,333.97	62.34	74.66	87.52	-3,055.97	4,488.15	4,452.09	4,315.20	136.89	32.524	
5,500.00	4,451.93	4,406.93	4,406.93	63.85	75.94	88.16	-3,055.97	4,488.15	4,448.56	4,308.84	139.72	31.839	
5,600.00	4,524.89	4,479.89	4,479.89	65.36	77.21	88.80	-3,055.97	4,488.15	4,446.08	4,303.54	142.54	31.192	
5,700.00	4,597.84	4,552.84	4,552.84	66.88	78.48	89.45	-3,055.97	4,488.15	4,444.65	4,299.30	145.35	30.579	
5,785.93	4,660.54	4,615.54	4,615.54	68.18	79.58	90.00	-3,055.97	4,488.15	4,444.26	4,296.50	147.75	30.079	
5,800.00	4,670.80	4,625.80	4,625.80	68.39	79.76	90.09	-3,055.97	4,488.15	4,444.27	4,296.12	148.15	29.999	
5,900.00	4,743.76	4,701.24	4,698.76	69.90	81.07	90.73	-3,055.97	4,488.15	4,444.94	4,293.97	150.97	29.442	
6,000.00	4,816.71	4,771.71	4,771.71	71.41	82.30	91.38	-3,055.97	4,488.15	4,446.67	4,292.97	153.70	28.931	
6,100.00	4,889.67	4,844.67	4,844.67	72.93	83.58	92.02	-3,055.97	4,488.15	4,449.44	4,293.00	156.45	28.440	
6,200.00	4,962.63	4,917.63	4,917.63	74.44	84.85	92.66	-3,055.97	4,488.15	4,453.27	4,294.09	159.18	27.976	
6,300.00	5,035.59	5,009.41	4,990.59	75.95	86.45	93.30	-3,055.97	4,488.15	4,458.14	4,295.91	162.23	27.480	
6,400.00	5,108.54	5,063.54	5,063.54	77.47	87.40	93.94	-3,055.97	4,488.15	4,464.06	4,299.45	164.60	27.120	
6,500.00	5,181.50	5,136.50	5,136.50	78.98	88.67	94.58	-3,055.97	4,488.15	4,471.01	4,303.73	167.28	26.727	
6,600.00	5,254.46	5,209.46	5,209.46	80.49	89.94	95.22	-3,055.97	4,488.15	4,478.99	4,309.05	169.94	26.356	
6,700.00	5,327.41	5,282.41	5,282.41	82.01	91.22	95.86	-3,055.97	4,488.15	4,488.01	4,315.43	172.58	26.005	
6,800.00	5,400.37	5,355.37	5,355.37	83.52	92.49	96.50	-3,055.97	4,488.15	4,498.04	4,322.84	175.20	25.674	
6,900.00	5,473.33	5,428.33	5,428.33	85.04	93.76	97.13	-3,055.97	4,488.15	4,509.10	4,331.30	177.80	25.361	
7,000.00	5,546.28	5,501.28	5,501.28	86.55	95.04	97.76	-3,055.97	4,488.15	4,521.15	4,340.78	180.37	25.066	
7,100.00	5,619.24	5,574.24	5,574.24	88.06	96.31	98.39	-3,055.97	4,488.15	4,534.21	4,351.29	182.92	24.788	
7,200.00	5,692.20	5,647.20	5,647.20	89.58	97.58	99.02	-3,055.97	4,488.15	4,548.26	4,362.81	185.45	24.525	
7,300.00	5,765.15	5,720.15	5,720.15	91.09	98.86	99.65	-3,055.97	4,488.15	4,563.29	4,375.34	187.96	24.278	
7,400.00	5,838.11	5,806.89	5,793.11	92.61	100.37	100.27	-3,055.97	4,488.15	4,579.30	4,388.62	190.68	24.016	
7,500.00	5,911.07	5,866.07	5,866.07	94.12	101.40	100.89	-3,055.97	4,488.15	4,596.26	4,403.37	192.90	23.828	
7,600.00	5,984.03	5,939.03	5,939.03	95.64	102.68	101.51	-3,055.97	4,488.15	4,614.18	4,418.85	195.33	23.623	
7,700.00	6,056.98	6,011.98	6,011.98	97.15	103.95	102.13	-3,055.97	4,488.15	4,633.04	4,435.30	197.74	23.430	
7,800.00	6,129.94	6,084.94	6,084.94	98.67	105.22	102.74	-3,055.97	4,488.15	4,652.82	4,452.70	200.12	23.250	
7,900.00	6,202.90	6,157.90	6,157.90	100.18	106.50	103.35	-3,055.97	4,488.15	4,673.52	4,471.04	202.48	23.081	
8,000.00	6,275.85	6,230.85	6,230.85	101.70	107.77	103.96	-3,055.97	4,488.15	4,695.13	4,490.31	204.82	22.923	
8,100.00	6,348.81	6,303.81	6,303.81	103.21	109.04	104.56	-3,055.97	4,488.15	4,717.63	4,510.50	207.13	22.776	
8,200.00	6,421.77	6,376.77	6,376.77	104.73	110.32	105.16	-3,055.97	4,488.15	4,741.01	4,531.59	209.42	22.639	
8,300.00	6,494.72	6,449.72	6,449.72	106.24	111.59	105.76	-3,055.97	4,488.15	4,765.26	4,553.58	211.68	22.511	
8,400.00	6,567.68	6,522.68	6,522.68	107.76	112.86	106.36	-3,055.97	4,488.15	4,790.36	4,576.44	213.92	22.393	
8,500.00	6,640.64	6,604.36	6,595.64	109.27	114.29	106.95	-3,055.97	4,488.15	4,816.30	4,600.01	216.29	22.268	
8,600.00	6,713.59	6,668.59	6,668.59	110.79	115.41	107.53	-3,055.97	4,488.15	4,843.07	4,624.74	218.33	22.182	
8,700.00	6,786.55	6,741.55	6,741.55	112.30	116.68	108.12	-3,055.97	4,488.15	4,870.65	4,650.15	220.50	22.089	
8,800.00	6,859.51	6,814.51	6,814.51	113.82	117.96	108.70	-3,055.97	4,488.15	4,899.04	4,676.39	222.65	22.003	
8,900.00	6,932.46	6,887.46	6,887.46	115.33	119.23	109.27	-3,055.97	4,488.15	4,928.20	4,703.43	224.77	21.925	
9,000.00	7,005.42	6,960.42	6,960.42	116.85	120.50	109.84	-3,055.97	4,488.15	4,958.14	4,731.26	226.88	21.854	
9,104.89	7,081.95	7,036.95	7,036.95	118.44	121.84	110.44	-3,055.97	4,488.15	4,990.36	4,761.30	229.06	21.786	
9,150.00	7,115.15	7,070.15	7,070.15	119.12	122.42	105.81	-3,055.97	4,488.15	5,002.77	4,772.77	230.00	21.751	
9,200.00	7,152.46	7,107.46	7,107.46	119.86	123.07	100.45	-3,055.97	4,488.15	5,012.71	4,781.64	231.07	21.694	
9,250.00	7,190.04	7,145.04	7,145.04	120.57	123.73	94.99	-3,055.97	4,488.15	5,018.56	4,786.42	232.14	21.619	
9,300.00	7,227.59	7,182.59	7,182.59	121.25	124.38	89.58	-3,055.97	4,488.15	5,020.29	4,787.09	233.21	21.527	
9,350.00	7,264.83	7,219.83	7,219.83	121.89	125.03	84.37	-3,055.97	4,488.15	5,017.91	4,783.64	234.27	21.420	
9,400.00	7,301.48	7,256.48	7,256.48	122.48	125.67	79.51	-3,055.97	4,488.15	5,011.43	4,776.13	235.30	21.298	
9,450.00	7,337.26	7,307.74	7,292.26	123.01	126.57	75.08	-3,055.97	4,488.15	5,000.89	4,764.33	236.56	21.140	
9,500.00	7,371.90	7,326.90	7,326.90	123.49	126.90	71.16	-3,055.97	4,488.15	4,986.39	4,749.15	237.24	21.018	
9,550.00	7,405.13	7,360.13	7,360.13	123.91	127.48	67.79	-3,055.97	4,488.15	4,968.02	4,729.87	238.14	20.861	
9,600.00	7,436.70	7,408.30	7,391.70	124.27	128.32	64.96	-3,055.97	4,488.15	4,945.90	4,706.63	239.27	20.671	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	7,421.36	7,421.36	124.57	128.55	62.69	-3,055.97	4,488.15	4,920.20	4,680.44	239.76	20.522	
9,700.00	7,493.91	7,448.91	7,448.91	124.81	129.03	60.98	-3,055.97	4,488.15	4,891.09	4,650.63	240.46	20.340	
9,750.00	7,519.11	7,474.11	7,474.11	125.00	129.47	59.82	-3,055.97	4,488.15	4,858.77	4,617.68	241.09	20.153	
9,800.00	7,541.79	7,503.21	7,496.79	125.12	129.98	59.25	-3,055.97	4,488.15	4,823.45	4,581.70	241.75	19.952	
9,850.00	7,561.77	7,516.77	7,516.77	125.20	130.21	59.32	-3,055.97	4,488.15	4,785.40	4,543.28	242.12	19.765	
9,900.00	7,578.90	7,533.90	7,533.90	125.23	130.51	60.14	-3,055.97	4,488.15	4,744.86	4,502.35	242.51	19.566	
9,950.00	7,593.04	7,548.04	7,548.04	125.22	130.76	61.90	-3,055.97	4,488.15	4,702.12	4,459.29	242.83	19.364	
10,000.00	7,604.09	7,559.09	7,559.09	125.17	130.95	64.94	-3,055.97	4,488.15	4,657.47	4,414.40	243.07	19.161	
10,050.00	7,611.97	7,566.97	7,566.97	125.08	131.09	69.88	-3,055.97	4,488.15	4,611.23	4,367.99	243.23	18.958	
10,100.00	7,616.61	7,571.61	7,571.61	124.97	131.17	77.94	-3,055.97	4,488.15	4,563.72	4,320.39	243.33	18.755	
10,145.95	7,618.00	7,573.00	7,573.00	124.84	131.20	90.00	-3,055.97	4,488.15	4,519.22	4,275.87	243.36	18.570	
10,200.00	7,618.00	7,573.00	7,573.00	124.69	131.20	90.00	-3,055.97	4,488.15	4,466.55	4,223.19	243.36	18.354	
10,300.00	7,618.00	7,573.00	7,573.00	124.41	131.20	90.00	-3,055.97	4,488.15	4,369.18	4,125.82	243.36	17.954	
10,400.00	7,618.00	7,573.00	7,573.00	124.14	131.20	90.00	-3,055.97	4,488.15	4,271.93	4,028.58	243.35	17.554	
10,500.00	7,618.00	7,573.00	7,573.00	123.88	131.20	90.00	-3,055.97	4,488.15	4,174.81	3,931.46	243.35	17.156	
10,600.00	7,618.00	7,573.00	7,573.00	123.63	131.20	90.00	-3,055.97	4,488.15	4,077.83	3,834.49	243.34	16.758	
10,700.00	7,618.00	7,573.00	7,573.00	123.40	131.20	90.00	-3,055.97	4,488.15	3,981.01	3,737.67	243.33	16.360	
10,800.00	7,618.00	7,573.00	7,573.00	123.18	131.20	90.00	-3,055.97	4,488.15	3,884.34	3,641.02	243.32	15.964	
10,900.00	7,618.00	7,573.00	7,573.00	122.96	131.20	90.00	-3,055.97	4,488.15	3,787.84	3,544.53	243.31	15.568	
11,000.00	7,618.00	7,573.00	7,573.00	122.76	131.20	90.00	-3,055.97	4,488.15	3,691.53	3,448.24	243.29	15.173	
11,100.00	7,618.00	7,573.00	7,573.00	122.57	131.20	90.00	-3,055.97	4,488.15	3,595.43	3,352.16	243.27	14.780	
11,200.00	7,618.00	7,573.00	7,573.00	122.39	131.20	90.00	-3,055.97	4,488.15	3,499.54	3,256.30	243.24	14.387	
11,300.00	7,618.00	7,573.00	7,573.00	122.23	131.20	90.00	-3,055.97	4,488.15	3,403.88	3,160.68	243.21	13.996	
11,400.00	7,618.00	7,573.00	7,573.00	122.07	131.20	90.00	-3,055.97	4,488.15	3,308.49	3,065.32	243.17	13.606	
11,500.00	7,618.00	7,573.00	7,573.00	121.93	131.20	90.00	-3,055.97	4,488.15	3,213.37	2,970.25	243.12	13.217	
11,600.00	7,618.00	7,573.00	7,573.00	121.79	131.20	90.00	-3,055.97	4,488.15	3,118.56	2,875.50	243.07	12.830	
11,700.00	7,618.00	7,573.00	7,573.00	121.67	131.20	90.00	-3,055.97	4,488.15	3,024.09	2,781.09	243.00	12.445	
11,800.00	7,618.00	7,573.00	7,573.00	121.56	131.20	90.00	-3,055.97	4,488.15	2,929.98	2,687.05	242.93	12.061	
11,900.00	7,618.00	7,573.00	7,573.00	121.46	131.20	90.00	-3,055.97	4,488.15	2,836.28	2,593.44	242.84	11.680	
12,000.00	7,618.00	7,573.00	7,573.00	121.38	131.20	90.00	-3,055.97	4,488.15	2,743.02	2,500.28	242.73	11.301	
12,100.00	7,618.00	7,573.00	7,573.00	121.30	131.20	90.00	-3,055.97	4,488.15	2,650.25	2,407.64	242.61	10.924	
12,200.00	7,618.00	7,573.00	7,573.00	121.24	131.20	90.00	-3,055.97	4,488.15	2,558.02	2,315.56	242.46	10.550	
12,300.00	7,618.00	7,573.00	7,573.00	121.19	131.20	90.00	-3,055.97	4,488.15	2,466.40	2,224.11	242.29	10.179	
12,400.00	7,618.00	7,573.00	7,573.00	121.16	131.20	90.00	-3,055.97	4,488.15	2,375.46	2,133.37	242.09	9.812	
12,500.00	7,618.00	7,573.00	7,573.00	121.14	131.20	90.00	-3,055.97	4,488.15	2,285.28	2,043.42	241.86	9.449	
12,600.00	7,618.00	7,573.00	7,573.00	121.13	131.20	90.00	-3,055.97	4,488.15	2,195.94	1,954.36	241.58	9.090	
12,700.00	7,618.00	7,573.00	7,573.00	121.13	131.20	90.00	-3,055.97	4,488.15	2,107.57	1,866.31	241.25	8.736	
12,800.00	7,618.00	7,573.00	7,573.00	121.15	131.20	90.00	-3,055.97	4,488.15	2,020.27	1,779.40	240.87	8.387	
12,900.00	7,618.00	7,573.00	7,573.00	121.18	131.20	90.00	-3,055.97	4,488.15	1,934.21	1,693.80	240.41	8.045	
13,000.00	7,618.00	7,573.00	7,573.00	121.23	131.20	90.00	-3,055.97	4,488.15	1,849.55	1,609.68	239.87	7.711	
13,100.00	7,618.00	7,573.00	7,573.00	121.29	131.20	90.00	-3,055.97	4,488.15	1,766.50	1,527.26	239.24	7.384	
13,200.00	7,618.00	7,573.00	7,573.00	121.37	131.20	90.00	-3,055.97	4,488.15	1,685.29	1,446.80	238.48	7.067	
13,300.00	7,618.00	7,573.00	7,573.00	121.46	131.20	90.00	-3,055.97	4,488.15	1,606.19	1,368.61	237.58	6.761	
13,400.00	7,618.00	7,573.00	7,573.00	121.57	131.20	90.00	-3,055.97	4,488.15	1,529.55	1,293.03	236.52	6.467	
13,500.00	7,618.00	7,573.00	7,573.00	121.70	131.20	90.00	-3,055.97	4,488.15	1,455.75	1,220.48	235.26	6.188	
13,600.00	7,618.00	7,573.00	7,573.00	121.84	131.20	90.00	-3,055.97	4,488.15	1,385.23	1,151.46	233.78	5.925	
13,700.00	7,618.00	7,573.00	7,573.00	122.01	131.20	90.00	-3,055.97	4,488.15	1,318.54	1,086.51	232.03	5.683	
13,800.00	7,618.00	7,573.00	7,573.00	122.19	131.20	90.00	-3,055.97	4,488.15	1,256.27	1,026.27	230.00	5.462	
13,900.00	7,618.00	7,573.00	7,573.00	122.39	131.20	90.00	-3,055.97	4,488.15	1,199.12	971.46	227.66	5.267	
14,000.00	7,618.00	7,573.00	7,573.00	122.62	131.20	90.00	-3,055.97	4,488.15	1,147.85	922.83	225.02	5.101	
14,100.00	7,618.00	7,573.00	7,573.00	122.86	131.20	90.00	-3,055.97	4,488.15	1,103.28	881.18	222.10	4.967	
14,200.00	7,618.00	7,573.00	7,573.00	123.12	131.20	90.00	-3,055.97	4,488.15	1,066.26	847.25	219.00	4.869	

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			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
14,300.00	7,618.00	7,573.00	7,573.00	123.41	131.20	90.00	-3,055.97	4,488.15	1,037.58	821.72	215.86	4.807	
14,400.00	7,618.00	7,573.00	7,573.00	123.72	131.20	90.00	-3,055.97	4,488.15	1,017.96	805.10	212.86	4.782	SF
14,500.00	7,618.00	7,573.00	7,573.00	124.06	131.20	90.00	-3,055.97	4,488.15	1,007.93	797.67	210.26	4.794	
14,551.64	7,618.00	7,573.00	7,573.00	124.24	131.20	90.00	-3,055.97	4,488.15	1,006.60	797.46	209.15	4.813	CC, ES
14,600.00	7,618.00	7,573.00	7,573.00	124.42	131.20	90.00	-3,055.97	4,488.15	1,007.76	799.49	208.28	4.839	
14,700.00	7,618.00	7,573.00	7,573.00	124.80	131.20	90.00	-3,055.97	4,488.15	1,017.48	810.39	207.09	4.913	
14,800.00	7,618.00	7,573.00	7,573.00	125.21	131.20	90.00	-3,055.97	4,488.15	1,036.79	830.04	206.75	5.015	
14,900.00	7,618.00	7,573.00	7,573.00	125.65	131.20	90.00	-3,055.97	4,488.15	1,065.18	857.97	207.20	5.141	
15,000.00	7,618.00	7,573.00	7,573.00	126.11	131.20	90.00	-3,055.97	4,488.15	1,101.94	893.64	208.30	5.290	
15,100.00	7,618.00	7,573.00	7,573.00	126.61	131.20	90.00	-3,055.97	4,488.15	1,146.27	936.43	209.84	5.463	
15,200.00	7,618.00	7,573.00	7,573.00	127.13	131.20	90.00	-3,055.97	4,488.15	1,197.34	985.68	211.65	5.657	
15,300.00	7,618.00	7,573.00	7,573.00	127.68	131.20	90.00	-3,055.97	4,488.15	1,254.31	1,040.72	213.59	5.873	
15,400.00	7,618.00	7,573.00	7,573.00	128.26	131.20	90.00	-3,055.97	4,488.15	1,316.42	1,100.89	215.53	6.108	
15,500.00	7,618.00	7,573.00	7,573.00	128.87	131.20	90.00	-3,055.97	4,488.15	1,382.98	1,165.57	217.41	6.361	
15,600.00	7,618.00	7,573.00	7,573.00	129.51	131.20	90.00	-3,055.97	4,488.15	1,453.37	1,234.20	219.18	6.631	
15,700.00	7,618.00	7,573.00	7,573.00	130.18	131.20	90.00	-3,055.97	4,488.15	1,527.08	1,306.25	220.83	6.915	
15,800.00	7,618.00	7,573.00	7,573.00	130.88	131.20	90.00	-3,055.97	4,488.15	1,603.63	1,381.30	222.34	7.213	
15,900.00	7,618.00	7,573.00	7,573.00	131.61	131.20	90.00	-3,055.97	4,488.15	1,682.65	1,458.93	223.72	7.521	
16,000.00	7,618.00	7,573.00	7,573.00	132.37	131.20	90.00	-3,055.97	4,488.15	1,763.80	1,538.82	224.97	7.840	
16,100.00	7,618.00	7,573.00	7,573.00	133.17	131.20	90.00	-3,055.97	4,488.15	1,846.80	1,620.68	226.11	8.168	
16,200.00	7,618.00	7,573.00	7,573.00	133.99	131.20	90.00	-3,055.97	4,488.15	1,931.41	1,704.26	227.14	8.503	
16,300.00	7,618.00	7,573.00	7,573.00	134.84	131.20	90.00	-3,055.97	4,488.15	2,017.42	1,789.34	228.08	8.845	
16,400.00	7,618.00	7,573.00	7,573.00	135.72	131.20	90.00	-3,055.97	4,488.15	2,104.68	1,875.75	228.93	9.193	
16,500.00	7,618.00	7,573.00	7,573.00	136.63	131.20	90.00	-3,055.97	4,488.15	2,193.02	1,963.31	229.71	9.547	
16,600.00	7,618.00	7,573.00	7,573.00	137.57	131.20	90.00	-3,055.97	4,488.15	2,282.33	2,051.91	230.41	9.905	
16,700.00	7,618.00	7,573.00	7,573.00	138.54	131.20	90.00	-3,055.97	4,488.15	2,372.48	2,141.43	231.06	10.268	
16,800.00	7,618.00	7,573.00	7,573.00	139.53	131.20	90.00	-3,055.97	4,488.15	2,463.40	2,231.76	231.64	10.634	
16,900.00	7,618.00	7,573.00	7,573.00	140.55	131.20	90.00	-3,055.97	4,488.15	2,555.00	2,322.81	232.19	11.004	
17,000.00	7,618.00	7,573.00	7,573.00	141.60	131.20	90.00	-3,055.97	4,488.15	2,647.21	2,414.52	232.68	11.377	
17,100.00	7,618.00	7,573.00	7,573.00	142.67	131.20	90.00	-3,055.97	4,488.15	2,739.96	2,506.82	233.14	11.752	
17,200.00	7,618.00	7,573.00	7,573.00	143.77	131.20	90.00	-3,055.97	4,488.15	2,833.20	2,599.64	233.57	12.130	
17,300.00	7,618.00	7,573.00	7,573.00	144.88	131.20	90.00	-3,055.97	4,488.15	2,926.89	2,692.94	233.96	12.510	
17,400.00	7,618.00	7,573.00	7,573.00	146.02	131.20	90.00	-3,055.97	4,488.15	3,020.99	2,786.67	234.32	12.892	
17,500.00	7,618.00	7,573.00	7,573.00	147.19	131.20	90.00	-3,055.97	4,488.15	3,115.45	2,880.79	234.66	13.276	
17,600.00	7,618.00	7,573.00	7,573.00	148.37	131.20	90.00	-3,055.97	4,488.15	3,210.25	2,975.27	234.98	13.662	
17,700.00	7,618.00	7,573.00	7,573.00	149.57	131.20	90.00	-3,055.97	4,488.15	3,305.36	3,070.08	235.27	14.049	
17,800.00	7,618.00	7,573.00	7,573.00	150.79	131.20	90.00	-3,055.97	4,488.15	3,400.74	3,165.19	235.55	14.437	
17,900.00	7,618.00	7,573.00	7,573.00	152.03	131.20	90.00	-3,055.97	4,488.15	3,496.39	3,260.58	235.81	14.827	
18,000.00	7,618.00	7,573.00	7,573.00	153.29	131.20	90.00	-3,055.97	4,488.15	3,592.27	3,356.21	236.06	15.218	
18,100.00	7,618.00	7,573.00	7,573.00	154.57	131.20	90.00	-3,055.97	4,488.15	3,688.37	3,452.08	236.29	15.610	
18,200.00	7,618.00	7,573.00	7,573.00	155.86	131.20	90.00	-3,055.97	4,488.15	3,784.67	3,548.17	236.50	16.003	
18,300.00	7,618.00	7,573.00	7,573.00	157.17	131.20	90.00	-3,055.97	4,488.15	3,881.16	3,644.45	236.71	16.396	
18,400.00	7,618.00	7,573.00	7,573.00	158.49	131.20	90.00	-3,055.97	4,488.15	3,977.83	3,740.92	236.90	16.791	
18,500.00	7,618.00	7,573.00	7,573.00	159.82	131.20	90.00	-3,055.97	4,488.15	4,074.65	3,837.56	237.09	17.186	
18,600.00	7,618.00	7,573.00	7,573.00	161.17	131.20	90.00	-3,055.97	4,488.15	4,171.62	3,934.36	237.26	17.582	
18,700.00	7,618.00	7,573.00	7,573.00	162.54	131.20	90.00	-3,055.97	4,488.15	4,268.74	4,031.30	237.43	17.979	
18,800.00	7,618.00	7,573.00	7,573.00	163.91	131.20	90.00	-3,055.97	4,488.15	4,365.98	4,128.39	237.59	18.376	
18,900.00	7,618.00	7,573.00	7,573.00	165.30	131.20	90.00	-3,055.97	4,488.15	4,463.35	4,225.60	237.74	18.774	
19,000.00	7,618.00	7,573.00	7,573.00	166.70	131.20	90.00	-3,055.97	4,488.15	4,560.82	4,322.94	237.89	19.172	
19,100.00	7,618.00	7,573.00	7,573.00	168.10	131.20	90.00	-3,055.97	4,488.15	4,658.41	4,420.38	238.03	19.571	
19,200.00	7,618.00	7,573.00	7,573.00	169.52	131.20	90.00	-3,055.97	4,488.15	4,756.10	4,517.94	238.16	19.970	
19,300.00	7,618.00	7,573.00	7,573.00	170.95	131.20	90.00	-3,055.97	4,488.15	4,853.88	4,615.59	238.29	20.370	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	7,573.00	7,573.00	172.39	131.20	90.00	-3,055.97	4,488.15	4,951.75	4,713.33	238.41	20.770	
19,500.00	7,618.00	7,573.00	7,573.00	173.84	131.20	90.00	-3,055.97	4,488.15	5,049.70	4,811.17	238.53	21.170	
19,600.00	7,618.00	7,573.00	7,573.00	175.30	131.20	90.00	-3,055.97	4,488.15	5,147.73	4,909.09	238.65	21.571	
19,700.00	7,618.00	7,573.00	7,573.00	176.76	131.20	90.00	-3,055.97	4,488.15	5,245.84	5,007.08	238.76	21.971	
19,800.00	7,618.00	7,573.00	7,573.00	178.24	131.20	90.00	-3,055.97	4,488.15	5,344.01	5,105.15	238.86	22.373	
19,896.19	7,618.00	7,573.00	7,573.00	179.66	131.20	90.00	-3,055.97	4,488.15	5,438.51	5,199.55	238.96	22.759	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	105.18	-1,580.33	5,823.59	6,034.43				
100.00	100.00	47.00	47.00	0.13	0.36	105.18	-1,580.33	5,823.59	6,034.20	6,033.71	0.50	N/A	
200.00	200.00	147.00	147.00	0.49	1.59	105.18	-1,580.33	5,823.59	6,034.20	6,032.12	2.08	2,899.457	
300.00	299.98	246.98	246.98	0.85	3.33	35.89	-1,580.33	5,823.59	6,032.79	6,028.61	4.18	1,442.898	
400.00	399.84	346.84	346.84	1.21	5.08	35.97	-1,580.33	5,823.59	6,028.55	6,022.26	6.28	959.502	
500.00	499.45	446.45	446.45	1.58	6.81	36.10	-1,580.33	5,823.59	6,021.49	6,013.10	8.39	717.934	
600.00	598.70	545.70	545.70	1.97	8.55	36.29	-1,580.33	5,823.59	6,011.63	6,001.14	10.49	572.927	
700.00	697.47	644.47	644.47	2.38	10.27	36.53	-1,580.33	5,823.59	5,998.99	5,986.39	12.60	476.112	
800.00	795.62	742.62	742.62	2.83	11.98	36.82	-1,580.33	5,823.59	5,983.58	5,968.87	14.71	406.794	
900.00	893.06	840.06	840.06	3.31	13.68	37.17	-1,580.33	5,823.59	5,965.45	5,948.63	16.82	354.640	
1,000.00	989.64	936.64	936.64	3.83	15.37	37.58	-1,580.33	5,823.59	5,944.62	5,925.69	18.94	313.920	
1,100.00	1,085.27	1,032.27	1,032.27	4.40	17.04	38.05	-1,580.33	5,823.59	5,921.14	5,900.09	21.06	281.196	
1,200.00	1,179.82	1,126.82	1,126.82	5.02	18.69	38.57	-1,580.33	5,823.59	5,895.06	5,871.88	23.18	254.287	
1,300.00	1,273.17	1,220.17	1,220.17	5.70	20.32	39.16	-1,580.33	5,823.59	5,866.43	5,841.11	25.32	231.736	
1,400.00	1,365.21	1,312.21	1,312.21	6.43	21.93	39.82	-1,580.33	5,823.59	5,835.29	5,807.84	27.46	212.540	
1,500.00	1,455.84	1,402.84	1,402.84	7.23	23.51	40.53	-1,580.33	5,823.59	5,801.73	5,772.13	29.60	195.978	
1,600.00	1,544.94	1,508.06	1,491.94	8.09	25.34	41.32	-1,580.33	5,823.59	5,765.80	5,733.76	32.04	179.932	
1,700.00	1,632.39	1,579.39	1,579.39	9.01	26.59	42.17	-1,580.33	5,823.59	5,727.58	5,693.65	33.93	168.791	
1,800.00	1,718.11	1,665.11	1,665.11	10.00	28.08	43.10	-1,580.33	5,823.59	5,687.15	5,651.04	36.12	157.470	
1,900.00	1,801.97	1,748.97	1,748.97	11.07	29.55	44.10	-1,580.33	5,823.59	5,644.60	5,606.28	38.31	147.331	
2,000.00	1,883.88	1,830.88	1,830.88	12.20	30.98	45.18	-1,580.33	5,823.59	5,600.00	5,559.48	40.52	138.189	
2,100.00	1,963.74	1,910.74	1,910.74	13.41	32.37	46.33	-1,580.33	5,823.59	5,553.46	5,510.71	42.75	129.898	
2,200.00	2,041.45	1,988.45	1,988.45	14.69	33.73	47.56	-1,580.33	5,823.59	5,505.08	5,460.08	45.00	122.338	
2,300.00	2,116.92	2,063.92	2,063.92	16.05	35.04	48.87	-1,580.33	5,823.59	5,454.95	5,407.69	47.26	115.412	
2,357.48	2,159.25	2,106.25	2,106.25	16.86	35.78	49.66	-1,580.33	5,823.59	5,425.40	5,376.82	48.58	111.687	
2,400.00	2,190.27	2,137.27	2,137.27	17.47	36.32	49.86	-1,580.33	5,823.59	5,403.37	5,353.82	49.55	109.046	
2,500.00	2,263.22	2,210.22	2,210.22	18.92	37.60	50.34	-1,580.33	5,823.59	5,351.84	5,299.97	51.86	103.190	
2,600.00	2,336.18	2,283.18	2,283.18	20.37	38.87	50.82	-1,580.33	5,823.59	5,300.69	5,246.48	54.21	97.788	
2,700.00	2,409.14	2,356.14	2,356.14	21.84	40.14	51.31	-1,580.33	5,823.59	5,249.93	5,193.35	56.58	92.795	
2,800.00	2,482.09	2,429.09	2,429.09	23.31	41.42	51.80	-1,580.33	5,823.59	5,199.57	5,140.60	58.97	88.171	
2,900.00	2,555.05	2,502.05	2,502.05	24.78	42.69	52.31	-1,580.33	5,823.59	5,149.64	5,088.24	61.39	83.880	
3,000.00	2,628.01	2,575.01	2,575.01	26.27	43.96	52.82	-1,580.33	5,823.59	5,100.13	5,036.29	63.84	79.891	
3,100.00	2,700.96	2,647.96	2,647.96	27.75	45.24	53.33	-1,580.33	5,823.59	5,051.06	4,984.75	66.31	76.174	
3,200.00	2,773.92	2,720.92	2,720.92	29.24	46.51	53.86	-1,580.33	5,823.59	5,002.44	4,933.64	68.80	72.706	
3,300.00	2,846.88	2,806.12	2,793.88	30.73	48.00	54.39	-1,580.33	5,823.59	4,954.29	4,882.76	71.54	69.257	
3,400.00	2,919.83	2,866.83	2,866.83	32.23	49.06	54.93	-1,580.33	5,823.59	4,906.62	4,832.76	73.86	66.428	
3,500.00	2,992.79	2,939.79	2,939.79	33.72	50.33	55.47	-1,580.33	5,823.59	4,859.45	4,783.02	76.43	63.582	
3,600.00	3,065.75	3,012.75	3,012.75	35.22	51.61	56.02	-1,580.33	5,823.59	4,812.79	4,733.77	79.02	60.909	
3,700.00	3,138.71	3,085.71	3,085.71	36.72	52.88	56.58	-1,580.33	5,823.59	4,766.65	4,685.02	81.63	58.395	
3,800.00	3,211.66	3,158.66	3,158.66	38.22	54.15	57.15	-1,580.33	5,823.59	4,721.05	4,636.78	84.26	56.028	
3,900.00	3,284.62	3,231.62	3,231.62	39.72	55.43	57.73	-1,580.33	5,823.59	4,676.00	4,589.08	86.92	53.796	
4,000.00	3,357.58	3,304.58	3,304.58	41.22	56.70	58.31	-1,580.33	5,823.59	4,631.53	4,541.93	89.60	51.690	
4,100.00	3,430.53	3,377.53	3,377.53	42.73	57.97	58.90	-1,580.33	5,823.59	4,587.65	4,495.34	92.31	49.700	
4,200.00	3,503.49	3,450.49	3,450.49	44.23	59.25	59.49	-1,580.33	5,823.59	4,544.37	4,449.34	95.03	47.819	
4,300.00	3,576.45	3,523.45	3,523.45	45.74	60.52	60.10	-1,580.33	5,823.59	4,501.71	4,403.93	97.78	46.038	
4,400.00	3,649.40	3,603.60	3,596.40	47.25	61.92	60.71	-1,580.33	5,823.59	4,459.70	4,359.02	100.68	44.295	
4,500.00	3,722.36	3,669.36	3,669.36	48.75	63.07	61.33	-1,580.33	5,823.59	4,418.35	4,315.00	103.35	42.751	
4,600.00	3,795.32	3,742.32	3,742.32	50.26	64.34	61.95	-1,580.33	5,823.59	4,377.67	4,271.50	106.17	41.234	
4,700.00	3,868.27	3,815.27	3,815.27	51.77	65.61	62.59	-1,580.33	5,823.59	4,337.69	4,228.68	109.01	39.793	
4,800.00	3,941.23	3,888.23	3,888.23	53.28	66.89	63.23	-1,580.33	5,823.59	4,298.42	4,186.56	111.87	38.424	
4,900.00	4,014.19	3,961.19	3,961.19	54.79	68.16	63.88	-1,580.33	5,823.59	4,259.90	4,145.15	114.75	37.123	
5,000.00	4,087.15	4,034.15	4,034.15	56.30	69.43	64.53	-1,580.33	5,823.59	4,222.12	4,104.47	117.65	35.886	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,160.10	4,107.10	4,107.10	57.81	70.71	65.19	-1,580.33	5,823.59	4,185.13	4,064.55	120.58	34.709	
5,200.00	4,233.06	4,180.06	4,180.06	59.32	71.98	65.86	-1,580.33	5,823.59	4,148.93	4,025.41	123.52	33.589	
5,300.00	4,306.02	4,253.02	4,253.02	60.83	73.25	66.54	-1,580.33	5,823.59	4,113.55	3,987.07	126.48	32.522	
5,400.00	4,378.97	4,325.97	4,325.97	62.34	74.53	67.23	-1,580.33	5,823.59	4,079.02	3,949.55	129.47	31.507	
5,500.00	4,451.93	4,401.07	4,398.93	63.85	75.84	67.92	-1,580.33	5,823.59	4,045.34	3,912.84	132.50	30.531	
5,600.00	4,524.89	4,471.89	4,471.89	65.36	77.07	68.61	-1,580.33	5,823.59	4,012.54	3,877.06	135.48	29.617	
5,700.00	4,597.84	4,544.84	4,544.84	66.88	78.35	69.32	-1,580.33	5,823.59	3,980.66	3,842.14	138.51	28.739	
5,800.00	4,670.80	4,617.80	4,617.80	68.39	79.62	70.03	-1,580.33	5,823.59	3,949.69	3,808.14	141.56	27.902	
5,900.00	4,743.76	4,709.24	4,690.76	69.90	81.21	70.75	-1,580.33	5,823.59	3,919.68	3,774.74	144.94	27.043	
6,000.00	4,816.71	4,763.71	4,763.71	71.41	82.17	71.47	-1,580.33	5,823.59	3,890.64	3,742.95	147.69	26.343	
6,100.00	4,889.67	4,836.67	4,836.67	72.93	83.44	72.20	-1,580.33	5,823.59	3,862.59	3,711.81	150.77	25.619	
6,200.00	4,962.63	4,909.63	4,909.63	74.44	84.71	72.94	-1,580.33	5,823.59	3,835.55	3,681.69	153.87	24.928	
6,300.00	5,035.59	4,982.59	4,982.59	75.95	85.99	73.68	-1,580.33	5,823.59	3,809.55	3,652.59	156.97	24.270	
6,400.00	5,108.54	5,055.54	5,055.54	77.47	87.26	74.43	-1,580.33	5,823.59	3,784.61	3,624.54	160.07	23.643	
6,500.00	5,181.50	5,128.50	5,128.50	78.98	88.53	75.18	-1,580.33	5,823.59	3,760.75	3,597.56	163.18	23.046	
6,600.00	5,254.46	5,201.46	5,201.46	80.49	89.81	75.94	-1,580.33	5,823.59	3,737.98	3,571.68	166.30	22.478	
6,700.00	5,327.41	5,274.41	5,274.41	82.01	91.08	76.70	-1,580.33	5,823.59	3,716.34	3,546.92	169.41	21.936	
6,800.00	5,400.37	5,347.37	5,347.37	83.52	92.35	77.47	-1,580.33	5,823.59	3,695.83	3,523.30	172.53	21.422	
6,900.00	5,473.33	5,420.33	5,420.33	85.04	93.63	78.24	-1,580.33	5,823.59	3,676.48	3,500.84	175.64	20.932	
7,000.00	5,546.28	5,506.72	5,493.28	86.55	95.13	79.02	-1,580.33	5,823.59	3,658.31	3,479.33	178.98	20.440	
7,100.00	5,619.24	5,566.24	5,566.24	88.06	96.17	79.80	-1,580.33	5,823.59	3,641.33	3,459.49	181.84	20.024	
7,200.00	5,692.20	5,639.20	5,639.20	89.58	97.45	80.59	-1,580.33	5,823.59	3,625.56	3,440.63	184.93	19.605	
7,300.00	5,765.15	5,712.15	5,712.15	91.09	98.72	81.37	-1,580.33	5,823.59	3,611.02	3,423.01	188.01	19.206	
7,400.00	5,838.11	5,785.11	5,785.11	92.61	99.99	82.17	-1,580.33	5,823.59	3,597.72	3,406.65	191.08	18.829	
7,500.00	5,911.07	5,858.07	5,858.07	94.12	101.27	82.96	-1,580.33	5,823.59	3,585.68	3,391.56	194.13	18.471	
7,600.00	5,984.03	5,931.03	5,931.03	95.64	102.54	83.76	-1,580.33	5,823.59	3,574.91	3,377.75	197.16	18.132	
7,700.00	6,056.98	6,003.98	6,003.98	97.15	103.81	84.56	-1,580.33	5,823.59	3,565.41	3,365.24	200.16	17.812	
7,800.00	6,129.94	6,076.94	6,076.94	98.67	105.09	85.36	-1,580.33	5,823.59	3,557.20	3,354.05	203.15	17.510	
7,900.00	6,202.90	6,149.90	6,149.90	100.18	106.36	86.17	-1,580.33	5,823.59	3,550.30	3,344.18	206.11	17.225	
8,000.00	6,275.85	6,222.85	6,222.85	101.70	107.63	86.97	-1,580.33	5,823.59	3,544.69	3,335.65	209.05	16.956	
8,100.00	6,348.81	6,304.19	6,295.81	103.21	109.05	87.78	-1,580.33	5,823.59	3,540.41	3,328.30	212.10	16.692	
8,200.00	6,421.77	6,368.77	6,368.77	104.73	110.18	88.59	-1,580.33	5,823.59	3,537.43	3,322.60	214.83	16.466	
8,300.00	6,494.72	6,441.72	6,441.72	106.24	111.45	89.39	-1,580.33	5,823.59	3,535.78	3,318.11	217.67	16.243	
8,374.83	6,549.32	6,503.68	6,496.32	107.38	112.53	90.00	-1,580.33	5,823.59	3,535.41	3,315.50	219.91	16.077	
8,400.00	6,567.68	6,514.68	6,514.68	107.76	112.73	90.20	-1,580.33	5,823.59	3,535.45	3,314.97	220.48	16.035	
8,500.00	6,640.64	6,587.64	6,587.64	109.27	114.00	91.01	-1,580.33	5,823.59	3,536.45	3,313.19	223.26	15.840	
8,600.00	6,713.59	6,660.59	6,660.59	110.79	115.27	91.82	-1,580.33	5,823.59	3,538.76	3,312.77	225.99	15.659	
8,700.00	6,786.55	6,733.55	6,733.55	112.30	116.55	92.63	-1,580.33	5,823.59	3,542.40	3,313.71	228.69	15.490	
8,800.00	6,859.51	6,806.51	6,806.51	113.82	117.82	93.43	-1,580.33	5,823.59	3,547.35	3,316.00	231.34	15.334	
8,900.00	6,932.46	6,879.46	6,879.46	115.33	119.09	94.24	-1,580.33	5,823.59	3,553.61	3,319.65	233.96	15.189	
9,000.00	7,005.42	6,952.42	6,952.42	116.85	120.37	95.04	-1,580.33	5,823.59	3,561.17	3,324.64	236.54	15.056	
9,104.89	7,081.95	7,028.95	7,028.95	118.44	121.70	95.88	-1,580.33	5,823.59	3,570.49	3,331.31	239.19	14.927	
9,150.00	7,115.15	7,062.15	7,062.15	119.12	122.28	91.51	-1,580.33	5,823.59	3,573.19	3,332.87	240.32	14.868	
9,200.00	7,152.46	7,100.54	7,099.46	119.86	122.95	86.35	-1,580.33	5,823.59	3,572.39	3,330.79	241.60	14.787	
9,250.00	7,190.04	7,137.04	7,137.04	120.57	123.59	80.99	-1,580.33	5,823.59	3,567.59	3,324.77	242.82	14.692	
9,300.00	7,227.59	7,174.59	7,174.59	121.25	124.24	75.58	-1,580.33	5,823.59	3,558.80	3,314.77	244.04	14.583	
9,350.00	7,264.83	7,211.83	7,211.83	121.89	124.89	70.27	-1,580.33	5,823.59	3,546.08	3,300.86	245.22	14.461	
9,400.00	7,301.48	7,248.48	7,248.48	122.48	125.53	65.20	-1,580.33	5,823.59	3,529.49	3,283.13	246.36	14.327	
9,450.00	7,337.26	7,284.26	7,284.26	123.01	126.16	60.46	-1,580.33	5,823.59	3,509.12	3,261.68	247.44	14.181	
9,500.00	7,371.90	7,318.90	7,318.90	123.49	126.76	56.09	-1,580.33	5,823.59	3,485.10	3,236.63	248.47	14.026	
9,550.00	7,405.13	7,352.13	7,352.13	123.91	127.34	52.12	-1,580.33	5,823.59	3,457.58	3,208.15	249.43	13.862	
9,600.00	7,436.70	7,383.70	7,383.70	124.27	127.89	48.51	-1,580.33	5,823.59	3,426.72	3,176.41	250.31	13.690	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	7,413.36	7,413.36	124.57	128.41	45.23	-1,580.33	5,823.59	3,392.73	3,141.61	251.12	13.510	
9,700.00	7,493.91	7,440.91	7,440.91	124.81	128.89	42.22	-1,580.33	5,823.59	3,355.82	3,103.97	251.85	13.325	
9,750.00	7,519.11	7,466.11	7,466.11	125.00	129.33	39.38	-1,580.33	5,823.59	3,316.24	3,063.75	252.49	13.134	
9,800.00	7,541.79	7,488.79	7,488.79	125.12	129.73	36.58	-1,580.33	5,823.59	3,274.25	3,021.20	253.05	12.939	
9,850.00	7,561.77	7,508.77	7,508.77	125.20	130.08	33.64	-1,580.33	5,823.59	3,230.14	2,976.62	253.52	12.741	
9,900.00	7,578.90	7,525.90	7,525.90	125.23	130.37	30.20	-1,580.33	5,823.59	3,184.22	2,930.31	253.91	12.541	
9,950.00	7,593.04	7,540.04	7,540.04	125.22	130.62	25.54	-1,580.33	5,823.59	3,136.82	2,882.60	254.22	12.339	
10,000.00	7,604.09	7,551.09	7,551.09	125.17	130.81	17.83	-1,580.33	5,823.59	3,088.27	2,833.82	254.45	12.137	
10,050.00	7,611.97	7,558.97	7,558.97	125.08	130.95	1.10	-1,580.33	5,823.59	3,038.94	2,784.34	254.59	11.936	
10,100.00	7,616.61	7,563.61	7,563.61	124.97	131.03	-42.96	-1,580.33	5,823.59	2,989.19	2,734.52	254.66	11.738	
10,145.95	7,618.00	7,565.00	7,565.00	124.84	131.06	-90.00	-1,580.33	5,823.59	2,943.43	2,688.76	254.66	11.558	
10,200.00	7,618.00	7,565.00	7,565.00	124.69	131.06	-90.00	-1,580.33	5,823.59	2,889.71	2,635.09	254.63	11.349	
10,300.00	7,618.00	7,565.00	7,565.00	124.41	131.06	-90.00	-1,580.33	5,823.59	2,790.36	2,535.81	254.55	10.962	
10,400.00	7,618.00	7,565.00	7,565.00	124.14	131.06	-90.00	-1,580.33	5,823.59	2,691.07	2,436.59	254.48	10.575	
10,500.00	7,618.00	7,565.00	7,565.00	123.88	131.06	-90.00	-1,580.33	5,823.59	2,591.82	2,337.43	254.39	10.188	
10,600.00	7,618.00	7,565.00	7,565.00	123.63	131.06	-90.00	-1,580.33	5,823.59	2,492.64	2,238.34	254.30	9.802	
10,700.00	7,618.00	7,565.00	7,565.00	123.40	131.06	-90.00	-1,580.33	5,823.59	2,393.52	2,139.33	254.19	9.416	
10,800.00	7,618.00	7,565.00	7,565.00	123.18	131.06	-90.00	-1,580.33	5,823.59	2,294.48	2,040.40	254.07	9.031	
10,900.00	7,618.00	7,565.00	7,565.00	122.96	131.06	-90.00	-1,580.33	5,823.59	2,195.52	1,941.58	253.94	8.646	
11,000.00	7,618.00	7,565.00	7,565.00	122.76	131.06	-90.00	-1,580.33	5,823.59	2,096.67	1,842.87	253.80	8.261	
11,100.00	7,618.00	7,565.00	7,565.00	122.57	131.06	-90.00	-1,580.33	5,823.59	1,997.93	1,744.30	253.63	7.877	
11,200.00	7,618.00	7,565.00	7,565.00	122.39	131.06	-90.00	-1,580.33	5,823.59	1,899.32	1,645.88	253.44	7.494	
11,300.00	7,618.00	7,565.00	7,565.00	122.23	131.06	-90.00	-1,580.33	5,823.59	1,800.87	1,547.65	253.22	7.112	
11,400.00	7,618.00	7,565.00	7,565.00	122.07	131.06	-90.00	-1,580.33	5,823.59	1,702.59	1,449.63	252.97	6.731	
11,500.00	7,618.00	7,565.00	7,565.00	121.93	131.06	-90.00	-1,580.33	5,823.59	1,604.53	1,351.86	252.67	6.350	
11,600.00	7,618.00	7,565.00	7,565.00	121.79	131.06	-90.00	-1,580.33	5,823.59	1,506.72	1,254.40	252.32	5.971	
11,700.00	7,618.00	7,565.00	7,565.00	121.67	131.06	-90.00	-1,580.33	5,823.59	1,409.22	1,157.32	251.90	5.594	
11,800.00	7,618.00	7,565.00	7,565.00	121.56	131.06	-90.00	-1,580.33	5,823.59	1,312.10	1,060.71	251.40	5.219	
11,900.00	7,618.00	7,565.00	7,565.00	121.46	131.06	-90.00	-1,580.33	5,823.59	1,215.45	964.67	250.78	4.847	
12,000.00	7,618.00	7,565.00	7,565.00	121.38	131.06	-90.00	-1,580.33	5,823.59	1,119.38	869.38	250.00	4.477	
12,100.00	7,618.00	7,565.00	7,565.00	121.30	131.06	-90.00	-1,580.33	5,823.59	1,024.06	775.04	249.02	4.112	
12,200.00	7,618.00	7,565.00	7,565.00	121.24	131.06	-90.00	-1,580.33	5,823.59	929.73	681.98	247.75	3.753	
12,300.00	7,618.00	7,565.00	7,565.00	121.19	131.06	-90.00	-1,580.33	5,823.59	836.72	590.66	246.06	3.400	
12,400.00	7,618.00	7,565.00	7,565.00	121.16	131.06	-90.00	-1,580.33	5,823.59	745.52	501.75	243.77	3.058	
12,500.00	7,618.00	7,565.00	7,565.00	121.14	131.06	-90.00	-1,580.33	5,823.59	656.89	416.33	240.56	2.731	
12,600.00	7,618.00	7,565.00	7,565.00	121.13	131.06	-90.00	-1,580.33	5,823.59	572.01	336.08	235.94	2.424	
12,700.00	7,618.00	7,565.00	7,565.00	121.13	131.06	-90.00	-1,580.33	5,823.59	492.85	263.73	229.12	2.151	
12,800.00	7,618.00	7,565.00	7,565.00	121.15	131.06	-90.00	-1,580.33	5,823.59	422.61	203.51	219.09	1.929	
12,900.00	7,618.00	7,565.00	7,565.00	121.18	131.06	-90.00	-1,580.33	5,823.59	366.46	160.94	205.52	1.783	
13,000.00	7,618.00	7,565.00	7,565.00	121.23	131.06	-90.00	-1,580.33	5,823.59	331.65	139.02	192.63	1.722	
13,071.51	7,618.00	7,565.00	7,565.00	121.27	131.06	-90.00	-1,580.33	5,823.59	323.85	133.07	190.78	1.698	CC
13,100.00	7,618.00	7,565.00	7,565.00	121.29	131.06	-90.00	-1,580.33	5,823.59	325.10	132.42	192.68	1.687	ES
13,200.00	7,618.00	7,565.00	7,565.00	121.37	131.06	-90.00	-1,580.33	5,823.59	348.41	141.54	206.87	1.684	SF
13,300.00	7,618.00	7,565.00	7,565.00	121.46	131.06	-90.00	-1,580.33	5,823.59	396.34	174.10	222.24	1.783	
13,400.00	7,618.00	7,565.00	7,565.00	121.57	131.06	-90.00	-1,580.33	5,823.59	461.29	227.93	233.35	1.977	
13,500.00	7,618.00	7,565.00	7,565.00	121.70	131.06	-90.00	-1,580.33	5,823.59	537.11	296.54	240.57	2.233	
13,600.00	7,618.00	7,565.00	7,565.00	121.84	131.06	-90.00	-1,580.33	5,823.59	619.83	374.63	245.19	2.528	
13,700.00	7,618.00	7,565.00	7,565.00	122.01	131.06	-90.00	-1,580.33	5,823.59	707.02	458.80	248.22	2.848	
13,800.00	7,618.00	7,565.00	7,565.00	122.19	131.06	-90.00	-1,580.33	5,823.59	797.23	546.97	250.27	3.186	
13,900.00	7,618.00	7,565.00	7,565.00	122.39	131.06	-90.00	-1,580.33	5,823.59	889.54	637.85	251.69	3.534	
14,000.00	7,618.00	7,565.00	7,565.00	122.62	131.06	-90.00	-1,580.33	5,823.59	983.35	730.64	252.71	3.891	
14,100.00	7,618.00	7,565.00	7,565.00	122.86	131.06	-90.00	-1,580.33	5,823.59	1,078.27	824.82	253.45	4.254	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,200.00	7,618.00	7,565.00	7,565.00	123.12	131.06	-90.00	-1,580.33	5,823.59	1,174.04	920.03	254.01	4.622	
14,300.00	7,618.00	7,565.00	7,565.00	123.41	131.06	-90.00	-1,580.33	5,823.59	1,270.46	1,016.02	254.44	4.993	
14,400.00	7,618.00	7,565.00	7,565.00	123.72	131.06	-90.00	-1,580.33	5,823.59	1,367.40	1,112.62	254.77	5.367	
14,500.00	7,618.00	7,565.00	7,565.00	124.06	131.06	-90.00	-1,580.33	5,823.59	1,464.74	1,209.70	255.04	5.743	
14,600.00	7,618.00	7,565.00	7,565.00	124.42	131.06	-90.00	-1,580.33	5,823.59	1,562.42	1,307.17	255.25	6.121	
14,700.00	7,618.00	7,565.00	7,565.00	124.80	131.06	-90.00	-1,580.33	5,823.59	1,660.38	1,404.96	255.42	6.501	
14,800.00	7,618.00	7,565.00	7,565.00	125.21	131.06	-90.00	-1,580.33	5,823.59	1,758.57	1,503.01	255.56	6.881	
14,900.00	7,618.00	7,565.00	7,565.00	125.65	131.06	-90.00	-1,580.33	5,823.59	1,856.95	1,601.27	255.68	7.263	
15,000.00	7,618.00	7,565.00	7,565.00	126.11	131.06	-90.00	-1,580.33	5,823.59	1,955.50	1,699.72	255.78	7.645	
15,100.00	7,618.00	7,565.00	7,565.00	126.61	131.06	-90.00	-1,580.33	5,823.59	2,054.18	1,798.32	255.86	8.028	
15,200.00	7,618.00	7,565.00	7,565.00	127.13	131.06	-90.00	-1,580.33	5,823.59	2,152.99	1,897.06	255.93	8.412	
15,300.00	7,618.00	7,565.00	7,565.00	127.68	131.06	-90.00	-1,580.33	5,823.59	2,251.90	1,995.91	255.99	8.797	
15,400.00	7,618.00	7,565.00	7,565.00	128.26	131.06	-90.00	-1,580.33	5,823.59	2,350.91	2,094.86	256.05	9.182	
15,500.00	7,618.00	7,565.00	7,565.00	128.87	131.06	-90.00	-1,580.33	5,823.59	2,449.99	2,193.90	256.09	9.567	
15,600.00	7,618.00	7,565.00	7,565.00	129.51	131.06	-90.00	-1,580.33	5,823.59	2,549.15	2,293.01	256.13	9.952	
15,700.00	7,618.00	7,565.00	7,565.00	130.18	131.06	-90.00	-1,580.33	5,823.59	2,648.37	2,392.20	256.17	10.338	
15,800.00	7,618.00	7,565.00	7,565.00	130.88	131.06	-90.00	-1,580.33	5,823.59	2,747.64	2,491.44	256.20	10.724	
15,900.00	7,618.00	7,565.00	7,565.00	131.61	131.06	-90.00	-1,580.33	5,823.59	2,846.97	2,590.74	256.23	11.111	
16,000.00	7,618.00	7,565.00	7,565.00	132.37	131.06	-90.00	-1,580.33	5,823.59	2,946.34	2,690.09	256.26	11.498	
16,100.00	7,618.00	7,565.00	7,565.00	133.17	131.06	-90.00	-1,580.33	5,823.59	3,045.76	2,789.47	256.28	11.884	
16,200.00	7,618.00	7,565.00	7,565.00	133.99	131.06	-90.00	-1,580.33	5,823.59	3,145.21	2,888.90	256.31	12.271	
16,300.00	7,618.00	7,565.00	7,565.00	134.84	131.06	-90.00	-1,580.33	5,823.59	3,244.69	2,988.37	256.33	12.658	
16,400.00	7,618.00	7,565.00	7,565.00	135.72	131.06	-90.00	-1,580.33	5,823.59	3,344.21	3,087.86	256.35	13.046	
16,500.00	7,618.00	7,565.00	7,565.00	136.63	131.06	-90.00	-1,580.33	5,823.59	3,443.75	3,187.39	256.37	13.433	
16,600.00	7,618.00	7,565.00	7,565.00	137.57	131.06	-90.00	-1,580.33	5,823.59	3,543.32	3,286.94	256.38	13.820	
16,700.00	7,618.00	7,565.00	7,565.00	138.54	131.06	-90.00	-1,580.33	5,823.59	3,642.92	3,386.52	256.40	14.208	
16,800.00	7,618.00	7,565.00	7,565.00	139.53	131.06	-90.00	-1,580.33	5,823.59	3,742.53	3,486.11	256.42	14.595	
16,900.00	7,618.00	7,565.00	7,565.00	140.55	131.06	-90.00	-1,580.33	5,823.59	3,842.17	3,585.73	256.43	14.983	
17,000.00	7,618.00	7,565.00	7,565.00	141.60	131.06	-90.00	-1,580.33	5,823.59	3,941.82	3,685.37	256.45	15.371	
17,100.00	7,618.00	7,565.00	7,565.00	142.67	131.06	-90.00	-1,580.33	5,823.59	4,041.49	3,785.03	256.46	15.759	
17,200.00	7,618.00	7,565.00	7,565.00	143.77	131.06	-90.00	-1,580.33	5,823.59	4,141.17	3,884.70	256.48	16.146	
17,300.00	7,618.00	7,565.00	7,565.00	144.88	131.06	-90.00	-1,580.33	5,823.59	4,240.88	3,984.38	256.49	16.534	
17,400.00	7,618.00	7,565.00	7,565.00	146.02	131.06	-90.00	-1,580.33	5,823.59	4,340.59	4,084.09	256.51	16.922	
17,500.00	7,618.00	7,565.00	7,565.00	147.19	131.06	-90.00	-1,580.33	5,823.59	4,440.32	4,183.80	256.52	17.310	
17,600.00	7,618.00	7,565.00	7,565.00	148.37	131.06	-90.00	-1,580.33	5,823.59	4,540.06	4,283.52	256.53	17.698	
17,700.00	7,618.00	7,565.00	7,565.00	149.57	131.06	-90.00	-1,580.33	5,823.59	4,639.81	4,383.26	256.55	18.086	
17,800.00	7,618.00	7,565.00	7,565.00	150.79	131.06	-90.00	-1,580.33	5,823.59	4,739.57	4,483.01	256.56	18.474	
17,900.00	7,618.00	7,565.00	7,565.00	152.03	131.06	-90.00	-1,580.33	5,823.59	4,839.34	4,582.77	256.57	18.861	
18,000.00	7,618.00	7,565.00	7,565.00	153.29	131.06	-90.00	-1,580.33	5,823.59	4,939.12	4,682.53	256.59	19.249	
18,100.00	7,618.00	7,565.00	7,565.00	154.57	131.06	-90.00	-1,580.33	5,823.59	5,038.91	4,782.31	256.60	19.637	
18,200.00	7,618.00	7,565.00	7,565.00	155.86	131.06	-90.00	-1,580.33	5,823.59	5,138.71	4,882.09	256.61	20.025	
18,300.00	7,618.00	7,565.00	7,565.00	157.17	131.06	-90.00	-1,580.33	5,823.59	5,238.51	4,981.88	256.63	20.413	
18,400.00	7,618.00	7,565.00	7,565.00	158.49	131.06	-90.00	-1,580.33	5,823.59	5,338.32	5,081.68	256.64	20.801	
18,500.00	7,618.00	7,565.00	7,565.00	159.82	131.06	-90.00	-1,580.33	5,823.59	5,438.14	5,181.49	256.66	21.188	
18,600.00	7,618.00	7,565.00	7,565.00	161.17	131.06	-90.00	-1,580.33	5,823.59	5,537.97	5,281.30	256.67	21.576	
18,700.00	7,618.00	7,565.00	7,565.00	162.54	131.06	-90.00	-1,580.33	5,823.59	5,637.80	5,381.12	256.68	21.964	
18,800.00	7,618.00	7,565.00	7,565.00	163.91	131.06	-90.00	-1,580.33	5,823.59	5,737.64	5,480.94	256.70	22.352	
18,900.00	7,618.00	7,565.00	7,565.00	165.30	131.06	-90.00	-1,580.33	5,823.59	5,837.48	5,580.77	256.71	22.739	
19,000.00	7,618.00	7,565.00	7,565.00	166.70	131.06	-90.00	-1,580.33	5,823.59	5,937.33	5,680.60	256.73	23.127	
19,100.00	7,618.00	7,565.00	7,565.00	168.10	131.06	-90.00	-1,580.33	5,823.59	6,037.18	5,780.44	256.74	23.515	
19,200.00	7,618.00	7,565.00	7,565.00	169.52	131.06	-90.00	-1,580.33	5,823.59	6,137.04	5,880.29	256.76	23.902	
19,300.00	7,618.00	7,565.00	7,565.00	170.95	131.06	-90.00	-1,580.33	5,823.59	6,236.91	5,980.13	256.77	24.290	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	7,565.00	7,565.00	172.39	131.06	-90.00	-1,580.33	5,823.59	6,336.77	6,079.98	256.79	24.677	
19,500.00	7,618.00	7,565.00	7,565.00	173.84	131.06	-90.00	-1,580.33	5,823.59	6,436.64	6,179.84	256.80	25.064	
19,600.00	7,618.00	7,565.00	7,565.00	175.30	131.06	-90.00	-1,580.33	5,823.59	6,536.52	6,279.70	256.82	25.452	
19,700.00	7,618.00	7,565.00	7,565.00	176.76	131.06	-90.00	-1,580.33	5,823.59	6,636.40	6,379.56	256.84	25.839	
19,800.00	7,618.00	7,565.00	7,565.00	178.24	131.06	-90.00	-1,580.33	5,823.59	6,736.28	6,479.43	256.85	26.226	
19,896.19	7,618.00	7,565.00	7,565.00	179.66	131.06	-90.00	-1,580.33	5,823.59	6,832.36	6,575.49	256.87	26.599	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	115.20	-2,506.46	5,326.75	5,887.17				
100.00	100.00	53.00	53.00	0.13	0.41	115.20	-2,506.46	5,326.75	5,886.99	5,886.44	0.54	N/A	
200.00	200.00	153.00	153.00	0.49	1.69	115.20	-2,506.46	5,326.75	5,886.99	5,884.80	2.19	2,693.201	
300.00	299.98	252.98	252.98	0.85	3.44	45.91	-2,506.46	5,326.75	5,885.77	5,881.48	4.29	1,373.397	
400.00	399.84	352.84	352.84	1.21	5.18	46.00	-2,506.46	5,326.75	5,882.13	5,875.74	6.39	920.936	
500.00	499.45	452.45	452.45	1.58	6.92	46.15	-2,506.46	5,326.75	5,876.07	5,867.58	8.49	691.911	
600.00	598.70	551.70	551.70	1.97	8.65	46.36	-2,506.46	5,326.75	5,867.61	5,857.01	10.60	553.445	
700.00	697.47	650.47	650.47	2.38	10.38	46.63	-2,506.46	5,326.75	5,856.77	5,844.05	12.72	460.556	
800.00	795.62	748.62	748.62	2.83	12.09	46.96	-2,506.46	5,326.75	5,843.58	5,828.74	14.84	393.813	
900.00	893.06	846.06	846.06	3.31	13.79	47.35	-2,506.46	5,326.75	5,828.07	5,811.10	16.97	343.456	
1,000.00	989.64	942.64	942.64	3.83	15.47	47.80	-2,506.46	5,326.75	5,810.28	5,791.17	19.11	304.045	
1,100.00	1,085.27	1,038.27	1,038.27	4.40	17.14	48.31	-2,506.46	5,326.75	5,790.25	5,768.99	21.26	272.311	
1,200.00	1,179.82	1,132.82	1,132.82	5.02	18.79	48.89	-2,506.46	5,326.75	5,768.05	5,744.62	23.43	246.170	
1,300.00	1,273.17	1,226.17	1,226.17	5.70	20.42	49.53	-2,506.46	5,326.75	5,743.72	5,718.11	25.62	224.232	
1,400.00	1,365.21	1,318.21	1,318.21	6.43	22.03	50.23	-2,506.46	5,326.75	5,717.34	5,689.52	27.82	205.533	
1,500.00	1,455.84	1,408.84	1,408.84	7.23	23.61	51.00	-2,506.46	5,326.75	5,688.96	5,658.92	30.04	189.386	
1,600.00	1,544.94	1,502.06	1,497.94	8.09	25.24	51.83	-2,506.46	5,326.75	5,658.67	5,626.32	32.35	174.895	
1,700.00	1,632.39	1,585.39	1,585.39	9.01	26.69	52.73	-2,506.46	5,326.75	5,626.55	5,592.01	34.55	162.854	
1,800.00	1,718.11	1,671.11	1,671.11	10.00	28.19	53.69	-2,506.46	5,326.75	5,592.69	5,555.85	36.84	151.803	
1,900.00	1,801.97	1,754.97	1,754.97	11.07	29.65	54.71	-2,506.46	5,326.75	5,557.18	5,518.01	39.16	141.908	
2,000.00	1,883.88	1,836.88	1,836.88	12.20	31.08	55.79	-2,506.46	5,326.75	5,520.11	5,478.60	41.51	132.991	
2,100.00	1,963.74	1,916.74	1,916.74	13.41	32.48	56.94	-2,506.46	5,326.75	5,481.59	5,437.70	43.88	124.911	
2,200.00	2,041.45	2,005.55	1,994.45	14.69	34.03	58.15	-2,506.46	5,326.75	5,441.73	5,395.25	46.49	117.064	
2,300.00	2,116.92	2,069.92	2,069.92	16.05	35.15	59.41	-2,506.46	5,326.75	5,400.65	5,351.91	48.73	110.826	
2,357.48	2,159.25	2,112.25	2,112.25	16.86	35.89	60.16	-2,506.46	5,326.75	5,376.52	5,326.37	50.15	107.213	
2,400.00	2,190.27	2,143.27	2,143.27	17.47	36.43	60.37	-2,506.46	5,326.75	5,358.60	5,307.39	51.20	104.656	
2,500.00	2,263.22	2,216.22	2,216.22	18.92	37.70	60.89	-2,506.46	5,326.75	5,316.82	5,263.12	53.70	99.003	
2,600.00	2,336.18	2,289.18	2,289.18	20.37	38.98	61.41	-2,506.46	5,326.75	5,275.61	5,219.38	56.23	93.816	
2,700.00	2,409.14	2,362.14	2,362.14	21.84	40.25	61.93	-2,506.46	5,326.75	5,234.96	5,176.17	58.79	89.045	
2,800.00	2,482.09	2,435.09	2,435.09	23.31	41.52	62.46	-2,506.46	5,326.75	5,194.90	5,133.53	61.37	84.647	
2,900.00	2,555.05	2,508.05	2,508.05	24.78	42.80	62.99	-2,506.46	5,326.75	5,155.43	5,091.46	63.98	80.583	
3,000.00	2,628.01	2,581.01	2,581.01	26.27	44.07	63.53	-2,506.46	5,326.75	5,116.57	5,049.97	66.60	76.821	
3,100.00	2,700.96	2,653.96	2,653.96	27.75	45.34	64.08	-2,506.46	5,326.75	5,078.34	5,009.09	69.25	73.330	
3,200.00	2,773.92	2,726.92	2,726.92	29.24	46.62	64.63	-2,506.46	5,326.75	5,040.74	4,968.82	71.92	70.085	
3,300.00	2,846.88	2,800.12	2,799.88	30.73	47.89	65.18	-2,506.46	5,326.75	5,003.80	4,929.18	74.62	67.059	
3,400.00	2,919.83	2,872.83	2,872.83	32.23	49.16	65.74	-2,506.46	5,326.75	4,967.52	4,890.20	77.32	64.243	
3,500.00	2,992.79	2,945.79	2,945.79	33.72	50.44	66.31	-2,506.46	5,326.75	4,931.93	4,851.88	80.05	61.609	
3,600.00	3,065.75	3,018.75	3,018.75	35.22	51.71	66.88	-2,506.46	5,326.75	4,897.03	4,814.23	82.80	59.143	
3,700.00	3,138.71	3,108.29	3,091.71	36.72	53.27	67.45	-2,506.46	5,326.75	4,862.84	4,776.99	85.85	56.641	
3,800.00	3,211.66	3,164.66	3,164.66	38.22	54.26	68.03	-2,506.46	5,326.75	4,829.38	4,741.03	88.35	54.664	
3,900.00	3,284.62	3,237.62	3,237.62	39.72	55.53	68.62	-2,506.46	5,326.75	4,796.66	4,705.51	91.15	52.626	
4,000.00	3,357.58	3,310.58	3,310.58	41.22	56.80	69.20	-2,506.46	5,326.75	4,764.70	4,670.74	93.96	50.709	
4,100.00	3,430.53	3,383.53	3,383.53	42.73	58.08	69.80	-2,506.46	5,326.75	4,733.51	4,636.72	96.79	48.904	
4,200.00	3,503.49	3,456.49	3,456.49	44.23	59.35	70.40	-2,506.46	5,326.75	4,703.11	4,603.47	99.64	47.202	
4,300.00	3,576.45	3,529.45	3,529.45	45.74	60.62	71.00	-2,506.46	5,326.75	4,673.51	4,571.01	102.50	45.597	
4,400.00	3,649.40	3,602.40	3,602.40	47.25	61.90	71.61	-2,506.46	5,326.75	4,644.73	4,539.36	105.37	44.080	
4,500.00	3,722.36	3,675.36	3,675.36	48.75	63.17	72.22	-2,506.46	5,326.75	4,616.78	4,508.52	108.26	42.647	
4,600.00	3,795.32	3,748.32	3,748.32	50.26	64.44	72.83	-2,506.46	5,326.75	4,589.68	4,478.53	111.15	41.291	
4,700.00	3,868.27	3,821.27	3,821.27	51.77	65.72	73.45	-2,506.46	5,326.75	4,563.45	4,449.39	114.06	40.009	
4,800.00	3,941.23	3,905.77	3,894.23	53.28	67.19	74.07	-2,506.46	5,326.75	4,538.09	4,420.91	117.18	38.727	
4,900.00	4,014.19	3,967.19	3,967.19	54.79	68.26	74.70	-2,506.46	5,326.75	4,513.63	4,393.72	119.91	37.642	
5,000.00	4,087.15	4,040.15	4,040.15	56.30	69.54	75.33	-2,506.46	5,326.75	4,490.08	4,367.24	122.84	36.551	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,160.10	4,113.10	4,113.10	57.81	70.81	75.97	-2,506.46	5,326.75	4,467.45	4,341.66	125.79	35.516	
5,200.00	4,233.06	4,186.06	4,186.06	59.32	72.08	76.61	-2,506.46	5,326.75	4,445.76	4,317.02	128.74	34.533	
5,300.00	4,306.02	4,259.02	4,259.02	60.83	73.36	77.25	-2,506.46	5,326.75	4,425.02	4,293.33	131.69	33.601	
5,400.00	4,378.97	4,331.97	4,331.97	62.34	74.63	77.89	-2,506.46	5,326.75	4,405.24	4,270.59	134.65	32.716	
5,500.00	4,451.93	4,404.93	4,404.93	63.85	75.90	78.54	-2,506.46	5,326.75	4,386.44	4,248.83	137.61	31.875	
5,600.00	4,524.89	4,477.89	4,477.89	65.36	77.18	79.19	-2,506.46	5,326.75	4,368.63	4,228.05	140.58	31.077	
5,700.00	4,597.84	4,550.84	4,550.84	66.88	78.45	79.85	-2,506.46	5,326.75	4,351.82	4,208.28	143.54	30.318	
5,800.00	4,670.80	4,623.80	4,623.80	68.39	79.72	80.50	-2,506.46	5,326.75	4,336.03	4,189.53	146.50	29.597	
5,900.00	4,743.76	4,703.24	4,696.76	69.90	81.11	81.16	-2,506.46	5,326.75	4,321.26	4,171.68	149.57	28.891	
6,000.00	4,816.71	4,769.71	4,769.71	71.41	82.27	81.82	-2,506.46	5,326.75	4,307.52	4,155.11	152.42	28.261	
6,100.00	4,889.67	4,842.67	4,842.67	72.93	83.54	82.49	-2,506.46	5,326.75	4,294.83	4,139.47	155.37	27.643	
6,200.00	4,962.63	4,915.63	4,915.63	74.44	84.82	83.15	-2,506.46	5,326.75	4,283.20	4,124.89	158.31	27.055	
6,300.00	5,035.59	4,988.59	4,988.59	75.95	86.09	83.82	-2,506.46	5,326.75	4,272.63	4,111.38	161.25	26.497	
6,400.00	5,108.54	5,061.54	5,061.54	77.47	87.36	84.49	-2,506.46	5,326.75	4,263.13	4,098.95	164.18	25.966	
6,500.00	5,181.50	5,134.50	5,134.50	78.98	88.64	85.16	-2,506.46	5,326.75	4,254.71	4,087.61	167.10	25.462	
6,600.00	5,254.46	5,207.46	5,207.46	80.49	89.91	85.83	-2,506.46	5,326.75	4,247.37	4,077.36	170.00	24.984	
6,700.00	5,327.41	5,280.41	5,280.41	82.01	91.18	86.51	-2,506.46	5,326.75	4,241.12	4,068.22	172.90	24.530	
6,800.00	5,400.37	5,353.37	5,353.37	83.52	92.46	87.18	-2,506.46	5,326.75	4,235.97	4,060.19	175.78	24.099	
6,900.00	5,473.33	5,426.33	5,426.33	85.04	93.73	87.86	-2,506.46	5,326.75	4,231.92	4,053.28	178.64	23.690	
7,000.00	5,546.28	5,500.72	5,499.28	86.55	95.03	88.53	-2,506.46	5,326.75	4,228.96	4,047.45	181.51	23.299	
7,100.00	5,619.24	5,572.24	5,572.24	88.06	96.28	89.21	-2,506.46	5,326.75	4,227.12	4,042.80	184.32	22.934	
7,200.00	5,692.20	5,645.20	5,645.20	89.58	97.55	89.89	-2,506.46	5,326.75	4,226.38	4,039.25	187.13	22.586	
7,216.88	5,704.51	5,657.51	5,657.51	89.83	97.76	90.00	-2,506.46	5,326.75	4,226.36	4,038.77	187.60	22.529	
7,300.00	5,765.15	5,718.15	5,718.15	91.09	98.82	90.56	-2,506.46	5,326.75	4,226.75	4,036.83	189.91	22.256	
7,400.00	5,838.11	5,808.89	5,791.11	92.61	100.41	91.24	-2,506.46	5,326.75	4,228.22	4,035.23	192.99	21.909	
7,500.00	5,911.07	5,864.07	5,864.07	94.12	101.37	91.91	-2,506.46	5,326.75	4,230.80	4,035.37	195.43	21.649	
7,600.00	5,984.03	5,937.03	5,937.03	95.64	102.64	92.59	-2,506.46	5,326.75	4,234.48	4,036.33	198.15	21.370	
7,700.00	6,056.98	6,009.98	6,009.98	97.15	103.92	93.26	-2,506.46	5,326.75	4,239.26	4,038.41	200.85	21.107	
7,800.00	6,129.94	6,082.94	6,082.94	98.67	105.19	93.94	-2,506.46	5,326.75	4,245.14	4,041.62	203.52	20.859	
7,900.00	6,202.90	6,155.90	6,155.90	100.18	106.46	94.61	-2,506.46	5,326.75	4,252.11	4,045.94	206.16	20.625	
8,000.00	6,275.85	6,228.85	6,228.85	101.70	107.74	95.28	-2,506.46	5,326.75	4,260.16	4,051.38	208.78	20.405	
8,100.00	6,348.81	6,301.81	6,301.81	103.21	109.01	95.95	-2,506.46	5,326.75	4,269.30	4,057.92	211.38	20.198	
8,200.00	6,421.77	6,374.77	6,374.77	104.73	110.28	96.62	-2,506.46	5,326.75	4,279.51	4,065.57	213.94	20.003	
8,300.00	6,494.72	6,447.72	6,447.72	106.24	111.56	97.29	-2,506.46	5,326.75	4,290.79	4,074.31	216.48	19.821	
8,400.00	6,567.68	6,520.68	6,520.68	107.76	112.83	97.95	-2,506.46	5,326.75	4,303.12	4,084.14	218.98	19.650	
8,500.00	6,640.64	6,606.36	6,593.64	109.27	114.33	98.61	-2,506.46	5,326.75	4,316.50	4,094.82	221.68	19.471	
8,600.00	6,713.59	6,666.59	6,666.59	110.79	115.38	99.27	-2,506.46	5,326.75	4,330.93	4,107.01	223.91	19.342	
8,700.00	6,786.55	6,739.55	6,739.55	112.30	116.65	99.93	-2,506.46	5,326.75	4,346.38	4,120.05	226.33	19.204	
8,800.00	6,859.51	6,812.51	6,812.51	113.82	117.92	100.59	-2,506.46	5,326.75	4,362.84	4,134.12	228.72	19.075	
8,900.00	6,932.46	6,885.46	6,885.46	115.33	119.20	101.24	-2,506.46	5,326.75	4,380.32	4,149.24	231.08	18.956	
9,000.00	7,005.42	6,958.42	6,958.42	116.85	120.47	101.89	-2,506.46	5,326.75	4,398.78	4,165.37	233.41	18.846	
9,104.89	7,081.95	7,034.95	7,034.95	118.44	121.81	102.57	-2,506.46	5,326.75	4,419.21	4,183.39	235.82	18.739	
9,150.00	7,115.15	7,068.15	7,068.15	119.12	122.39	98.12	-2,506.46	5,326.75	4,426.58	4,189.72	236.86	18.689	
9,200.00	7,152.46	7,105.46	7,105.46	119.86	123.04	92.91	-2,506.46	5,326.75	4,430.86	4,192.84	238.02	18.615	
9,250.00	7,190.04	7,143.04	7,143.04	120.57	123.69	87.54	-2,506.46	5,326.75	4,431.04	4,191.86	239.18	18.526	
9,300.00	7,227.59	7,180.59	7,180.59	121.25	124.35	82.17	-2,506.46	5,326.75	4,427.11	4,186.78	240.33	18.421	
9,350.00	7,264.83	7,217.83	7,217.83	121.89	125.00	76.96	-2,506.46	5,326.75	4,419.09	4,177.64	241.45	18.302	
9,400.00	7,301.48	7,254.48	7,254.48	122.48	125.64	72.03	-2,506.46	5,326.75	4,407.04	4,164.49	242.55	18.170	
9,450.00	7,337.26	7,309.74	7,290.26	123.01	126.60	67.49	-2,506.46	5,326.75	4,391.02	4,147.09	243.94	18.001	
9,500.00	7,371.90	7,324.90	7,324.90	123.49	126.87	63.40	-2,506.46	5,326.75	4,371.15	4,126.56	244.59	17.871	
9,550.00	7,405.13	7,358.13	7,358.13	123.91	127.45	59.79	-2,506.46	5,326.75	4,347.55	4,102.02	245.53	17.707	
9,600.00	7,436.70	7,389.70	7,389.70	124.27	128.00	56.65	-2,506.46	5,326.75	4,320.38	4,073.97	246.40	17.534	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	7,419.36	7,419.36	124.57	128.51	53.98	-2,506.46	5,326.75	4,289.82	4,042.61	247.21	17.353	
9,700.00	7,493.91	7,446.91	7,446.91	124.81	129.00	51.76	-2,506.46	5,326.75	4,256.07	4,008.13	247.93	17.166	
9,750.00	7,519.11	7,472.11	7,472.11	125.00	129.44	49.97	-2,506.46	5,326.75	4,219.36	3,970.78	248.58	16.974	
9,800.00	7,541.79	7,505.21	7,494.79	125.12	130.01	48.61	-2,506.46	5,326.75	4,179.94	3,930.61	249.33	16.764	
9,850.00	7,561.77	7,514.77	7,514.77	125.20	130.18	47.67	-2,506.46	5,326.75	4,138.08	3,888.44	249.64	16.576	
9,900.00	7,578.90	7,531.90	7,531.90	125.23	130.48	47.20	-2,506.46	5,326.75	4,094.07	3,844.02	250.05	16.373	
9,950.00	7,593.04	7,546.04	7,546.04	125.22	130.73	47.31	-2,506.46	5,326.75	4,048.22	3,797.84	250.38	16.169	
10,000.00	7,604.09	7,557.09	7,557.09	125.17	130.92	48.26	-2,506.46	5,326.75	4,000.84	3,750.22	250.63	15.963	
10,050.00	7,611.97	7,564.97	7,564.97	125.08	131.06	50.81	-2,506.46	5,326.75	3,952.29	3,701.49	250.80	15.759	
10,100.00	7,616.61	7,569.61	7,569.61	124.97	131.14	58.00	-2,506.46	5,326.75	3,902.91	3,652.00	250.90	15.556	
10,145.95	7,618.00	7,571.00	7,571.00	124.84	131.16	90.00	-2,506.46	5,326.75	3,857.10	3,606.17	250.93	15.371	
10,200.00	7,618.00	7,571.00	7,571.00	124.69	131.16	90.00	-2,506.46	5,326.75	3,803.10	3,552.16	250.94	15.155	
10,300.00	7,618.00	7,571.00	7,571.00	124.41	131.16	90.00	-2,506.46	5,326.75	3,703.21	3,452.26	250.95	14.757	
10,400.00	7,618.00	7,571.00	7,571.00	124.14	131.16	90.00	-2,506.46	5,326.75	3,603.32	3,352.35	250.96	14.358	
10,500.00	7,618.00	7,571.00	7,571.00	123.88	131.16	90.00	-2,506.46	5,326.75	3,503.43	3,252.46	250.97	13.959	
10,600.00	7,618.00	7,571.00	7,571.00	123.63	131.16	90.00	-2,506.46	5,326.75	3,403.55	3,152.56	250.99	13.561	
10,700.00	7,618.00	7,571.00	7,571.00	123.40	131.16	90.00	-2,506.46	5,326.75	3,303.68	3,052.68	251.00	13.162	
10,800.00	7,618.00	7,571.00	7,571.00	123.18	131.16	90.00	-2,506.46	5,326.75	3,203.82	2,952.80	251.02	12.763	
10,900.00	7,618.00	7,571.00	7,571.00	122.96	131.16	90.00	-2,506.46	5,326.75	3,103.96	2,852.93	251.03	12.365	
11,000.00	7,618.00	7,571.00	7,571.00	122.76	131.16	90.00	-2,506.46	5,326.75	3,004.12	2,753.07	251.05	11.966	
11,100.00	7,618.00	7,571.00	7,571.00	122.57	131.16	90.00	-2,506.46	5,326.75	2,904.28	2,653.21	251.07	11.568	
11,200.00	7,618.00	7,571.00	7,571.00	122.39	131.16	90.00	-2,506.46	5,326.75	2,804.46	2,553.37	251.09	11.169	
11,300.00	7,618.00	7,571.00	7,571.00	122.23	131.16	90.00	-2,506.46	5,326.75	2,704.65	2,453.54	251.11	10.771	
11,400.00	7,618.00	7,571.00	7,571.00	122.07	131.16	90.00	-2,506.46	5,326.75	2,604.85	2,353.72	251.13	10.373	
11,500.00	7,618.00	7,571.00	7,571.00	121.93	131.16	90.00	-2,506.46	5,326.75	2,505.07	2,253.92	251.15	9.974	
11,600.00	7,618.00	7,571.00	7,571.00	121.79	131.16	90.00	-2,506.46	5,326.75	2,405.31	2,154.13	251.18	9.576	
11,700.00	7,618.00	7,571.00	7,571.00	121.67	131.16	90.00	-2,506.46	5,326.75	2,305.57	2,054.37	251.21	9.178	
11,800.00	7,618.00	7,571.00	7,571.00	121.56	131.16	90.00	-2,506.46	5,326.75	2,205.86	1,954.62	251.24	8.780	
11,900.00	7,618.00	7,571.00	7,571.00	121.46	131.16	90.00	-2,506.46	5,326.75	2,106.17	1,854.90	251.27	8.382	
12,000.00	7,618.00	7,571.00	7,571.00	121.38	131.16	90.00	-2,506.46	5,326.75	2,006.51	1,755.21	251.30	7.985	
12,100.00	7,618.00	7,571.00	7,571.00	121.30	131.16	90.00	-2,506.46	5,326.75	1,906.89	1,655.56	251.33	7.587	
12,200.00	7,618.00	7,571.00	7,571.00	121.24	131.16	90.00	-2,506.46	5,326.75	1,807.31	1,555.94	251.37	7.190	
12,300.00	7,618.00	7,571.00	7,571.00	121.19	131.16	90.00	-2,506.46	5,326.75	1,707.78	1,456.37	251.41	6.793	
12,400.00	7,618.00	7,571.00	7,571.00	121.16	131.16	90.00	-2,506.46	5,326.75	1,608.30	1,356.86	251.45	6.396	
12,500.00	7,618.00	7,571.00	7,571.00	121.14	131.16	90.00	-2,506.46	5,326.75	1,508.90	1,257.41	251.49	6.000	
12,600.00	7,618.00	7,571.00	7,571.00	121.13	131.16	90.00	-2,506.46	5,326.75	1,409.58	1,158.05	251.53	5.604	
12,700.00	7,618.00	7,571.00	7,571.00	121.13	131.16	90.00	-2,506.46	5,326.75	1,310.37	1,058.79	251.57	5.209	
12,800.00	7,618.00	7,571.00	7,571.00	121.15	131.16	90.00	-2,506.46	5,326.75	1,211.28	959.66	251.61	4.814	
12,900.00	7,618.00	7,571.00	7,571.00	121.18	131.16	90.00	-2,506.46	5,326.75	1,112.36	860.71	251.65	4.420	
13,000.00	7,618.00	7,571.00	7,571.00	121.23	131.16	90.00	-2,506.46	5,326.75	1,013.64	761.97	251.67	4.028	
13,100.00	7,618.00	7,571.00	7,571.00	121.29	131.16	90.00	-2,506.46	5,326.75	915.21	663.53	251.68	3.636	
13,200.00	7,618.00	7,571.00	7,571.00	121.37	131.16	90.00	-2,506.46	5,326.75	817.16	565.51	251.65	3.247	
13,300.00	7,618.00	7,571.00	7,571.00	121.46	131.16	90.00	-2,506.46	5,326.75	719.64	468.10	251.54	2.861	
13,400.00	7,618.00	7,571.00	7,571.00	121.57	131.16	90.00	-2,506.46	5,326.75	622.92	371.61	251.30	2.479	
13,500.00	7,618.00	7,571.00	7,571.00	121.70	131.16	90.00	-2,506.46	5,326.75	527.41	276.63	250.78	2.103	
13,600.00	7,618.00	7,571.00	7,571.00	121.84	131.16	90.00	-2,506.46	5,326.75	433.94	184.27	249.67	1.738	
13,700.00	7,618.00	7,571.00	7,571.00	122.01	131.16	90.00	-2,506.46	5,326.75	344.15	97.03	247.12	1.393	Level 3
13,800.00	7,618.00	7,571.00	7,571.00	122.19	131.16	90.00	-2,506.46	5,326.75	261.87	21.02	240.85	1.087	Level 2
13,900.00	7,618.00	7,571.00	7,571.00	122.39	131.16	90.00	-2,506.46	5,326.75	196.76	-28.38	225.15	0.874	Level 1
13,999.31	7,618.00	7,571.00	7,571.00	122.61	131.16	90.00	-2,506.46	5,326.75	169.86	-31.86	201.73	0.842	Level 1, CC, ES, SF
14,000.00	7,618.00	7,571.00	7,571.00	122.62	131.16	90.00	-2,506.46	5,326.75	169.87	-31.76	201.63	0.842	Level 1
14,100.00	7,618.00	7,571.00	7,571.00	122.86	131.16	90.00	-2,506.46	5,326.75	197.47	-10.34	207.81	0.950	Level 1

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,200.00	7,618.00	7,571.00	7,571.00	123.12	131.16	90.00	-2,506.46	5,326.75	262.93	38.65	224.28	1.172	Level 2
14,300.00	7,618.00	7,571.00	7,571.00	123.41	131.16	90.00	-2,506.46	5,326.75	345.35	111.63	233.72	1.478	Level 3
14,400.00	7,618.00	7,571.00	7,571.00	123.72	131.16	90.00	-2,506.46	5,326.75	435.21	196.41	238.80	1.823	
14,500.00	7,618.00	7,571.00	7,571.00	124.06	131.16	90.00	-2,506.46	5,326.75	528.72	286.97	241.75	2.187	
14,600.00	7,618.00	7,571.00	7,571.00	124.42	131.16	90.00	-2,506.46	5,326.75	624.25	380.62	243.63	2.562	
14,700.00	7,618.00	7,571.00	7,571.00	124.80	131.16	90.00	-2,506.46	5,326.75	720.99	476.10	244.89	2.944	
14,800.00	7,618.00	7,571.00	7,571.00	125.21	131.16	90.00	-2,506.46	5,326.75	818.51	572.72	245.79	3.330	
14,900.00	7,618.00	7,571.00	7,571.00	125.65	131.16	90.00	-2,506.46	5,326.75	916.57	670.10	246.46	3.719	
15,000.00	7,618.00	7,571.00	7,571.00	126.11	131.16	90.00	-2,506.46	5,326.75	1,015.01	768.02	246.98	4.110	
15,100.00	7,618.00	7,571.00	7,571.00	126.61	131.16	90.00	-2,506.46	5,326.75	1,113.72	866.33	247.39	4.502	
15,200.00	7,618.00	7,571.00	7,571.00	127.13	131.16	90.00	-2,506.46	5,326.75	1,212.65	964.93	247.72	4.895	
15,300.00	7,618.00	7,571.00	7,571.00	127.68	131.16	90.00	-2,506.46	5,326.75	1,311.74	1,063.74	247.99	5.289	
15,400.00	7,618.00	7,571.00	7,571.00	128.26	131.16	90.00	-2,506.46	5,326.75	1,410.95	1,162.73	248.22	5.684	
15,500.00	7,618.00	7,571.00	7,571.00	128.87	131.16	90.00	-2,506.46	5,326.75	1,510.27	1,261.85	248.42	6.080	
15,600.00	7,618.00	7,571.00	7,571.00	129.51	131.16	90.00	-2,506.46	5,326.75	1,609.68	1,361.09	248.59	6.475	
15,700.00	7,618.00	7,571.00	7,571.00	130.18	131.16	90.00	-2,506.46	5,326.75	1,709.15	1,460.42	248.74	6.871	
15,800.00	7,618.00	7,571.00	7,571.00	130.88	131.16	90.00	-2,506.46	5,326.75	1,808.69	1,559.82	248.87	7.268	
15,900.00	7,618.00	7,571.00	7,571.00	131.61	131.16	90.00	-2,506.46	5,326.75	1,908.27	1,659.29	248.98	7.664	
16,000.00	7,618.00	7,571.00	7,571.00	132.37	131.16	90.00	-2,506.46	5,326.75	2,007.89	1,758.80	249.09	8.061	
16,100.00	7,618.00	7,571.00	7,571.00	133.17	131.16	90.00	-2,506.46	5,326.75	2,107.55	1,858.37	249.18	8.458	
16,200.00	7,618.00	7,571.00	7,571.00	133.99	131.16	90.00	-2,506.46	5,326.75	2,207.24	1,957.97	249.26	8.855	
16,300.00	7,618.00	7,571.00	7,571.00	134.84	131.16	90.00	-2,506.46	5,326.75	2,306.95	2,057.61	249.34	9.252	
16,400.00	7,618.00	7,571.00	7,571.00	135.72	131.16	90.00	-2,506.46	5,326.75	2,406.69	2,157.28	249.41	9.649	
16,500.00	7,618.00	7,571.00	7,571.00	136.63	131.16	90.00	-2,506.46	5,326.75	2,506.45	2,256.97	249.48	10.047	
16,600.00	7,618.00	7,571.00	7,571.00	137.57	131.16	90.00	-2,506.46	5,326.75	2,606.23	2,356.69	249.54	10.444	
16,700.00	7,618.00	7,571.00	7,571.00	138.54	131.16	90.00	-2,506.46	5,326.75	2,706.03	2,456.43	249.60	10.841	
16,800.00	7,618.00	7,571.00	7,571.00	139.53	131.16	90.00	-2,506.46	5,326.75	2,805.84	2,556.18	249.66	11.239	
16,900.00	7,618.00	7,571.00	7,571.00	140.55	131.16	90.00	-2,506.46	5,326.75	2,905.66	2,655.95	249.71	11.636	
17,000.00	7,618.00	7,571.00	7,571.00	141.60	131.16	90.00	-2,506.46	5,326.75	3,005.50	2,755.74	249.76	12.034	
17,100.00	7,618.00	7,571.00	7,571.00	142.67	131.16	90.00	-2,506.46	5,326.75	3,105.34	2,855.54	249.80	12.431	
17,200.00	7,618.00	7,571.00	7,571.00	143.77	131.16	90.00	-2,506.46	5,326.75	3,205.20	2,955.35	249.85	12.829	
17,300.00	7,618.00	7,571.00	7,571.00	144.88	131.16	90.00	-2,506.46	5,326.75	3,305.06	3,055.17	249.89	13.226	
17,400.00	7,618.00	7,571.00	7,571.00	146.02	131.16	90.00	-2,506.46	5,326.75	3,404.93	3,155.00	249.93	13.623	
17,500.00	7,618.00	7,571.00	7,571.00	147.19	131.16	90.00	-2,506.46	5,326.75	3,504.81	3,254.84	249.97	14.021	
17,600.00	7,618.00	7,571.00	7,571.00	148.37	131.16	90.00	-2,506.46	5,326.75	3,604.70	3,354.69	250.01	14.418	
17,700.00	7,618.00	7,571.00	7,571.00	149.57	131.16	90.00	-2,506.46	5,326.75	3,704.59	3,454.54	250.04	14.816	
17,800.00	7,618.00	7,571.00	7,571.00	150.79	131.16	90.00	-2,506.46	5,326.75	3,804.49	3,554.40	250.08	15.213	
17,900.00	7,618.00	7,571.00	7,571.00	152.03	131.16	90.00	-2,506.46	5,326.75	3,904.39	3,654.27	250.11	15.610	
18,000.00	7,618.00	7,571.00	7,571.00	153.29	131.16	90.00	-2,506.46	5,326.75	4,004.30	3,754.15	250.15	16.008	
18,100.00	7,618.00	7,571.00	7,571.00	154.57	131.16	90.00	-2,506.46	5,326.75	4,104.21	3,854.03	250.18	16.405	
18,200.00	7,618.00	7,571.00	7,571.00	155.86	131.16	90.00	-2,506.46	5,326.75	4,204.12	3,953.91	250.21	16.802	
18,300.00	7,618.00	7,571.00	7,571.00	157.17	131.16	90.00	-2,506.46	5,326.75	4,304.04	4,053.80	250.24	17.199	
18,400.00	7,618.00	7,571.00	7,571.00	158.49	131.16	90.00	-2,506.46	5,326.75	4,403.97	4,153.69	250.28	17.597	
18,500.00	7,618.00	7,571.00	7,571.00	159.82	131.16	90.00	-2,506.46	5,326.75	4,503.90	4,253.59	250.31	17.994	
18,600.00	7,618.00	7,571.00	7,571.00	161.17	131.16	90.00	-2,506.46	5,326.75	4,603.83	4,353.49	250.34	18.391	
18,700.00	7,618.00	7,571.00	7,571.00	162.54	131.16	90.00	-2,506.46	5,326.75	4,703.76	4,453.39	250.36	18.788	
18,800.00	7,618.00	7,571.00	7,571.00	163.91	131.16	90.00	-2,506.46	5,326.75	4,803.70	4,553.30	250.39	19.185	
18,900.00	7,618.00	7,571.00	7,571.00	165.30	131.16	90.00	-2,506.46	5,326.75	4,903.63	4,653.21	250.42	19.582	
19,000.00	7,618.00	7,571.00	7,571.00	166.70	131.16	90.00	-2,506.46	5,326.75	5,003.58	4,753.13	250.45	19.978	
19,100.00	7,618.00	7,571.00	7,571.00	168.10	131.16	90.00	-2,506.46	5,326.75	5,103.52	4,853.04	250.48	20.375	
19,200.00	7,618.00	7,571.00	7,571.00	169.52	131.16	90.00	-2,506.46	5,326.75	5,203.46	4,952.96	250.51	20.772	
19,300.00	7,618.00	7,571.00	7,571.00	170.95	131.16	90.00	-2,506.46	5,326.75	5,303.41	5,052.88	250.53	21.169	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	7,571.00	7,571.00	172.39	131.16	90.00	-2,506.46	5,326.75	5,403.36	5,152.80	250.56	21.565	
19,500.00	7,618.00	7,571.00	7,571.00	173.84	131.16	90.00	-2,506.46	5,326.75	5,503.31	5,252.73	250.59	21.962	
19,600.00	7,618.00	7,571.00	7,571.00	175.30	131.16	90.00	-2,506.46	5,326.75	5,603.27	5,352.65	250.61	22.358	
19,700.00	7,618.00	7,571.00	7,571.00	176.76	131.16	90.00	-2,506.46	5,326.75	5,703.22	5,452.58	250.64	22.755	
19,800.00	7,618.00	7,571.00	7,571.00	178.24	131.16	90.00	-2,506.46	5,326.75	5,803.18	5,552.51	250.67	23.151	
19,896.19	7,618.00	7,571.00	7,571.00	179.66	131.16	90.00	-2,506.46	5,326.75	5,899.33	5,648.63	250.69	23.532	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	144.10	-4,237.21	3,067.11	5,230.85				
100.00	100.00	75.00	75.00	0.13	0.62	144.10	-4,237.21	3,067.11	5,230.79	5,230.03	0.76	6,917.191	
200.00	200.00	175.00	175.00	0.49	2.14	144.10	-4,237.21	3,067.11	5,230.79	5,228.16	2.63	1,988.192	
300.00	299.98	274.98	274.98	0.85	3.88	74.81	-4,237.21	3,067.11	5,230.33	5,225.60	4.73	1,105.699	
400.00	399.84	374.84	374.84	1.21	5.63	74.89	-4,237.21	3,067.11	5,228.96	5,222.13	6.83	765.423	
500.00	499.45	474.45	474.45	1.58	7.36	75.03	-4,237.21	3,067.11	5,226.69	5,217.75	8.94	584.601	
600.00	598.70	573.70	573.70	1.97	9.10	75.22	-4,237.21	3,067.11	5,223.54	5,212.48	11.06	472.265	
700.00	697.47	672.47	672.47	2.38	10.82	75.46	-4,237.21	3,067.11	5,219.54	5,206.34	13.20	395.567	
800.00	795.62	770.62	770.62	2.83	12.53	75.75	-4,237.21	3,067.11	5,214.71	5,199.36	15.35	339.768	
900.00	893.06	868.06	868.06	3.31	14.23	76.10	-4,237.21	3,067.11	5,209.10	5,191.58	17.52	297.282	
1,000.00	989.64	964.64	964.64	3.83	15.92	76.49	-4,237.21	3,067.11	5,202.77	5,183.04	19.72	263.801	
1,100.00	1,085.27	1,060.27	1,060.27	4.40	17.59	76.92	-4,237.21	3,067.11	5,195.75	5,173.80	21.95	236.704	
1,200.00	1,179.82	1,154.82	1,154.82	5.02	19.24	77.41	-4,237.21	3,067.11	5,188.13	5,163.92	24.21	214.301	
1,300.00	1,273.17	1,248.17	1,248.17	5.70	20.87	77.93	-4,237.21	3,067.11	5,179.95	5,153.45	26.50	195.455	
1,400.00	1,365.21	1,340.21	1,340.21	6.43	22.47	78.49	-4,237.21	3,067.11	5,171.31	5,142.48	28.83	179.373	
1,500.00	1,455.84	1,430.84	1,430.84	7.23	24.06	79.09	-4,237.21	3,067.11	5,162.28	5,131.09	31.19	165.485	
1,600.00	1,544.94	1,519.94	1,519.94	8.09	25.61	79.71	-4,237.21	3,067.11	5,152.95	5,119.35	33.60	153.370	
1,700.00	1,632.39	1,607.39	1,607.39	9.01	27.14	80.37	-4,237.21	3,067.11	5,143.41	5,107.37	36.04	142.710	
1,800.00	1,718.11	1,706.89	1,693.11	10.00	28.87	81.05	-4,237.21	3,067.11	5,133.76	5,094.99	38.76	132.435	
1,900.00	1,801.97	1,776.97	1,776.97	11.07	30.10	81.75	-4,237.21	3,067.11	5,124.09	5,083.04	41.05	124.835	
2,000.00	1,883.88	1,858.88	1,858.88	12.20	31.53	82.46	-4,237.21	3,067.11	5,114.52	5,070.91	43.61	117.278	
2,100.00	1,963.74	1,938.74	1,938.74	13.41	32.92	83.18	-4,237.21	3,067.11	5,105.15	5,058.94	46.21	110.469	
2,200.00	2,041.45	2,016.45	2,016.45	14.69	34.28	83.91	-4,237.21	3,067.11	5,096.09	5,047.24	48.86	104.310	
2,300.00	2,116.92	2,108.08	2,091.92	16.05	35.88	84.64	-4,237.21	3,067.11	5,087.46	5,035.65	51.82	98.182	
2,357.48	2,159.25	2,134.25	2,134.25	16.86	36.33	85.06	-4,237.21	3,067.11	5,082.74	5,029.65	53.09	95.739	
2,400.00	2,190.27	2,165.27	2,165.27	17.47	36.87	85.30	-4,237.21	3,067.11	5,079.40	5,025.16	54.25	93.637	
2,500.00	2,263.22	2,238.22	2,238.22	18.92	38.15	85.86	-4,237.21	3,067.11	5,072.20	5,015.22	56.98	89.021	
2,600.00	2,336.18	2,311.18	2,311.18	20.37	39.42	86.43	-4,237.21	3,067.11	5,065.90	5,006.18	59.72	84.826	
2,700.00	2,409.14	2,384.14	2,384.14	21.84	40.69	86.99	-4,237.21	3,067.11	5,060.53	4,998.05	62.47	81.003	
2,800.00	2,482.09	2,457.09	2,457.09	23.31	41.97	87.55	-4,237.21	3,067.11	5,056.07	4,990.84	65.23	77.508	
2,900.00	2,555.05	2,530.05	2,530.05	24.78	43.24	88.12	-4,237.21	3,067.11	5,052.54	4,984.54	68.00	74.306	
3,000.00	2,628.01	2,603.01	2,603.01	26.27	44.51	88.69	-4,237.21	3,067.11	5,049.93	4,979.16	70.76	71.364	
3,100.00	2,700.96	2,675.96	2,675.96	27.75	45.79	89.25	-4,237.21	3,067.11	5,048.24	4,974.71	73.53	68.654	
3,200.00	2,773.92	2,748.92	2,748.92	29.24	47.06	89.82	-4,237.21	3,067.11	5,047.48	4,971.18	76.30	66.153	
3,231.97	2,797.25	2,772.25	2,772.25	29.72	47.47	90.00	-4,237.21	3,067.11	5,047.43	4,970.25	77.18	65.394	
3,300.00	2,846.88	2,821.88	2,821.88	30.73	48.33	90.39	-4,237.21	3,067.11	5,047.65	4,968.58	79.07	63.840	
3,400.00	2,919.83	2,905.17	2,894.83	32.23	49.79	90.95	-4,237.21	3,067.11	5,048.74	4,966.73	82.01	61.561	
3,500.00	2,992.79	2,967.79	2,967.79	33.72	50.88	91.52	-4,237.21	3,067.11	5,050.76	4,966.17	84.59	59.707	
3,600.00	3,065.75	3,040.75	3,040.75	35.22	52.15	92.08	-4,237.21	3,067.11	5,053.70	4,966.36	87.35	57.857	
3,700.00	3,138.71	3,113.71	3,113.71	36.72	53.43	92.65	-4,237.21	3,067.11	5,057.57	4,967.47	90.10	56.133	
3,800.00	3,211.66	3,186.66	3,186.66	38.22	54.70	93.21	-4,237.21	3,067.11	5,062.36	4,969.52	92.84	54.525	
3,900.00	3,284.62	3,259.62	3,259.62	39.72	55.97	93.78	-4,237.21	3,067.11	5,068.07	4,972.49	95.58	53.023	
4,000.00	3,357.58	3,332.58	3,332.58	41.22	57.25	94.34	-4,237.21	3,067.11	5,074.69	4,976.38	98.31	51.618	
4,100.00	3,430.53	3,405.53	3,405.53	42.73	58.52	94.90	-4,237.21	3,067.11	5,082.22	4,981.19	101.03	50.303	
4,200.00	3,503.49	3,478.49	3,478.49	44.23	59.79	95.47	-4,237.21	3,067.11	5,090.67	4,986.92	103.74	49.070	
4,300.00	3,576.45	3,551.45	3,551.45	45.74	61.07	96.03	-4,237.21	3,067.11	5,100.01	4,993.57	106.44	47.913	
4,400.00	3,649.40	3,624.40	3,624.40	47.25	62.34	96.59	-4,237.21	3,067.11	5,110.25	5,001.12	109.13	46.826	
4,500.00	3,722.36	3,702.64	3,697.36	48.75	63.71	97.14	-4,237.21	3,067.11	5,121.39	5,009.49	111.90	45.766	
4,600.00	3,795.32	3,770.32	3,770.32	50.26	64.89	97.70	-4,237.21	3,067.11	5,133.41	5,018.94	114.48	44.842	
4,700.00	3,868.27	3,843.27	3,843.27	51.77	66.16	98.26	-4,237.21	3,067.11	5,146.32	5,029.19	117.13	43.936	
4,800.00	3,941.23	3,916.23	3,916.23	53.28	67.43	98.81	-4,237.21	3,067.11	5,160.10	5,040.32	119.77	43.083	
4,900.00	4,014.19	3,989.19	3,989.19	54.79	68.71	99.36	-4,237.21	3,067.11	5,174.74	5,052.34	122.40	42.278	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,087.15	4,062.15	4,062.15	56.30	69.98	99.91	-4,237.21	3,067.11	5,190.25	5,065.24	125.01	41.518	
5,100.00	4,160.10	4,135.10	4,135.10	57.81	71.25	100.46	-4,237.21	3,067.11	5,206.60	5,079.00	127.61	40.801	
5,200.00	4,233.06	4,208.06	4,208.06	59.32	72.53	101.01	-4,237.21	3,067.11	5,223.81	5,093.62	130.19	40.124	
5,300.00	4,306.02	4,281.02	4,281.02	60.83	73.80	101.55	-4,237.21	3,067.11	5,241.84	5,109.09	132.76	39.484	
5,400.00	4,378.97	4,353.97	4,353.97	62.34	75.07	102.10	-4,237.21	3,067.11	5,260.71	5,125.40	135.31	38.879	
5,500.00	4,451.93	4,426.93	4,426.93	63.85	76.35	102.64	-4,237.21	3,067.11	5,280.39	5,142.55	137.85	38.306	
5,600.00	4,524.89	4,500.11	4,499.89	65.36	77.63	103.18	-4,237.21	3,067.11	5,300.89	5,160.52	140.37	37.764	
5,700.00	4,597.84	4,572.84	4,572.84	66.88	78.89	103.71	-4,237.21	3,067.11	5,322.18	5,179.31	142.87	37.252	
5,800.00	4,670.80	4,645.80	4,645.80	68.39	80.17	104.24	-4,237.21	3,067.11	5,344.26	5,198.91	145.36	36.767	
5,900.00	4,743.76	4,718.76	4,718.76	69.90	81.44	104.77	-4,237.21	3,067.11	5,367.13	5,219.30	147.83	36.307	
6,000.00	4,816.71	4,808.29	4,791.71	71.41	83.00	105.30	-4,237.21	3,067.11	5,390.76	5,240.19	150.57	35.803	
6,100.00	4,889.67	4,864.67	4,864.67	72.93	83.99	105.83	-4,237.21	3,067.11	5,415.16	5,262.44	152.72	35.459	
6,200.00	4,962.63	4,937.63	4,937.63	74.44	85.26	106.35	-4,237.21	3,067.11	5,440.30	5,285.17	155.13	35.068	
6,300.00	5,035.59	5,010.59	5,010.59	75.95	86.53	106.87	-4,237.21	3,067.11	5,466.19	5,308.65	157.54	34.698	
6,400.00	5,108.54	5,050.00	5,050.00	77.47	87.22	107.15	-4,237.21	3,067.11	5,492.91	5,333.59	159.32	34.478	
6,500.00	5,181.50	5,050.00	5,050.00	78.98	87.22	107.15	-4,237.21	3,067.11	5,521.17	5,360.82	160.34	34.434	
6,600.00	5,254.46	5,050.00	5,050.00	80.49	87.22	107.15	-4,237.21	3,067.11	5,551.08	5,389.76	161.32	34.410	
6,700.00	5,327.41	5,050.00	5,050.00	82.01	87.22	107.15	-4,237.21	3,067.11	5,582.63	5,420.37	162.26	34.406	
6,800.00	5,400.37	5,050.00	5,050.00	83.52	87.22	107.15	-4,237.21	3,067.11	5,615.78	5,452.63	163.15	34.421	
6,900.00	5,473.33	5,050.00	5,050.00	85.04	87.22	107.15	-4,237.21	3,067.11	5,650.51	5,486.52	163.99	34.455	
7,000.00	5,546.28	5,050.00	5,050.00	86.55	87.22	107.15	-4,237.21	3,067.11	5,686.78	5,521.99	164.80	34.508	
7,100.00	5,619.24	5,050.00	5,050.00	88.06	87.22	107.15	-4,237.21	3,067.11	5,724.58	5,559.02	165.56	34.578	
7,200.00	5,692.20	5,050.00	5,050.00	89.58	87.22	107.15	-4,237.21	3,067.11	5,763.85	5,597.58	166.27	34.665	
7,300.00	5,765.15	5,050.00	5,050.00	91.09	87.22	107.15	-4,237.21	3,067.11	5,804.59	5,637.64	166.95	34.769	
7,400.00	5,838.11	5,050.00	5,050.00	92.61	87.22	107.15	-4,237.21	3,067.11	5,846.75	5,679.17	167.59	34.888	
7,500.00	5,911.07	5,050.00	5,050.00	94.12	87.22	107.15	-4,237.21	3,067.11	5,890.31	5,722.13	168.18	35.023	
7,600.00	5,984.03	5,050.00	5,050.00	95.64	87.22	107.15	-4,237.21	3,067.11	5,935.24	5,766.49	168.74	35.173	
7,700.00	6,056.98	5,050.00	5,050.00	97.15	87.22	107.15	-4,237.21	3,067.11	5,981.49	5,812.22	169.27	35.337	
7,800.00	6,129.94	5,050.00	5,050.00	98.67	87.22	107.15	-4,237.21	3,067.11	6,029.06	5,859.30	169.76	35.516	
7,900.00	6,202.90	5,050.00	5,050.00	100.18	87.22	107.15	-4,237.21	3,067.11	6,077.89	5,907.68	170.21	35.707	
8,000.00	6,275.85	5,050.00	5,050.00	101.70	87.22	107.15	-4,237.21	3,067.11	6,127.97	5,957.33	170.64	35.912	
8,100.00	6,348.81	5,050.00	5,050.00	103.21	87.22	107.15	-4,237.21	3,067.11	6,179.26	6,008.23	171.03	36.130	
8,200.00	6,421.77	5,050.00	5,050.00	104.73	87.22	107.15	-4,237.21	3,067.11	6,231.73	6,060.34	171.39	36.360	
8,300.00	6,494.72	5,050.00	5,050.00	106.24	87.22	107.15	-4,237.21	3,067.11	6,285.36	6,113.64	171.72	36.602	
8,400.00	6,567.68	5,050.00	5,050.00	107.76	87.22	107.15	-4,237.21	3,067.11	6,340.11	6,168.08	172.03	36.855	
8,500.00	6,640.64	5,050.00	5,050.00	109.27	87.22	107.15	-4,237.21	3,067.11	6,395.96	6,223.65	172.31	37.119	
8,600.00	6,713.59	5,050.00	5,050.00	110.79	87.22	107.15	-4,237.21	3,067.11	6,452.87	6,280.31	172.56	37.395	
8,700.00	6,786.55	5,050.00	5,050.00	112.30	87.22	107.15	-4,237.21	3,067.11	6,510.82	6,338.03	172.79	37.680	
8,800.00	6,859.51	5,050.00	5,050.00	113.82	87.22	107.15	-4,237.21	3,067.11	6,569.78	6,396.78	173.00	37.976	
8,900.00	6,932.46	5,050.00	5,050.00	115.33	87.22	107.15	-4,237.21	3,067.11	6,629.73	6,456.54	173.18	38.281	
9,000.00	7,005.42	5,050.00	5,050.00	116.85	87.22	107.15	-4,237.21	3,067.11	6,690.63	6,517.28	173.35	38.596	
9,104.89	7,081.95	5,050.00	5,050.00	118.44	87.22	107.15	-4,237.21	3,067.11	6,755.51	6,582.01	173.50	38.936	
9,150.00	7,115.15	5,050.00	5,050.00	119.12	87.22	102.29	-4,237.21	3,067.11	6,782.31	6,608.75	173.56	39.077	
9,200.00	7,152.46	5,050.00	5,050.00	119.86	87.22	96.66	-4,237.21	3,067.11	6,808.83	6,635.20	173.63	39.214	
9,250.00	7,190.04	5,050.00	5,050.00	120.57	87.22	90.91	-4,237.21	3,067.11	6,831.84	6,658.13	173.70	39.331	
9,300.00	7,227.59	5,050.00	5,050.00	121.25	87.22	85.18	-4,237.21	3,067.11	6,851.20	6,677.43	173.77	39.428	
9,350.00	7,264.83	5,050.00	5,050.00	121.89	87.22	79.63	-4,237.21	3,067.11	6,866.79	6,692.97	173.82	39.505	
9,400.00	7,301.48	5,050.00	5,050.00	122.48	87.22	74.38	-4,237.21	3,067.11	6,878.53	6,704.67	173.86	39.564	
9,450.00	7,337.26	5,050.00	5,050.00	123.01	87.22	69.53	-4,237.21	3,067.11	6,886.34	6,712.46	173.88	39.604	
9,500.00	7,371.90	5,050.00	5,050.00	123.49	87.22	65.13	-4,237.21	3,067.11	6,890.18	6,716.30	173.87	39.627	
9,550.00	7,405.13	5,050.00	5,050.00	123.91	87.22	61.21	-4,237.21	3,067.11	6,890.02	6,716.18	173.85	39.633	
9,600.00	7,436.70	5,050.00	5,050.00	124.27	87.22	57.76	-4,237.21	3,067.11	6,885.87	6,712.08	173.79	39.621	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	5,050.00	5,050.00	124.57	87.22	54.75	-4,237.21	3,067.11	6,877.75	6,704.04	173.71	39.593	
9,700.00	7,493.91	5,050.00	5,050.00	124.81	87.22	52.17	-4,237.21	3,067.11	6,865.71	6,692.11	173.60	39.549	
9,750.00	7,519.11	5,050.00	5,050.00	125.00	87.22	49.98	-4,237.21	3,067.11	6,849.82	6,676.35	173.47	39.488	
9,800.00	7,541.79	5,050.00	5,050.00	125.12	87.22	48.15	-4,237.21	3,067.11	6,830.17	6,656.86	173.31	39.411	
9,850.00	7,561.77	5,050.00	5,050.00	125.20	87.22	46.64	-4,237.21	3,067.11	6,806.88	6,633.76	173.12	39.318	
9,900.00	7,578.90	5,050.00	5,050.00	125.23	87.22	45.45	-4,237.21	3,067.11	6,780.10	6,607.18	172.92	39.209	
9,950.00	7,593.04	5,050.00	5,050.00	125.22	87.22	44.54	-4,237.21	3,067.11	6,749.98	6,577.27	172.71	39.084	
10,000.00	7,604.09	5,050.00	5,050.00	125.17	87.22	43.90	-4,237.21	3,067.11	6,716.71	6,544.23	172.48	38.942	
10,050.00	7,611.97	5,050.00	5,050.00	125.08	87.22	43.54	-4,237.21	3,067.11	6,680.51	6,508.26	172.25	38.784	
10,100.00	7,616.61	5,050.00	5,050.00	124.97	87.22	43.45	-4,237.21	3,067.11	6,641.59	6,469.57	172.02	38.609	
10,145.95	7,618.00	5,050.00	5,050.00	124.84	87.22	43.62	-4,237.21	3,067.11	6,603.65	6,431.83	171.82	38.434	
10,200.00	7,618.00	5,050.00	5,050.00	124.69	87.22	43.62	-4,237.21	3,067.11	6,557.95	6,386.37	171.58	38.221	
10,300.00	7,618.00	5,050.00	5,050.00	124.41	87.22	43.62	-4,237.21	3,067.11	6,473.73	6,302.60	171.13	37.830	
10,400.00	7,618.00	5,050.00	5,050.00	124.14	87.22	43.62	-4,237.21	3,067.11	6,389.96	6,219.30	170.66	37.443	
10,500.00	7,618.00	5,050.00	5,050.00	123.88	87.22	43.62	-4,237.21	3,067.11	6,306.67	6,136.50	170.17	37.060	
10,600.00	7,618.00	5,050.00	5,050.00	123.63	87.22	43.62	-4,237.21	3,067.11	6,223.87	6,054.20	169.67	36.682	
10,700.00	7,618.00	5,050.00	5,050.00	123.40	87.22	43.62	-4,237.21	3,067.11	6,141.58	5,972.42	169.16	36.307	
10,800.00	7,618.00	5,050.00	5,050.00	123.18	87.22	43.62	-4,237.21	3,067.11	6,059.82	5,891.20	168.62	35.937	
10,900.00	7,618.00	5,050.00	5,050.00	122.96	87.22	43.62	-4,237.21	3,067.11	5,978.62	5,810.55	168.07	35.572	
11,000.00	7,618.00	5,050.00	5,050.00	122.76	87.22	43.62	-4,237.21	3,067.11	5,898.00	5,730.50	167.50	35.212	
11,100.00	7,618.00	5,050.00	5,050.00	122.57	87.22	43.62	-4,237.21	3,067.11	5,817.98	5,651.07	166.91	34.857	
11,200.00	7,618.00	5,050.00	5,050.00	122.39	87.22	43.62	-4,237.21	3,067.11	5,738.58	5,572.28	166.30	34.507	
11,300.00	7,618.00	5,050.00	5,050.00	122.23	87.22	43.62	-4,237.21	3,067.11	5,659.84	5,494.17	165.67	34.163	
11,400.00	7,618.00	5,050.00	5,050.00	122.07	87.22	43.62	-4,237.21	3,067.11	5,581.78	5,416.76	165.02	33.824	
11,500.00	7,618.00	5,050.00	5,050.00	121.93	87.22	43.62	-4,237.21	3,067.11	5,504.43	5,340.08	164.35	33.492	
11,600.00	7,618.00	5,050.00	5,050.00	121.79	87.22	43.62	-4,237.21	3,067.11	5,427.82	5,264.16	163.66	33.165	
11,700.00	7,618.00	5,050.00	5,050.00	121.67	87.22	43.62	-4,237.21	3,067.11	5,351.98	5,189.04	162.94	32.845	
11,800.00	7,618.00	5,050.00	5,050.00	121.56	87.22	43.62	-4,237.21	3,067.11	5,276.95	5,114.74	162.21	32.532	
11,900.00	7,618.00	5,050.00	5,050.00	121.46	87.22	43.62	-4,237.21	3,067.11	5,202.75	5,041.31	161.44	32.226	
12,000.00	7,618.00	5,050.00	5,050.00	121.38	87.22	43.62	-4,237.21	3,067.11	5,129.43	4,968.77	160.66	31.928	
12,100.00	7,618.00	5,050.00	5,050.00	121.30	87.22	43.62	-4,237.21	3,067.11	5,057.03	4,897.18	159.85	31.636	
12,200.00	7,618.00	5,050.00	5,050.00	121.24	87.22	43.62	-4,237.21	3,067.11	4,985.58	4,826.57	159.01	31.353	
12,300.00	7,618.00	5,050.00	5,050.00	121.19	87.22	43.62	-4,237.21	3,067.11	4,915.13	4,756.97	158.16	31.078	
12,400.00	7,618.00	5,050.00	5,050.00	121.16	87.22	43.62	-4,237.21	3,067.11	4,845.71	4,688.44	157.27	30.811	
12,500.00	7,618.00	5,050.00	5,050.00	121.14	87.22	43.62	-4,237.21	3,067.11	4,777.39	4,621.02	156.37	30.553	
12,600.00	7,618.00	5,050.00	5,050.00	121.13	87.22	43.62	-4,237.21	3,067.11	4,710.19	4,554.76	155.43	30.304	
12,700.00	7,618.00	5,050.00	5,050.00	121.13	87.22	43.62	-4,237.21	3,067.11	4,644.17	4,489.70	154.48	30.064	
12,800.00	7,618.00	5,050.00	5,050.00	121.15	87.22	43.62	-4,237.21	3,067.11	4,579.39	4,425.89	153.50	29.833	
12,900.00	7,618.00	5,050.00	5,050.00	121.18	87.22	43.62	-4,237.21	3,067.11	4,515.89	4,363.39	152.50	29.612	
13,000.00	7,618.00	5,050.00	5,050.00	121.23	87.22	43.62	-4,237.21	3,067.11	4,453.74	4,302.25	151.48	29.401	
13,100.00	7,618.00	5,050.00	5,050.00	121.29	87.22	43.62	-4,237.21	3,067.11	4,392.97	4,242.53	150.44	29.201	
13,200.00	7,618.00	5,050.00	5,050.00	121.37	87.22	43.62	-4,237.21	3,067.11	4,333.67	4,184.29	149.38	29.010	
13,300.00	7,618.00	5,050.00	5,050.00	121.46	87.22	43.62	-4,237.21	3,067.11	4,275.88	4,127.57	148.31	28.830	
13,400.00	7,618.00	5,050.00	5,050.00	121.57	87.22	43.62	-4,237.21	3,067.11	4,219.67	4,072.44	147.23	28.661	
13,500.00	7,618.00	5,050.00	5,050.00	121.70	87.22	43.62	-4,237.21	3,067.11	4,165.10	4,018.97	146.14	28.501	
13,600.00	7,618.00	5,050.00	5,050.00	121.84	87.22	43.62	-4,237.21	3,067.11	4,112.25	3,967.21	145.04	28.353	
13,700.00	7,618.00	5,050.00	5,050.00	122.01	87.22	43.62	-4,237.21	3,067.11	4,061.16	3,917.22	143.94	28.214	
13,800.00	7,618.00	5,050.00	5,050.00	122.19	87.22	43.62	-4,237.21	3,067.11	4,011.92	3,869.08	142.84	28.086	
13,900.00	7,618.00	5,050.00	5,050.00	122.39	87.22	43.62	-4,237.21	3,067.11	3,964.59	3,822.83	141.76	27.968	
14,000.00	7,618.00	5,050.00	5,050.00	122.62	87.22	43.62	-4,237.21	3,067.11	3,919.24	3,778.55	140.68	27.858	
14,100.00	7,618.00	5,050.00	5,050.00	122.86	87.22	43.62	-4,237.21	3,067.11	3,875.94	3,736.31	139.63	27.758	
14,200.00	7,618.00	5,050.00	5,050.00	123.12	87.22	43.62	-4,237.21	3,067.11	3,834.76	3,696.15	138.61	27.666	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	5,050.00	5,050.00	123.41	87.22	43.62	-4,237.21	3,067.11	3,795.77	3,658.15	137.62	27.582	
14,400.00	7,618.00	5,050.00	5,050.00	123.72	87.22	43.62	-4,237.21	3,067.11	3,759.03	3,622.36	136.67	27.504	
14,500.00	7,618.00	5,050.00	5,050.00	124.06	87.22	43.62	-4,237.21	3,067.11	3,724.62	3,588.84	135.78	27.432	
14,600.00	7,618.00	5,050.00	5,050.00	124.42	87.22	43.62	-4,237.21	3,067.11	3,692.59	3,557.65	134.94	27.365	
14,700.00	7,618.00	5,050.00	5,050.00	124.80	87.22	43.62	-4,237.21	3,067.11	3,663.02	3,528.85	134.17	27.302	
14,800.00	7,618.00	5,050.00	5,050.00	125.21	87.22	43.62	-4,237.21	3,067.11	3,635.96	3,502.48	133.47	27.241	
14,900.00	7,618.00	5,050.00	5,050.00	125.65	87.22	43.62	-4,237.21	3,067.11	3,611.46	3,478.60	132.86	27.182	
15,000.00	7,618.00	5,050.00	5,050.00	126.11	87.22	43.62	-4,237.21	3,067.11	3,589.58	3,457.24	132.34	27.123	
15,100.00	7,618.00	5,050.00	5,050.00	126.61	87.22	43.62	-4,237.21	3,067.11	3,570.37	3,438.45	131.92	27.065	
15,200.00	7,618.00	5,050.00	5,050.00	127.13	87.22	43.62	-4,237.21	3,067.11	3,553.88	3,422.27	131.60	27.005	
15,300.00	7,618.00	5,050.00	5,050.00	127.68	87.22	43.62	-4,237.21	3,067.11	3,540.13	3,408.73	131.39	26.943	
15,400.00	7,618.00	5,050.00	5,050.00	128.26	87.22	43.62	-4,237.21	3,067.11	3,529.16	3,397.86	131.30	26.879	
15,500.00	7,618.00	5,050.00	5,050.00	128.87	87.22	43.62	-4,237.21	3,067.11	3,521.00	3,389.68	131.32	26.812	
15,600.00	7,618.00	5,050.00	5,050.00	129.51	87.22	43.62	-4,237.21	3,067.11	3,515.67	3,384.21	131.46	26.743	
15,700.00	7,618.00	5,050.00	5,050.00	130.18	87.22	43.62	-4,237.21	3,067.11	3,513.17	3,381.45	131.72	26.672	
15,737.66	7,618.00	5,050.00	5,050.00	130.44	87.22	43.62	-4,237.21	3,067.11	3,512.97	3,381.12	131.85	26.645	CC, ES
15,800.00	7,618.00	5,050.00	5,050.00	130.88	87.22	43.62	-4,237.21	3,067.11	3,513.52	3,381.43	132.09	26.599	
15,900.00	7,618.00	5,050.00	5,050.00	131.61	87.22	43.62	-4,237.21	3,067.11	3,516.72	3,384.14	132.58	26.526	
16,000.00	7,618.00	5,050.00	5,050.00	132.37	87.22	43.62	-4,237.21	3,067.11	3,522.75	3,389.58	133.17	26.452	
16,100.00	7,618.00	5,050.00	5,050.00	133.17	87.22	43.62	-4,237.21	3,067.11	3,531.61	3,397.73	133.87	26.380	
16,200.00	7,618.00	5,050.00	5,050.00	133.99	87.22	43.62	-4,237.21	3,067.11	3,543.26	3,408.59	134.67	26.310	
16,300.00	7,618.00	5,050.00	5,050.00	134.84	87.22	43.62	-4,237.21	3,067.11	3,557.69	3,422.13	135.56	26.244	
16,400.00	7,618.00	5,050.00	5,050.00	135.72	87.22	43.62	-4,237.21	3,067.11	3,574.86	3,438.33	136.53	26.183	
16,500.00	7,618.00	5,050.00	5,050.00	136.63	87.22	43.62	-4,237.21	3,067.11	3,594.73	3,457.16	137.58	26.129	
16,600.00	7,618.00	5,050.00	5,050.00	137.57	87.22	43.62	-4,237.21	3,067.11	3,617.26	3,478.58	138.69	26.082	
16,700.00	7,618.00	5,050.00	5,050.00	138.54	87.22	43.62	-4,237.21	3,067.11	3,642.40	3,502.55	139.85	26.045	
16,800.00	7,618.00	5,050.00	5,050.00	139.53	87.22	43.62	-4,237.21	3,067.11	3,670.08	3,529.02	141.06	26.017	
16,900.00	7,618.00	5,050.00	5,050.00	140.55	87.22	43.62	-4,237.21	3,067.11	3,700.27	3,557.96	142.31	26.001	
17,000.00	7,618.00	5,050.00	5,050.00	141.60	87.22	43.62	-4,237.21	3,067.11	3,732.89	3,589.30	143.59	25.996	SF
17,100.00	7,618.00	5,050.00	5,050.00	142.67	87.22	43.62	-4,237.21	3,067.11	3,767.88	3,622.99	144.89	26.004	
17,200.00	7,618.00	5,050.00	5,050.00	143.77	87.22	43.62	-4,237.21	3,067.11	3,805.18	3,658.97	146.21	26.026	
17,300.00	7,618.00	5,050.00	5,050.00	144.88	87.22	43.62	-4,237.21	3,067.11	3,844.72	3,697.19	147.53	26.060	
17,400.00	7,618.00	5,050.00	5,050.00	146.02	87.22	43.62	-4,237.21	3,067.11	3,886.43	3,737.57	148.85	26.109	
17,500.00	7,618.00	5,050.00	5,050.00	147.19	87.22	43.62	-4,237.21	3,067.11	3,930.24	3,780.07	150.17	26.171	
17,600.00	7,618.00	5,050.00	5,050.00	148.37	87.22	43.62	-4,237.21	3,067.11	3,976.09	3,824.60	151.48	26.248	
17,700.00	7,618.00	5,050.00	5,050.00	149.57	87.22	43.62	-4,237.21	3,067.11	4,023.89	3,871.12	152.77	26.339	
17,800.00	7,618.00	5,050.00	5,050.00	150.79	87.22	43.62	-4,237.21	3,067.11	4,073.60	3,919.55	154.05	26.443	
17,900.00	7,618.00	5,050.00	5,050.00	152.03	87.22	43.62	-4,237.21	3,067.11	4,125.13	3,969.82	155.30	26.562	
18,000.00	7,618.00	5,050.00	5,050.00	153.29	87.22	43.62	-4,237.21	3,067.11	4,178.41	4,021.88	156.53	26.694	
18,100.00	7,618.00	5,050.00	5,050.00	154.57	87.22	43.62	-4,237.21	3,067.11	4,233.39	4,075.66	157.73	26.839	
18,200.00	7,618.00	5,050.00	5,050.00	155.86	87.22	43.62	-4,237.21	3,067.11	4,290.00	4,131.09	158.91	26.997	
18,300.00	7,618.00	5,050.00	5,050.00	157.17	87.22	43.62	-4,237.21	3,067.11	4,348.16	4,188.12	160.05	27.168	
18,400.00	7,618.00	5,050.00	5,050.00	158.49	87.22	43.62	-4,237.21	3,067.11	4,407.83	4,246.68	161.16	27.351	
18,500.00	7,618.00	5,050.00	5,050.00	159.82	87.22	43.62	-4,237.21	3,067.11	4,468.94	4,306.71	162.24	27.546	
18,600.00	7,618.00	5,050.00	5,050.00	161.17	87.22	43.62	-4,237.21	3,067.11	4,531.44	4,368.16	163.28	27.752	
18,700.00	7,618.00	5,050.00	5,050.00	162.54	87.22	43.62	-4,237.21	3,067.11	4,595.26	4,430.96	164.30	27.969	
18,800.00	7,618.00	5,050.00	5,050.00	163.91	87.22	43.62	-4,237.21	3,067.11	4,660.35	4,495.07	165.28	28.197	
18,900.00	7,618.00	5,050.00	5,050.00	165.30	87.22	43.62	-4,237.21	3,067.11	4,726.66	4,560.44	166.22	28.435	
19,000.00	7,618.00	5,050.00	5,050.00	166.70	87.22	43.62	-4,237.21	3,067.11	4,794.14	4,627.00	167.14	28.683	
19,100.00	7,618.00	5,050.00	5,050.00	168.10	87.22	43.62	-4,237.21	3,067.11	4,862.74	4,694.72	168.02	28.941	
19,200.00	7,618.00	5,050.00	5,050.00	169.52	87.22	43.62	-4,237.21	3,067.11	4,932.42	4,763.54	168.88	29.207	
19,300.00	7,618.00	5,050.00	5,050.00	170.95	87.22	43.62	-4,237.21	3,067.11	5,003.12	4,833.42	169.70	29.482	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	5,050.00	5,050.00	172.39	87.22	43.62	-4,237.21	3,067.11	5,074.81	4,904.32	170.49	29.766	
19,500.00	7,618.00	5,050.00	5,050.00	173.84	87.22	43.62	-4,237.21	3,067.11	5,147.44	4,976.19	171.25	30.057	
19,600.00	7,618.00	5,050.00	5,050.00	175.30	87.22	43.62	-4,237.21	3,067.11	5,220.98	5,048.99	171.99	30.357	
19,700.00	7,618.00	5,050.00	5,050.00	176.76	87.22	43.62	-4,237.21	3,067.11	5,295.38	5,122.69	172.70	30.663	
19,800.00	7,618.00	5,050.00	5,050.00	178.24	87.22	43.62	-4,237.21	3,067.11	5,370.62	5,197.24	173.38	30.976	
19,896.19	7,618.00	5,050.00	5,050.00	179.66	87.22	43.62	-4,237.21	3,067.11	5,443.74	5,269.73	174.01	31.284	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	157.58	-4,237.34	1,748.07	4,583.81				
100.00	100.00	77.00	77.00	0.13	0.63	157.58	-4,237.34	1,748.07	4,583.76	4,582.99	0.77	5,983.529	
200.00	200.00	177.00	177.00	0.49	2.16	157.58	-4,237.34	1,748.07	4,583.76	4,581.10	2.66	1,725.092	
300.00	299.98	276.98	276.98	0.85	3.91	88.29	-4,237.34	1,748.07	4,583.70	4,578.95	4.76	963.655	
400.00	399.84	376.84	376.84	1.21	5.65	88.36	-4,237.34	1,748.07	4,583.55	4,576.69	6.86	668.354	
500.00	499.45	476.45	476.45	1.58	7.39	88.47	-4,237.34	1,748.07	4,583.31	4,574.34	8.97	511.057	
600.00	598.70	575.70	575.70	1.97	9.12	88.63	-4,237.34	1,748.07	4,583.00	4,571.91	11.09	413.228	
700.00	697.47	674.47	674.47	2.38	10.85	88.83	-4,237.34	1,748.07	4,582.65	4,569.42	13.23	346.404	
800.00	795.62	772.62	772.62	2.83	12.56	89.07	-4,237.34	1,748.07	4,582.29	4,566.90	15.39	297.790	
900.00	893.06	870.06	870.06	3.31	14.26	89.35	-4,237.34	1,748.07	4,581.97	4,564.40	17.57	260.788	
1,000.00	989.64	966.64	966.64	3.83	15.95	89.67	-4,237.34	1,748.07	4,581.74	4,561.96	19.78	231.650	
1,095.20	1,080.70	1,057.70	1,057.70	4.38	17.54	90.00	-4,237.34	1,748.07	4,581.66	4,559.75	21.91	209.110	
1,100.00	1,085.27	1,062.27	1,062.27	4.40	17.62	90.02	-4,237.34	1,748.07	4,581.66	4,559.64	22.02	208.093	
1,200.00	1,179.82	1,156.82	1,156.82	5.02	19.27	90.40	-4,237.34	1,748.07	4,581.78	4,557.49	24.29	188.643	
1,300.00	1,273.17	1,250.17	1,250.17	5.70	20.89	90.81	-4,237.34	1,748.07	4,582.19	4,555.60	26.59	172.310	
1,400.00	1,365.21	1,342.21	1,342.21	6.43	22.50	91.24	-4,237.34	1,748.07	4,582.95	4,554.02	28.93	158.400	
1,500.00	1,455.84	1,432.84	1,432.84	7.23	24.08	91.70	-4,237.34	1,748.07	4,584.15	4,552.84	31.31	146.415	
1,600.00	1,544.94	1,521.94	1,521.94	8.09	25.64	92.17	-4,237.34	1,748.07	4,585.87	4,552.15	33.72	135.989	
1,700.00	1,632.39	1,609.39	1,609.39	9.01	27.16	92.65	-4,237.34	1,748.07	4,588.21	4,552.03	36.17	126.842	
1,800.00	1,718.11	1,704.89	1,695.11	10.00	28.83	93.14	-4,237.34	1,748.07	4,591.25	4,552.42	38.83	118.239	
1,900.00	1,801.97	1,778.97	1,778.97	11.07	30.12	93.63	-4,237.34	1,748.07	4,595.08	4,553.90	41.18	111.581	
2,000.00	1,883.88	1,860.88	1,860.88	12.20	31.55	94.12	-4,237.34	1,748.07	4,599.82	4,556.08	43.74	105.167	
2,100.00	1,963.74	1,940.74	1,940.74	13.41	32.95	94.61	-4,237.34	1,748.07	4,605.55	4,559.23	46.33	99.413	
2,200.00	2,041.45	2,018.45	2,018.45	14.69	34.30	95.08	-4,237.34	1,748.07	4,612.38	4,563.44	48.95	94.232	
2,300.00	2,116.92	2,106.08	2,093.92	16.05	35.83	95.53	-4,237.34	1,748.07	4,620.40	4,568.60	51.81	89.187	
2,357.48	2,159.25	2,136.25	2,136.25	16.86	36.36	95.78	-4,237.34	1,748.07	4,625.59	4,572.46	53.12	87.070	
2,400.00	2,190.27	2,167.27	2,167.27	17.47	36.90	96.05	-4,237.34	1,748.07	4,629.68	4,575.41	54.26	85.323	
2,500.00	2,263.22	2,240.22	2,240.22	18.92	38.17	96.66	-4,237.34	1,748.07	4,639.99	4,583.06	56.94	81.493	
2,600.00	2,336.18	2,313.18	2,313.18	20.37	39.45	97.28	-4,237.34	1,748.07	4,651.29	4,591.68	59.62	78.021	
2,700.00	2,409.14	2,386.14	2,386.14	21.84	40.72	97.89	-4,237.34	1,748.07	4,663.57	4,601.28	62.29	74.866	
2,800.00	2,482.09	2,459.09	2,459.09	23.31	41.99	98.50	-4,237.34	1,748.07	4,676.82	4,611.85	64.97	71.989	
2,900.00	2,555.05	2,532.05	2,532.05	24.78	43.27	99.11	-4,237.34	1,748.07	4,691.02	4,623.39	67.63	69.360	
3,000.00	2,628.01	2,605.01	2,605.01	26.27	44.54	99.72	-4,237.34	1,748.07	4,706.18	4,635.88	70.29	66.951	
3,100.00	2,700.96	2,677.96	2,677.96	27.75	45.81	100.32	-4,237.34	1,748.07	4,722.27	4,649.33	72.94	64.738	
3,200.00	2,773.92	2,750.92	2,750.92	29.24	47.09	100.93	-4,237.34	1,748.07	4,739.30	4,663.72	75.59	62.701	
3,300.00	2,846.88	2,823.88	2,823.88	30.73	48.36	101.53	-4,237.34	1,748.07	4,757.26	4,679.04	78.22	60.822	
3,400.00	2,919.83	2,903.17	2,896.83	32.23	49.74	102.12	-4,237.34	1,748.07	4,776.12	4,695.17	80.95	59.004	
3,500.00	2,992.79	2,969.79	2,969.79	33.72	50.91	102.72	-4,237.34	1,748.07	4,795.88	4,712.44	83.44	57.475	
3,600.00	3,065.75	3,042.75	3,042.75	35.22	52.18	103.31	-4,237.34	1,748.07	4,816.54	4,730.50	86.04	55.983	
3,700.00	3,138.71	3,115.71	3,115.71	36.72	53.45	103.90	-4,237.34	1,748.07	4,838.07	4,749.46	88.62	54.596	
3,800.00	3,211.66	3,188.66	3,188.66	38.22	54.73	104.49	-4,237.34	1,748.07	4,860.47	4,769.29	91.18	53.305	
3,900.00	3,284.62	3,261.62	3,261.62	39.72	56.00	105.07	-4,237.34	1,748.07	4,883.73	4,790.00	93.73	52.103	
4,000.00	3,357.58	3,334.58	3,334.58	41.22	57.27	105.65	-4,237.34	1,748.07	4,907.83	4,811.56	96.27	50.981	
4,100.00	3,430.53	3,407.53	3,407.53	42.73	58.55	106.23	-4,237.34	1,748.07	4,932.76	4,833.97	98.79	49.933	
4,200.00	3,503.49	3,480.49	3,480.49	44.23	59.82	106.80	-4,237.34	1,748.07	4,958.51	4,857.21	101.29	48.952	
4,300.00	3,576.45	3,553.45	3,553.45	45.74	61.09	107.37	-4,237.34	1,748.07	4,985.06	4,881.28	103.78	48.034	
4,400.00	3,649.40	3,626.40	3,626.40	47.25	62.37	107.94	-4,237.34	1,748.07	5,012.40	4,906.15	106.25	47.174	
4,500.00	3,722.36	3,700.64	3,699.36	48.75	63.66	108.50	-4,237.34	1,748.07	5,040.53	4,931.80	108.73	46.358	
4,600.00	3,795.32	3,772.32	3,772.32	50.26	64.91	109.06	-4,237.34	1,748.07	5,069.42	4,958.27	111.15	45.610	
4,700.00	3,868.27	3,845.27	3,845.27	51.77	66.19	109.62	-4,237.34	1,748.07	5,099.07	4,985.50	113.57	44.898	
4,800.00	3,941.23	3,918.23	3,918.23	53.28	67.46	110.17	-4,237.34	1,748.07	5,129.45	5,013.48	115.98	44.228	
4,900.00	4,014.19	4,008.81	3,991.19	54.79	69.04	110.71	-4,237.34	1,748.07	5,160.57	5,041.89	118.67	43.486	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,000.00	4,087.15	4,064.15	4,064.15	56.30	70.01	111.26	-4,237.34	1,748.07	5,192.39	5,071.66	120.74	43.006	
5,100.00	4,160.10	4,137.10	4,137.10	57.81	71.28	111.80	-4,237.34	1,748.07	5,224.92	5,101.83	123.09	42.447	
5,200.00	4,233.06	4,210.06	4,210.06	59.32	72.55	112.33	-4,237.34	1,748.07	5,258.14	5,132.71	125.43	41.920	
5,300.00	4,306.02	4,283.02	4,283.02	60.83	73.83	112.87	-4,237.34	1,748.07	5,292.03	5,164.28	127.75	41.423	
5,400.00	4,378.97	4,355.97	4,355.97	62.34	75.10	113.39	-4,237.34	1,748.07	5,326.59	5,196.53	130.06	40.955	
5,500.00	4,451.93	4,428.93	4,428.93	63.85	76.37	113.92	-4,237.34	1,748.07	5,361.79	5,229.44	132.35	40.512	
5,600.00	4,524.89	4,501.89	4,501.89	65.36	77.65	114.44	-4,237.34	1,748.07	5,397.63	5,263.01	134.62	40.094	
5,700.00	4,597.84	4,574.84	4,574.84	66.88	78.92	114.95	-4,237.34	1,748.07	5,434.10	5,297.22	136.88	39.700	
5,800.00	4,670.80	4,647.80	4,647.80	68.39	80.19	115.46	-4,237.34	1,748.07	5,471.18	5,332.06	139.12	39.327	
5,900.00	4,743.76	4,720.76	4,720.76	69.90	81.47	115.97	-4,237.34	1,748.07	5,508.86	5,367.51	141.35	38.974	
6,000.00	4,816.71	4,806.29	4,793.71	71.41	82.96	116.47	-4,237.34	1,748.07	5,547.12	5,403.35	143.78	38.582	
6,100.00	4,889.67	4,866.67	4,866.67	72.93	84.01	116.97	-4,237.34	1,748.07	5,585.96	5,440.21	145.75	38.325	
6,200.00	4,962.63	4,939.63	4,939.63	74.44	85.29	117.46	-4,237.34	1,748.07	5,625.37	5,477.43	147.93	38.027	
6,300.00	5,035.59	5,012.59	5,012.59	75.95	86.56	117.95	-4,237.34	1,748.07	5,665.32	5,515.22	150.10	37.744	
6,400.00	5,108.54	5,085.54	5,085.54	77.47	87.83	118.44	-4,237.34	1,748.07	5,705.82	5,553.57	152.25	37.477	
6,500.00	5,181.50	5,158.50	5,158.50	78.98	89.11	118.92	-4,237.34	1,748.07	5,746.84	5,592.46	154.38	37.224	
6,600.00	5,254.46	5,231.46	5,231.46	80.49	90.38	119.39	-4,237.34	1,748.07	5,788.38	5,631.87	156.51	36.985	
6,700.00	5,327.41	5,304.41	5,304.41	82.01	91.65	119.86	-4,237.34	1,748.07	5,830.43	5,671.81	158.61	36.759	
6,800.00	5,400.37	5,377.37	5,377.37	83.52	92.93	120.33	-4,237.34	1,748.07	5,872.97	5,712.26	160.71	36.544	
6,900.00	5,473.33	5,450.33	5,450.33	85.04	94.20	120.79	-4,237.34	1,748.07	5,916.00	5,753.21	162.79	36.341	
7,000.00	5,546.28	5,450.00	5,450.00	86.55	94.20	120.79	-4,237.34	1,748.07	5,959.95	5,796.45	163.50	36.453	
7,100.00	5,619.24	5,450.00	5,450.00	88.06	94.20	120.79	-4,237.34	1,748.07	6,005.25	5,841.08	164.17	36.580	
7,200.00	5,692.20	5,450.00	5,450.00	89.58	94.20	120.79	-4,237.34	1,748.07	6,051.86	5,887.05	164.81	36.721	
7,300.00	5,765.15	5,450.00	5,450.00	91.09	94.20	120.79	-4,237.34	1,748.07	6,099.75	5,934.34	165.41	36.878	
7,400.00	5,838.11	5,450.00	5,450.00	92.61	94.20	120.79	-4,237.34	1,748.07	6,148.89	5,982.92	165.97	37.048	
7,500.00	5,911.07	5,450.00	5,450.00	94.12	94.20	120.79	-4,237.34	1,748.07	6,199.26	6,032.76	166.50	37.233	
7,600.00	5,984.03	5,450.00	5,450.00	95.64	94.20	120.79	-4,237.34	1,748.07	6,250.83	6,083.83	167.00	37.430	
7,700.00	6,056.98	5,450.00	5,450.00	97.15	94.20	120.79	-4,237.34	1,748.07	6,303.56	6,136.09	167.46	37.641	
7,800.00	6,129.94	5,450.00	5,450.00	98.67	94.20	120.79	-4,237.34	1,748.07	6,357.42	6,189.52	167.90	37.864	
7,900.00	6,202.90	5,450.00	5,450.00	100.18	94.20	120.79	-4,237.34	1,748.07	6,412.39	6,244.08	168.31	38.099	
8,000.00	6,275.85	5,450.00	5,450.00	101.70	94.20	120.79	-4,237.34	1,748.07	6,468.44	6,299.76	168.69	38.346	
8,100.00	6,348.81	5,450.00	5,450.00	103.21	94.20	120.79	-4,237.34	1,748.07	6,525.54	6,356.50	169.04	38.604	
8,200.00	6,421.77	5,450.00	5,450.00	104.73	94.20	120.79	-4,237.34	1,748.07	6,583.67	6,414.30	169.36	38.873	
8,300.00	6,494.72	5,450.00	5,450.00	106.24	94.20	120.79	-4,237.34	1,748.07	6,642.79	6,473.12	169.67	39.152	
8,400.00	6,567.68	5,450.00	5,450.00	107.76	94.20	120.79	-4,237.34	1,748.07	6,702.88	6,532.94	169.94	39.442	
8,500.00	6,640.64	5,450.00	5,450.00	109.27	94.20	120.79	-4,237.34	1,748.07	6,763.92	6,593.72	170.20	39.741	
8,600.00	6,713.59	5,450.00	5,450.00	110.79	94.20	120.79	-4,237.34	1,748.07	6,825.88	6,655.44	170.43	40.050	
8,700.00	6,786.55	5,450.00	5,450.00	112.30	94.20	120.79	-4,237.34	1,748.07	6,888.73	6,718.08	170.65	40.368	
8,800.00	6,859.51	5,450.00	5,450.00	113.82	94.20	120.79	-4,237.34	1,748.07	6,952.45	6,781.60	170.84	40.695	
8,900.00	6,932.46	5,450.00	5,450.00	115.33	94.20	120.79	-4,237.34	1,748.07	7,017.01	6,845.99	171.02	41.030	
9,000.00	7,005.42	5,450.00	5,450.00	116.85	94.20	120.79	-4,237.34	1,748.07	7,082.41	6,911.23	171.18	41.374	
9,104.89	7,081.95	5,450.00	5,450.00	118.44	94.20	120.79	-4,237.34	1,748.07	7,151.86	6,980.53	171.33	41.743	
9,150.00	7,115.15	5,450.00	5,450.00	119.12	94.20	115.06	-4,237.34	1,748.07	7,180.68	7,009.29	171.39	41.896	
9,200.00	7,152.46	5,450.00	5,450.00	119.86	94.20	108.66	-4,237.34	1,748.07	7,209.66	7,038.18	171.48	42.045	
9,250.00	7,190.04	5,450.00	5,450.00	120.57	94.20	102.29	-4,237.34	1,748.07	7,235.33	7,063.76	171.56	42.173	
9,300.00	7,227.59	5,450.00	5,450.00	121.25	94.20	96.08	-4,237.34	1,748.07	7,257.53	7,085.87	171.66	42.279	
9,350.00	7,264.83	5,450.00	5,450.00	121.89	94.20	90.15	-4,237.34	1,748.07	7,276.12	7,104.37	171.75	42.365	
9,400.00	7,301.48	5,450.00	5,450.00	122.48	94.20	84.62	-4,237.34	1,748.07	7,291.00	7,119.17	171.84	42.430	
9,450.00	7,337.26	5,450.00	5,450.00	123.01	94.20	79.56	-4,237.34	1,748.07	7,302.07	7,130.16	171.91	42.476	
9,500.00	7,371.90	5,450.00	5,450.00	123.49	94.20	75.03	-4,237.34	1,748.07	7,309.27	7,137.30	171.97	42.503	
9,550.00	7,405.13	5,450.00	5,450.00	123.91	94.20	71.04	-4,237.34	1,748.07	7,312.55	7,140.54	172.01	42.512	
9,600.00	7,436.70	5,450.00	5,450.00	124.27	94.20	67.59	-4,237.34	1,748.07	7,311.90	7,139.86	172.03	42.503	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	5,450.00	5,450.00	124.57	94.20	64.66	-4,237.34	1,748.07	7,307.31	7,135.28	172.03	42.477	
9,700.00	7,493.91	5,450.00	5,450.00	124.81	94.20	62.22	-4,237.34	1,748.07	7,298.81	7,126.81	172.00	42.434	
9,750.00	7,519.11	5,450.00	5,450.00	125.00	94.20	60.24	-4,237.34	1,748.07	7,286.46	7,114.51	171.95	42.375	
9,800.00	7,541.79	5,450.00	5,450.00	125.12	94.20	58.71	-4,237.34	1,748.07	7,270.33	7,098.45	171.88	42.300	
9,850.00	7,561.77	5,450.00	5,450.00	125.20	94.20	57.59	-4,237.34	1,748.07	7,250.52	7,078.74	171.78	42.208	
9,900.00	7,578.90	5,450.00	5,450.00	125.23	94.20	56.89	-4,237.34	1,748.07	7,227.14	7,055.48	171.66	42.101	
9,950.00	7,593.04	5,450.00	5,450.00	125.22	94.20	56.61	-4,237.34	1,748.07	7,200.35	7,028.83	171.53	41.978	
10,000.00	7,604.09	5,450.00	5,450.00	125.17	94.20	56.76	-4,237.34	1,748.07	7,170.31	6,998.93	171.38	41.838	
10,050.00	7,611.97	5,450.00	5,450.00	125.08	94.20	57.39	-4,237.34	1,748.07	7,137.21	6,965.99	171.23	41.683	
10,100.00	7,616.61	5,450.00	5,450.00	124.97	94.20	58.55	-4,237.34	1,748.07	7,101.26	6,930.20	171.07	41.512	
10,145.95	7,618.00	5,450.00	5,450.00	124.84	94.20	60.18	-4,237.34	1,748.07	7,065.91	6,894.99	170.92	41.340	
10,200.00	7,618.00	5,450.00	5,450.00	124.69	94.20	60.18	-4,237.34	1,748.07	7,023.18	6,852.43	170.75	41.132	
10,300.00	7,618.00	5,450.00	5,450.00	124.41	94.20	60.18	-4,237.34	1,748.07	6,944.54	6,774.12	170.42	40.748	
10,400.00	7,618.00	5,450.00	5,450.00	124.14	94.20	60.18	-4,237.34	1,748.07	6,866.45	6,696.36	170.09	40.368	
10,500.00	7,618.00	5,450.00	5,450.00	123.88	94.20	60.18	-4,237.34	1,748.07	6,788.94	6,619.18	169.76	39.992	
10,600.00	7,618.00	5,450.00	5,450.00	123.63	94.20	60.18	-4,237.34	1,748.07	6,712.03	6,542.61	169.42	39.618	
10,700.00	7,618.00	5,450.00	5,450.00	123.40	94.20	60.18	-4,237.34	1,748.07	6,635.73	6,466.65	169.07	39.248	
10,800.00	7,618.00	5,450.00	5,450.00	123.18	94.20	60.18	-4,237.34	1,748.07	6,560.06	6,391.34	168.72	38.882	
10,900.00	7,618.00	5,450.00	5,450.00	122.96	94.20	60.18	-4,237.34	1,748.07	6,485.06	6,316.69	168.36	38.519	
11,000.00	7,618.00	5,450.00	5,450.00	122.76	94.20	60.18	-4,237.34	1,748.07	6,410.73	6,242.74	168.00	38.159	
11,100.00	7,618.00	5,450.00	5,450.00	122.57	94.20	60.18	-4,237.34	1,748.07	6,337.12	6,169.49	167.63	37.804	
11,200.00	7,618.00	5,450.00	5,450.00	122.39	94.20	60.18	-4,237.34	1,748.07	6,264.23	6,096.98	167.26	37.453	
11,300.00	7,618.00	5,450.00	5,450.00	122.23	94.20	60.18	-4,237.34	1,748.07	6,192.11	6,025.23	166.88	37.105	
11,400.00	7,618.00	5,450.00	5,450.00	122.07	94.20	60.18	-4,237.34	1,748.07	6,120.76	5,954.26	166.50	36.762	
11,500.00	7,618.00	5,450.00	5,450.00	121.93	94.20	60.18	-4,237.34	1,748.07	6,050.23	5,884.12	166.11	36.423	
11,600.00	7,618.00	5,450.00	5,450.00	121.79	94.20	60.18	-4,237.34	1,748.07	5,980.54	5,814.82	165.72	36.088	
11,700.00	7,618.00	5,450.00	5,450.00	121.67	94.20	60.18	-4,237.34	1,748.07	5,911.72	5,746.39	165.33	35.757	
11,800.00	7,618.00	5,450.00	5,450.00	121.56	94.20	60.18	-4,237.34	1,748.07	5,843.79	5,678.86	164.93	35.431	
11,900.00	7,618.00	5,450.00	5,450.00	121.46	94.20	60.18	-4,237.34	1,748.07	5,776.81	5,612.27	164.54	35.110	
12,000.00	7,618.00	5,450.00	5,450.00	121.38	94.20	60.18	-4,237.34	1,748.07	5,710.78	5,546.65	164.14	34.793	
12,100.00	7,618.00	5,450.00	5,450.00	121.30	94.20	60.18	-4,237.34	1,748.07	5,645.76	5,482.02	163.74	34.481	
12,200.00	7,618.00	5,450.00	5,450.00	121.24	94.20	60.18	-4,237.34	1,748.07	5,581.77	5,418.43	163.34	34.174	
12,300.00	7,618.00	5,450.00	5,450.00	121.19	94.20	60.18	-4,237.34	1,748.07	5,518.85	5,355.91	162.94	33.871	
12,400.00	7,618.00	5,450.00	5,450.00	121.16	94.20	60.18	-4,237.34	1,748.07	5,457.04	5,294.50	162.54	33.574	
12,500.00	7,618.00	5,450.00	5,450.00	121.14	94.20	60.18	-4,237.34	1,748.07	5,396.37	5,234.23	162.14	33.282	
12,600.00	7,618.00	5,450.00	5,450.00	121.13	94.20	60.18	-4,237.34	1,748.07	5,336.89	5,175.14	161.75	32.994	
12,700.00	7,618.00	5,450.00	5,450.00	121.13	94.20	60.18	-4,237.34	1,748.07	5,278.63	5,117.26	161.36	32.712	
12,800.00	7,618.00	5,450.00	5,450.00	121.15	94.20	60.18	-4,237.34	1,748.07	5,221.63	5,060.65	160.99	32.436	
12,900.00	7,618.00	5,450.00	5,450.00	121.18	94.20	60.18	-4,237.34	1,748.07	5,165.95	5,005.34	160.61	32.164	
13,000.00	7,618.00	5,450.00	5,450.00	121.23	94.20	60.18	-4,237.34	1,748.07	5,111.61	4,951.36	160.25	31.898	
13,100.00	7,618.00	5,450.00	5,450.00	121.29	94.20	60.18	-4,237.34	1,748.07	5,058.67	4,898.77	159.90	31.637	
13,200.00	7,618.00	5,450.00	5,450.00	121.37	94.20	60.18	-4,237.34	1,748.07	5,007.16	4,847.60	159.56	31.381	
13,300.00	7,618.00	5,450.00	5,450.00	121.46	94.20	60.18	-4,237.34	1,748.07	4,957.14	4,797.91	159.23	31.131	
13,400.00	7,618.00	5,450.00	5,450.00	121.57	94.20	60.18	-4,237.34	1,748.07	4,908.64	4,749.72	158.92	30.887	
13,500.00	7,618.00	5,450.00	5,450.00	121.70	94.20	60.18	-4,237.34	1,748.07	4,861.72	4,703.09	158.63	30.648	
13,600.00	7,618.00	5,450.00	5,450.00	121.84	94.20	60.18	-4,237.34	1,748.07	4,816.42	4,658.06	158.36	30.414	
13,700.00	7,618.00	5,450.00	5,450.00	122.01	94.20	60.18	-4,237.34	1,748.07	4,772.78	4,614.67	158.11	30.186	
13,800.00	7,618.00	5,450.00	5,450.00	122.19	94.20	60.18	-4,237.34	1,748.07	4,730.86	4,572.97	157.88	29.964	
13,900.00	7,618.00	5,450.00	5,450.00	122.39	94.20	60.18	-4,237.34	1,748.07	4,690.69	4,533.00	157.68	29.748	
14,000.00	7,618.00	5,450.00	5,450.00	122.62	94.20	60.18	-4,237.34	1,748.07	4,652.32	4,494.81	157.51	29.537	
14,100.00	7,618.00	5,450.00	5,450.00	122.86	94.20	60.18	-4,237.34	1,748.07	4,615.81	4,458.44	157.37	29.331	
14,200.00	7,618.00	5,450.00	5,450.00	123.12	94.20	60.18	-4,237.34	1,748.07	4,581.18	4,423.92	157.26	29.132	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	5,450.00	5,450.00	123.41	94.20	60.18	-4,237.34	1,748.07	4,548.49	4,391.31	157.18	28.938	
14,400.00	7,618.00	5,450.00	5,450.00	123.72	94.20	60.18	-4,237.34	1,748.07	4,517.78	4,360.64	157.13	28.751	
14,500.00	7,618.00	5,450.00	5,450.00	124.06	94.20	60.18	-4,237.34	1,748.07	4,489.08	4,331.96	157.13	28.570	
14,600.00	7,618.00	5,450.00	5,450.00	124.42	94.20	60.18	-4,237.34	1,748.07	4,462.45	4,305.29	157.16	28.394	
14,700.00	7,618.00	5,450.00	5,450.00	124.80	94.20	60.18	-4,237.34	1,748.07	4,437.90	4,280.67	157.23	28.226	
14,800.00	7,618.00	5,450.00	5,450.00	125.21	94.20	60.18	-4,237.34	1,748.07	4,415.49	4,258.15	157.34	28.063	
14,900.00	7,618.00	5,450.00	5,450.00	125.65	94.20	60.18	-4,237.34	1,748.07	4,395.23	4,237.74	157.49	27.908	
15,000.00	7,618.00	5,450.00	5,450.00	126.11	94.20	60.18	-4,237.34	1,748.07	4,377.17	4,219.49	157.68	27.760	
15,100.00	7,618.00	5,450.00	5,450.00	126.61	94.20	60.18	-4,237.34	1,748.07	4,361.33	4,203.41	157.91	27.618	
15,200.00	7,618.00	5,450.00	5,450.00	127.13	94.20	60.18	-4,237.34	1,748.07	4,347.73	4,189.54	158.19	27.484	
15,300.00	7,618.00	5,450.00	5,450.00	127.68	94.20	60.18	-4,237.34	1,748.07	4,336.39	4,177.89	158.50	27.358	
15,400.00	7,618.00	5,450.00	5,450.00	128.26	94.20	60.18	-4,237.34	1,748.07	4,327.34	4,168.48	158.86	27.240	
15,500.00	7,618.00	5,450.00	5,450.00	128.87	94.20	60.18	-4,237.34	1,748.07	4,320.58	4,161.33	159.25	27.130	
15,600.00	7,618.00	5,450.00	5,450.00	129.51	94.20	60.18	-4,237.34	1,748.07	4,316.13	4,156.44	159.68	27.029	
15,700.00	7,618.00	5,450.00	5,450.00	130.18	94.20	60.18	-4,237.34	1,748.07	4,313.99	4,153.84	160.15	26.937	
15,742.23	7,618.00	5,450.00	5,450.00	130.47	94.20	60.18	-4,237.34	1,748.07	4,313.78	4,153.42	160.36	26.900	CC, ES
15,800.00	7,618.00	5,450.00	5,450.00	130.88	94.20	60.18	-4,237.34	1,748.07	4,314.17	4,153.52	160.65	26.854	
15,900.00	7,618.00	5,450.00	5,450.00	131.61	94.20	60.18	-4,237.34	1,748.07	4,316.67	4,155.48	161.19	26.780	
16,000.00	7,618.00	5,450.00	5,450.00	132.37	94.20	60.18	-4,237.34	1,748.07	4,321.48	4,159.72	161.76	26.716	
16,100.00	7,618.00	5,450.00	5,450.00	133.17	94.20	60.18	-4,237.34	1,748.07	4,328.59	4,166.24	162.35	26.662	
16,200.00	7,618.00	5,450.00	5,450.00	133.99	94.20	60.18	-4,237.34	1,748.07	4,338.00	4,175.03	162.97	26.619	
16,300.00	7,618.00	5,450.00	5,450.00	134.84	94.20	60.18	-4,237.34	1,748.07	4,349.69	4,186.08	163.61	26.586	
16,400.00	7,618.00	5,450.00	5,450.00	135.72	94.20	60.18	-4,237.34	1,748.07	4,363.64	4,199.37	164.27	26.563	
16,500.00	7,618.00	5,450.00	5,450.00	136.63	94.20	60.18	-4,237.34	1,748.07	4,379.83	4,214.88	164.95	26.552	
16,600.00	7,618.00	5,450.00	5,450.00	137.57	94.20	60.18	-4,237.34	1,748.07	4,398.24	4,232.59	165.65	26.551	SF
16,700.00	7,618.00	5,450.00	5,450.00	138.54	94.20	60.18	-4,237.34	1,748.07	4,418.83	4,252.47	166.36	26.562	
16,800.00	7,618.00	5,450.00	5,450.00	139.53	94.20	60.18	-4,237.34	1,748.07	4,441.58	4,274.50	167.08	26.584	
16,900.00	7,618.00	5,450.00	5,450.00	140.55	94.20	60.18	-4,237.34	1,748.07	4,466.45	4,298.64	167.80	26.617	
17,000.00	7,618.00	5,450.00	5,450.00	141.60	94.20	60.18	-4,237.34	1,748.07	4,493.41	4,324.87	168.53	26.662	
17,100.00	7,618.00	5,450.00	5,450.00	142.67	94.20	60.18	-4,237.34	1,748.07	4,522.42	4,353.15	169.27	26.718	
17,200.00	7,618.00	5,450.00	5,450.00	143.77	94.20	60.18	-4,237.34	1,748.07	4,553.44	4,383.44	170.00	26.785	
17,300.00	7,618.00	5,450.00	5,450.00	144.88	94.20	60.18	-4,237.34	1,748.07	4,586.43	4,415.70	170.73	26.864	
17,400.00	7,618.00	5,450.00	5,450.00	146.02	94.20	60.18	-4,237.34	1,748.07	4,621.35	4,449.90	171.46	26.953	
17,500.00	7,618.00	5,450.00	5,450.00	147.19	94.20	60.18	-4,237.34	1,748.07	4,658.16	4,485.98	172.18	27.054	
17,600.00	7,618.00	5,450.00	5,450.00	148.37	94.20	60.18	-4,237.34	1,748.07	4,696.81	4,523.91	172.89	27.166	
17,700.00	7,618.00	5,450.00	5,450.00	149.57	94.20	60.18	-4,237.34	1,748.07	4,737.25	4,563.65	173.60	27.288	
17,800.00	7,618.00	5,450.00	5,450.00	150.79	94.20	60.18	-4,237.34	1,748.07	4,779.45	4,605.15	174.30	27.421	
17,900.00	7,618.00	5,450.00	5,450.00	152.03	94.20	60.18	-4,237.34	1,748.07	4,823.35	4,648.37	174.98	27.565	
18,000.00	7,618.00	5,450.00	5,450.00	153.29	94.20	60.18	-4,237.34	1,748.07	4,868.90	4,693.25	175.65	27.719	
18,100.00	7,618.00	5,450.00	5,450.00	154.57	94.20	60.18	-4,237.34	1,748.07	4,916.07	4,739.76	176.31	27.883	
18,200.00	7,618.00	5,450.00	5,450.00	155.86	94.20	60.18	-4,237.34	1,748.07	4,964.81	4,787.85	176.96	28.057	
18,300.00	7,618.00	5,450.00	5,450.00	157.17	94.20	60.18	-4,237.34	1,748.07	5,015.07	4,837.48	177.59	28.240	
18,400.00	7,618.00	5,450.00	5,450.00	158.49	94.20	60.18	-4,237.34	1,748.07	5,066.80	4,888.59	178.20	28.433	
18,500.00	7,618.00	5,450.00	5,450.00	159.82	94.20	60.18	-4,237.34	1,748.07	5,119.96	4,941.16	178.80	28.635	
18,600.00	7,618.00	5,450.00	5,450.00	161.17	94.20	60.18	-4,237.34	1,748.07	5,174.51	4,995.12	179.39	28.845	
18,700.00	7,618.00	5,450.00	5,450.00	162.54	94.20	60.18	-4,237.34	1,748.07	5,230.40	5,050.45	179.96	29.065	
18,800.00	7,618.00	5,450.00	5,450.00	163.91	94.20	60.18	-4,237.34	1,748.07	5,287.59	5,107.09	180.51	29.293	
18,900.00	7,618.00	5,450.00	5,450.00	165.30	94.20	60.18	-4,237.34	1,748.07	5,346.05	5,165.00	181.04	29.529	
19,000.00	7,618.00	5,450.00	5,450.00	166.70	94.20	60.18	-4,237.34	1,748.07	5,405.72	5,224.15	181.57	29.773	
19,100.00	7,618.00	5,450.00	5,450.00	168.10	94.20	60.18	-4,237.34	1,748.07	5,466.56	5,284.49	182.07	30.025	
19,200.00	7,618.00	5,450.00	5,450.00	169.52	94.20	60.18	-4,237.34	1,748.07	5,528.55	5,345.99	182.56	30.284	
19,300.00	7,618.00	5,450.00	5,450.00	170.95	94.20	60.18	-4,237.34	1,748.07	5,591.64	5,408.61	183.03	30.550	

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

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			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
19,400.00	7,618.00	5,450.00	5,450.00	172.39	94.20	60.18	-4,237.34	1,748.07	5,655.79	5,472.30	183.49	30.824	
19,500.00	7,618.00	5,450.00	5,450.00	173.84	94.20	60.18	-4,237.34	1,748.07	5,720.97	5,537.04	183.93	31.104	
19,600.00	7,618.00	5,450.00	5,450.00	175.30	94.20	60.18	-4,237.34	1,748.07	5,787.15	5,602.79	184.36	31.391	
19,700.00	7,618.00	5,450.00	5,450.00	176.76	94.20	60.18	-4,237.34	1,748.07	5,854.28	5,669.51	184.77	31.684	
19,800.00	7,618.00	5,450.00	5,450.00	178.24	94.20	60.18	-4,237.34	1,748.07	5,922.35	5,737.17	185.17	31.983	
19,896.19	7,618.00	5,450.00	5,450.00	179.66	94.20	60.18	-4,237.34	1,748.07	5,988.66	5,803.12	185.54	32.276	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	155.57	-4,568.82	2,075.76	5,018.26				
100.00	100.00	72.63	72.63	0.13	0.12	155.57	-4,569.04	2,075.64	5,018.45	5,018.20	0.25	N/A	
200.00	200.00	168.11	168.11	0.49	0.40	155.58	-4,569.81	2,075.19	5,018.99	5,018.09	0.90	5,593.093	
300.00	299.98	287.99	287.98	0.85	0.83	86.29	-4,570.50	2,074.69	5,019.24	5,017.56	1.68	2,985.334	
400.00	399.84	382.82	382.81	1.21	1.17	86.35	-4,570.70	2,074.57	5,019.04	5,016.66	2.38	2,110.976	
500.00	499.45	484.41	484.41	1.58	1.53	86.46	-4,570.94	2,074.58	5,018.71	5,015.60	3.11	1,613.157	
600.00	598.70	612.20	612.19	1.97	1.99	86.66	-4,571.18	2,073.94	5,017.96	5,014.00	3.95	1,269.199	
700.00	697.47	777.58	777.55	2.38	2.56	87.01	-4,569.82	2,071.98	5,015.72	5,010.78	4.94	1,015.515	
800.00	795.62	871.17	871.13	2.83	2.88	87.27	-4,568.53	2,070.92	5,013.00	5,007.29	5.71	878.417	
900.00	893.06	968.50	968.44	3.31	3.22	87.58	-4,567.25	2,069.98	5,010.33	5,003.80	6.53	767.782	
1,000.00	989.64	1,097.33	1,097.25	3.83	3.67	88.03	-4,565.15	2,068.71	5,007.37	4,999.87	7.50	667.892	
1,100.00	1,085.27	1,170.76	1,170.67	4.40	3.93	88.34	-4,563.84	2,067.91	5,004.25	4,995.92	8.32	601.136	
1,200.00	1,179.82	1,255.22	1,255.11	5.02	4.22	88.71	-4,562.65	2,067.11	5,001.59	4,992.34	9.24	541.176	
1,300.00	1,273.17	1,340.63	1,340.51	5.70	4.52	89.11	-4,561.46	2,066.46	4,999.17	4,988.95	10.22	489.207	
1,400.00	1,365.21	1,417.62	1,417.49	6.43	4.80	89.50	-4,560.65	2,065.73	4,997.22	4,985.99	11.23	445.159	
1,500.00	1,455.84	1,491.84	1,491.70	7.23	5.06	89.89	-4,560.12	2,065.05	4,995.86	4,983.58	12.29	406.645	
1,600.00	1,544.94	1,573.58	1,573.44	8.09	5.35	90.33	-4,559.71	2,064.40	4,995.12	4,981.68	13.44	371.746	
1,700.00	1,632.39	1,664.08	1,663.94	9.01	5.68	90.85	-4,559.31	2,063.67	4,994.89	4,980.20	14.69	340.107	
1,703.44	1,635.37	1,667.31	1,667.17	9.05	5.69	90.87	-4,559.30	2,063.64	4,994.89	4,980.16	14.73	339.052	
1,800.00	1,718.11	1,741.71	1,741.57	10.00	5.95	91.30	-4,558.96	2,062.95	4,995.19	4,979.23	15.96	313.025	
1,900.00	1,801.97	1,810.26	1,810.11	11.07	6.20	91.71	-4,558.86	2,062.38	4,996.40	4,979.13	17.27	289.377	
2,000.00	1,883.88	1,891.18	1,891.03	12.20	6.49	92.21	-4,558.89	2,061.57	4,998.46	4,979.77	18.69	267.463	
2,100.00	1,963.74	1,970.39	1,970.23	13.41	6.77	92.71	-4,558.97	2,060.65	5,001.38	4,981.20	20.18	247.899	
2,200.00	2,041.45	2,058.30	2,058.14	14.69	7.08	93.27	-4,559.00	2,059.62	5,005.18	4,983.42	21.76	229.983	
2,300.00	2,116.92	2,140.28	2,140.11	16.05	7.38	93.80	-4,558.86	2,058.46	5,009.83	4,986.43	23.40	214.099	
2,357.48	2,159.25	2,181.85	2,181.68	16.86	7.53	94.07	-4,558.76	2,057.93	5,013.00	4,988.65	24.35	205.874	
2,400.00	2,190.27	2,213.63	2,213.46	17.47	7.64	94.32	-4,558.67	2,057.56	5,015.58	4,990.51	25.07	200.101	
2,500.00	2,263.22	2,292.50	2,292.31	18.92	7.92	94.94	-4,558.42	2,056.54	5,022.24	4,995.47	26.77	187.607	
2,600.00	2,336.18	2,362.05	2,361.85	20.37	8.17	95.49	-4,558.18	2,055.56	5,029.82	5,001.37	28.45	176.825	
2,700.00	2,409.14	2,437.84	2,437.64	21.84	8.44	96.08	-4,557.93	2,054.57	5,038.36	5,008.22	30.14	167.146	
2,800.00	2,482.09	2,520.86	2,520.65	23.31	8.74	96.74	-4,557.45	2,053.68	5,047.70	5,015.83	31.87	158.401	
2,900.00	2,555.05	2,598.37	2,598.16	24.78	9.02	97.34	-4,556.88	2,052.89	5,057.85	5,024.29	33.57	150.682	
3,000.00	2,628.01	2,695.84	2,695.62	26.27	9.37	98.10	-4,555.91	2,051.68	5,068.71	5,033.38	35.33	143.455	
3,100.00	2,700.96	2,757.85	2,757.62	27.75	9.59	98.58	-4,555.21	2,050.76	5,080.37	5,043.40	36.97	137.432	
3,200.00	2,773.92	2,819.53	2,819.29	29.24	9.81	99.07	-4,554.68	2,049.77	5,093.11	5,054.51	38.59	131.976	
3,300.00	2,846.88	2,884.10	2,883.84	30.73	10.04	99.57	-4,554.27	2,048.48	5,106.87	5,066.65	40.22	126.981	
3,400.00	2,919.83	2,949.84	2,949.56	32.23	10.28	100.08	-4,553.97	2,046.94	5,121.64	5,079.80	41.84	122.414	
3,500.00	2,992.79	3,015.40	3,015.11	33.72	10.51	100.59	-4,553.74	2,045.41	5,137.39	5,093.95	43.45	118.241	
3,600.00	3,065.75	3,078.81	3,078.50	35.22	10.74	101.09	-4,553.60	2,043.99	5,154.15	5,109.11	45.04	114.437	
3,700.00	3,138.71	3,157.88	3,157.55	36.72	11.02	101.70	-4,553.47	2,042.25	5,171.84	5,125.16	46.68	110.802	
3,800.00	3,211.66	3,234.97	3,234.62	38.22	11.30	102.29	-4,553.18	2,040.48	5,190.24	5,141.95	48.29	107.473	
3,900.00	3,284.62	3,303.18	3,302.81	39.72	11.55	102.82	-4,552.93	2,039.11	5,209.54	5,159.67	49.87	104.473	
4,000.00	3,357.58	3,369.61	3,369.23	41.22	11.79	103.32	-4,552.74	2,037.80	5,229.75	5,178.33	51.42	101.714	
4,100.00	3,430.53	3,433.83	3,433.44	42.73	12.02	103.81	-4,552.63	2,036.42	5,250.89	5,197.94	52.94	99.177	
4,200.00	3,503.49	3,496.40	3,495.99	44.23	12.24	104.29	-4,552.62	2,035.15	5,272.99	5,218.53	54.45	96.837	
4,300.00	3,576.45	3,573.79	3,573.37	45.74	12.52	104.87	-4,552.65	2,033.69	5,295.94	5,239.94	56.00	94.567	
4,400.00	3,649.40	3,643.34	3,642.90	47.25	12.77	105.39	-4,552.62	2,032.45	5,319.65	5,262.15	57.51	92.505	
4,500.00	3,722.36	3,710.41	3,709.96	48.75	13.01	105.89	-4,552.67	2,031.16	5,344.25	5,285.26	58.99	90.602	
4,600.00	3,795.32	3,792.65	3,792.18	50.26	13.30	106.50	-4,552.66	2,029.52	5,369.59	5,309.08	60.51	88.740	
4,700.00	3,868.27	3,863.40	3,862.93	51.77	13.56	107.02	-4,552.59	2,028.15	5,395.64	5,333.67	61.97	87.065	
4,800.00	3,941.23	3,932.04	3,931.55	53.28	13.81	107.53	-4,552.55	2,026.89	5,422.49	5,359.08	63.41	85.513	
4,900.00	4,014.19	3,999.51	3,999.01	54.79	14.05	108.02	-4,552.57	2,025.70	5,450.15	5,385.32	64.83	84.069	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,087.15	4,100.34	4,099.83	56.30	14.41	108.75	-4,552.38	2,024.03	5,478.39	5,412.02	66.36	82.550	
5,100.00	4,160.10	4,202.63	4,202.11	57.81	14.78	109.48	-4,551.66	2,022.82	5,506.97	5,439.08	67.89	81.119	
5,200.00	4,233.06	4,300.50	4,299.97	59.32	15.12	110.16	-4,550.54	2,022.31	5,535.90	5,466.53	69.38	79.797	
5,300.00	4,306.02	4,360.03	4,359.49	60.83	15.33	110.58	-4,549.82	2,022.21	5,565.44	5,494.75	70.70	78.722	
5,400.00	4,378.97	4,420.32	4,419.78	62.34	15.54	110.99	-4,549.24	2,022.17	5,595.83	5,523.83	72.01	77.713	
5,500.00	4,451.93	4,481.54	4,481.00	63.85	15.75	111.42	-4,548.78	2,022.09	5,627.05	5,553.74	73.30	76.764	
5,600.00	4,524.89	4,546.79	4,546.25	65.36	15.98	111.86	-4,548.40	2,021.87	5,659.05	5,584.45	74.60	75.856	
5,700.00	4,597.84	4,619.03	4,618.49	66.88	16.24	112.36	-4,548.00	2,021.35	5,691.77	5,615.85	75.91	74.977	
5,800.00	4,670.80	4,715.49	4,714.93	68.39	16.59	113.02	-4,547.16	2,020.03	5,724.96	5,647.66	77.31	74.056	
5,900.00	4,743.76	4,822.04	4,821.46	69.90	16.97	113.74	-4,545.54	2,018.15	5,758.38	5,679.66	78.72	73.152	
6,000.00	4,816.71	4,903.62	4,903.00	71.41	17.26	114.29	-4,544.02	2,016.67	5,792.20	5,712.18	80.02	72.388	
6,100.00	4,889.67	4,971.28	4,970.65	72.93	17.50	114.75	-4,542.73	2,015.45	5,826.61	5,745.37	81.24	71.718	
6,200.00	4,962.63	5,033.60	5,032.94	74.44	17.72	115.16	-4,541.60	2,014.32	5,861.71	5,779.28	82.43	71.108	
6,300.00	5,035.59	5,091.44	5,090.77	75.95	17.93	115.55	-4,540.68	2,013.21	5,897.58	5,813.99	83.59	70.553	
6,400.00	5,108.54	5,151.63	5,150.93	77.47	18.15	115.94	-4,539.84	2,011.97	5,934.20	5,849.46	84.74	70.028	
6,500.00	5,181.50	5,214.63	5,213.92	78.98	18.37	116.36	-4,539.06	2,010.58	5,971.54	5,885.65	85.89	69.529	
6,600.00	5,254.46	5,288.12	5,287.38	80.49	18.64	116.84	-4,538.19	2,008.97	6,009.48	5,922.42	87.06	69.028	
6,700.00	5,327.41	5,372.10	5,371.33	82.01	18.94	117.38	-4,537.10	2,007.13	6,047.92	5,959.66	88.26	68.523	
6,800.00	5,400.37	5,448.35	5,447.56	83.52	19.21	117.87	-4,535.96	2,005.40	6,086.78	5,997.36	89.42	68.073	
6,900.00	5,473.33	5,519.48	5,518.66	85.04	19.47	118.32	-4,534.88	2,003.74	6,126.18	6,035.64	90.53	67.667	
7,000.00	5,546.28	5,589.98	5,589.14	86.55	19.72	118.76	-4,533.89	2,002.33	6,166.12	6,074.48	91.64	67.288	
7,100.00	5,619.24	5,659.33	5,658.48	88.06	19.97	119.20	-4,533.00	2,001.17	6,206.61	6,113.88	92.72	66.936	
7,200.00	5,692.20	5,724.83	5,723.96	89.58	20.21	119.60	-4,532.22	2,000.11	6,247.64	6,153.86	93.78	66.619	
7,300.00	5,765.15	5,785.35	5,784.47	91.09	20.42	119.97	-4,531.66	1,999.33	6,289.29	6,194.48	94.80	66.340	
7,400.00	5,838.11	5,858.76	5,857.88	92.61	20.69	120.41	-4,531.12	1,998.56	6,331.49	6,235.62	95.87	66.042	
7,500.00	5,911.07	5,960.52	5,959.63	94.12	21.05	121.02	-4,530.11	1,997.32	6,374.04	6,276.99	97.05	65.679	
7,600.00	5,984.03	6,117.49	6,116.55	95.64	21.61	121.94	-4,526.85	1,995.60	6,416.17	6,317.73	98.44	65.179	
7,700.00	6,056.98	6,158.04	6,157.08	97.15	21.75	122.18	-4,525.86	1,995.10	6,458.62	6,359.29	99.33	65.023	
7,800.00	6,129.94	6,200.00	6,199.03	98.67	21.90	122.43	-4,524.94	1,994.23	6,501.88	6,401.68	100.20	64.886	
7,900.00	6,202.90	6,254.26	6,253.26	100.18	22.10	122.75	-4,523.90	1,992.95	6,545.86	6,444.74	101.12	64.733	
8,000.00	6,275.85	6,300.00	6,298.99	101.70	22.26	123.01	-4,523.18	1,992.02	6,590.46	6,488.47	101.99	64.620	
8,100.00	6,348.81	6,343.90	6,342.87	103.21	22.42	123.26	-4,522.66	1,991.07	6,635.77	6,532.94	102.83	64.530	
8,200.00	6,421.77	6,542.44	6,541.35	104.73	23.13	124.39	-4,519.86	1,987.47	6,681.61	6,577.26	104.34	64.034	
8,300.00	6,494.72	8,300.00	6,657.59	106.24	29.26	125.02	-4,517.20	1,987.43	6,726.44	6,615.22	111.22	60.480	
8,400.00	6,567.68	6,800.00	6,798.79	107.76	24.03	125.78	-4,512.48	1,988.29	6,770.49	6,663.77	106.72	63.440	
8,500.00	6,640.64	6,838.40	6,837.17	109.27	24.16	125.98	-4,511.20	1,988.62	6,815.14	6,707.63	107.52	63.387	
8,600.00	6,713.59	6,868.50	6,867.25	110.79	24.26	126.14	-4,510.45	1,988.88	6,860.64	6,752.38	108.26	63.371	
8,700.00	6,786.55	6,900.00	6,898.75	112.30	24.37	126.30	-4,509.89	1,989.17	6,906.97	6,797.97	109.00	63.367	
8,800.00	6,859.51	6,962.91	6,961.65	113.82	24.59	126.63	-4,508.81	1,989.22	6,953.94	6,844.07	109.86	63.295	
8,900.00	6,932.46	7,049.60	7,048.31	115.33	24.89	127.08	-4,506.84	1,988.20	7,001.28	6,890.47	110.82	63.179	
9,000.00	7,005.42	7,123.22	7,121.92	116.85	25.15	127.45	-4,505.46	1,988.48	7,048.74	6,937.02	111.71	63.097	
9,104.89	7,081.95	7,165.35	7,164.04	118.44	25.30	127.67	-4,504.84	1,988.65	7,099.16	6,986.67	112.48	63.113	
9,150.00	7,115.15	7,200.00	7,198.69	119.12	25.42	122.22	-4,504.44	1,988.64	7,119.64	7,006.75	112.90	63.064	
9,200.00	7,152.46	7,200.00	7,198.69	119.86	25.42	115.92	-4,504.44	1,988.64	7,138.95	7,025.75	113.19	63.068	
9,250.00	7,190.04	7,228.82	7,227.50	120.57	25.52	109.80	-4,504.15	1,988.53	7,154.65	7,041.00	113.64	62.957	
9,300.00	7,227.59	7,252.97	7,251.66	121.25	25.61	103.83	-4,503.93	1,988.35	7,166.62	7,052.53	114.08	62.820	
9,350.00	7,264.83	7,276.78	7,275.47	121.89	25.69	98.16	-4,503.72	1,988.12	7,174.78	7,060.26	114.52	62.650	
9,400.00	7,301.48	7,300.21	7,298.89	122.48	25.78	92.92	-4,503.54	1,987.82	7,179.10	7,064.14	114.96	62.451	
9,450.00	7,337.26	7,354.54	7,353.21	123.01	25.97	88.38	-4,503.05	1,987.08	7,179.47	7,063.93	115.53	62.142	
9,500.00	7,371.90	7,406.99	7,405.66	123.49	26.16	84.42	-4,502.45	1,986.40	7,175.83	7,059.75	116.09	61.813	
9,550.00	7,405.13	7,433.17	7,431.83	123.91	26.25	80.93	-4,502.11	1,986.02	7,168.31	7,051.81	116.50	61.529	
9,600.00	7,436.70	7,460.62	7,459.27	124.27	26.35	78.06	-4,501.73	1,985.56	7,157.00	7,040.10	116.90	61.223	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	7,486.21	7,484.86	124.57	26.44	75.80	-4,501.37	1,985.09	7,141.99	7,024.72	117.27	60.905	
9,700.00	7,493.91	7,508.10	7,506.74	124.81	26.52	74.13	-4,501.05	1,984.64	7,123.40	7,005.81	117.59	60.581	
9,750.00	7,519.11	7,526.07	7,524.70	125.00	26.59	73.02	-4,500.83	1,984.32	7,101.36	6,983.50	117.86	60.253	
9,800.00	7,541.79	7,542.42	7,541.06	125.12	26.64	72.52	-4,500.67	1,984.08	7,076.05	6,957.95	118.10	59.916	
9,850.00	7,561.77	7,557.00	7,555.63	125.20	26.70	72.62	-4,500.57	1,983.91	7,047.63	6,929.33	118.30	59.573	
9,900.00	7,578.90	7,569.64	7,568.27	125.23	26.74	73.37	-4,500.51	1,983.79	7,016.31	6,897.84	118.47	59.225	
9,950.00	7,593.04	7,580.21	7,578.84	125.22	26.78	74.84	-4,500.48	1,983.72	6,982.28	6,863.68	118.60	58.873	
10,000.00	7,604.09	7,588.57	7,587.20	125.17	26.81	77.11	-4,500.46	1,983.67	6,945.80	6,827.11	118.70	58.517	
10,050.00	7,611.97	7,594.60	7,593.23	125.08	26.83	80.32	-4,500.46	1,983.64	6,907.11	6,788.35	118.76	58.158	
10,100.00	7,616.61	7,600.00	7,598.63	124.97	26.85	84.66	-4,500.46	1,983.63	6,866.49	6,747.68	118.81	57.793	
10,145.95	7,618.00	7,600.00	7,598.63	124.84	26.85	89.78	-4,500.46	1,983.63	6,827.68	6,708.86	118.82	57.463	
10,200.00	7,618.00	7,600.00	7,598.63	124.69	26.85	89.78	-4,500.46	1,983.63	6,781.36	6,662.54	118.82	57.071	
10,300.00	7,618.00	7,600.00	7,598.63	124.41	26.85	89.78	-4,500.46	1,983.63	6,695.97	6,577.14	118.83	56.349	
10,400.00	7,618.00	7,600.00	7,598.63	124.14	26.85	89.78	-4,500.46	1,983.63	6,610.98	6,492.14	118.84	55.630	
10,500.00	7,618.00	7,600.00	7,598.63	123.88	26.85	89.78	-4,500.46	1,983.63	6,526.42	6,407.57	118.85	54.914	
10,600.00	7,618.00	7,599.57	7,598.20	123.63	26.85	89.77	-4,500.46	1,983.63	6,442.30	6,323.44	118.86	54.202	
10,700.00	7,618.00	7,599.64	7,598.27	123.40	26.85	89.78	-4,500.46	1,983.63	6,358.64	6,239.77	118.87	53.491	
10,800.00	7,618.00	7,599.70	7,598.33	123.18	26.85	89.78	-4,500.46	1,983.63	6,275.46	6,156.57	118.89	52.784	
10,900.00	7,618.00	7,599.77	7,598.40	122.96	26.85	89.78	-4,500.46	1,983.63	6,192.78	6,073.87	118.91	52.081	
11,000.00	7,618.00	7,599.84	7,598.47	122.76	26.85	89.78	-4,500.46	1,983.63	6,110.61	5,991.68	118.93	51.381	
11,100.00	7,618.00	7,599.91	7,598.54	122.57	26.85	89.78	-4,500.46	1,983.63	6,028.99	5,910.03	118.95	50.684	
11,200.00	7,618.00	7,599.98	7,598.61	122.39	26.85	89.78	-4,500.46	1,983.63	5,947.92	5,828.94	118.98	49.992	
11,300.00	7,618.00	7,600.10	7,598.73	122.23	26.85	89.78	-4,500.46	1,983.63	5,867.44	5,748.43	119.01	49.304	
11,400.00	7,618.00	7,600.24	7,598.87	122.07	26.85	89.79	-4,500.46	1,983.63	5,787.57	5,668.53	119.04	48.619	
11,500.00	7,618.00	7,600.37	7,599.00	121.93	26.85	89.79	-4,500.46	1,983.63	5,708.33	5,589.26	119.07	47.939	
11,600.00	7,618.00	7,600.49	7,599.12	121.79	26.85	89.79	-4,500.46	1,983.62	5,629.75	5,510.64	119.11	47.264	
11,700.00	7,618.00	7,600.61	7,599.24	121.67	26.85	89.79	-4,500.46	1,983.62	5,551.86	5,432.71	119.15	46.594	
11,800.00	7,618.00	7,600.73	7,599.36	121.56	26.85	89.79	-4,500.46	1,983.62	5,474.69	5,355.50	119.20	45.929	
11,900.00	7,618.00	7,600.84	7,599.47	121.46	26.85	89.80	-4,500.46	1,983.62	5,398.27	5,279.03	119.25	45.269	
12,000.00	7,618.00	7,600.95	7,599.58	121.38	26.85	89.80	-4,500.46	1,983.62	5,322.64	5,203.33	119.30	44.615	
12,100.00	7,618.00	7,601.05	7,599.68	121.30	26.85	89.80	-4,500.46	1,983.62	5,247.81	5,128.45	119.36	43.967	
12,200.00	7,618.00	7,601.16	7,599.79	121.24	26.85	89.80	-4,500.46	1,983.62	5,173.84	5,054.42	119.42	43.324	
12,300.00	7,618.00	7,601.25	7,599.89	121.19	26.85	89.80	-4,500.46	1,983.62	5,100.76	4,981.27	119.49	42.688	
12,400.00	7,618.00	7,601.35	7,599.98	121.16	26.85	89.80	-4,500.46	1,983.62	5,028.60	4,909.04	119.56	42.059	
12,500.00	7,618.00	7,601.44	7,600.07	121.14	26.85	89.81	-4,500.46	1,983.62	4,957.41	4,837.77	119.64	41.437	
12,600.00	7,618.00	7,601.53	7,600.16	121.13	26.85	89.81	-4,500.46	1,983.62	4,887.23	4,767.51	119.72	40.823	
12,700.00	7,618.00	7,601.62	7,600.25	121.13	26.86	89.81	-4,500.46	1,983.62	4,818.10	4,698.29	119.81	40.216	
12,800.00	7,618.00	7,601.71	7,600.34	121.15	26.86	89.81	-4,500.46	1,983.62	4,750.07	4,630.17	119.90	39.617	
12,900.00	7,618.00	7,601.79	7,600.42	121.18	26.86	89.81	-4,500.46	1,983.62	4,683.19	4,563.19	120.00	39.027	
13,000.00	7,618.00	7,601.87	7,600.50	121.23	26.86	89.81	-4,500.46	1,983.62	4,617.50	4,497.40	120.11	38.445	
13,100.00	7,618.00	7,601.95	7,600.58	121.29	26.86	89.81	-4,500.46	1,983.62	4,553.07	4,432.85	120.22	37.873	
13,200.00	7,618.00	7,602.04	7,600.68	121.37	26.86	89.81	-4,500.46	1,983.62	4,489.93	4,369.60	120.34	37.311	
13,300.00	7,618.00	7,602.19	7,600.82	121.46	26.86	89.82	-4,500.46	1,983.62	4,428.16	4,307.69	120.47	36.759	
13,400.00	7,618.00	7,602.34	7,600.97	121.57	26.86	89.82	-4,500.46	1,983.62	4,367.80	4,247.20	120.60	36.217	
13,500.00	7,618.00	7,602.50	7,601.13	121.70	26.86	89.82	-4,500.46	1,983.62	4,308.92	4,188.18	120.74	35.687	
13,600.00	7,618.00	7,602.67	7,601.30	121.84	26.86	89.83	-4,500.46	1,983.62	4,251.57	4,130.68	120.89	35.168	
13,700.00	7,618.00	7,602.84	7,601.47	122.01	26.86	89.83	-4,500.46	1,983.62	4,195.83	4,074.77	121.05	34.662	
13,800.00	7,618.00	7,603.02	7,601.65	122.19	26.86	89.83	-4,500.46	1,983.62	4,141.74	4,020.53	121.22	34.168	
13,900.00	7,618.00	7,603.21	7,601.84	122.39	26.86	89.83	-4,500.46	1,983.62	4,089.39	3,968.00	121.39	33.688	
14,000.00	7,618.00	7,603.41	7,602.04	122.62	26.86	89.84	-4,500.46	1,983.62	4,038.84	3,917.27	121.57	33.222	
14,100.00	7,618.00	7,603.61	7,602.25	122.86	26.86	89.84	-4,500.46	1,983.62	3,990.15	3,868.39	121.76	32.771	
14,200.00	7,618.00	7,603.83	7,602.46	123.12	26.86	89.84	-4,500.46	1,983.62	3,943.40	3,821.44	121.96	32.335	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	7,604.06	7,602.69	123.41	26.86	89.85	-4,500.47	1,983.62	3,898.65	3,776.49	122.16	31.914	
14,400.00	7,618.00	7,604.30	7,602.93	123.72	26.86	89.85	-4,500.47	1,983.62	3,855.98	3,733.61	122.37	31.511	
14,500.00	7,618.00	7,604.55	7,603.18	124.06	26.87	89.86	-4,500.47	1,983.62	3,815.45	3,692.86	122.59	31.124	
14,600.00	7,618.00	7,604.82	7,603.45	124.42	26.87	89.86	-4,500.47	1,983.62	3,777.13	3,654.32	122.81	30.755	
14,700.00	7,618.00	7,605.10	7,603.73	124.80	26.87	89.86	-4,500.47	1,983.61	3,741.10	3,618.06	123.04	30.405	
14,800.00	7,618.00	7,605.39	7,604.02	125.21	26.87	89.87	-4,500.47	1,983.61	3,707.41	3,584.14	123.28	30.074	
14,900.00	7,618.00	7,605.71	7,604.34	125.65	26.87	89.87	-4,500.47	1,983.61	3,676.14	3,552.62	123.52	29.762	
15,000.00	7,618.00	7,606.04	7,604.67	126.11	26.87	89.88	-4,500.47	1,983.61	3,647.34	3,523.58	123.76	29.471	
15,100.00	7,618.00	7,606.39	7,605.02	126.61	26.87	89.89	-4,500.47	1,983.61	3,621.07	3,497.07	124.00	29.201	
15,200.00	7,618.00	7,606.77	7,605.40	127.13	26.87	89.89	-4,500.47	1,983.61	3,597.40	3,473.14	124.25	28.953	
15,300.00	7,618.00	7,607.17	7,605.80	127.68	26.87	89.90	-4,500.47	1,983.61	3,576.36	3,451.86	124.50	28.726	
15,400.00	7,618.00	7,607.60	7,606.23	128.26	26.88	89.91	-4,500.47	1,983.61	3,558.01	3,433.26	124.75	28.522	
15,500.00	7,618.00	7,608.06	7,606.69	128.87	26.88	89.91	-4,500.47	1,983.61	3,542.39	3,417.40	124.99	28.341	
15,600.00	7,618.00	7,608.56	7,607.19	129.51	26.88	89.92	-4,500.47	1,983.61	3,529.53	3,404.30	125.24	28.183	
15,700.00	7,618.00	7,609.09	7,607.72	130.18	26.88	89.93	-4,500.47	1,983.61	3,519.47	3,394.00	125.48	28.049	
15,800.00	7,618.00	7,609.66	7,608.29	130.88	26.88	89.94	-4,500.48	1,983.61	3,512.23	3,386.52	125.71	27.939	
15,900.00	7,618.00	7,610.29	7,608.92	131.61	26.89	89.95	-4,500.48	1,983.61	3,507.83	3,381.89	125.94	27.853	
16,000.00	7,618.00	7,610.96	7,609.59	132.37	26.89	89.96	-4,500.48	1,983.61	3,506.27	3,380.11	126.16	27.792	
16,004.58	7,618.00	7,611.00	7,609.63	132.41	26.89	89.96	-4,500.48	1,983.61	3,506.27	3,380.10	126.17	27.789	CC, ES
16,100.00	7,618.00	7,611.70	7,610.33	133.17	26.89	89.97	-4,500.48	1,983.61	3,507.57	3,381.19	126.38	27.755	
16,200.00	7,618.00	7,612.51	7,611.14	133.99	26.89	89.99	-4,500.48	1,983.61	3,511.71	3,385.13	126.58	27.742	
16,300.00	7,618.00	7,613.40	7,612.03	134.84	26.90	90.00	-4,500.49	1,983.61	3,518.69	3,391.91	126.78	27.754	
16,400.00	7,618.00	7,614.38	7,613.01	135.72	26.90	90.02	-4,500.49	1,983.61	3,528.49	3,401.53	126.97	27.790	
16,500.00	7,618.00	7,615.48	7,614.11	136.63	26.90	90.03	-4,500.49	1,983.61	3,541.10	3,413.95	127.15	27.851	
16,600.00	7,618.00	7,616.70	7,615.33	137.57	26.91	90.05	-4,500.50	1,983.61	3,556.46	3,429.15	127.31	27.935	
16,700.00	7,618.00	7,618.07	7,616.70	138.54	26.91	90.08	-4,500.50	1,983.61	3,574.57	3,447.10	127.47	28.043	
16,800.00	7,618.00	7,619.63	7,618.26	139.53	26.92	90.10	-4,500.51	1,983.61	3,595.36	3,467.74	127.61	28.174	
16,900.00	7,618.00	16,900.00	7,564.29	140.55	59.96	89.22	-4,500.70	1,984.03	3,618.65	3,458.29	160.35	22.567	SF
17,000.00	7,618.00	17,000.00	7,563.59	141.60	60.31	89.21	-4,500.71	1,984.04	3,644.67	3,483.86	160.82	22.664	
17,100.00	7,618.00	17,100.00	7,562.89	142.67	60.67	89.20	-4,500.71	1,984.05	3,673.24	3,511.97	161.27	22.777	
17,200.00	7,618.00	17,200.00	7,562.19	143.77	61.03	89.19	-4,500.72	1,984.06	3,704.28	3,542.57	161.71	22.907	
17,300.00	7,618.00	17,300.00	7,561.49	144.88	61.38	89.17	-4,500.72	1,984.06	3,737.75	3,575.61	162.14	23.053	
17,400.00	7,618.00	17,400.00	7,560.79	146.02	61.74	89.16	-4,500.73	1,984.07	3,773.56	3,611.01	162.56	23.214	
17,500.00	7,618.00	17,500.00	7,560.09	147.19	62.09	89.15	-4,500.73	1,984.08	3,811.67	3,648.70	162.96	23.390	
17,600.00	7,618.00	17,600.00	7,559.39	148.37	62.45	89.14	-4,500.74	1,984.09	3,851.99	3,688.63	163.36	23.579	
17,700.00	7,618.00	17,700.00	7,558.69	149.57	62.81	89.13	-4,500.74	1,984.10	3,894.47	3,730.72	163.75	23.783	
17,800.00	7,618.00	17,800.00	7,557.99	150.79	63.16	89.12	-4,500.75	1,984.11	3,939.02	3,774.89	164.13	23.999	
17,900.00	7,618.00	17,900.00	7,557.29	152.03	63.52	89.11	-4,500.75	1,984.11	3,985.59	3,821.09	164.51	24.227	
18,000.00	7,618.00	7,600.00	7,598.63	153.29	26.85	89.78	-4,500.46	1,983.63	4,034.32	3,906.22	128.10	31.492	
18,100.00	7,618.00	7,600.00	7,598.63	154.57	26.85	89.78	-4,500.46	1,983.63	4,084.71	3,956.60	128.10	31.886	
18,200.00	7,618.00	7,600.00	7,598.63	155.86	26.85	89.78	-4,500.46	1,983.63	4,136.90	4,008.80	128.10	32.295	
18,300.00	7,618.00	7,600.00	7,598.63	157.17	26.85	89.78	-4,500.46	1,983.63	4,190.82	4,062.74	128.08	32.720	
18,400.00	7,618.00	7,600.00	7,598.63	158.49	26.85	89.78	-4,500.46	1,983.63	4,246.42	4,118.36	128.06	33.159	
18,500.00	7,618.00	7,600.00	7,598.63	159.82	26.85	89.78	-4,500.46	1,983.63	4,303.62	4,175.59	128.04	33.612	
18,600.00	7,618.00	18,600.00	7,552.38	161.17	66.01	89.03	-4,500.79	1,984.17	4,362.12	4,195.18	166.94	26.130	
18,700.00	7,618.00	18,700.00	7,551.68	162.54	66.37	89.01	-4,500.79	1,984.18	4,422.35	4,255.08	167.27	26.438	
18,800.00	7,618.00	18,800.00	7,550.98	163.91	66.72	89.00	-4,500.80	1,984.19	4,483.99	4,316.40	167.59	26.755	
18,900.00	7,618.00	18,900.00	7,550.28	165.30	67.08	88.99	-4,500.80	1,984.20	4,547.00	4,379.08	167.92	27.079	
19,000.00	7,618.00	19,000.00	7,549.58	166.70	67.43	88.98	-4,500.81	1,984.20	4,611.31	4,443.08	168.24	27.410	
19,100.00	7,618.00	19,100.00	7,548.88	168.10	67.79	88.97	-4,500.81	1,984.21	4,676.88	4,508.33	168.56	27.747	
19,200.00	7,618.00	19,200.00	7,548.18	169.52	68.15	88.96	-4,500.82	1,984.22	4,743.65	4,574.78	168.87	28.090	
19,300.00	7,618.00	19,300.00	7,547.48	170.95	68.50	88.95	-4,500.82	1,984.23	4,811.58	4,642.39	169.19	28.440	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	19,400.00	7,546.78	172.39	68.86	88.93	-4,500.83	1,984.24	4,880.60	4,711.10	169.50	28.794	
19,500.00	7,618.00	19,500.00	7,546.08	173.84	69.21	88.92	-4,500.83	1,984.25	4,950.69	4,780.87	169.81	29.154	
19,600.00	7,618.00	19,600.00	7,545.38	175.30	69.57	88.91	-4,500.84	1,984.25	5,021.78	4,851.66	170.12	29.518	
19,700.00	7,618.00	19,700.00	7,544.68	176.76	69.93	88.90	-4,500.84	1,984.26	5,093.85	4,923.42	170.44	29.887	
19,800.00	7,618.00	19,800.00	7,543.98	178.24	70.28	88.89	-4,500.85	1,984.27	5,166.85	4,996.10	170.75	30.260	
19,896.19	7,618.00	19,896.19	7,543.30	179.66	70.62	88.88	-4,500.85	1,984.28	5,237.91	5,066.86	171.05	30.622	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	18.00	18.00	0.00	0.14	163.90	-7,180.03	2,071.78	7,472.96				
100.00	100.00	118.00	118.00	0.13	1.09	163.90	-7,180.03	2,071.78	7,472.96	7,471.74	1.23	6,099.089	
200.00	200.00	218.00	218.00	0.49	2.84	163.90	-7,180.03	2,071.78	7,472.96	7,469.63	3.33	2,244.767	
300.00	299.98	317.98	317.98	0.85	4.58	94.60	-7,180.03	2,071.78	7,473.10	7,467.67	5.43	1,376.617	
400.00	399.84	417.84	417.84	1.21	6.32	94.63	-7,180.03	2,071.78	7,473.52	7,465.99	7.53	992.473	
500.00	499.45	517.45	517.45	1.58	8.06	94.68	-7,180.03	2,071.78	7,474.23	7,464.59	9.64	775.271	
600.00	598.70	616.70	616.70	1.97	9.79	94.75	-7,180.03	2,071.78	7,475.24	7,463.48	11.76	635.459	
700.00	697.47	715.47	715.47	2.38	11.52	94.85	-7,180.03	2,071.78	7,476.57	7,462.67	13.90	537.796	
800.00	795.62	813.62	813.62	2.83	13.23	94.96	-7,180.03	2,071.78	7,478.23	7,462.17	16.06	465.621	
900.00	893.06	911.06	911.06	3.31	14.93	95.08	-7,180.03	2,071.78	7,480.25	7,462.01	18.24	410.042	
1,000.00	989.64	1,007.64	1,007.64	3.83	16.62	95.23	-7,180.03	2,071.78	7,482.66	7,462.21	20.45	365.883	
1,100.00	1,085.27	1,103.27	1,103.27	4.40	18.29	95.38	-7,180.03	2,071.78	7,485.48	7,462.80	22.69	329.925	
1,200.00	1,179.82	1,202.18	1,197.82	5.02	20.01	95.55	-7,180.03	2,071.78	7,488.76	7,463.73	25.03	299.149	
1,300.00	1,273.17	1,308.83	1,291.17	5.70	21.87	95.73	-7,180.03	2,071.78	7,492.54	7,464.97	27.57	271.788	
1,400.00	1,365.21	1,383.21	1,383.21	6.43	23.17	95.92	-7,180.03	2,071.78	7,496.84	7,467.25	29.60	253.308	
1,500.00	1,455.84	1,473.84	1,473.84	7.23	24.75	96.11	-7,180.03	2,071.78	7,501.72	7,469.76	31.97	234.667	
1,600.00	1,544.94	1,562.94	1,562.94	8.09	26.31	96.31	-7,180.03	2,071.78	7,507.23	7,472.86	34.38	218.392	
1,700.00	1,632.39	1,650.39	1,650.39	9.01	27.84	96.51	-7,180.03	2,071.78	7,513.41	7,476.59	36.82	204.066	
1,800.00	1,718.11	1,736.11	1,736.11	10.00	29.33	96.71	-7,180.03	2,071.78	7,520.31	7,481.02	39.30	191.367	
1,900.00	1,801.97	1,819.97	1,819.97	11.07	30.80	96.90	-7,180.03	2,071.78	7,527.99	7,486.18	41.81	180.044	
2,000.00	1,883.88	1,901.88	1,901.88	12.20	32.23	97.09	-7,180.03	2,071.78	7,536.49	7,492.13	44.36	169.895	
2,100.00	1,963.74	1,981.74	1,981.74	13.41	33.62	97.27	-7,180.03	2,071.78	7,545.87	7,498.93	46.94	160.755	
2,200.00	2,041.45	2,059.45	2,059.45	14.69	34.98	97.43	-7,180.03	2,071.78	7,556.17	7,506.62	49.55	152.493	
2,300.00	2,116.92	2,134.92	2,134.92	16.05	36.29	97.58	-7,180.03	2,071.78	7,567.46	7,515.27	52.19	144.997	
2,357.48	2,159.25	2,177.25	2,177.25	16.86	37.03	97.66	-7,180.03	2,071.78	7,574.41	7,520.69	53.72	141.003	
2,400.00	2,190.27	2,208.27	2,208.27	17.47	37.57	97.82	-7,180.03	2,071.78	7,579.73	7,524.88	54.85	138.186	
2,500.00	2,263.22	2,281.22	2,281.22	18.92	38.85	98.19	-7,180.03	2,071.78	7,592.67	7,535.15	57.53	131.988	
2,600.00	2,336.18	2,354.18	2,354.18	20.37	40.12	98.57	-7,180.03	2,071.78	7,606.21	7,546.01	60.20	126.340	
2,700.00	2,409.14	2,427.14	2,427.14	21.84	41.39	98.94	-7,180.03	2,071.78	7,620.34	7,557.45	62.89	121.178	
2,800.00	2,482.09	2,500.09	2,500.09	23.31	42.67	99.32	-7,180.03	2,071.78	7,635.05	7,569.48	65.57	116.446	
2,900.00	2,555.05	2,573.05	2,573.05	24.78	43.94	99.69	-7,180.03	2,071.78	7,650.35	7,582.10	68.25	112.097	
3,000.00	2,628.01	2,646.01	2,646.01	26.27	45.21	100.06	-7,180.03	2,071.78	7,666.22	7,595.30	70.93	108.087	
3,100.00	2,700.96	2,718.96	2,718.96	27.75	46.49	100.43	-7,180.03	2,071.78	7,682.68	7,609.07	73.60	104.381	
3,200.00	2,773.92	2,808.08	2,791.92	29.24	48.04	100.81	-7,180.03	2,071.78	7,699.70	7,623.14	76.56	100.576	
3,300.00	2,846.88	2,864.88	2,864.88	30.73	49.03	101.18	-7,180.03	2,071.78	7,717.29	7,638.35	78.94	97.760	
3,400.00	2,919.83	2,937.83	2,937.83	32.23	50.31	101.54	-7,180.03	2,071.78	7,735.45	7,653.85	81.60	94.794	
3,500.00	2,992.79	3,010.79	3,010.79	33.72	51.58	101.91	-7,180.03	2,071.78	7,754.17	7,669.91	84.26	92.028	
3,600.00	3,065.75	3,083.75	3,083.75	35.22	52.85	102.28	-7,180.03	2,071.78	7,773.44	7,686.53	86.91	89.443	
3,700.00	3,138.71	3,156.71	3,156.71	36.72	54.13	102.65	-7,180.03	2,071.78	7,793.27	7,703.72	89.55	87.024	
3,800.00	3,211.66	3,229.66	3,229.66	38.22	55.40	103.01	-7,180.03	2,071.78	7,813.65	7,721.46	92.19	84.757	
3,900.00	3,284.62	3,302.62	3,302.62	39.72	56.67	103.37	-7,180.03	2,071.78	7,834.57	7,739.75	94.82	82.627	
4,000.00	3,357.58	3,375.58	3,375.58	41.22	57.95	103.74	-7,180.03	2,071.78	7,856.03	7,758.59	97.44	80.624	
4,100.00	3,430.53	3,448.53	3,448.53	42.73	59.22	104.10	-7,180.03	2,071.78	7,878.02	7,777.97	100.05	78.738	
4,200.00	3,503.49	3,521.49	3,521.49	44.23	60.49	104.46	-7,180.03	2,071.78	7,900.55	7,797.89	102.66	76.958	
4,300.00	3,576.45	3,605.55	3,594.45	45.74	61.96	104.82	-7,180.03	2,071.78	7,923.60	7,818.15	105.45	75.140	
4,400.00	3,649.40	3,667.40	3,667.40	47.25	63.04	105.18	-7,180.03	2,071.78	7,947.17	7,839.33	107.85	73.690	
4,500.00	3,722.36	3,740.36	3,740.36	48.75	64.31	105.53	-7,180.03	2,071.78	7,971.26	7,860.84	110.43	72.186	
4,600.00	3,795.32	3,813.32	3,813.32	50.26	65.59	105.89	-7,180.03	2,071.78	7,995.87	7,882.87	113.00	70.761	
4,700.00	3,868.27	3,886.27	3,886.27	51.77	66.86	106.24	-7,180.03	2,071.78	8,020.98	7,905.42	115.56	69.410	
4,800.00	3,941.23	3,959.23	3,959.23	53.28	68.13	106.60	-7,180.03	2,071.78	8,046.59	7,928.48	118.11	68.126	
4,900.00	4,014.19	4,032.19	4,032.19	54.79	69.41	106.95	-7,180.03	2,071.78	8,072.70	7,952.04	120.66	66.907	
5,000.00	4,087.15	4,105.15	4,105.15	56.30	70.68	107.30	-7,180.03	2,071.78	8,099.31	7,976.12	123.19	65.746	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,160.10	4,178.10	4,178.10	57.81	71.95	107.65	-7,180.03	2,071.78	8,126.40	8,000.68	125.72	64.641	
5,200.00	4,233.06	4,251.06	4,251.06	59.32	73.23	108.00	-7,180.03	2,071.78	8,153.98	8,025.75	128.23	63.588	
5,300.00	4,306.02	4,324.02	4,324.02	60.83	74.50	108.34	-7,180.03	2,071.78	8,182.03	8,051.30	130.74	62.585	
5,400.00	4,378.97	4,403.03	4,396.97	62.34	75.88	108.69	-7,180.03	2,071.78	8,210.56	8,077.23	133.34	61.578	
5,500.00	4,451.93	4,469.93	4,469.93	63.85	77.05	109.03	-7,180.03	2,071.78	8,239.56	8,103.84	135.72	60.711	
5,600.00	4,524.89	4,542.89	4,542.89	65.36	78.32	109.37	-7,180.03	2,071.78	8,269.02	8,130.83	138.19	59.837	
5,700.00	4,597.84	4,615.84	4,615.84	66.88	79.59	109.71	-7,180.03	2,071.78	8,298.95	8,158.29	140.66	59.001	
5,800.00	4,670.80	4,688.80	4,688.80	68.39	80.87	110.05	-7,180.03	2,071.78	8,329.32	8,186.21	143.11	58.200	
5,900.00	4,743.76	4,761.76	4,761.76	69.90	82.14	110.39	-7,180.03	2,071.78	8,360.15	8,214.59	145.56	57.434	
6,000.00	4,816.71	4,834.71	4,834.71	71.41	83.41	110.73	-7,180.03	2,071.78	8,391.41	8,243.42	148.00	56.700	
6,100.00	4,889.67	4,907.67	4,907.67	72.93	84.69	111.06	-7,180.03	2,071.78	8,423.12	8,272.70	150.42	55.997	
6,200.00	4,962.63	4,980.63	4,980.63	74.44	85.96	111.40	-7,180.03	2,071.78	8,455.26	8,302.43	152.84	55.322	
6,300.00	5,035.59	5,053.59	5,053.59	75.95	87.23	111.73	-7,180.03	2,071.78	8,487.84	8,332.59	155.24	54.674	
6,400.00	5,108.54	5,126.54	5,126.54	77.47	88.51	112.06	-7,180.03	2,071.78	8,520.83	8,363.19	157.64	54.053	
6,500.00	5,181.50	5,200.50	5,199.50	78.98	89.80	112.39	-7,180.03	2,071.78	8,554.25	8,394.21	160.04	53.450	
6,600.00	5,254.46	5,272.46	5,272.46	80.49	91.05	112.71	-7,180.03	2,071.78	8,588.08	8,425.68	162.40	52.882	
6,700.00	5,327.41	5,345.41	5,345.41	82.01	92.33	113.04	-7,180.03	2,071.78	8,622.32	8,457.55	164.76	52.331	
6,800.00	5,400.37	5,418.37	5,418.37	83.52	93.60	113.36	-7,180.03	2,071.78	8,656.96	8,489.84	167.12	51.801	
6,900.00	5,473.33	5,508.67	5,491.33	85.04	95.18	113.69	-7,180.03	2,071.78	8,692.01	8,522.24	169.77	51.199	
7,000.00	5,546.28	5,564.28	5,564.28	86.55	96.15	114.01	-7,180.03	2,071.78	8,727.45	8,555.65	171.80	50.800	
7,100.00	5,619.24	5,637.24	5,637.24	88.06	97.42	114.33	-7,180.03	2,071.78	8,763.28	8,589.15	174.13	50.327	
7,200.00	5,692.20	5,710.20	5,710.20	89.58	98.69	114.65	-7,180.03	2,071.78	8,799.50	8,623.05	176.44	49.872	
7,300.00	5,765.15	5,783.15	5,783.15	91.09	99.97	114.96	-7,180.03	2,071.78	8,836.09	8,657.34	178.75	49.433	
7,400.00	5,838.11	5,856.11	5,856.11	92.61	101.24	115.28	-7,180.03	2,071.78	8,873.07	8,692.02	181.05	49.010	
7,500.00	5,911.07	5,929.07	5,929.07	94.12	102.51	115.59	-7,180.03	2,071.78	8,910.41	8,727.08	183.33	48.602	
7,600.00	5,984.03	6,002.03	6,002.03	95.64	103.79	115.90	-7,180.03	2,071.78	8,948.12	8,762.51	185.61	48.209	
7,700.00	6,056.98	6,074.98	6,074.98	97.15	105.06	116.21	-7,180.03	2,071.78	8,986.20	8,798.32	187.88	47.830	
7,800.00	6,129.94	6,147.94	6,147.94	98.67	106.33	116.52	-7,180.03	2,071.78	9,024.63	8,834.49	190.14	47.464	
7,900.00	6,202.90	6,220.90	6,220.90	100.18	107.61	116.82	-7,180.03	2,071.78	9,063.41	8,871.03	192.38	47.111	
8,000.00	6,275.85	6,306.15	6,293.85	101.70	109.09	117.13	-7,180.03	2,071.78	9,102.55	8,907.71	194.84	46.718	
8,100.00	6,348.81	6,366.81	6,366.81	103.21	110.15	117.43	-7,180.03	2,071.78	9,142.02	8,945.17	196.85	46.441	
8,200.00	6,421.77	6,439.77	6,439.77	104.73	111.43	117.73	-7,180.03	2,071.78	9,181.84	8,982.77	199.08	46.122	
8,300.00	6,494.72	6,512.72	6,512.72	106.24	112.70	118.03	-7,180.03	2,071.78	9,221.99	9,020.71	201.29	45.815	
8,400.00	6,567.68	6,585.68	6,585.68	107.76	113.97	118.33	-7,180.03	2,071.78	9,262.48	9,058.99	203.49	45.518	
8,500.00	6,640.64	6,658.64	6,658.64	109.27	115.25	118.63	-7,180.03	2,071.78	9,303.29	9,097.60	205.69	45.231	
8,600.00	6,713.59	6,731.59	6,731.59	110.79	116.52	118.92	-7,180.03	2,071.78	9,344.42	9,136.55	207.87	44.953	
8,700.00	6,786.55	6,804.55	6,804.55	112.30	117.79	119.22	-7,180.03	2,071.78	9,385.87	9,175.82	210.05	44.685	
8,800.00	6,859.51	6,877.51	6,877.51	113.82	119.07	119.51	-7,180.03	2,071.78	9,427.63	9,215.42	212.22	44.425	
8,900.00	6,932.46	6,950.46	6,950.46	115.33	120.34	119.80	-7,180.03	2,071.78	9,469.71	9,255.33	214.37	44.174	
9,000.00	7,005.42	7,023.42	7,023.42	116.85	121.61	120.09	-7,180.03	2,071.78	9,512.09	9,295.56	216.53	43.930	
9,104.89	7,081.95	7,100.05	7,099.95	118.44	122.95	120.39	-7,180.03	2,071.78	9,556.86	9,338.09	218.78	43.684	
9,150.00	7,115.15	7,133.15	7,133.15	119.12	123.53	115.25	-7,180.03	2,071.78	9,574.65	9,354.90	219.75	43.570	
9,200.00	7,152.46	7,170.46	7,170.46	119.86	124.18	109.43	-7,180.03	2,071.78	9,590.70	9,369.83	220.87	43.422	
9,250.00	7,190.04	7,208.04	7,208.04	120.57	124.84	103.58	-7,180.03	2,071.78	9,602.78	9,380.77	222.02	43.253	
9,300.00	7,227.59	7,245.59	7,245.59	121.25	125.49	97.86	-7,180.03	2,071.78	9,610.83	9,387.66	223.17	43.065	
9,350.00	7,264.83	7,282.83	7,282.83	121.89	126.14	92.39	-7,180.03	2,071.78	9,614.78	9,390.45	224.33	42.861	
9,400.00	7,301.48	7,319.48	7,319.48	122.48	126.78	87.33	-7,180.03	2,071.78	9,614.62	9,389.15	225.47	42.643	
9,450.00	7,337.26	7,355.26	7,355.26	123.01	127.40	82.75	-7,180.03	2,071.78	9,610.36	9,383.78	226.59	42.414	
9,500.00	7,371.90	7,389.90	7,389.90	123.49	128.01	78.72	-7,180.03	2,071.78	9,602.04	9,374.37	227.67	42.175	
9,550.00	7,405.13	7,423.13	7,423.13	123.91	128.59	75.27	-7,180.03	2,071.78	9,589.73	9,361.02	228.71	41.930	
9,600.00	7,436.70	7,454.70	7,454.70	124.27	129.14	72.42	-7,180.03	2,071.78	9,573.51	9,343.81	229.69	41.679	
9,650.00	7,466.36	7,484.36	7,484.36	124.57	129.66	70.16	-7,180.03	2,071.78	9,553.51	9,322.89	230.62	41.426	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,700.00	7,493.91	7,511.91	7,511.91	124.81	130.14	68.49	-7,180.03	2,071.78	9,529.88	9,298.41	231.47	41.171	
9,750.00	7,519.11	7,537.11	7,537.11	125.00	130.58	67.41	-7,180.03	2,071.78	9,502.79	9,270.54	232.25	40.916	
9,800.00	7,541.79	7,559.79	7,559.79	125.12	130.97	66.94	-7,180.03	2,071.78	9,472.44	9,239.49	232.95	40.663	
9,850.00	7,561.77	7,579.77	7,579.77	125.20	131.32	67.13	-7,180.03	2,071.78	9,439.04	9,205.48	233.57	40.413	
9,900.00	7,578.90	7,603.10	7,596.90	125.23	131.73	68.03	-7,180.03	2,071.78	9,402.84	9,168.64	234.21	40.147	
9,950.00	7,593.04	7,611.04	7,611.04	125.22	131.87	69.78	-7,180.03	2,071.78	9,364.11	9,129.56	234.55	39.924	
10,000.00	7,604.09	7,622.09	7,622.09	125.17	132.06	72.56	-7,180.03	2,071.78	9,323.10	9,088.20	234.91	39.688	
10,050.00	7,611.97	7,629.97	7,629.97	125.08	132.20	76.66	-7,180.03	2,071.78	9,280.14	9,044.95	235.18	39.459	
10,100.00	7,616.61	7,634.61	7,634.61	124.97	132.28	82.53	-7,180.03	2,071.78	9,235.51	9,000.13	235.38	39.237	
10,145.95	7,618.00	7,636.00	7,636.00	124.84	132.30	90.00	-7,180.03	2,071.78	9,193.31	8,957.83	235.48	39.040	
10,200.00	7,618.00	7,636.00	7,636.00	124.69	132.30	90.00	-7,180.03	2,071.78	9,143.14	8,907.57	235.57	38.813	
10,300.00	7,618.00	7,636.00	7,636.00	124.41	132.30	90.00	-7,180.03	2,071.78	9,050.43	8,814.69	235.73	38.393	
10,400.00	7,618.00	7,636.00	7,636.00	124.14	132.30	90.00	-7,180.03	2,071.78	8,957.87	8,721.97	235.90	37.973	
10,500.00	7,618.00	7,636.00	7,636.00	123.88	132.30	90.00	-7,180.03	2,071.78	8,865.48	8,629.40	236.07	37.554	
10,600.00	7,618.00	7,636.00	7,636.00	123.63	132.30	90.00	-7,180.03	2,071.78	8,773.25	8,537.00	236.25	37.135	
10,700.00	7,618.00	7,636.00	7,636.00	123.40	132.30	90.00	-7,180.03	2,071.78	8,681.20	8,444.76	236.44	36.717	
10,800.00	7,618.00	7,636.00	7,636.00	123.18	132.30	90.00	-7,180.03	2,071.78	8,589.32	8,352.70	236.62	36.300	
10,900.00	7,618.00	7,636.00	7,636.00	122.96	132.30	90.00	-7,180.03	2,071.78	8,497.62	8,260.81	236.82	35.883	
11,000.00	7,618.00	7,636.00	7,636.00	122.76	132.30	90.00	-7,180.03	2,071.78	8,406.12	8,169.10	237.02	35.466	
11,100.00	7,618.00	7,636.00	7,636.00	122.57	132.30	90.00	-7,180.03	2,071.78	8,314.81	8,077.59	237.22	35.051	
11,200.00	7,618.00	7,636.00	7,636.00	122.39	132.30	90.00	-7,180.03	2,071.78	8,223.71	7,986.27	237.43	34.636	
11,300.00	7,618.00	7,636.00	7,636.00	122.23	132.30	90.00	-7,180.03	2,071.78	8,132.81	7,895.16	237.65	34.222	
11,400.00	7,618.00	7,636.00	7,636.00	122.07	132.30	90.00	-7,180.03	2,071.78	8,042.13	7,804.25	237.87	33.808	
11,500.00	7,618.00	7,636.00	7,636.00	121.93	132.30	90.00	-7,180.03	2,071.78	7,951.67	7,713.56	238.11	33.396	
11,600.00	7,618.00	7,636.00	7,636.00	121.79	132.30	90.00	-7,180.03	2,071.78	7,861.44	7,623.10	238.34	32.984	
11,700.00	7,618.00	7,636.00	7,636.00	121.67	132.30	90.00	-7,180.03	2,071.78	7,771.46	7,532.87	238.59	32.573	
11,800.00	7,618.00	7,636.00	7,636.00	121.56	132.30	90.00	-7,180.03	2,071.78	7,681.72	7,442.88	238.84	32.163	
11,900.00	7,618.00	7,636.00	7,636.00	121.46	132.30	90.00	-7,180.03	2,071.78	7,592.23	7,353.13	239.10	31.753	
12,000.00	7,618.00	7,636.00	7,636.00	121.38	132.30	90.00	-7,180.03	2,071.78	7,503.01	7,263.65	239.37	31.345	
12,100.00	7,618.00	7,636.00	7,636.00	121.30	132.30	90.00	-7,180.03	2,071.78	7,414.07	7,174.43	239.64	30.938	
12,200.00	7,618.00	7,636.00	7,636.00	121.24	132.30	90.00	-7,180.03	2,071.78	7,325.41	7,085.49	239.93	30.532	
12,300.00	7,618.00	7,636.00	7,636.00	121.19	132.30	90.00	-7,180.03	2,071.78	7,237.05	6,996.83	240.22	30.127	
12,400.00	7,618.00	7,636.00	7,636.00	121.16	132.30	90.00	-7,180.03	2,071.78	7,149.00	6,908.48	240.52	29.723	
12,500.00	7,618.00	7,636.00	7,636.00	121.14	132.30	90.00	-7,180.03	2,071.78	7,061.26	6,820.43	240.83	29.320	
12,600.00	7,618.00	7,636.00	7,636.00	121.13	132.30	90.00	-7,180.03	2,071.78	6,973.85	6,732.70	241.15	28.919	
12,700.00	7,618.00	7,636.00	7,636.00	121.13	132.30	90.00	-7,180.03	2,071.78	6,886.79	6,645.31	241.48	28.519	
12,800.00	7,618.00	7,636.00	7,636.00	121.15	132.30	90.00	-7,180.03	2,071.78	6,800.08	6,558.26	241.82	28.120	
12,900.00	7,618.00	7,636.00	7,636.00	121.18	132.30	90.00	-7,180.03	2,071.78	6,713.74	6,471.57	242.17	27.723	
13,000.00	7,618.00	7,636.00	7,636.00	121.23	132.30	90.00	-7,180.03	2,071.78	6,627.79	6,385.26	242.53	27.328	
13,100.00	7,618.00	7,636.00	7,636.00	121.29	132.30	90.00	-7,180.03	2,071.78	6,542.23	6,299.33	242.90	26.934	
13,200.00	7,618.00	7,636.00	7,636.00	121.37	132.30	90.00	-7,180.03	2,071.78	6,457.09	6,213.81	243.28	26.541	
13,300.00	7,618.00	7,636.00	7,636.00	121.46	132.30	90.00	-7,180.03	2,071.78	6,372.38	6,128.71	243.68	26.151	
13,400.00	7,618.00	7,636.00	7,636.00	121.57	132.30	90.00	-7,180.03	2,071.78	6,288.13	6,044.04	244.09	25.762	
13,500.00	7,618.00	7,636.00	7,636.00	121.70	132.30	90.00	-7,180.03	2,071.78	6,204.33	5,959.83	244.51	25.375	
13,600.00	7,618.00	7,636.00	7,636.00	121.84	132.30	90.00	-7,180.03	2,071.78	6,121.03	5,876.09	244.94	24.990	
13,700.00	7,618.00	7,636.00	7,636.00	122.01	132.30	90.00	-7,180.03	2,071.78	6,038.23	5,792.85	245.38	24.608	
13,800.00	7,618.00	7,636.00	7,636.00	122.19	132.30	90.00	-7,180.03	2,071.78	5,955.96	5,710.12	245.84	24.227	
13,900.00	7,618.00	7,636.00	7,636.00	122.39	132.30	90.00	-7,180.03	2,071.78	5,874.24	5,627.93	246.31	23.849	
14,000.00	7,618.00	7,636.00	7,636.00	122.62	132.30	90.00	-7,180.03	2,071.78	5,793.09	5,546.30	246.80	23.473	
14,100.00	7,618.00	7,636.00	7,636.00	122.86	132.30	90.00	-7,180.03	2,071.78	5,712.55	5,465.25	247.30	23.100	
14,200.00	7,618.00	7,636.00	7,636.00	123.12	132.30	90.00	-7,180.03	2,071.78	5,632.62	5,384.81	247.81	22.729	
14,300.00	7,618.00	7,636.00	7,636.00	123.41	132.30	90.00	-7,180.03	2,071.78	5,553.35	5,305.00	248.34	22.362	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,400.00	7,618.00	7,636.00	7,636.00	123.72	132.30	90.00	-7,180.03	2,071.78	5,474.75	5,225.86	248.89	21.997	
14,500.00	7,618.00	7,636.00	7,636.00	124.06	132.30	90.00	-7,180.03	2,071.78	5,396.86	5,147.42	249.44	21.635	
14,600.00	7,618.00	7,636.00	7,636.00	124.42	132.30	90.00	-7,180.03	2,071.78	5,319.71	5,069.69	250.02	21.277	
14,700.00	7,618.00	7,636.00	7,636.00	124.80	132.30	90.00	-7,180.03	2,071.78	5,243.34	4,992.73	250.61	20.922	
14,800.00	7,618.00	7,636.00	7,636.00	125.21	132.30	90.00	-7,180.03	2,071.78	5,167.77	4,916.55	251.22	20.571	
14,900.00	7,618.00	7,636.00	7,636.00	125.65	132.30	90.00	-7,180.03	2,071.78	5,093.04	4,841.20	251.84	20.223	
15,000.00	7,618.00	7,636.00	7,636.00	126.11	132.30	90.00	-7,180.03	2,071.78	5,019.19	4,766.71	252.48	19.880	
15,100.00	7,618.00	7,636.00	7,636.00	126.61	132.30	90.00	-7,180.03	2,071.78	4,946.26	4,693.13	253.13	19.540	
15,200.00	7,618.00	7,636.00	7,636.00	127.13	132.30	90.00	-7,180.03	2,071.78	4,874.30	4,620.49	253.80	19.205	
15,300.00	7,618.00	7,636.00	7,636.00	127.68	132.30	90.00	-7,180.03	2,071.78	4,803.33	4,548.84	254.49	18.874	
15,400.00	7,618.00	7,636.00	7,636.00	128.26	132.30	90.00	-7,180.03	2,071.78	4,733.42	4,478.23	255.19	18.549	
15,500.00	7,618.00	7,636.00	7,636.00	128.87	132.30	90.00	-7,180.03	2,071.78	4,664.60	4,408.69	255.90	18.228	
15,600.00	7,618.00	7,636.00	7,636.00	129.51	132.30	90.00	-7,180.03	2,071.78	4,596.92	4,340.29	256.63	17.913	
15,700.00	7,618.00	7,636.00	7,636.00	130.18	132.30	90.00	-7,180.03	2,071.78	4,530.45	4,273.07	257.37	17.603	
15,800.00	7,618.00	7,636.00	7,636.00	130.88	132.30	90.00	-7,180.03	2,071.78	4,465.22	4,207.09	258.13	17.298	
15,900.00	7,618.00	7,636.00	7,636.00	131.61	132.30	90.00	-7,180.03	2,071.78	4,401.30	4,142.40	258.90	17.000	
16,000.00	7,618.00	7,636.00	7,636.00	132.37	132.30	90.00	-7,180.03	2,071.78	4,338.74	4,079.07	259.67	16.709	
16,100.00	7,618.00	7,636.00	7,636.00	133.17	132.30	90.00	-7,180.03	2,071.78	4,277.60	4,017.15	260.46	16.423	
16,200.00	7,618.00	7,636.00	7,636.00	133.99	132.30	90.00	-7,180.03	2,071.78	4,217.95	3,956.70	261.25	16.145	
16,300.00	7,618.00	7,636.00	7,636.00	134.84	132.30	90.00	-7,180.03	2,071.78	4,159.85	3,897.80	262.05	15.874	
16,400.00	7,618.00	7,636.00	7,636.00	135.72	132.30	90.00	-7,180.03	2,071.78	4,103.36	3,840.51	262.85	15.611	
16,500.00	7,618.00	7,636.00	7,636.00	136.63	132.30	90.00	-7,180.03	2,071.78	4,048.56	3,784.90	263.65	15.356	
16,600.00	7,618.00	7,636.00	7,636.00	137.57	132.30	90.00	-7,180.03	2,071.78	3,995.51	3,731.05	264.46	15.108	
16,700.00	7,618.00	7,636.00	7,636.00	138.54	132.30	90.00	-7,180.03	2,071.78	3,944.27	3,679.02	265.25	14.870	
16,800.00	7,618.00	7,636.00	7,636.00	139.53	132.30	90.00	-7,180.03	2,071.78	3,894.94	3,628.89	266.05	14.640	
16,900.00	7,618.00	7,636.00	7,636.00	140.55	132.30	90.00	-7,180.03	2,071.78	3,847.57	3,580.74	266.83	14.420	
17,000.00	7,618.00	7,636.00	7,636.00	141.60	132.30	90.00	-7,180.03	2,071.78	3,802.24	3,534.64	267.60	14.209	
17,100.00	7,618.00	7,636.00	7,636.00	142.67	132.30	90.00	-7,180.03	2,071.78	3,759.02	3,490.67	268.35	14.008	
17,200.00	7,618.00	7,636.00	7,636.00	143.77	132.30	90.00	-7,180.03	2,071.78	3,717.99	3,448.92	269.08	13.818	
17,300.00	7,618.00	7,636.00	7,636.00	144.88	132.30	90.00	-7,180.03	2,071.78	3,679.23	3,409.44	269.78	13.638	
17,400.00	7,618.00	7,636.00	7,636.00	146.02	132.30	90.00	-7,180.03	2,071.78	3,642.79	3,372.33	270.46	13.469	
17,500.00	7,618.00	7,636.00	7,636.00	147.19	132.30	90.00	-7,180.03	2,071.78	3,608.77	3,337.66	271.10	13.311	
17,600.00	7,618.00	7,636.00	7,636.00	148.37	132.30	90.00	-7,180.03	2,071.78	3,577.21	3,305.50	271.71	13.166	
17,700.00	7,618.00	7,636.00	7,636.00	149.57	132.30	90.00	-7,180.03	2,071.78	3,548.19	3,275.92	272.28	13.032	
17,800.00	7,618.00	7,636.00	7,636.00	150.79	132.30	90.00	-7,180.03	2,071.78	3,521.77	3,248.98	272.79	12.910	
17,900.00	7,618.00	7,636.00	7,636.00	152.03	132.30	90.00	-7,180.03	2,071.78	3,498.02	3,224.75	273.26	12.801	
18,000.00	7,618.00	7,636.00	7,636.00	153.29	132.30	90.00	-7,180.03	2,071.78	3,476.98	3,203.30	273.68	12.705	
18,100.00	7,618.00	7,636.00	7,636.00	154.57	132.30	90.00	-7,180.03	2,071.78	3,458.70	3,184.66	274.04	12.621	
18,200.00	7,618.00	7,636.00	7,636.00	155.86	132.30	90.00	-7,180.03	2,071.78	3,443.23	3,168.89	274.34	12.551	
18,300.00	7,618.00	7,636.00	7,636.00	157.17	132.30	90.00	-7,180.03	2,071.78	3,430.61	3,156.03	274.58	12.494	
18,400.00	7,618.00	7,636.00	7,636.00	158.49	132.30	90.00	-7,180.03	2,071.78	3,420.86	3,146.12	274.75	12.451	
18,500.00	7,618.00	7,636.00	7,636.00	159.82	132.30	90.00	-7,180.03	2,071.78	3,414.02	3,139.17	274.85	12.421	
18,600.00	7,618.00	7,636.00	7,636.00	161.17	132.30	90.00	-7,180.03	2,071.78	3,410.10	3,135.21	274.89	12.405	
18,683.82	7,618.00	7,636.00	7,636.00	162.31	132.30	90.00	-7,180.03	2,071.78	3,409.07	3,134.20	274.87	12.402	CC, ES, SF
18,700.00	7,618.00	7,636.00	7,636.00	162.54	132.30	90.00	-7,180.03	2,071.78	3,409.11	3,134.25	274.86	12.403	
18,800.00	7,618.00	7,636.00	7,636.00	163.91	132.30	90.00	-7,180.03	2,071.78	3,411.05	3,136.28	274.76	12.414	
18,900.00	7,618.00	7,636.00	7,636.00	165.30	132.30	90.00	-7,180.03	2,071.78	3,415.92	3,141.32	274.60	12.440	
19,000.00	7,618.00	7,636.00	7,636.00	166.70	132.30	90.00	-7,180.03	2,071.78	3,423.70	3,149.33	274.37	12.479	
19,100.00	7,618.00	7,636.00	7,636.00	168.10	132.30	90.00	-7,180.03	2,071.78	3,434.38	3,160.31	274.07	12.531	
19,200.00	7,618.00	7,636.00	7,636.00	169.52	132.30	90.00	-7,180.03	2,071.78	3,447.93	3,174.21	273.71	12.597	
19,300.00	7,618.00	7,636.00	7,636.00	170.95	132.30	90.00	-7,180.03	2,071.78	3,464.31	3,191.01	273.30	12.676	
19,400.00	7,618.00	7,636.00	7,636.00	172.39	132.30	90.00	-7,180.03	2,071.78	3,483.49	3,210.66	272.82	12.768	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,500.00	7,618.00	7,636.00	7,636.00	173.84	132.30	90.00	-7,180.03	2,071.78	3,505.41	3,233.11	272.30	12.873	
19,600.00	7,618.00	7,636.00	7,636.00	175.30	132.30	90.00	-7,180.03	2,071.78	3,530.03	3,258.31	271.72	12.991	
19,700.00	7,618.00	7,636.00	7,636.00	176.76	132.30	90.00	-7,180.03	2,071.78	3,557.30	3,286.19	271.11	13.121	
19,800.00	7,618.00	7,636.00	7,636.00	178.24	132.30	90.00	-7,180.03	2,071.78	3,587.15	3,316.70	270.45	13.264	
19,896.19	7,618.00	7,636.00	7,636.00	179.66	132.30	90.00	-7,180.03	2,071.78	3,618.23	3,348.45	269.78	13.412	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	140.57	-6,863.27	5,644.45	8,886.24				
100.00	100.00	69.00	69.00	0.13	0.54	140.57	-6,863.27	5,644.45	8,886.19	8,885.51	0.68	N/A	
200.00	200.00	169.00	169.00	0.49	1.99	140.57	-6,863.27	5,644.45	8,886.19	8,883.71	2.48	3,579.425	
300.00	299.98	268.98	268.98	0.85	3.73	71.27	-6,863.27	5,644.45	8,885.63	8,881.05	4.58	1,939.251	
400.00	399.84	368.84	368.84	1.21	5.48	71.33	-6,863.27	5,644.45	8,883.95	8,877.27	6.68	1,329.315	
500.00	499.45	468.45	468.45	1.58	7.22	71.44	-6,863.27	5,644.45	8,881.16	8,872.37	8.79	1,010.159	
600.00	598.70	567.70	567.70	1.97	8.95	71.59	-6,863.27	5,644.45	8,877.27	8,866.36	10.91	813.622	
700.00	697.47	666.47	666.47	2.38	10.67	71.78	-6,863.27	5,644.45	8,872.30	8,859.25	13.04	680.213	
800.00	795.62	764.62	764.62	2.83	12.39	72.01	-6,863.27	5,644.45	8,866.26	8,851.07	15.19	583.568	
900.00	893.06	862.06	862.06	3.31	14.09	72.28	-6,863.27	5,644.45	8,859.20	8,841.84	17.36	510.217	
1,000.00	989.64	958.64	958.64	3.83	15.77	72.59	-6,863.27	5,644.45	8,851.14	8,831.58	19.56	452.564	
1,100.00	1,085.27	1,054.27	1,054.27	4.40	17.44	72.93	-6,863.27	5,644.45	8,842.12	8,820.34	21.78	406.001	
1,200.00	1,179.82	1,148.82	1,148.82	5.02	19.09	73.32	-6,863.27	5,644.45	8,832.17	8,808.14	24.03	367.571	
1,300.00	1,273.17	1,242.17	1,242.17	5.70	20.72	73.73	-6,863.27	5,644.45	8,821.35	8,795.04	26.31	335.288	
1,400.00	1,365.21	1,334.21	1,334.21	6.43	22.33	74.19	-6,863.27	5,644.45	8,809.70	8,781.07	28.62	307.770	
1,500.00	1,455.84	1,424.84	1,424.84	7.23	23.91	74.67	-6,863.27	5,644.45	8,797.28	8,766.30	30.97	284.024	
1,600.00	1,544.94	1,513.94	1,513.94	8.09	25.46	75.18	-6,863.27	5,644.45	8,784.14	8,750.78	33.36	263.319	
1,700.00	1,632.39	1,601.39	1,601.39	9.01	26.99	75.72	-6,863.27	5,644.45	8,770.35	8,734.57	35.78	245.106	
1,800.00	1,718.11	1,687.11	1,687.11	10.00	28.49	76.29	-6,863.27	5,644.45	8,755.97	8,717.72	38.24	228.960	
1,900.00	1,801.97	1,770.97	1,770.97	11.07	29.95	76.87	-6,863.27	5,644.45	8,741.06	8,700.32	40.74	214.552	
2,000.00	1,883.88	1,852.88	1,852.88	12.20	31.38	77.48	-6,863.27	5,644.45	8,725.71	8,682.43	43.28	201.621	
2,100.00	1,963.74	1,932.74	1,932.74	13.41	32.77	78.11	-6,863.27	5,644.45	8,709.98	8,664.12	45.85	189.955	
2,200.00	2,041.45	2,010.45	2,010.45	14.69	34.13	78.74	-6,863.27	5,644.45	8,693.94	8,645.47	48.47	179.385	
2,300.00	2,116.92	2,085.92	2,085.92	16.05	35.45	79.39	-6,863.27	5,644.45	8,677.67	8,626.56	51.11	169.769	
2,357.48	2,159.25	2,128.25	2,128.25	16.86	36.18	79.77	-6,863.27	5,644.45	8,668.25	8,615.60	52.65	164.632	
2,400.00	2,190.27	2,159.27	2,159.27	17.47	36.73	79.91	-6,863.27	5,644.45	8,661.32	8,607.52	53.80	161.004	
2,500.00	2,263.22	2,232.22	2,232.22	18.92	38.00	80.24	-6,863.27	5,644.45	8,645.36	8,588.86	56.50	153.017	
2,600.00	2,336.18	2,305.18	2,305.18	20.37	39.27	80.57	-6,863.27	5,644.45	8,629.92	8,570.71	59.22	145.732	
2,700.00	2,409.14	2,378.14	2,378.14	21.84	40.55	80.90	-6,863.27	5,644.45	8,615.00	8,553.05	61.95	139.066	
2,800.00	2,482.09	2,451.09	2,451.09	23.31	41.82	81.23	-6,863.27	5,644.45	8,600.59	8,535.90	64.69	132.950	
2,900.00	2,555.05	2,524.05	2,524.05	24.78	43.09	81.56	-6,863.27	5,644.45	8,586.70	8,519.26	67.44	127.321	
3,000.00	2,628.01	2,602.99	2,597.01	26.27	44.47	81.90	-6,863.27	5,644.45	8,573.34	8,503.04	70.31	121.945	
3,100.00	2,700.96	2,669.96	2,669.96	27.75	45.64	82.23	-6,863.27	5,644.45	8,560.50	8,487.54	72.97	117.320	
3,200.00	2,773.92	2,742.92	2,742.92	29.24	46.91	82.56	-6,863.27	5,644.45	8,548.19	8,472.45	75.74	112.863	
3,300.00	2,846.88	2,815.88	2,815.88	30.73	48.19	82.90	-6,863.27	5,644.45	8,536.41	8,457.90	78.52	108.720	
3,400.00	2,919.83	2,888.83	2,888.83	32.23	49.46	83.23	-6,863.27	5,644.45	8,525.17	8,443.87	81.30	104.861	
3,500.00	2,992.79	2,961.79	2,961.79	33.72	50.73	83.57	-6,863.27	5,644.45	8,514.45	8,430.37	84.09	101.258	
3,600.00	3,065.75	3,034.75	3,034.75	35.22	52.01	83.90	-6,863.27	5,644.45	8,504.28	8,417.40	86.88	97.889	
3,700.00	3,138.71	3,107.71	3,107.71	36.72	53.28	84.24	-6,863.27	5,644.45	8,494.64	8,404.97	89.67	94.731	
3,800.00	3,211.66	3,180.66	3,180.66	38.22	54.55	84.58	-6,863.27	5,644.45	8,485.54	8,393.07	92.47	91.768	
3,900.00	3,284.62	3,253.62	3,253.62	39.72	55.83	84.91	-6,863.27	5,644.45	8,476.99	8,381.72	95.27	88.982	
4,000.00	3,357.58	3,326.58	3,326.58	41.22	57.10	85.25	-6,863.27	5,644.45	8,468.97	8,370.91	98.07	86.359	
4,100.00	3,430.53	3,400.47	3,399.53	42.73	58.39	85.59	-6,863.27	5,644.45	8,461.51	8,360.62	100.88	83.873	
4,200.00	3,503.49	3,472.49	3,472.49	44.23	59.65	85.93	-6,863.27	5,644.45	8,454.59	8,350.92	103.67	81.552	
4,300.00	3,576.45	3,545.45	3,545.45	45.74	60.92	86.26	-6,863.27	5,644.45	8,448.22	8,341.74	106.48	79.344	
4,400.00	3,649.40	3,618.40	3,618.40	47.25	62.19	86.60	-6,863.27	5,644.45	8,442.39	8,333.11	109.28	77.255	
4,500.00	3,722.36	3,708.64	3,691.36	48.75	63.77	86.94	-6,863.27	5,644.45	8,437.12	8,324.73	112.39	75.073	
4,600.00	3,795.32	3,764.32	3,764.32	50.26	64.74	87.28	-6,863.27	5,644.45	8,432.40	8,317.51	114.89	73.397	
4,700.00	3,868.27	3,837.27	3,837.27	51.77	66.01	87.62	-6,863.27	5,644.45	8,428.23	8,310.54	117.69	71.613	
4,800.00	3,941.23	3,910.23	3,910.23	53.28	67.29	87.96	-6,863.27	5,644.45	8,424.61	8,304.12	120.49	69.918	
4,900.00	4,014.19	3,983.19	3,983.19	54.79	68.56	88.30	-6,863.27	5,644.45	8,421.55	8,298.26	123.29	68.305	
5,000.00	4,087.15	4,056.15	4,056.15	56.30	69.83	88.64	-6,863.27	5,644.45	8,419.05	8,292.95	126.09	66.769	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,100.00	4,160.10	4,129.10	4,129.10	57.81	71.11	88.98	-6,863.27	5,644.45	8,417.09	8,288.20	128.89	65.304	
5,200.00	4,233.06	4,202.06	4,202.06	59.32	72.38	89.32	-6,863.27	5,644.45	8,415.70	8,284.01	131.68	63.908	
5,300.00	4,306.02	4,275.02	4,275.02	60.83	73.65	89.66	-6,863.27	5,644.45	8,414.86	8,280.38	134.48	62.575	
5,400.00	4,378.97	4,347.97	4,347.97	62.34	74.93	90.00	-6,863.27	5,644.45	8,414.57	8,277.30	137.27	61.301	
5,401.37	4,379.97	4,348.97	4,348.97	62.36	74.94	90.00	-6,863.27	5,644.45	8,414.57	8,277.26	137.30	61.284	
5,500.00	4,451.93	4,420.93	4,420.93	63.85	76.20	90.34	-6,863.27	5,644.45	8,414.84	8,274.79	140.05	60.083	
5,600.00	4,524.89	4,506.11	4,493.89	65.36	77.69	90.67	-6,863.27	5,644.45	8,415.67	8,272.62	143.05	58.831	
5,700.00	4,597.84	4,566.84	4,566.84	66.88	78.75	91.01	-6,863.27	5,644.45	8,417.05	8,271.43	145.61	57.804	
5,800.00	4,670.80	4,639.80	4,639.80	68.39	80.02	91.35	-6,863.27	5,644.45	8,418.98	8,270.60	148.39	56.736	
5,900.00	4,743.76	4,712.76	4,712.76	69.90	81.29	91.69	-6,863.27	5,644.45	8,421.48	8,270.32	151.16	55.713	
6,000.00	4,816.71	4,785.71	4,785.71	71.41	82.57	92.03	-6,863.27	5,644.45	8,424.52	8,270.60	153.93	54.731	
6,100.00	4,889.67	4,858.67	4,858.67	72.93	83.84	92.37	-6,863.27	5,644.45	8,428.12	8,271.44	156.69	53.790	
6,200.00	4,962.63	4,931.63	4,931.63	74.44	85.11	92.71	-6,863.27	5,644.45	8,432.28	8,272.84	159.44	52.886	
6,300.00	5,035.59	5,004.59	5,004.59	75.95	86.39	93.05	-6,863.27	5,644.45	8,436.98	8,274.79	162.19	52.018	
6,400.00	5,108.54	5,042.00	5,042.00	77.47	87.04	93.22	-6,863.27	5,644.45	8,442.32	8,278.00	164.31	51.380	
6,500.00	5,181.50	5,042.00	5,042.00	78.98	87.04	93.22	-6,863.27	5,644.45	8,448.75	8,282.99	165.76	50.971	
6,600.00	5,254.46	5,042.00	5,042.00	80.49	87.04	93.22	-6,863.27	5,644.45	8,456.35	8,289.17	167.18	50.581	
6,700.00	5,327.41	5,042.00	5,042.00	82.01	87.04	93.22	-6,863.27	5,644.45	8,465.13	8,296.54	168.59	50.211	
6,800.00	5,400.37	5,042.00	5,042.00	83.52	87.04	93.22	-6,863.27	5,644.45	8,475.09	8,305.11	169.98	49.860	
6,900.00	5,473.33	5,042.00	5,042.00	85.04	87.04	93.22	-6,863.27	5,644.45	8,486.21	8,314.86	171.34	49.528	
7,000.00	5,546.28	5,042.00	5,042.00	86.55	87.04	93.22	-6,863.27	5,644.45	8,498.49	8,325.80	172.69	49.213	
7,100.00	5,619.24	5,042.00	5,042.00	88.06	87.04	93.22	-6,863.27	5,644.45	8,511.93	8,337.92	174.01	48.916	
7,200.00	5,692.20	5,042.00	5,042.00	89.58	87.04	93.22	-6,863.27	5,644.45	8,526.52	8,351.21	175.31	48.637	
7,300.00	5,765.15	5,042.00	5,042.00	91.09	87.04	93.22	-6,863.27	5,644.45	8,542.26	8,365.66	176.59	48.373	
7,400.00	5,838.11	5,042.00	5,042.00	92.61	87.04	93.22	-6,863.27	5,644.45	8,559.13	8,381.28	177.85	48.126	
7,500.00	5,911.07	5,042.00	5,042.00	94.12	87.04	93.22	-6,863.27	5,644.45	8,577.14	8,398.06	179.08	47.895	
7,600.00	5,984.03	5,042.00	5,042.00	95.64	87.04	93.22	-6,863.27	5,644.45	8,596.27	8,415.98	180.29	47.680	
7,700.00	6,056.98	5,042.00	5,042.00	97.15	87.04	93.22	-6,863.27	5,644.45	8,616.53	8,435.05	181.48	47.479	
7,800.00	6,129.94	5,042.00	5,042.00	98.67	87.04	93.22	-6,863.27	5,644.45	8,637.89	8,455.24	182.65	47.293	
7,900.00	6,202.90	5,042.00	5,042.00	100.18	87.04	93.22	-6,863.27	5,644.45	8,660.35	8,476.57	183.79	47.121	
8,000.00	6,275.85	5,042.00	5,042.00	101.70	87.04	93.22	-6,863.27	5,644.45	8,683.91	8,499.01	184.91	46.964	
8,100.00	6,348.81	5,042.00	5,042.00	103.21	87.04	93.22	-6,863.27	5,644.45	8,708.56	8,522.55	186.00	46.820	
8,200.00	6,421.77	5,042.00	5,042.00	104.73	87.04	93.22	-6,863.27	5,644.45	8,734.27	8,547.20	187.07	46.689	
8,300.00	6,494.72	5,042.00	5,042.00	106.24	87.04	93.22	-6,863.27	5,644.45	8,761.06	8,572.94	188.12	46.571	
8,400.00	6,567.68	5,042.00	5,042.00	107.76	87.04	93.22	-6,863.27	5,644.45	8,788.90	8,599.75	189.15	46.466	
8,500.00	6,640.64	5,042.00	5,042.00	109.27	87.04	93.22	-6,863.27	5,644.45	8,817.79	8,627.64	190.15	46.373	
8,600.00	6,713.59	5,042.00	5,042.00	110.79	87.04	93.22	-6,863.27	5,644.45	8,847.71	8,656.58	191.13	46.292	
8,700.00	6,786.55	5,042.00	5,042.00	112.30	87.04	93.22	-6,863.27	5,644.45	8,878.66	8,686.58	192.08	46.223	
8,800.00	6,859.51	5,042.00	5,042.00	113.82	87.04	93.22	-6,863.27	5,644.45	8,910.62	8,717.61	193.01	46.165	
8,900.00	6,932.46	5,042.00	5,042.00	115.33	87.04	93.22	-6,863.27	5,644.45	8,943.59	8,749.66	193.92	46.119	
9,000.00	7,005.42	5,042.00	5,042.00	116.85	87.04	93.22	-6,863.27	5,644.45	8,977.55	8,782.74	194.81	46.083	
9,104.89	7,081.95	5,042.00	5,042.00	118.44	87.04	93.22	-6,863.27	5,644.45	9,014.23	8,818.51	195.72	46.058	
9,150.00	7,115.15	5,042.00	5,042.00	119.12	87.04	88.77	-6,863.27	5,644.45	9,028.69	8,832.59	196.10	46.041	
9,200.00	7,152.46	5,042.00	5,042.00	119.86	87.04	83.49	-6,863.27	5,644.45	9,041.08	8,844.56	196.52	46.006	
9,250.00	7,190.04	5,042.00	5,042.00	120.57	87.04	77.97	-6,863.27	5,644.45	9,049.55	8,852.62	196.93	45.952	
9,300.00	7,227.59	5,042.00	5,042.00	121.25	87.04	72.39	-6,863.27	5,644.45	9,054.06	8,856.74	197.33	45.883	
9,350.00	7,264.83	5,042.00	5,042.00	121.89	87.04	66.88	-6,863.27	5,644.45	9,054.58	8,856.88	197.70	45.799	
9,400.00	7,301.48	5,042.00	5,042.00	122.48	87.04	61.59	-6,863.27	5,644.45	9,051.10	8,853.06	198.05	45.702	
9,450.00	7,337.26	5,042.00	5,042.00	123.01	87.04	56.61	-6,863.27	5,644.45	9,043.65	8,845.29	198.36	45.593	
9,500.00	7,371.90	5,042.00	5,042.00	123.49	87.04	51.98	-6,863.27	5,644.45	9,032.27	8,833.64	198.63	45.472	
9,550.00	7,405.13	5,042.00	5,042.00	123.91	87.04	47.72	-6,863.27	5,644.45	9,017.03	8,818.17	198.87	45.342	
9,600.00	7,436.70	5,042.00	5,042.00	124.27	87.04	43.81	-6,863.27	5,644.45	8,998.04	8,798.98	199.06	45.202	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	5,042.00	5,042.00	124.57	87.04	40.22	-6,863.27	5,644.45	8,975.40	8,776.19	199.21	45.054	
9,700.00	7,493.91	5,042.00	5,042.00	124.81	87.04	36.89	-6,863.27	5,644.45	8,949.28	8,749.95	199.33	44.898	
9,750.00	7,519.11	5,042.00	5,042.00	125.00	87.04	33.75	-6,863.27	5,644.45	8,919.83	8,720.43	199.40	44.734	
9,800.00	7,541.79	5,042.00	5,042.00	125.12	87.04	30.72	-6,863.27	5,644.45	8,887.25	8,687.82	199.43	44.562	
9,850.00	7,561.77	5,042.00	5,042.00	125.20	87.04	27.69	-6,863.27	5,644.45	8,851.75	8,652.32	199.44	44.384	
9,900.00	7,578.90	5,042.00	5,042.00	125.23	87.04	24.54	-6,863.27	5,644.45	8,813.58	8,614.17	199.41	44.199	
9,950.00	7,593.04	5,042.00	5,042.00	125.22	87.04	21.07	-6,863.27	5,644.45	8,772.98	8,573.63	199.35	44.008	
10,000.00	7,604.09	5,042.00	5,042.00	125.17	87.04	17.02	-6,863.27	5,644.45	8,730.24	8,530.97	199.27	43.811	
10,050.00	7,611.97	5,042.00	5,042.00	125.08	87.04	11.95	-6,863.27	5,644.45	8,685.65	8,486.47	199.18	43.608	
10,100.00	7,616.61	5,042.00	5,042.00	124.97	87.04	5.14	-6,863.27	5,644.45	8,639.53	8,440.46	199.07	43.399	
10,145.95	7,618.00	5,042.00	5,042.00	124.84	87.04	-3.65	-6,863.27	5,644.45	8,596.07	8,397.10	198.97	43.203	
10,200.00	7,618.00	5,042.00	5,042.00	124.69	87.04	-3.65	-6,863.27	5,644.45	8,544.46	8,345.62	198.84	42.971	
10,300.00	7,618.00	5,042.00	5,042.00	124.41	87.04	-3.65	-6,863.27	5,644.45	8,449.08	8,250.47	198.61	42.542	
10,400.00	7,618.00	5,042.00	5,042.00	124.14	87.04	-3.65	-6,863.27	5,644.45	8,353.79	8,155.43	198.37	42.113	
10,500.00	7,618.00	5,042.00	5,042.00	123.88	87.04	-3.65	-6,863.27	5,644.45	8,258.62	8,060.51	198.12	41.686	
10,600.00	7,618.00	5,042.00	5,042.00	123.63	87.04	-3.65	-6,863.27	5,644.45	8,163.57	7,965.71	197.86	41.259	
10,700.00	7,618.00	5,042.00	5,042.00	123.40	87.04	-3.65	-6,863.27	5,644.45	8,068.63	7,871.04	197.60	40.834	
10,800.00	7,618.00	5,042.00	5,042.00	123.18	87.04	-3.65	-6,863.27	5,644.45	7,973.82	7,776.50	197.33	40.409	
10,900.00	7,618.00	5,042.00	5,042.00	122.96	87.04	-3.65	-6,863.27	5,644.45	7,879.14	7,682.09	197.05	39.986	
11,000.00	7,618.00	5,042.00	5,042.00	122.76	87.04	-3.65	-6,863.27	5,644.45	7,784.59	7,587.83	196.76	39.563	
11,100.00	7,618.00	5,042.00	5,042.00	122.57	87.04	-3.65	-6,863.27	5,644.45	7,690.18	7,493.71	196.47	39.142	
11,200.00	7,618.00	5,042.00	5,042.00	122.39	87.04	-3.65	-6,863.27	5,644.45	7,595.91	7,399.74	196.16	38.722	
11,300.00	7,618.00	5,042.00	5,042.00	122.23	87.04	-3.65	-6,863.27	5,644.45	7,501.79	7,305.94	195.85	38.303	
11,400.00	7,618.00	5,042.00	5,042.00	122.07	87.04	-3.65	-6,863.27	5,644.45	7,407.82	7,212.29	195.53	37.886	
11,500.00	7,618.00	5,042.00	5,042.00	121.93	87.04	-3.65	-6,863.27	5,644.45	7,314.01	7,118.82	195.20	37.470	
11,600.00	7,618.00	5,042.00	5,042.00	121.79	87.04	-3.65	-6,863.27	5,644.45	7,220.37	7,025.52	194.85	37.055	
11,700.00	7,618.00	5,042.00	5,042.00	121.67	87.04	-3.65	-6,863.27	5,644.45	7,126.91	6,932.41	194.50	36.642	
11,800.00	7,618.00	5,042.00	5,042.00	121.56	87.04	-3.65	-6,863.27	5,644.45	7,033.62	6,839.48	194.14	36.230	
11,900.00	7,618.00	5,042.00	5,042.00	121.46	87.04	-3.65	-6,863.27	5,644.45	6,940.52	6,746.76	193.76	35.820	
12,000.00	7,618.00	5,042.00	5,042.00	121.38	87.04	-3.65	-6,863.27	5,644.45	6,847.61	6,654.24	193.37	35.412	
12,100.00	7,618.00	5,042.00	5,042.00	121.30	87.04	-3.65	-6,863.27	5,644.45	6,754.91	6,561.94	192.97	35.005	
12,200.00	7,618.00	5,042.00	5,042.00	121.24	87.04	-3.65	-6,863.27	5,644.45	6,662.42	6,469.86	192.55	34.601	
12,300.00	7,618.00	5,042.00	5,042.00	121.19	87.04	-3.65	-6,863.27	5,644.45	6,570.14	6,378.02	192.12	34.198	
12,400.00	7,618.00	5,042.00	5,042.00	121.16	87.04	-3.65	-6,863.27	5,644.45	6,478.10	6,286.42	191.68	33.797	
12,500.00	7,618.00	5,042.00	5,042.00	121.14	87.04	-3.65	-6,863.27	5,644.45	6,386.29	6,195.08	191.22	33.398	
12,600.00	7,618.00	5,042.00	5,042.00	121.13	87.04	-3.65	-6,863.27	5,644.45	6,294.74	6,104.00	190.74	33.002	
12,700.00	7,618.00	5,042.00	5,042.00	121.13	87.04	-3.65	-6,863.27	5,644.45	6,203.45	6,013.20	190.25	32.608	
12,800.00	7,618.00	5,042.00	5,042.00	121.15	87.04	-3.65	-6,863.27	5,644.45	6,112.43	5,922.69	189.73	32.216	
12,900.00	7,618.00	5,042.00	5,042.00	121.18	87.04	-3.65	-6,863.27	5,644.45	6,021.69	5,832.49	189.20	31.827	
13,000.00	7,618.00	5,042.00	5,042.00	121.23	87.04	-3.65	-6,863.27	5,644.45	5,931.25	5,742.60	188.65	31.440	
13,100.00	7,618.00	5,042.00	5,042.00	121.29	87.04	-3.65	-6,863.27	5,644.45	5,841.12	5,653.04	188.08	31.056	
13,200.00	7,618.00	5,042.00	5,042.00	121.37	87.04	-3.65	-6,863.27	5,644.45	5,751.32	5,563.84	187.49	30.676	
13,300.00	7,618.00	5,042.00	5,042.00	121.46	87.04	-3.65	-6,863.27	5,644.45	5,661.87	5,474.99	186.87	30.298	
13,400.00	7,618.00	5,042.00	5,042.00	121.57	87.04	-3.65	-6,863.27	5,644.45	5,572.77	5,386.53	186.23	29.923	
13,500.00	7,618.00	5,042.00	5,042.00	121.70	87.04	-3.65	-6,863.27	5,644.45	5,484.04	5,298.47	185.57	29.552	
13,600.00	7,618.00	5,042.00	5,042.00	121.84	87.04	-3.65	-6,863.27	5,644.45	5,395.71	5,210.83	184.88	29.185	
13,700.00	7,618.00	5,042.00	5,042.00	122.01	87.04	-3.65	-6,863.27	5,644.45	5,307.80	5,123.63	184.16	28.821	
13,800.00	7,618.00	5,042.00	5,042.00	122.19	87.04	-3.65	-6,863.27	5,644.45	5,220.32	5,036.90	183.41	28.462	
13,900.00	7,618.00	5,042.00	5,042.00	122.39	87.04	-3.65	-6,863.27	5,644.45	5,133.29	4,950.65	182.64	28.106	
14,000.00	7,618.00	5,042.00	5,042.00	122.62	87.04	-3.65	-6,863.27	5,644.45	5,046.75	4,864.92	181.83	27.756	
14,100.00	7,618.00	5,042.00	5,042.00	122.86	87.04	-3.65	-6,863.27	5,644.45	4,960.71	4,779.73	180.99	27.409	
14,200.00	7,618.00	5,042.00	5,042.00	123.12	87.04	-3.65	-6,863.27	5,644.45	4,875.21	4,695.10	180.11	27.068	

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

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			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
14,300.00	7,618.00	5,042.00	5,042.00	123.41	87.04	-3.65	-6,863.27	5,644.45	4,790.27	4,611.07	179.20	26.732	
14,400.00	7,618.00	5,042.00	5,042.00	123.72	87.04	-3.65	-6,863.27	5,644.45	4,705.92	4,527.67	178.24	26.402	
14,500.00	7,618.00	5,042.00	5,042.00	124.06	87.04	-3.65	-6,863.27	5,644.45	4,622.19	4,444.94	177.25	26.077	
14,600.00	7,618.00	5,042.00	5,042.00	124.42	87.04	-3.65	-6,863.27	5,644.45	4,539.12	4,362.91	176.22	25.759	
14,700.00	7,618.00	5,042.00	5,042.00	124.80	87.04	-3.65	-6,863.27	5,644.45	4,456.75	4,281.61	175.14	25.447	
14,800.00	7,618.00	5,042.00	5,042.00	125.21	87.04	-3.65	-6,863.27	5,644.45	4,375.12	4,201.10	174.02	25.142	
14,900.00	7,618.00	5,042.00	5,042.00	125.65	87.04	-3.65	-6,863.27	5,644.45	4,294.26	4,121.41	172.85	24.844	
15,000.00	7,618.00	5,042.00	5,042.00	126.11	87.04	-3.65	-6,863.27	5,644.45	4,214.22	4,042.59	171.62	24.555	
15,100.00	7,618.00	5,042.00	5,042.00	126.61	87.04	-3.65	-6,863.27	5,644.45	4,135.05	3,964.70	170.35	24.273	
15,200.00	7,618.00	5,042.00	5,042.00	127.13	87.04	-3.65	-6,863.27	5,644.45	4,056.80	3,887.77	169.03	24.001	
15,300.00	7,618.00	5,042.00	5,042.00	127.68	87.04	-3.65	-6,863.27	5,644.45	3,979.52	3,811.88	167.65	23.738	
15,400.00	7,618.00	5,042.00	5,042.00	128.26	87.04	-3.65	-6,863.27	5,644.45	3,903.28	3,737.07	166.21	23.484	
15,500.00	7,618.00	5,042.00	5,042.00	128.87	87.04	-3.65	-6,863.27	5,644.45	3,828.13	3,663.42	164.71	23.241	
15,600.00	7,618.00	5,042.00	5,042.00	129.51	87.04	-3.65	-6,863.27	5,644.45	3,754.14	3,590.99	163.16	23.009	
15,700.00	7,618.00	5,042.00	5,042.00	130.18	87.04	-3.65	-6,863.27	5,644.45	3,681.39	3,519.84	161.54	22.789	
15,800.00	7,618.00	5,042.00	5,042.00	130.88	87.04	-3.65	-6,863.27	5,644.45	3,609.93	3,450.07	159.86	22.581	
15,900.00	7,618.00	5,042.00	5,042.00	131.61	87.04	-3.65	-6,863.27	5,644.45	3,539.86	3,381.73	158.12	22.387	
16,000.00	7,618.00	5,042.00	5,042.00	132.37	87.04	-3.65	-6,863.27	5,644.45	3,471.25	3,314.93	156.32	22.206	
16,100.00	7,618.00	5,042.00	5,042.00	133.17	87.04	-3.65	-6,863.27	5,644.45	3,404.20	3,249.74	154.46	22.039	
16,200.00	7,618.00	5,042.00	5,042.00	133.99	87.04	-3.65	-6,863.27	5,644.45	3,338.80	3,186.26	152.54	21.888	
16,300.00	7,618.00	5,042.00	5,042.00	134.84	87.04	-3.65	-6,863.27	5,644.45	3,275.14	3,124.58	150.56	21.753	
16,400.00	7,618.00	5,042.00	5,042.00	135.72	87.04	-3.65	-6,863.27	5,644.45	3,213.34	3,064.81	148.53	21.634	
16,500.00	7,618.00	5,042.00	5,042.00	136.63	87.04	-3.65	-6,863.27	5,644.45	3,153.50	3,007.05	146.45	21.533	
16,600.00	7,618.00	5,042.00	5,042.00	137.57	87.04	-3.65	-6,863.27	5,644.45	3,095.73	2,951.40	144.33	21.449	
16,700.00	7,618.00	5,042.00	5,042.00	138.54	87.04	-3.65	-6,863.27	5,644.45	3,040.16	2,897.99	142.17	21.384	
16,800.00	7,618.00	5,042.00	5,042.00	139.53	87.04	-3.65	-6,863.27	5,644.45	2,986.89	2,846.91	139.98	21.337	
16,900.00	7,618.00	5,042.00	5,042.00	140.55	87.04	-3.65	-6,863.27	5,644.45	2,936.07	2,798.30	137.78	21.310	
17,000.00	7,618.00	5,042.00	5,042.00	141.60	87.04	-3.65	-6,863.27	5,644.45	2,887.82	2,752.26	135.57	21.302	
17,100.00	7,618.00	5,042.00	5,042.00	142.67	87.04	-3.65	-6,863.27	5,644.45	2,842.27	2,708.91	133.37	21.312	
17,200.00	7,618.00	5,042.00	5,042.00	143.77	87.04	-3.65	-6,863.27	5,644.45	2,799.56	2,668.37	131.19	21.340	
17,300.00	7,618.00	5,042.00	5,042.00	144.88	87.04	-3.65	-6,863.27	5,644.45	2,759.80	2,630.76	129.05	21.386	
17,400.00	7,618.00	5,042.00	5,042.00	146.02	87.04	-3.65	-6,863.27	5,644.45	2,723.14	2,596.17	126.97	21.447	
17,500.00	7,618.00	5,042.00	5,042.00	147.19	87.04	-3.65	-6,863.27	5,644.45	2,689.70	2,564.73	124.98	21.521	
17,600.00	7,618.00	5,042.00	5,042.00	148.37	87.04	-3.65	-6,863.27	5,644.45	2,659.61	2,536.50	123.10	21.605	
17,700.00	7,618.00	5,042.00	5,042.00	149.57	87.04	-3.65	-6,863.27	5,644.45	2,632.96	2,511.59	121.38	21.692	
17,800.00	7,618.00	5,042.00	5,042.00	150.79	87.04	-3.65	-6,863.27	5,644.45	2,609.88	2,490.03	119.85	21.777	
17,900.00	7,618.00	5,042.00	5,042.00	152.03	87.04	-3.65	-6,863.27	5,644.45	2,590.46	2,471.88	118.58	21.846	
18,000.00	7,618.00	5,042.00	5,042.00	153.29	87.04	-3.65	-6,863.27	5,644.45	2,574.78	2,457.14	117.64	21.887	
18,100.00	7,618.00	5,042.00	5,042.00	154.57	87.04	-3.65	-6,863.27	5,644.45	2,562.90	2,445.77	117.13	21.881	
18,200.00	7,618.00	5,042.00	5,042.00	155.86	87.04	-3.65	-6,863.27	5,644.45	2,554.89	2,437.72	117.17	21.805	
18,300.00	7,618.00	5,042.00	5,042.00	157.17	87.04	-3.65	-6,863.27	5,644.45	2,550.78	2,432.91	117.87	21.641	
18,355.03	7,618.00	5,042.00	5,042.00	157.89	87.04	-3.65	-6,863.27	5,644.45	2,550.18	2,431.62	118.56	21.509	CC
18,400.00	7,618.00	5,042.00	5,042.00	158.49	87.04	-3.65	-6,863.27	5,644.45	2,550.58	2,431.29	119.29	21.381	ES
18,500.00	7,618.00	5,042.00	5,042.00	159.82	87.04	-3.65	-6,863.27	5,644.45	2,554.30	2,432.87	121.43	21.035	
18,600.00	7,618.00	5,042.00	5,042.00	161.17	87.04	-3.65	-6,863.27	5,644.45	2,561.92	2,437.73	124.19	20.628	
18,700.00	7,618.00	5,042.00	5,042.00	162.54	87.04	-3.65	-6,863.27	5,644.45	2,573.41	2,445.97	127.44	20.193	
18,800.00	7,618.00	5,042.00	5,042.00	163.91	87.04	-3.65	-6,863.27	5,644.45	2,588.71	2,457.69	131.02	19.758	
18,900.00	7,618.00	5,042.00	5,042.00	165.30	87.04	-3.65	-6,863.27	5,644.45	2,607.76	2,472.95	134.82	19.343	
19,000.00	7,618.00	5,042.00	5,042.00	166.70	87.04	-3.65	-6,863.27	5,644.45	2,630.48	2,491.75	138.73	18.961	
19,100.00	7,618.00	5,042.00	5,042.00	168.10	87.04	-3.65	-6,863.27	5,644.45	2,656.77	2,514.09	142.68	18.620	
19,200.00	7,618.00	5,042.00	5,042.00	169.52	87.04	-3.65	-6,863.27	5,644.45	2,686.53	2,539.91	146.61	18.324	
19,300.00	7,618.00	5,042.00	5,042.00	170.95	87.04	-3.65	-6,863.27	5,644.45	2,719.63	2,569.16	150.48	18.073	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	5,042.00	5,042.00	172.39	87.04	-3.65	-6,863.27	5,644.45	2,755.98	2,601.73	154.25	17.867	
19,500.00	7,618.00	5,042.00	5,042.00	173.84	87.04	-3.65	-6,863.27	5,644.45	2,795.43	2,637.52	157.90	17.703	
19,600.00	7,618.00	5,042.00	5,042.00	175.30	87.04	-3.65	-6,863.27	5,644.45	2,837.85	2,676.43	161.42	17.581	
19,700.00	7,618.00	5,042.00	5,042.00	176.76	87.04	-3.65	-6,863.27	5,644.45	2,883.12	2,718.34	164.79	17.496	
19,800.00	7,618.00	5,042.00	5,042.00	178.24	87.04	-3.65	-6,863.27	5,644.45	2,931.11	2,763.11	168.00	17.447	
19,896.19	7,618.00	5,042.00	5,042.00	179.66	87.04	-3.65	-6,863.27	5,644.45	2,979.70	2,808.76	170.94	17.431	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	145.41	-8,182.00	5,641.95	9,938.70				
100.00	100.00	67.00	67.00	0.13	0.55	145.41	-8,182.00	5,641.95	9,938.65	9,937.96	0.68	N/A	
200.00	200.00	167.00	167.00	0.49	1.99	145.41	-8,182.00	5,641.95	9,938.65	9,936.17	2.48	4,003.363	
300.00	299.98	266.98	266.98	0.85	3.73	76.11	-8,182.00	5,641.95	9,938.23	9,933.65	4.58	2,168.978	
400.00	399.84	366.84	366.84	1.21	5.48	76.17	-8,182.00	5,641.95	9,936.97	9,930.29	6.68	1,486.874	
500.00	499.45	466.45	466.45	1.58	7.22	76.26	-8,182.00	5,641.95	9,934.89	9,926.10	8.79	1,129.939	
600.00	598.70	565.70	565.70	1.97	8.95	76.38	-8,182.00	5,641.95	9,931.99	9,921.07	10.91	910.132	
700.00	697.47	664.47	664.47	2.38	10.67	76.54	-8,182.00	5,641.95	9,928.28	9,915.23	13.05	760.926	
800.00	795.62	762.62	762.62	2.83	12.39	76.73	-8,182.00	5,641.95	9,923.79	9,908.59	15.20	652.840	
900.00	893.06	860.06	860.06	3.31	14.09	76.96	-8,182.00	5,641.95	9,918.54	9,901.17	17.38	570.812	
1,000.00	989.64	956.64	956.64	3.83	15.77	77.22	-8,182.00	5,641.95	9,912.57	9,892.99	19.58	506.347	
1,100.00	1,085.27	1,052.27	1,052.27	4.40	17.44	77.50	-8,182.00	5,641.95	9,905.89	9,884.08	21.81	454.293	
1,200.00	1,179.82	1,146.82	1,146.82	5.02	19.09	77.82	-8,182.00	5,641.95	9,898.55	9,874.49	24.06	411.341	
1,300.00	1,273.17	1,240.17	1,240.17	5.70	20.72	78.17	-8,182.00	5,641.95	9,890.59	9,864.24	26.36	375.271	
1,400.00	1,365.21	1,332.21	1,332.21	6.43	22.33	78.54	-8,182.00	5,641.95	9,882.06	9,853.37	28.68	344.537	
1,500.00	1,455.84	1,422.84	1,422.84	7.23	23.91	78.94	-8,182.00	5,641.95	9,872.99	9,841.94	31.04	318.028	
1,600.00	1,544.94	1,511.94	1,511.94	8.09	25.46	79.36	-8,182.00	5,641.95	9,863.44	9,829.99	33.44	294.927	
1,700.00	1,632.39	1,600.61	1,599.39	9.01	27.01	79.80	-8,182.00	5,641.95	9,853.46	9,817.56	35.90	274.454	
1,800.00	1,718.11	1,685.11	1,685.11	10.00	28.49	80.26	-8,182.00	5,641.95	9,843.11	9,804.76	38.36	256.621	
1,900.00	1,801.97	1,768.97	1,768.97	11.07	29.95	80.73	-8,182.00	5,641.95	9,832.45	9,791.58	40.87	240.574	
2,000.00	1,883.88	1,850.88	1,850.88	12.20	31.38	81.22	-8,182.00	5,641.95	9,821.54	9,778.12	43.42	226.180	
2,100.00	1,963.74	1,930.74	1,930.74	13.41	32.77	81.72	-8,182.00	5,641.95	9,810.44	9,764.42	46.01	213.205	
2,200.00	2,041.45	2,008.45	2,008.45	14.69	34.13	82.23	-8,182.00	5,641.95	9,799.21	9,750.57	48.64	201.455	
2,300.00	2,116.92	2,083.92	2,083.92	16.05	35.45	82.75	-8,182.00	5,641.95	9,787.92	9,736.61	51.31	190.775	
2,357.48	2,159.25	2,126.25	2,126.25	16.86	36.18	83.04	-8,182.00	5,641.95	9,781.43	9,728.58	52.85	185.072	
2,400.00	2,190.27	2,157.27	2,157.27	17.47	36.73	83.17	-8,182.00	5,641.95	9,776.67	9,722.67	54.00	181.046	
2,500.00	2,263.22	2,230.22	2,230.22	18.92	38.00	83.46	-8,182.00	5,641.95	9,765.82	9,709.10	56.72	172.185	
2,600.00	2,336.18	2,303.18	2,303.18	20.37	39.27	83.75	-8,182.00	5,641.95	9,755.44	9,695.99	59.45	164.106	
2,700.00	2,409.14	2,376.14	2,376.14	21.84	40.55	84.04	-8,182.00	5,641.95	9,745.52	9,683.34	62.19	156.717	
2,800.00	2,482.09	2,449.09	2,449.09	23.31	41.82	84.34	-8,182.00	5,641.95	9,736.08	9,671.14	64.93	149.938	
2,900.00	2,555.05	2,522.05	2,522.05	24.78	43.09	84.63	-8,182.00	5,641.95	9,727.11	9,659.42	67.69	143.701	
3,000.00	2,628.01	2,604.99	2,595.01	26.27	44.54	84.93	-8,182.00	5,641.95	9,718.61	9,647.98	70.63	137.606	
3,100.00	2,700.96	2,667.96	2,667.96	27.75	45.64	85.22	-8,182.00	5,641.95	9,710.58	9,637.36	73.22	132.623	
3,200.00	2,773.92	2,740.92	2,740.92	29.24	46.91	85.51	-8,182.00	5,641.95	9,703.03	9,627.04	75.99	127.685	
3,300.00	2,846.88	2,813.88	2,813.88	30.73	48.19	85.81	-8,182.00	5,641.95	9,695.96	9,617.19	78.77	123.096	
3,400.00	2,919.83	2,886.83	2,886.83	32.23	49.46	86.10	-8,182.00	5,641.95	9,689.36	9,607.81	81.55	118.819	
3,500.00	2,992.79	2,959.79	2,959.79	33.72	50.73	86.40	-8,182.00	5,641.95	9,683.24	9,598.91	84.33	114.827	
3,600.00	3,065.75	3,032.75	3,032.75	35.22	52.01	86.69	-8,182.00	5,641.95	9,677.61	9,590.49	87.11	111.092	
3,700.00	3,138.71	3,105.71	3,105.71	36.72	53.28	86.99	-8,182.00	5,641.95	9,672.45	9,582.55	89.90	107.592	
3,800.00	3,211.66	3,178.66	3,178.66	38.22	54.55	87.29	-8,182.00	5,641.95	9,667.77	9,575.08	92.69	104.306	
3,900.00	3,284.62	3,251.62	3,251.62	39.72	55.83	87.58	-8,182.00	5,641.95	9,663.58	9,568.10	95.48	101.216	
4,000.00	3,357.58	3,324.58	3,324.58	41.22	57.10	87.88	-8,182.00	5,641.95	9,659.86	9,561.60	98.26	98.305	
4,100.00	3,430.53	3,402.47	3,397.53	42.73	58.46	88.17	-8,182.00	5,641.95	9,656.63	9,555.49	101.14	95.478	
4,200.00	3,503.49	3,470.49	3,470.49	44.23	59.65	88.47	-8,182.00	5,641.95	9,653.89	9,550.04	103.84	92.966	
4,300.00	3,576.45	3,543.45	3,543.45	45.74	60.92	88.76	-8,182.00	5,641.95	9,651.63	9,544.99	106.63	90.513	
4,400.00	3,649.40	3,616.40	3,616.40	47.25	62.19	89.06	-8,182.00	5,641.95	9,649.85	9,540.43	109.42	88.190	
4,500.00	3,722.36	3,689.36	3,689.36	48.75	63.47	89.36	-8,182.00	5,641.95	9,648.55	9,536.34	112.21	85.987	
4,600.00	3,795.32	3,762.32	3,762.32	50.26	64.74	89.65	-8,182.00	5,641.95	9,647.74	9,532.75	115.00	83.896	
4,700.00	3,868.27	3,835.27	3,835.27	51.77	66.01	89.95	-8,182.00	5,641.95	9,647.42	9,529.64	117.78	81.909	
4,716.88	3,880.59	3,847.59	3,847.59	52.03	66.23	90.00	-8,182.00	5,641.95	9,647.41	9,529.16	118.25	81.583	
4,800.00	3,941.23	3,908.23	3,908.23	53.28	67.29	90.25	-8,182.00	5,641.95	9,647.58	9,527.02	120.57	80.019	
4,900.00	4,014.19	3,981.19	3,981.19	54.79	68.56	90.54	-8,182.00	5,641.95	9,648.23	9,524.88	123.35	78.220	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,000.00	4,087.15	4,054.15	4,054.15	56.30	69.83	90.84	-8,182.00	5,641.95	9,649.36	9,523.23	126.13	76.505	
5,100.00	4,160.10	4,127.10	4,127.10	57.81	71.11	91.14	-8,182.00	5,641.95	9,650.97	9,522.07	128.90	74.869	
5,200.00	4,233.06	4,200.06	4,200.06	59.32	72.38	91.43	-8,182.00	5,641.95	9,653.07	9,521.39	131.68	73.307	
5,300.00	4,306.02	4,273.02	4,273.02	60.83	73.65	91.73	-8,182.00	5,641.95	9,655.65	9,521.20	134.45	71.815	
5,400.00	4,378.97	4,345.97	4,345.97	62.34	74.93	92.02	-8,182.00	5,641.95	9,658.72	9,521.50	137.22	70.388	
5,500.00	4,451.93	4,418.93	4,418.93	63.85	76.20	92.32	-8,182.00	5,641.95	9,662.27	9,522.28	139.99	69.023	
5,600.00	4,524.89	4,508.11	4,491.89	65.36	77.76	92.62	-8,182.00	5,641.95	9,666.30	9,523.27	143.03	67.581	
5,700.00	4,597.84	4,564.84	4,564.84	66.88	78.75	92.91	-8,182.00	5,641.95	9,670.81	9,525.31	145.51	66.463	
5,800.00	4,670.80	4,637.80	4,637.80	68.39	80.02	93.21	-8,182.00	5,641.95	9,675.81	9,527.55	148.26	65.262	
5,900.00	4,743.76	4,710.76	4,710.76	69.90	81.29	93.50	-8,182.00	5,641.95	9,681.29	9,530.27	151.01	64.109	
6,000.00	4,816.71	4,783.71	4,783.71	71.41	82.57	93.80	-8,182.00	5,641.95	9,687.24	9,533.48	153.76	63.003	
6,100.00	4,889.67	4,856.67	4,856.67	72.93	83.84	94.09	-8,182.00	5,641.95	9,693.68	9,537.18	156.50	61.940	
6,200.00	4,962.63	4,929.63	4,929.63	74.44	85.11	94.39	-8,182.00	5,641.95	9,700.59	9,541.35	159.24	60.919	
6,300.00	5,035.59	5,002.59	5,002.59	75.95	86.39	94.68	-8,182.00	5,641.95	9,707.98	9,546.01	161.97	59.937	
6,400.00	5,108.54	5,020.00	5,020.00	77.47	86.69	94.75	-8,182.00	5,641.95	9,716.00	9,552.28	163.72	59.346	
6,500.00	5,181.50	5,020.00	5,020.00	78.98	86.69	94.75	-8,182.00	5,641.95	9,725.03	9,559.89	165.15	58.887	
6,600.00	5,254.46	5,020.00	5,020.00	80.49	86.69	94.75	-8,182.00	5,641.95	9,735.08	9,568.52	166.56	58.448	
6,700.00	5,327.41	5,020.00	5,020.00	82.01	86.69	94.75	-8,182.00	5,641.95	9,746.15	9,578.19	167.96	58.028	
6,800.00	5,400.37	5,020.00	5,020.00	83.52	86.69	94.75	-8,182.00	5,641.95	9,758.22	9,588.89	169.34	57.626	
6,900.00	5,473.33	5,020.00	5,020.00	85.04	86.69	94.75	-8,182.00	5,641.95	9,771.31	9,600.61	170.70	57.242	
7,000.00	5,546.28	5,020.00	5,020.00	86.55	86.69	94.75	-8,182.00	5,641.95	9,785.40	9,613.35	172.05	56.876	
7,100.00	5,619.24	5,020.00	5,020.00	88.06	86.69	94.75	-8,182.00	5,641.95	9,800.49	9,627.11	173.38	56.526	
7,200.00	5,692.20	5,020.00	5,020.00	89.58	86.69	94.75	-8,182.00	5,641.95	9,816.57	9,641.88	174.69	56.193	
7,300.00	5,765.15	5,020.00	5,020.00	91.09	86.69	94.75	-8,182.00	5,641.95	9,833.65	9,657.66	175.99	55.876	
7,400.00	5,838.11	5,020.00	5,020.00	92.61	86.69	94.75	-8,182.00	5,641.95	9,851.71	9,674.44	177.27	55.575	
7,500.00	5,911.07	5,020.00	5,020.00	94.12	86.69	94.75	-8,182.00	5,641.95	9,870.75	9,692.22	178.53	55.290	
7,600.00	5,984.03	5,020.00	5,020.00	95.64	86.69	94.75	-8,182.00	5,641.95	9,890.77	9,711.00	179.77	55.019	
7,700.00	6,056.98	5,020.00	5,020.00	97.15	86.69	94.75	-8,182.00	5,641.95	9,911.75	9,730.76	180.99	54.763	
7,800.00	6,129.94	5,020.00	5,020.00	98.67	86.69	94.75	-8,182.00	5,641.95	9,933.70	9,751.50	182.20	54.521	
7,900.00	6,202.90	5,020.00	5,020.00	100.18	86.69	94.75	-8,182.00	5,641.95	9,956.60	9,773.22	183.39	54.293	
8,000.00	6,275.85	5,020.00	5,020.00	101.70	86.69	94.75	-8,182.00	5,641.95	9,980.46	9,795.90	184.56	54.078	
10,050.00	7,611.97	5,020.00	5,020.00	125.08	86.69	13.48	-8,182.00	5,641.95	9,959.17	9,758.33	200.84	49.587	
10,100.00	7,616.61	5,020.00	5,020.00	124.97	86.69	6.20	-8,182.00	5,641.95	9,912.38	9,711.61	200.78	49.370	
10,145.95	7,618.00	5,020.00	5,020.00	124.84	86.69	-3.67	-8,182.00	5,641.95	9,868.40	9,667.69	200.71	49.168	
10,200.00	7,618.00	5,020.00	5,020.00	124.69	86.69	-3.67	-8,182.00	5,641.95	9,816.22	9,615.60	200.62	48.929	
10,300.00	7,618.00	5,020.00	5,020.00	124.41	86.69	-3.67	-8,182.00	5,641.95	9,719.75	9,519.30	200.45	48.489	
10,400.00	7,618.00	5,020.00	5,020.00	124.14	86.69	-3.67	-8,182.00	5,641.95	9,623.34	9,423.06	200.28	48.049	
10,500.00	7,618.00	5,020.00	5,020.00	123.88	86.69	-3.67	-8,182.00	5,641.95	9,527.02	9,326.91	200.11	47.609	
10,600.00	7,618.00	5,020.00	5,020.00	123.63	86.69	-3.67	-8,182.00	5,641.95	9,430.76	9,230.83	199.93	47.170	
10,700.00	7,618.00	5,020.00	5,020.00	123.40	86.69	-3.67	-8,182.00	5,641.95	9,334.59	9,134.84	199.75	46.732	
10,800.00	7,618.00	5,020.00	5,020.00	123.18	86.69	-3.67	-8,182.00	5,641.95	9,238.49	9,038.93	199.56	46.294	
10,900.00	7,618.00	5,020.00	5,020.00	122.96	86.69	-3.67	-8,182.00	5,641.95	9,142.48	8,943.11	199.37	45.857	
11,000.00	7,618.00	5,020.00	5,020.00	122.76	86.69	-3.67	-8,182.00	5,641.95	9,046.56	8,847.39	199.17	45.421	
11,100.00	7,618.00	5,020.00	5,020.00	122.57	86.69	-3.67	-8,182.00	5,641.95	8,950.73	8,751.75	198.97	44.985	
11,200.00	7,618.00	5,020.00	5,020.00	122.39	86.69	-3.67	-8,182.00	5,641.95	8,854.99	8,656.22	198.77	44.550	
11,300.00	7,618.00	5,020.00	5,020.00	122.23	86.69	-3.67	-8,182.00	5,641.95	8,759.34	8,560.78	198.56	44.115	
11,400.00	7,618.00	5,020.00	5,020.00	122.07	86.69	-3.67	-8,182.00	5,641.95	8,663.79	8,465.45	198.34	43.681	
11,500.00	7,618.00	5,020.00	5,020.00	121.93	86.69	-3.67	-8,182.00	5,641.95	8,568.34	8,370.22	198.12	43.248	
11,600.00	7,618.00	5,020.00	5,020.00	121.79	86.69	-3.67	-8,182.00	5,641.95	8,473.00	8,275.11	197.89	42.816	
11,700.00	7,618.00	5,020.00	5,020.00	121.67	86.69	-3.67	-8,182.00	5,641.95	8,377.77	8,180.11	197.66	42.385	
11,800.00	7,618.00	5,020.00	5,020.00	121.56	86.69	-3.67	-8,182.00	5,641.95	8,282.65	8,085.23	197.42	41.954	
11,900.00	7,618.00	5,020.00	5,020.00	121.46	86.69	-3.67	-8,182.00	5,641.95	8,187.64	7,990.47	197.17	41.525	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
12,000.00	7,618.00	5,020.00	5,020.00	121.38	86.69	-3.67	-8,182.00	5,641.95	8,092.76	7,895.84	196.92	41.096	
12,100.00	7,618.00	5,020.00	5,020.00	121.30	86.69	-3.67	-8,182.00	5,641.95	7,998.00	7,801.34	196.66	40.668	
12,200.00	7,618.00	5,020.00	5,020.00	121.24	86.69	-3.67	-8,182.00	5,641.95	7,903.37	7,706.97	196.40	40.242	
12,300.00	7,618.00	5,020.00	5,020.00	121.19	86.69	-3.67	-8,182.00	5,641.95	7,808.87	7,612.75	196.12	39.816	
12,400.00	7,618.00	5,020.00	5,020.00	121.16	86.69	-3.67	-8,182.00	5,641.95	7,714.52	7,518.67	195.84	39.392	
12,500.00	7,618.00	5,020.00	5,020.00	121.14	86.69	-3.67	-8,182.00	5,641.95	7,620.30	7,424.75	195.55	38.968	
12,600.00	7,618.00	5,020.00	5,020.00	121.13	86.69	-3.67	-8,182.00	5,641.95	7,526.24	7,330.98	195.25	38.546	
12,700.00	7,618.00	5,020.00	5,020.00	121.13	86.69	-3.67	-8,182.00	5,641.95	7,432.33	7,237.38	194.95	38.125	
12,800.00	7,618.00	5,020.00	5,020.00	121.15	86.69	-3.67	-8,182.00	5,641.95	7,338.58	7,143.95	194.63	37.705	
12,900.00	7,618.00	5,020.00	5,020.00	121.18	86.69	-3.67	-8,182.00	5,641.95	7,245.00	7,050.69	194.31	37.287	
13,000.00	7,618.00	5,020.00	5,020.00	121.23	86.69	-3.67	-8,182.00	5,641.95	7,151.59	6,957.62	193.97	36.870	
13,100.00	7,618.00	5,020.00	5,020.00	121.29	86.69	-3.67	-8,182.00	5,641.95	7,058.36	6,864.74	193.62	36.454	
13,200.00	7,618.00	5,020.00	5,020.00	121.37	86.69	-3.67	-8,182.00	5,641.95	6,965.32	6,772.06	193.27	36.040	
13,300.00	7,618.00	5,020.00	5,020.00	121.46	86.69	-3.67	-8,182.00	5,641.95	6,872.48	6,679.58	192.90	35.627	
13,400.00	7,618.00	5,020.00	5,020.00	121.57	86.69	-3.67	-8,182.00	5,641.95	6,779.84	6,587.32	192.52	35.216	
13,500.00	7,618.00	5,020.00	5,020.00	121.70	86.69	-3.67	-8,182.00	5,641.95	6,687.41	6,495.29	192.13	34.807	
13,600.00	7,618.00	5,020.00	5,020.00	121.84	86.69	-3.67	-8,182.00	5,641.95	6,595.21	6,403.48	191.72	34.400	
13,700.00	7,618.00	5,020.00	5,020.00	122.01	86.69	-3.67	-8,182.00	5,641.95	6,503.23	6,311.93	191.30	33.994	
13,800.00	7,618.00	5,020.00	5,020.00	122.19	86.69	-3.67	-8,182.00	5,641.95	6,411.49	6,220.62	190.87	33.590	
13,900.00	7,618.00	5,020.00	5,020.00	122.39	86.69	-3.67	-8,182.00	5,641.95	6,320.01	6,129.58	190.43	33.189	
14,000.00	7,618.00	5,020.00	5,020.00	122.62	86.69	-3.67	-8,182.00	5,641.95	6,228.78	6,038.82	189.96	32.789	
14,100.00	7,618.00	5,020.00	5,020.00	122.86	86.69	-3.67	-8,182.00	5,641.95	6,137.83	5,948.35	189.49	32.392	
14,200.00	7,618.00	5,020.00	5,020.00	123.12	86.69	-3.67	-8,182.00	5,641.95	6,047.17	5,858.18	188.99	31.997	
14,300.00	7,618.00	5,020.00	5,020.00	123.41	86.69	-3.67	-8,182.00	5,641.95	5,956.80	5,768.32	188.48	31.605	
14,400.00	7,618.00	5,020.00	5,020.00	123.72	86.69	-3.67	-8,182.00	5,641.95	5,866.75	5,678.80	187.95	31.215	
14,500.00	7,618.00	5,020.00	5,020.00	124.06	86.69	-3.67	-8,182.00	5,641.95	5,777.02	5,589.62	187.40	30.827	
14,600.00	7,618.00	5,020.00	5,020.00	124.42	86.69	-3.67	-8,182.00	5,641.95	5,687.64	5,500.81	186.83	30.443	
14,700.00	7,618.00	5,020.00	5,020.00	124.80	86.69	-3.67	-8,182.00	5,641.95	5,598.62	5,412.38	186.24	30.061	
14,800.00	7,618.00	5,020.00	5,020.00	125.21	86.69	-3.67	-8,182.00	5,641.95	5,509.97	5,324.34	185.63	29.683	
14,900.00	7,618.00	5,020.00	5,020.00	125.65	86.69	-3.67	-8,182.00	5,641.95	5,421.71	5,236.72	184.99	29.308	
15,000.00	7,618.00	5,020.00	5,020.00	126.11	86.69	-3.67	-8,182.00	5,641.95	5,333.88	5,149.54	184.33	28.936	
15,100.00	7,618.00	5,020.00	5,020.00	126.61	86.69	-3.67	-8,182.00	5,641.95	5,246.47	5,062.82	183.65	28.568	
15,200.00	7,618.00	5,020.00	5,020.00	127.13	86.69	-3.67	-8,182.00	5,641.95	5,159.53	4,976.59	182.94	28.203	
15,300.00	7,618.00	5,020.00	5,020.00	127.68	86.69	-3.67	-8,182.00	5,641.95	5,073.06	4,890.86	182.20	27.843	
15,400.00	7,618.00	5,020.00	5,020.00	128.26	86.69	-3.67	-8,182.00	5,641.95	4,987.11	4,805.67	181.44	27.486	
15,500.00	7,618.00	5,020.00	5,020.00	128.87	86.69	-3.67	-8,182.00	5,641.95	4,901.68	4,721.04	180.64	27.134	
15,600.00	7,618.00	5,020.00	5,020.00	129.51	86.69	-3.67	-8,182.00	5,641.95	4,816.82	4,637.00	179.82	26.787	
15,700.00	7,618.00	5,020.00	5,020.00	130.18	86.69	-3.67	-8,182.00	5,641.95	4,732.55	4,553.58	178.96	26.445	
15,800.00	7,618.00	5,020.00	5,020.00	130.88	86.69	-3.67	-8,182.00	5,641.95	4,648.90	4,470.83	178.07	26.107	
15,900.00	7,618.00	5,020.00	5,020.00	131.61	86.69	-3.67	-8,182.00	5,641.95	4,565.90	4,388.76	177.14	25.775	
16,000.00	7,618.00	5,020.00	5,020.00	132.37	86.69	-3.67	-8,182.00	5,641.95	4,483.61	4,307.43	176.18	25.449	
16,100.00	7,618.00	5,020.00	5,020.00	133.17	86.69	-3.67	-8,182.00	5,641.95	4,402.04	4,226.86	175.18	25.129	
16,200.00	7,618.00	5,020.00	5,020.00	133.99	86.69	-3.67	-8,182.00	5,641.95	4,321.25	4,147.11	174.14	24.815	
16,300.00	7,618.00	5,020.00	5,020.00	134.84	86.69	-3.67	-8,182.00	5,641.95	4,241.28	4,068.22	173.06	24.508	
16,400.00	7,618.00	5,020.00	5,020.00	135.72	86.69	-3.67	-8,182.00	5,641.95	4,162.18	3,990.24	171.94	24.208	
16,500.00	7,618.00	5,020.00	5,020.00	136.63	86.69	-3.67	-8,182.00	5,641.95	4,083.99	3,913.22	170.77	23.915	
16,600.00	7,618.00	5,020.00	5,020.00	137.57	86.69	-3.67	-8,182.00	5,641.95	4,006.77	3,837.21	169.56	23.630	
16,700.00	7,618.00	5,020.00	5,020.00	138.54	86.69	-3.67	-8,182.00	5,641.95	3,930.58	3,762.27	168.31	23.353	
16,800.00	7,618.00	5,020.00	5,020.00	139.53	86.69	-3.67	-8,182.00	5,641.95	3,855.48	3,688.47	167.01	23.086	
16,900.00	7,618.00	5,020.00	5,020.00	140.55	86.69	-3.67	-8,182.00	5,641.95	3,781.53	3,615.87	165.66	22.827	
17,000.00	7,618.00	5,020.00	5,020.00	141.60	86.69	-3.67	-8,182.00	5,641.95	3,708.80	3,544.54	164.27	22.578	
17,100.00	7,618.00	5,020.00	5,020.00	142.67	86.69	-3.67	-8,182.00	5,641.95	3,637.37	3,474.55	162.83	22.339	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
17,200.00	7,618.00	5,020.00	5,020.00	143.77	86.69	-3.67	-8,182.00	5,641.95	3,567.31	3,405.97	161.34	22.111	
17,300.00	7,618.00	5,020.00	5,020.00	144.88	86.69	-3.67	-8,182.00	5,641.95	3,498.71	3,338.91	159.80	21.894	
17,400.00	7,618.00	5,020.00	5,020.00	146.02	86.69	-3.67	-8,182.00	5,641.95	3,431.65	3,273.43	158.22	21.689	
17,500.00	7,618.00	5,020.00	5,020.00	147.19	86.69	-3.67	-8,182.00	5,641.95	3,366.23	3,209.62	156.60	21.496	
17,600.00	7,618.00	5,020.00	5,020.00	148.37	86.69	-3.67	-8,182.00	5,641.95	3,302.53	3,147.60	154.94	21.316	
17,700.00	7,618.00	5,020.00	5,020.00	149.57	86.69	-3.67	-8,182.00	5,641.95	3,240.67	3,087.44	153.23	21.149	
17,800.00	7,618.00	5,020.00	5,020.00	150.79	86.69	-3.67	-8,182.00	5,641.95	3,180.76	3,029.26	151.49	20.996	
17,900.00	7,618.00	5,020.00	5,020.00	152.03	86.69	-3.67	-8,182.00	5,641.95	3,122.89	2,973.17	149.72	20.858	
18,000.00	7,618.00	5,020.00	5,020.00	153.29	86.69	-3.67	-8,182.00	5,641.95	3,067.20	2,919.27	147.93	20.734	
18,100.00	7,618.00	5,020.00	5,020.00	154.57	86.69	-3.67	-8,182.00	5,641.95	3,013.80	2,867.68	146.12	20.626	
18,200.00	7,618.00	5,020.00	5,020.00	155.86	86.69	-3.67	-8,182.00	5,641.95	2,962.81	2,818.51	144.29	20.533	
18,300.00	7,618.00	5,020.00	5,020.00	157.17	86.69	-3.67	-8,182.00	5,641.95	2,914.36	2,771.89	142.47	20.457	
18,400.00	7,618.00	5,020.00	5,020.00	158.49	86.69	-3.67	-8,182.00	5,641.95	2,868.57	2,727.93	140.65	20.396	
18,500.00	7,618.00	5,020.00	5,020.00	159.82	86.69	-3.67	-8,182.00	5,641.95	2,825.59	2,686.75	138.84	20.351	
18,600.00	7,618.00	5,020.00	5,020.00	161.17	86.69	-3.67	-8,182.00	5,641.95	2,785.54	2,648.46	137.07	20.321	
18,700.00	7,618.00	5,020.00	5,020.00	162.54	86.69	-3.67	-8,182.00	5,641.95	2,748.54	2,613.19	135.35	20.306	
18,800.00	7,618.00	5,020.00	5,020.00	163.91	86.69	-3.67	-8,182.00	5,641.95	2,714.72	2,581.02	133.70	20.305	
18,900.00	7,618.00	5,020.00	5,020.00	165.30	86.69	-3.67	-8,182.00	5,641.95	2,684.21	2,552.07	132.13	20.314	
19,000.00	7,618.00	5,020.00	5,020.00	166.70	86.69	-3.67	-8,182.00	5,641.95	2,657.11	2,526.42	130.69	20.332	
19,100.00	7,618.00	5,020.00	5,020.00	168.10	86.69	-3.67	-8,182.00	5,641.95	2,633.53	2,504.13	129.40	20.352	
19,200.00	7,618.00	5,020.00	5,020.00	169.52	86.69	-3.67	-8,182.00	5,641.95	2,613.56	2,485.24	128.33	20.367	
19,300.00	7,618.00	5,020.00	5,020.00	170.95	86.69	-3.67	-8,182.00	5,641.95	2,597.30	2,469.77	127.53	20.366	
19,400.00	7,618.00	5,020.00	5,020.00	172.39	86.69	-3.67	-8,182.00	5,641.95	2,584.80	2,457.69	127.11	20.335	
19,500.00	7,618.00	5,020.00	5,020.00	173.84	86.69	-3.67	-8,182.00	5,641.95	2,576.13	2,448.96	127.17	20.257	
19,600.00	7,618.00	5,020.00	5,020.00	175.30	86.69	-3.67	-8,182.00	5,641.95	2,571.32	2,443.50	127.82	20.116	
19,673.75	7,618.00	5,020.00	5,020.00	176.38	86.69	-3.67	-8,182.00	5,641.95	2,570.27	2,441.54	128.73	19.966	CC
19,700.00	7,618.00	5,020.00	5,020.00	176.76	86.69	-3.67	-8,182.00	5,641.95	2,570.40	2,441.26	129.14	19.903	ES
19,800.00	7,618.00	5,020.00	5,020.00	178.24	86.69	-3.67	-8,182.00	5,641.95	2,573.37	2,442.23	131.14	19.623	
19,896.19	7,618.00	5,020.00	5,020.00	179.66	86.69	-3.67	-8,182.00	5,641.95	2,579.87	2,446.25	133.63	19.307	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	162.65	-5,565.54	1,738.93	5,830.94				
100.00	100.00	71.00	71.00	0.13	0.58	162.65	-5,565.54	1,738.93	5,830.87	5,830.16	0.71	8,205.004	
200.00	200.00	171.00	171.00	0.49	2.05	162.65	-5,565.54	1,738.93	5,830.87	5,828.33	2.54	2,292.314	
300.00	299.98	270.98	270.98	0.85	3.80	93.35	-5,565.54	1,738.93	5,830.97	5,826.33	4.64	1,255.813	
400.00	399.84	370.84	370.84	1.21	5.54	93.39	-5,565.54	1,738.93	5,831.28	5,824.54	6.74	864.567	
500.00	499.45	470.45	470.45	1.58	7.28	93.47	-5,565.54	1,738.93	5,831.80	5,822.95	8.86	658.566	
600.00	598.70	569.70	569.70	1.97	9.01	93.57	-5,565.54	1,738.93	5,832.56	5,821.58	10.98	531.294	
700.00	697.47	668.47	668.47	2.38	10.73	93.70	-5,565.54	1,738.93	5,833.56	5,820.45	13.12	444.741	
800.00	795.62	766.62	766.62	2.83	12.45	93.86	-5,565.54	1,738.93	5,834.84	5,819.57	15.28	381.977	
900.00	893.06	864.06	864.06	3.31	14.15	94.04	-5,565.54	1,738.93	5,836.44	5,818.98	17.46	334.324	
1,000.00	989.64	960.64	960.64	3.83	15.83	94.25	-5,565.54	1,738.93	5,838.37	5,818.71	19.67	296.876	
1,100.00	1,085.27	1,056.27	1,056.27	4.40	17.50	94.48	-5,565.54	1,738.93	5,840.70	5,818.80	21.90	266.651	
1,200.00	1,179.82	1,150.82	1,150.82	5.02	19.15	94.72	-5,565.54	1,738.93	5,843.46	5,819.29	24.17	241.732	
1,300.00	1,273.17	1,244.17	1,244.17	5.70	20.78	94.98	-5,565.54	1,738.93	5,846.71	5,820.23	26.48	220.832	
1,400.00	1,365.21	1,336.21	1,336.21	6.43	22.39	95.26	-5,565.54	1,738.93	5,850.50	5,821.68	28.81	203.052	
1,500.00	1,455.84	1,426.84	1,426.84	7.23	23.97	95.55	-5,565.54	1,738.93	5,854.88	5,823.70	31.19	187.746	
1,600.00	1,544.94	1,515.94	1,515.94	8.09	25.52	95.84	-5,565.54	1,738.93	5,859.93	5,826.34	33.59	174.438	
1,700.00	1,632.39	1,603.39	1,603.39	9.01	27.05	96.14	-5,565.54	1,738.93	5,865.71	5,829.67	36.04	162.769	
1,800.00	1,718.11	1,689.11	1,689.11	10.00	28.55	96.44	-5,565.54	1,738.93	5,872.28	5,833.76	38.52	152.463	
1,900.00	1,801.97	1,772.97	1,772.97	11.07	30.01	96.73	-5,565.54	1,738.93	5,879.71	5,838.68	41.03	143.305	
2,000.00	1,883.88	1,854.88	1,854.88	12.20	31.44	97.02	-5,565.54	1,738.93	5,888.06	5,844.49	43.58	135.122	
2,100.00	1,963.74	1,934.74	1,934.74	13.41	32.83	97.30	-5,565.54	1,738.93	5,897.42	5,851.27	46.15	127.778	
2,200.00	2,041.45	2,012.45	2,012.45	14.69	34.19	97.57	-5,565.54	1,738.93	5,907.84	5,859.08	48.76	121.159	
2,300.00	2,116.92	2,087.92	2,087.92	16.05	35.51	97.81	-5,565.54	1,738.93	5,919.40	5,868.01	51.39	115.175	
2,357.48	2,159.25	2,130.25	2,130.25	16.86	36.25	97.95	-5,565.54	1,738.93	5,926.59	5,873.67	52.92	111.995	
2,400.00	2,190.27	2,161.27	2,161.27	17.47	36.79	98.15	-5,565.54	1,738.93	5,932.12	5,878.07	54.05	109.755	
2,500.00	2,263.22	2,234.22	2,234.22	18.92	38.06	98.63	-5,565.54	1,738.93	5,945.67	5,888.96	56.71	104.838	
2,600.00	2,336.18	2,307.18	2,307.18	20.37	39.33	99.11	-5,565.54	1,738.93	5,959.98	5,900.60	59.38	100.370	
2,700.00	2,409.14	2,380.14	2,380.14	21.84	40.61	99.59	-5,565.54	1,738.93	5,975.04	5,912.99	62.05	96.299	
2,800.00	2,482.09	2,453.09	2,453.09	23.31	41.88	100.07	-5,565.54	1,738.93	5,990.84	5,926.13	64.71	92.577	
2,900.00	2,555.05	2,526.05	2,526.05	24.78	43.15	100.54	-5,565.54	1,738.93	6,007.37	5,940.00	67.37	89.165	
3,000.00	2,628.01	2,600.99	2,599.01	26.27	44.46	101.02	-5,565.54	1,738.93	6,024.64	5,954.58	70.06	85.987	
3,100.00	2,700.96	2,671.96	2,671.96	27.75	45.70	101.49	-5,565.54	1,738.93	6,042.63	5,969.95	72.68	83.139	
3,200.00	2,773.92	2,744.92	2,744.92	29.24	46.97	101.96	-5,565.54	1,738.93	6,061.34	5,986.02	75.32	80.470	
3,300.00	2,846.88	2,817.88	2,817.88	30.73	48.25	102.43	-5,565.54	1,738.93	6,080.76	6,002.80	77.96	77.998	
3,400.00	2,919.83	2,909.17	2,890.83	32.23	49.84	102.90	-5,565.54	1,738.93	6,100.89	6,019.98	80.91	75.405	
3,500.00	2,992.79	2,963.79	2,963.79	33.72	50.79	103.36	-5,565.54	1,738.93	6,121.72	6,038.51	83.21	73.572	
3,600.00	3,065.75	3,036.75	3,036.75	35.22	52.07	103.83	-5,565.54	1,738.93	6,143.23	6,057.41	85.82	71.585	
3,700.00	3,138.71	3,109.71	3,109.71	36.72	53.34	104.29	-5,565.54	1,738.93	6,165.43	6,077.01	88.42	69.732	
3,800.00	3,211.66	3,182.66	3,182.66	38.22	54.61	104.75	-5,565.54	1,738.93	6,188.31	6,097.30	91.01	67.999	
3,900.00	3,284.62	3,255.62	3,255.62	39.72	55.89	105.21	-5,565.54	1,738.93	6,211.85	6,118.27	93.58	66.377	
4,000.00	3,357.58	3,328.58	3,328.58	41.22	57.16	105.66	-5,565.54	1,738.93	6,236.06	6,139.90	96.15	64.857	
4,100.00	3,430.53	3,401.53	3,401.53	42.73	58.43	106.12	-5,565.54	1,738.93	6,260.91	6,162.21	98.71	63.429	
4,200.00	3,503.49	3,474.49	3,474.49	44.23	59.71	106.57	-5,565.54	1,738.93	6,286.42	6,185.17	101.25	62.087	
4,300.00	3,576.45	3,547.45	3,547.45	45.74	60.98	107.02	-5,565.54	1,738.93	6,312.56	6,208.78	103.78	60.824	
4,400.00	3,649.40	3,620.40	3,620.40	47.25	62.25	107.47	-5,565.54	1,738.93	6,339.33	6,233.03	106.31	59.633	
4,500.00	3,722.36	3,706.64	3,693.36	48.75	63.76	107.91	-5,565.54	1,738.93	6,366.73	6,257.68	109.05	58.386	
4,600.00	3,795.32	3,766.32	3,766.32	50.26	64.80	108.36	-5,565.54	1,738.93	6,394.74	6,283.43	111.31	57.450	
4,700.00	3,868.27	3,839.27	3,839.27	51.77	66.07	108.80	-5,565.54	1,738.93	6,423.35	6,309.56	113.79	56.448	
4,800.00	3,941.23	3,912.23	3,912.23	53.28	67.35	109.24	-5,565.54	1,738.93	6,452.56	6,336.30	116.26	55.499	
4,900.00	4,014.19	3,985.19	3,985.19	54.79	68.62	109.67	-5,565.54	1,738.93	6,482.37	6,363.64	118.72	54.601	
5,000.00	4,087.15	4,058.15	4,058.15	56.30	69.89	110.11	-5,565.54	1,738.93	6,512.75	6,391.58	121.17	53.750	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,160.10	4,131.10	4,131.10	57.81	71.17	110.54	-5,565.54	1,738.93	6,543.71	6,420.11	123.60	52.942	
5,200.00	4,233.06	4,204.06	4,204.06	59.32	72.44	110.97	-5,565.54	1,738.93	6,575.23	6,449.21	126.02	52.176	
5,300.00	4,306.02	4,277.02	4,277.02	60.83	73.71	111.40	-5,565.54	1,738.93	6,607.31	6,478.89	128.43	51.448	
5,400.00	4,378.97	4,349.97	4,349.97	62.34	74.99	111.82	-5,565.54	1,738.93	6,639.95	6,509.12	130.82	50.756	
5,500.00	4,451.93	4,422.93	4,422.93	63.85	76.26	112.24	-5,565.54	1,738.93	6,673.12	6,539.91	133.20	50.097	
5,600.00	4,524.89	4,504.11	4,495.89	65.36	77.68	112.66	-5,565.54	1,738.93	6,706.82	6,571.11	135.72	49.418	
5,700.00	4,597.84	4,568.84	4,568.84	66.88	78.81	113.08	-5,565.54	1,738.93	6,741.05	6,603.13	137.93	48.874	
5,800.00	4,670.80	4,641.80	4,641.80	68.39	80.08	113.49	-5,565.54	1,738.93	6,775.80	6,635.53	140.27	48.305	
5,900.00	4,743.76	4,714.76	4,714.76	69.90	81.35	113.90	-5,565.54	1,738.93	6,811.06	6,668.46	142.60	47.763	
6,000.00	4,816.71	4,787.71	4,787.71	71.41	82.63	114.31	-5,565.54	1,738.93	6,846.82	6,701.90	144.92	47.246	
6,100.00	4,889.67	4,860.67	4,860.67	72.93	83.90	114.72	-5,565.54	1,738.93	6,883.07	6,735.85	147.22	46.753	
6,200.00	4,962.63	4,933.63	4,933.63	74.44	85.17	115.12	-5,565.54	1,738.93	6,919.81	6,770.30	149.52	46.281	
6,300.00	5,035.59	5,006.59	5,006.59	75.95	86.45	115.53	-5,565.54	1,738.93	6,957.03	6,805.23	151.80	45.831	
6,400.00	5,108.54	5,079.54	5,079.54	77.47	87.72	115.92	-5,565.54	1,738.93	6,994.72	6,840.65	154.06	45.401	
6,500.00	5,181.50	5,125.00	5,125.00	78.98	88.51	116.17	-5,565.54	1,738.93	7,032.92	6,877.10	155.82	45.135	
6,600.00	5,254.46	5,125.00	5,125.00	80.49	88.51	116.17	-5,565.54	1,738.93	7,072.19	6,915.46	156.73	45.124	
6,700.00	5,327.41	5,125.00	5,125.00	82.01	88.51	116.17	-5,565.54	1,738.93	7,112.64	6,955.04	157.61	45.129	
6,800.00	5,400.37	5,125.00	5,125.00	83.52	88.51	116.17	-5,565.54	1,738.93	7,154.27	6,995.81	158.46	45.150	
6,900.00	5,473.33	5,125.00	5,125.00	85.04	88.51	116.17	-5,565.54	1,738.93	7,197.04	7,037.77	159.28	45.186	
7,000.00	5,546.28	5,125.00	5,125.00	86.55	88.51	116.17	-5,565.54	1,738.93	7,240.95	7,080.88	160.07	45.237	
7,100.00	5,619.24	5,125.00	5,125.00	88.06	88.51	116.17	-5,565.54	1,738.93	7,285.96	7,125.12	160.83	45.302	
7,200.00	5,692.20	5,125.00	5,125.00	89.58	88.51	116.17	-5,565.54	1,738.93	7,332.05	7,170.49	161.57	45.381	
7,300.00	5,765.15	5,125.00	5,125.00	91.09	88.51	116.17	-5,565.54	1,738.93	7,379.22	7,216.94	162.28	45.473	
7,400.00	5,838.11	5,125.00	5,125.00	92.61	88.51	116.17	-5,565.54	1,738.93	7,427.43	7,264.47	162.96	45.578	
7,500.00	5,911.07	5,125.00	5,125.00	94.12	88.51	116.17	-5,565.54	1,738.93	7,476.67	7,313.05	163.62	45.696	
7,600.00	5,984.03	5,125.00	5,125.00	95.64	88.51	116.17	-5,565.54	1,738.93	7,526.91	7,362.66	164.25	45.826	
7,700.00	6,056.98	5,125.00	5,125.00	97.15	88.51	116.17	-5,565.54	1,738.93	7,578.15	7,413.29	164.86	45.968	
7,800.00	6,129.94	5,125.00	5,125.00	98.67	88.51	116.17	-5,565.54	1,738.93	7,630.34	7,464.90	165.44	46.121	
7,900.00	6,202.90	5,125.00	5,125.00	100.18	88.51	116.17	-5,565.54	1,738.93	7,683.49	7,517.49	166.00	46.285	
8,000.00	6,275.85	5,125.00	5,125.00	101.70	88.51	116.17	-5,565.54	1,738.93	7,737.56	7,571.02	166.54	46.460	
8,100.00	6,348.81	5,125.00	5,125.00	103.21	88.51	116.17	-5,565.54	1,738.93	7,792.54	7,625.48	167.06	46.645	
8,200.00	6,421.77	5,125.00	5,125.00	104.73	88.51	116.17	-5,565.54	1,738.93	7,848.41	7,680.86	167.56	46.840	
8,300.00	6,494.72	5,125.00	5,125.00	106.24	88.51	116.17	-5,565.54	1,738.93	7,905.15	7,737.12	168.03	47.046	
8,400.00	6,567.68	5,125.00	5,125.00	107.76	88.51	116.17	-5,565.54	1,738.93	7,962.74	7,794.26	168.49	47.260	
8,500.00	6,640.64	5,125.00	5,125.00	109.27	88.51	116.17	-5,565.54	1,738.93	8,021.17	7,852.25	168.92	47.484	
8,600.00	6,713.59	5,125.00	5,125.00	110.79	88.51	116.17	-5,565.54	1,738.93	8,080.41	7,911.07	169.34	47.717	
8,700.00	6,786.55	5,125.00	5,125.00	112.30	88.51	116.17	-5,565.54	1,738.93	8,140.45	7,970.71	169.74	47.958	
8,800.00	6,859.51	5,125.00	5,125.00	113.82	88.51	116.17	-5,565.54	1,738.93	8,201.26	8,031.14	170.12	48.208	
8,900.00	6,932.46	5,125.00	5,125.00	115.33	88.51	116.17	-5,565.54	1,738.93	8,262.84	8,092.36	170.49	48.466	
9,000.00	7,005.42	5,125.00	5,125.00	116.85	88.51	116.17	-5,565.54	1,738.93	8,325.17	8,154.33	170.84	48.732	
9,104.89	7,081.95	5,125.00	5,125.00	118.44	88.51	116.17	-5,565.54	1,738.93	8,391.33	8,220.14	171.19	49.019	
9,150.00	7,115.15	5,125.00	5,125.00	119.12	88.51	110.78	-5,565.54	1,738.93	8,418.65	8,247.31	171.34	49.134	
9,200.00	7,152.46	5,125.00	5,125.00	119.86	88.51	104.69	-5,565.54	1,738.93	8,445.77	8,274.25	171.52	49.240	
9,250.00	7,190.04	5,125.00	5,125.00	120.57	88.51	98.57	-5,565.54	1,738.93	8,469.42	8,297.70	171.72	49.321	
9,300.00	7,227.59	5,125.00	5,125.00	121.25	88.51	92.55	-5,565.54	1,738.93	8,489.42	8,317.50	171.92	49.380	
9,350.00	7,264.83	5,125.00	5,125.00	121.89	88.51	86.79	-5,565.54	1,738.93	8,505.67	8,333.54	172.13	49.416	
9,400.00	7,301.48	5,125.00	5,125.00	122.48	88.51	81.38	-5,565.54	1,738.93	8,518.05	8,345.72	172.32	49.430	
9,450.00	7,337.26	5,125.00	5,125.00	123.01	88.51	76.42	-5,565.54	1,738.93	8,526.49	8,353.98	172.51	49.425	
9,500.00	7,371.90	5,125.00	5,125.00	123.49	88.51	71.97	-5,565.54	1,738.93	8,530.94	8,358.25	172.69	49.400	
9,550.00	7,405.13	5,125.00	5,125.00	123.91	88.51	68.04	-5,565.54	1,738.93	8,531.37	8,358.52	172.85	49.358	
9,600.00	7,436.70	5,125.00	5,125.00	124.27	88.51	64.63	-5,565.54	1,738.93	8,527.77	8,354.78	172.98	49.298	
9,650.00	7,466.36	5,125.00	5,125.00	124.57	88.51	61.72	-5,565.54	1,738.93	8,520.17	8,347.08	173.10	49.222	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,700.00	7,493.91	5,125.00	5,125.00	124.81	88.51	59.28	-5,565.54	1,738.93	8,508.62	8,335.44	173.19	49.130	
9,750.00	7,519.11	5,125.00	5,125.00	125.00	88.51	57.29	-5,565.54	1,738.93	8,493.19	8,319.94	173.25	49.024	
9,800.00	7,541.79	5,125.00	5,125.00	125.12	88.51	55.73	-5,565.54	1,738.93	8,473.97	8,300.69	173.28	48.902	
9,850.00	7,561.77	5,125.00	5,125.00	125.20	88.51	54.57	-5,565.54	1,738.93	8,451.09	8,277.80	173.30	48.767	
9,900.00	7,578.90	5,125.00	5,125.00	125.23	88.51	53.81	-5,565.54	1,738.93	8,424.69	8,251.41	173.28	48.618	
9,950.00	7,593.04	5,125.00	5,125.00	125.22	88.51	53.45	-5,565.54	1,738.93	8,394.94	8,221.69	173.25	48.455	
10,000.00	7,604.09	5,125.00	5,125.00	125.17	88.51	53.51	-5,565.54	1,738.93	8,362.03	8,188.83	173.21	48.278	
10,050.00	7,611.97	5,125.00	5,125.00	125.08	88.51	54.04	-5,565.54	1,738.93	8,326.18	8,153.03	173.14	48.088	
10,100.00	7,616.61	5,125.00	5,125.00	124.97	88.51	55.11	-5,565.54	1,738.93	8,287.62	8,114.54	173.07	47.885	
10,145.95	7,618.00	5,125.00	5,125.00	124.84	88.51	56.67	-5,565.54	1,738.93	8,250.01	8,077.01	173.01	47.686	
10,200.00	7,618.00	5,125.00	5,125.00	124.69	88.51	56.67	-5,565.54	1,738.93	8,204.70	8,031.78	172.92	47.447	
10,300.00	7,618.00	5,125.00	5,125.00	124.41	88.51	56.67	-5,565.54	1,738.93	8,121.15	7,948.38	172.77	47.006	
10,400.00	7,618.00	5,125.00	5,125.00	124.14	88.51	56.67	-5,565.54	1,738.93	8,037.97	7,865.36	172.61	46.568	
10,500.00	7,618.00	5,125.00	5,125.00	123.88	88.51	56.67	-5,565.54	1,738.93	7,955.18	7,782.73	172.45	46.131	
10,600.00	7,618.00	5,125.00	5,125.00	123.63	88.51	56.67	-5,565.54	1,738.93	7,872.79	7,700.50	172.28	45.696	
10,700.00	7,618.00	5,125.00	5,125.00	123.40	88.51	56.67	-5,565.54	1,738.93	7,790.81	7,618.69	172.12	45.264	
10,800.00	7,618.00	5,125.00	5,125.00	123.18	88.51	56.67	-5,565.54	1,738.93	7,709.25	7,537.30	171.95	44.833	
10,900.00	7,618.00	5,125.00	5,125.00	122.96	88.51	56.67	-5,565.54	1,738.93	7,628.14	7,456.35	171.79	44.405	
11,000.00	7,618.00	5,125.00	5,125.00	122.76	88.51	56.67	-5,565.54	1,738.93	7,547.48	7,375.86	171.62	43.979	
11,100.00	7,618.00	5,125.00	5,125.00	122.57	88.51	56.67	-5,565.54	1,738.93	7,467.28	7,295.84	171.44	43.555	
11,200.00	7,618.00	5,125.00	5,125.00	122.39	88.51	56.67	-5,565.54	1,738.93	7,387.57	7,216.30	171.27	43.134	
11,300.00	7,618.00	5,125.00	5,125.00	122.23	88.51	56.67	-5,565.54	1,738.93	7,308.36	7,137.27	171.10	42.715	
11,400.00	7,618.00	5,125.00	5,125.00	122.07	88.51	56.67	-5,565.54	1,738.93	7,229.66	7,058.75	170.92	42.299	
11,500.00	7,618.00	5,125.00	5,125.00	121.93	88.51	56.67	-5,565.54	1,738.93	7,151.50	6,980.76	170.74	41.885	
11,600.00	7,618.00	5,125.00	5,125.00	121.79	88.51	56.67	-5,565.54	1,738.93	7,073.89	6,903.33	170.56	41.474	
11,700.00	7,618.00	5,125.00	5,125.00	121.67	88.51	56.67	-5,565.54	1,738.93	6,996.84	6,826.46	170.38	41.066	
11,800.00	7,618.00	5,125.00	5,125.00	121.56	88.51	56.67	-5,565.54	1,738.93	6,920.38	6,750.18	170.20	40.661	
11,900.00	7,618.00	5,125.00	5,125.00	121.46	88.51	56.67	-5,565.54	1,738.93	6,844.53	6,674.52	170.01	40.259	
12,000.00	7,618.00	5,125.00	5,125.00	121.38	88.51	56.67	-5,565.54	1,738.93	6,769.31	6,599.48	169.83	39.859	
12,100.00	7,618.00	5,125.00	5,125.00	121.30	88.51	56.67	-5,565.54	1,738.93	6,694.73	6,525.08	169.64	39.463	
12,200.00	7,618.00	5,125.00	5,125.00	121.24	88.51	56.67	-5,565.54	1,738.93	6,620.82	6,451.36	169.46	39.070	
12,300.00	7,618.00	5,125.00	5,125.00	121.19	88.51	56.67	-5,565.54	1,738.93	6,547.61	6,378.34	169.27	38.681	
12,400.00	7,618.00	5,125.00	5,125.00	121.16	88.51	56.67	-5,565.54	1,738.93	6,475.12	6,306.03	169.09	38.294	
12,500.00	7,618.00	5,125.00	5,125.00	121.14	88.51	56.67	-5,565.54	1,738.93	6,403.36	6,234.46	168.90	37.912	
12,600.00	7,618.00	5,125.00	5,125.00	121.13	88.51	56.67	-5,565.54	1,738.93	6,332.37	6,163.66	168.72	37.532	
12,700.00	7,618.00	5,125.00	5,125.00	121.13	88.51	56.67	-5,565.54	1,738.93	6,262.18	6,093.64	168.53	37.157	
12,800.00	7,618.00	5,125.00	5,125.00	121.15	88.51	56.67	-5,565.54	1,738.93	6,192.80	6,024.45	168.35	36.785	
12,900.00	7,618.00	5,125.00	5,125.00	121.18	88.51	56.67	-5,565.54	1,738.93	6,124.27	5,956.10	168.17	36.418	
13,000.00	7,618.00	5,125.00	5,125.00	121.23	88.51	56.67	-5,565.54	1,738.93	6,056.62	5,888.63	167.99	36.054	
13,100.00	7,618.00	5,125.00	5,125.00	121.29	88.51	56.67	-5,565.54	1,738.93	5,989.87	5,822.06	167.81	35.694	
13,200.00	7,618.00	5,125.00	5,125.00	121.37	88.51	56.67	-5,565.54	1,738.93	5,924.05	5,756.42	167.63	35.339	
13,300.00	7,618.00	5,125.00	5,125.00	121.46	88.51	56.67	-5,565.54	1,738.93	5,859.21	5,691.75	167.46	34.988	
13,400.00	7,618.00	5,125.00	5,125.00	121.57	88.51	56.67	-5,565.54	1,738.93	5,795.36	5,628.07	167.29	34.642	
13,500.00	7,618.00	5,125.00	5,125.00	121.70	88.51	56.67	-5,565.54	1,738.93	5,732.55	5,565.42	167.13	34.300	
13,600.00	7,618.00	5,125.00	5,125.00	121.84	88.51	56.67	-5,565.54	1,738.93	5,670.81	5,503.84	166.97	33.963	
13,700.00	7,618.00	5,125.00	5,125.00	122.01	88.51	56.67	-5,565.54	1,738.93	5,610.17	5,443.35	166.82	33.631	
13,800.00	7,618.00	5,125.00	5,125.00	122.19	88.51	56.67	-5,565.54	1,738.93	5,550.66	5,383.99	166.67	33.303	
13,900.00	7,618.00	5,125.00	5,125.00	122.39	88.51	56.67	-5,565.54	1,738.93	5,492.34	5,325.81	166.53	32.981	
14,000.00	7,618.00	5,125.00	5,125.00	122.62	88.51	56.67	-5,565.54	1,738.93	5,435.23	5,268.83	166.39	32.665	
14,100.00	7,618.00	5,125.00	5,125.00	122.86	88.51	56.67	-5,565.54	1,738.93	5,379.37	5,213.10	166.27	32.353	
14,200.00	7,618.00	5,125.00	5,125.00	123.12	88.51	56.67	-5,565.54	1,738.93	5,324.80	5,158.65	166.15	32.048	
14,300.00	7,618.00	5,125.00	5,125.00	123.41	88.51	56.67	-5,565.54	1,738.93	5,271.57	5,105.52	166.05	31.748	

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

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			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
14,400.00	7,618.00	5,125.00	5,125.00	123.72	88.51	56.67	-5,565.54	1,738.93	5,219.70	5,053.75	165.95	31.453	
14,500.00	7,618.00	5,125.00	5,125.00	124.06	88.51	56.67	-5,565.54	1,738.93	5,169.26	5,003.39	165.87	31.165	
14,600.00	7,618.00	5,125.00	5,125.00	124.42	88.51	56.67	-5,565.54	1,738.93	5,120.27	4,954.47	165.79	30.883	
14,700.00	7,618.00	5,125.00	5,125.00	124.80	88.51	56.67	-5,565.54	1,738.93	5,072.78	4,907.04	165.74	30.608	
14,800.00	7,618.00	5,125.00	5,125.00	125.21	88.51	56.67	-5,565.54	1,738.93	5,026.82	4,861.13	165.69	30.339	
14,900.00	7,618.00	5,125.00	5,125.00	125.65	88.51	56.67	-5,565.54	1,738.93	4,982.46	4,816.80	165.66	30.076	
15,000.00	7,618.00	5,125.00	5,125.00	126.11	88.51	56.67	-5,565.54	1,738.93	4,939.71	4,774.07	165.65	29.821	
15,100.00	7,618.00	5,125.00	5,125.00	126.61	88.51	56.67	-5,565.54	1,738.93	4,898.64	4,732.99	165.65	29.572	
15,200.00	7,618.00	5,125.00	5,125.00	127.13	88.51	56.67	-5,565.54	1,738.93	4,859.28	4,693.61	165.67	29.331	
15,300.00	7,618.00	5,125.00	5,125.00	127.68	88.51	56.67	-5,565.54	1,738.93	4,821.67	4,655.96	165.71	29.097	
15,400.00	7,618.00	5,125.00	5,125.00	128.26	88.51	56.67	-5,565.54	1,738.93	4,785.86	4,620.09	165.77	28.871	
15,500.00	7,618.00	5,125.00	5,125.00	128.87	88.51	56.67	-5,565.54	1,738.93	4,751.88	4,586.03	165.84	28.653	
15,600.00	7,618.00	5,125.00	5,125.00	129.51	88.51	56.67	-5,565.54	1,738.93	4,719.77	4,553.83	165.94	28.442	
15,700.00	7,618.00	5,125.00	5,125.00	130.18	88.51	56.67	-5,565.54	1,738.93	4,689.58	4,523.52	166.06	28.240	
15,800.00	7,618.00	5,125.00	5,125.00	130.88	88.51	56.67	-5,565.54	1,738.93	4,661.34	4,495.13	166.20	28.046	
15,900.00	7,618.00	5,125.00	5,125.00	131.61	88.51	56.67	-5,565.54	1,738.93	4,635.08	4,468.71	166.37	27.861	
16,000.00	7,618.00	5,125.00	5,125.00	132.37	88.51	56.67	-5,565.54	1,738.93	4,610.84	4,444.29	166.55	27.684	
16,100.00	7,618.00	5,125.00	5,125.00	133.17	88.51	56.67	-5,565.54	1,738.93	4,588.66	4,421.90	166.76	27.517	
16,200.00	7,618.00	5,125.00	5,125.00	133.99	88.51	56.67	-5,565.54	1,738.93	4,568.55	4,401.57	166.99	27.359	
16,300.00	7,618.00	5,125.00	5,125.00	134.84	88.51	56.67	-5,565.54	1,738.93	4,550.56	4,383.32	167.24	27.210	
16,400.00	7,618.00	5,125.00	5,125.00	135.72	88.51	56.67	-5,565.54	1,738.93	4,534.70	4,367.19	167.51	27.070	
16,500.00	7,618.00	5,125.00	5,125.00	136.63	88.51	56.67	-5,565.54	1,738.93	4,521.00	4,353.19	167.81	26.941	
16,600.00	7,618.00	5,125.00	5,125.00	137.57	88.51	56.67	-5,565.54	1,738.93	4,509.47	4,341.34	168.13	26.821	
16,700.00	7,618.00	5,125.00	5,125.00	138.54	88.51	56.67	-5,565.54	1,738.93	4,500.14	4,331.67	168.47	26.712	
16,800.00	7,618.00	5,125.00	5,125.00	139.53	88.51	56.67	-5,565.54	1,738.93	4,493.01	4,324.18	168.83	26.613	
16,900.00	7,618.00	5,125.00	5,125.00	140.55	88.51	56.67	-5,565.54	1,738.93	4,488.10	4,318.90	169.20	26.525	
17,000.00	7,618.00	5,125.00	5,125.00	141.60	88.51	56.67	-5,565.54	1,738.93	4,485.42	4,315.82	169.60	26.447	
17,070.45	7,618.00	5,125.00	5,125.00	142.35	88.51	56.67	-5,565.54	1,738.93	4,484.86	4,314.97	169.89	26.399	CC
17,100.00	7,618.00	5,125.00	5,125.00	142.67	88.51	56.67	-5,565.54	1,738.93	4,484.96	4,314.95	170.01	26.380	ES
17,200.00	7,618.00	5,125.00	5,125.00	143.77	88.51	56.67	-5,565.54	1,738.93	4,486.73	4,316.29	170.44	26.324	
17,300.00	7,618.00	5,125.00	5,125.00	144.88	88.51	56.67	-5,565.54	1,738.93	4,490.73	4,319.85	170.89	26.279	
17,400.00	7,618.00	5,125.00	5,125.00	146.02	88.51	56.67	-5,565.54	1,738.93	4,496.95	4,325.61	171.35	26.245	
17,500.00	7,618.00	5,125.00	5,125.00	147.19	88.51	56.67	-5,565.54	1,738.93	4,505.39	4,333.57	171.81	26.222	
17,600.00	7,618.00	5,125.00	5,125.00	148.37	88.51	56.67	-5,565.54	1,738.93	4,516.02	4,343.72	172.29	26.211	SF
17,700.00	7,618.00	5,125.00	5,125.00	149.57	88.51	56.67	-5,565.54	1,738.93	4,528.83	4,356.05	172.78	26.211	
17,800.00	7,618.00	5,125.00	5,125.00	150.79	88.51	56.67	-5,565.54	1,738.93	4,543.81	4,370.53	173.28	26.222	
17,900.00	7,618.00	5,125.00	5,125.00	152.03	88.51	56.67	-5,565.54	1,738.93	4,560.94	4,387.16	173.78	26.245	
18,000.00	7,618.00	5,125.00	5,125.00	153.29	88.51	56.67	-5,565.54	1,738.93	4,580.18	4,405.89	174.29	26.279	
18,100.00	7,618.00	5,125.00	5,125.00	154.57	88.51	56.67	-5,565.54	1,738.93	4,601.52	4,426.72	174.80	26.325	
18,200.00	7,618.00	5,125.00	5,125.00	155.86	88.51	56.67	-5,565.54	1,738.93	4,624.92	4,449.61	175.31	26.382	
18,300.00	7,618.00	5,125.00	5,125.00	157.17	88.51	56.67	-5,565.54	1,738.93	4,650.35	4,474.53	175.82	26.450	
18,400.00	7,618.00	5,125.00	5,125.00	158.49	88.51	56.67	-5,565.54	1,738.93	4,677.79	4,501.46	176.33	26.529	
18,500.00	7,618.00	5,125.00	5,125.00	159.82	88.51	56.67	-5,565.54	1,738.93	4,707.19	4,530.35	176.84	26.619	
18,600.00	7,618.00	5,125.00	5,125.00	161.17	88.51	56.67	-5,565.54	1,738.93	4,738.51	4,561.18	177.34	26.720	
18,700.00	7,618.00	5,125.00	5,125.00	162.54	88.51	56.67	-5,565.54	1,738.93	4,771.73	4,593.90	177.84	26.832	
18,800.00	7,618.00	5,125.00	5,125.00	163.91	88.51	56.67	-5,565.54	1,738.93	4,806.80	4,628.47	178.33	26.955	
18,900.00	7,618.00	5,125.00	5,125.00	165.30	88.51	56.67	-5,565.54	1,738.93	4,843.68	4,664.87	178.81	27.088	
19,000.00	7,618.00	5,125.00	5,125.00	166.70	88.51	56.67	-5,565.54	1,738.93	4,882.33	4,703.04	179.29	27.231	
19,100.00	7,618.00	5,125.00	5,125.00	168.10	88.51	56.67	-5,565.54	1,738.93	4,922.71	4,742.95	179.76	27.385	
19,200.00	7,618.00	5,125.00	5,125.00	169.52	88.51	56.67	-5,565.54	1,738.93	4,964.77	4,784.55	180.22	27.548	
19,300.00	7,618.00	5,125.00	5,125.00	170.95	88.51	56.67	-5,565.54	1,738.93	5,008.48	4,827.81	180.67	27.722	
19,400.00	7,618.00	5,125.00	5,125.00	172.39	88.51	56.67	-5,565.54	1,738.93	5,053.79	4,872.68	181.11	27.905	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,500.00	7,618.00	5,125.00	5,125.00	173.84	88.51	56.67	-5,565.54	1,738.93	5,100.66	4,919.12	181.54	28.097	
19,600.00	7,618.00	5,125.00	5,125.00	175.30	88.51	56.67	-5,565.54	1,738.93	5,149.04	4,967.08	181.96	28.298	
19,700.00	7,618.00	5,125.00	5,125.00	176.76	88.51	56.67	-5,565.54	1,738.93	5,198.90	5,016.53	182.36	28.508	
19,800.00	7,618.00	5,125.00	5,125.00	178.24	88.51	56.67	-5,565.54	1,738.93	5,250.18	5,067.42	182.76	28.727	
19,896.19	7,618.00	5,125.00	5,125.00	179.66	88.51	56.67	-5,565.54	1,738.93	5,300.83	5,117.70	183.13	28.946	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	151.05	-5,536.99	3,063.07	6,327.84				
100.00	100.00	71.00	71.00	0.13	0.58	151.05	-5,536.99	3,063.07	6,327.77	6,327.06	0.71	8,904.227	
200.00	200.00	171.00	171.00	0.49	2.05	151.05	-5,536.99	3,063.07	6,327.77	6,325.23	2.54	2,487.663	
300.00	299.98	270.98	270.98	0.85	3.80	81.75	-5,536.99	3,063.07	6,327.52	6,322.88	4.64	1,362.783	
400.00	399.84	370.84	370.84	1.21	5.54	81.81	-5,536.99	3,063.07	6,326.77	6,320.03	6.74	938.089	
500.00	499.45	470.45	470.45	1.58	7.28	81.92	-5,536.99	3,063.07	6,325.53	6,316.68	8.85	714.415	
600.00	598.70	569.70	569.70	1.97	9.01	82.06	-5,536.99	3,063.07	6,323.82	6,312.85	10.98	576.168	
700.00	697.47	668.47	668.47	2.38	10.73	82.24	-5,536.99	3,063.07	6,321.66	6,308.55	13.11	482.101	
800.00	795.62	766.62	766.62	2.83	12.45	82.46	-5,536.99	3,063.07	6,319.07	6,303.80	15.27	413.843	
900.00	893.06	864.06	864.06	3.31	14.15	82.72	-5,536.99	3,063.07	6,316.10	6,298.65	17.45	361.977	
1,000.00	989.64	960.64	960.64	3.83	15.83	83.01	-5,536.99	3,063.07	6,312.77	6,293.11	19.65	321.179	
1,100.00	1,085.27	1,056.27	1,056.27	4.40	17.50	83.33	-5,536.99	3,063.07	6,309.14	6,287.25	21.89	288.214	
1,200.00	1,179.82	1,150.82	1,150.82	5.02	19.15	83.69	-5,536.99	3,063.07	6,305.25	6,281.09	24.16	261.001	
1,300.00	1,273.17	1,244.17	1,244.17	5.70	20.78	84.07	-5,536.99	3,063.07	6,301.16	6,274.70	26.46	238.144	
1,400.00	1,365.21	1,336.21	1,336.21	6.43	22.39	84.48	-5,536.99	3,063.07	6,296.93	6,268.13	28.80	218.668	
1,500.00	1,455.84	1,426.84	1,426.84	7.23	23.97	84.91	-5,536.99	3,063.07	6,292.63	6,261.45	31.17	201.872	
1,600.00	1,544.94	1,515.94	1,515.94	8.09	25.52	85.37	-5,536.99	3,063.07	6,288.31	6,254.73	33.58	187.241	
1,700.00	1,632.39	1,603.39	1,603.39	9.01	27.05	85.84	-5,536.99	3,063.07	6,284.07	6,248.03	36.04	174.385	
1,800.00	1,718.11	1,689.11	1,689.11	10.00	28.55	86.32	-5,536.99	3,063.07	6,279.97	6,241.44	38.53	163.005	
1,900.00	1,801.97	1,772.97	1,772.97	11.07	30.01	86.82	-5,536.99	3,063.07	6,276.09	6,235.03	41.06	152.867	
2,000.00	1,883.88	1,854.88	1,854.88	12.20	31.44	87.32	-5,536.99	3,063.07	6,272.51	6,228.89	43.62	143.787	
2,100.00	1,963.74	1,934.74	1,934.74	13.41	32.83	87.82	-5,536.99	3,063.07	6,269.32	6,223.09	46.23	135.614	
2,200.00	2,041.45	2,012.45	2,012.45	14.69	34.19	88.32	-5,536.99	3,063.07	6,266.59	6,217.72	48.87	128.228	
2,300.00	2,116.92	2,087.92	2,087.92	16.05	35.51	88.82	-5,536.99	3,063.07	6,264.43	6,212.88	51.55	121.528	
2,357.48	2,159.25	2,130.25	2,130.25	16.86	36.25	89.10	-5,536.99	3,063.07	6,263.47	6,210.37	53.10	117.958	
2,400.00	2,190.27	2,161.27	2,161.27	17.47	36.79	89.29	-5,536.99	3,063.07	6,262.91	6,208.66	54.25	115.441	
2,500.00	2,263.22	2,234.22	2,234.22	18.92	38.06	89.75	-5,536.99	3,063.07	6,262.12	6,205.15	56.97	109.911	
2,555.16	2,303.47	2,274.47	2,274.47	19.72	38.76	90.00	-5,536.99	3,063.07	6,262.01	6,203.53	58.48	107.077	
2,600.00	2,336.18	2,307.18	2,307.18	20.37	39.33	90.20	-5,536.99	3,063.07	6,262.08	6,202.38	59.71	104.882	
2,700.00	2,409.14	2,380.14	2,380.14	21.84	40.61	90.66	-5,536.99	3,063.07	6,262.79	6,200.35	62.44	100.295	
2,800.00	2,482.09	2,453.09	2,453.09	23.31	41.88	91.12	-5,536.99	3,063.07	6,264.25	6,199.06	65.19	96.097	
2,900.00	2,555.05	2,526.05	2,526.05	24.78	43.15	91.57	-5,536.99	3,063.07	6,266.45	6,198.52	67.93	92.247	
3,000.00	2,628.01	2,600.99	2,599.01	26.27	44.46	92.03	-5,536.99	3,063.07	6,269.39	6,198.68	70.71	88.660	
3,100.00	2,700.96	2,671.96	2,671.96	27.75	45.70	92.49	-5,536.99	3,063.07	6,273.08	6,199.66	73.42	85.436	
3,200.00	2,773.92	2,744.92	2,744.92	29.24	46.97	92.94	-5,536.99	3,063.07	6,277.52	6,201.35	76.17	82.415	
3,300.00	2,846.88	2,817.88	2,817.88	30.73	48.25	93.40	-5,536.99	3,063.07	6,282.69	6,203.78	78.91	79.615	
3,400.00	2,919.83	2,909.17	2,890.83	32.23	49.84	93.85	-5,536.99	3,063.07	6,288.61	6,206.63	81.97	76.715	
3,500.00	2,992.79	2,963.79	2,963.79	33.72	50.79	94.31	-5,536.99	3,063.07	6,295.26	6,210.87	84.39	74.597	
3,600.00	3,065.75	3,036.75	3,036.75	35.22	52.07	94.76	-5,536.99	3,063.07	6,302.65	6,215.52	87.12	72.342	
3,700.00	3,138.71	3,109.71	3,109.71	36.72	53.34	95.21	-5,536.99	3,063.07	6,310.77	6,220.92	89.85	70.236	
3,800.00	3,211.66	3,182.66	3,182.66	38.22	54.61	95.66	-5,536.99	3,063.07	6,319.62	6,227.04	92.57	68.267	
3,900.00	3,284.62	3,255.62	3,255.62	39.72	55.89	96.12	-5,536.99	3,063.07	6,329.19	6,233.90	95.29	66.421	
4,000.00	3,357.58	3,328.58	3,328.58	41.22	57.16	96.57	-5,536.99	3,063.07	6,339.49	6,241.49	98.00	64.690	
4,100.00	3,430.53	3,401.53	3,401.53	42.73	58.43	97.02	-5,536.99	3,063.07	6,350.51	6,249.81	100.70	63.064	
4,200.00	3,503.49	3,474.49	3,474.49	44.23	59.71	97.47	-5,536.99	3,063.07	6,362.25	6,258.85	103.39	61.534	
4,300.00	3,576.45	3,547.45	3,547.45	45.74	60.98	97.92	-5,536.99	3,063.07	6,374.69	6,268.61	106.08	60.093	
4,400.00	3,649.40	3,620.40	3,620.40	47.25	62.25	98.36	-5,536.99	3,063.07	6,387.85	6,279.09	108.76	58.735	
4,500.00	3,722.36	3,706.64	3,693.36	48.75	63.76	98.81	-5,536.99	3,063.07	6,401.71	6,290.05	111.66	57.333	
4,600.00	3,795.32	3,766.32	3,766.32	50.26	64.80	99.25	-5,536.99	3,063.07	6,416.27	6,302.18	114.09	56.241	
4,700.00	3,868.27	3,839.27	3,839.27	51.77	66.07	99.70	-5,536.99	3,063.07	6,431.52	6,314.79	116.73	55.095	
4,800.00	3,941.23	3,912.23	3,912.23	53.28	67.35	100.14	-5,536.99	3,063.07	6,447.46	6,328.09	119.37	54.010	
4,900.00	4,014.19	3,985.19	3,985.19	54.79	68.62	100.58	-5,536.99	3,063.07	6,464.09	6,342.08	122.00	52.983	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,000.00	4,087.15	4,058.15	4,058.15	56.30	69.89	101.02	-5,536.99	3,063.07	6,481.39	6,356.77	124.62	52.008	
5,100.00	4,160.10	4,131.10	4,131.10	57.81	71.17	101.46	-5,536.99	3,063.07	6,499.37	6,372.14	127.23	51.084	
5,200.00	4,233.06	4,204.06	4,204.06	59.32	72.44	101.90	-5,536.99	3,063.07	6,518.02	6,388.19	129.83	50.206	
5,300.00	4,306.02	4,277.02	4,277.02	60.83	73.71	102.34	-5,536.99	3,063.07	6,537.33	6,404.92	132.41	49.371	
5,400.00	4,378.97	4,349.97	4,349.97	62.34	74.99	102.77	-5,536.99	3,063.07	6,557.30	6,422.31	134.98	48.578	
5,500.00	4,451.93	4,422.93	4,422.93	63.85	76.26	103.21	-5,536.99	3,063.07	6,577.91	6,440.37	137.55	47.823	
5,600.00	4,524.89	4,504.11	4,495.89	65.36	77.68	103.64	-5,536.99	3,063.07	6,599.17	6,458.93	140.24	47.057	
5,700.00	4,597.84	4,568.84	4,568.84	66.88	78.81	104.07	-5,536.99	3,063.07	6,621.07	6,478.44	142.63	46.420	
5,800.00	4,670.80	4,641.80	4,641.80	68.39	80.08	104.50	-5,536.99	3,063.07	6,643.60	6,498.44	145.16	45.768	
5,900.00	4,743.76	4,714.76	4,714.76	69.90	81.35	104.92	-5,536.99	3,063.07	6,666.76	6,519.09	147.67	45.146	
6,000.00	4,816.71	4,787.71	4,787.71	71.41	82.63	105.35	-5,536.99	3,063.07	6,690.53	6,540.36	150.17	44.553	
6,100.00	4,889.67	4,860.67	4,860.67	72.93	83.90	105.77	-5,536.99	3,063.07	6,714.92	6,562.26	152.66	43.987	
6,200.00	4,962.63	4,933.63	4,933.63	74.44	85.17	106.19	-5,536.99	3,063.07	6,739.91	6,584.78	155.13	43.447	
6,300.00	5,035.59	5,006.59	5,006.59	75.95	86.45	106.61	-5,536.99	3,063.07	6,765.51	6,607.91	157.59	42.930	
6,400.00	5,108.54	5,079.54	5,079.54	77.47	87.72	107.03	-5,536.99	3,063.07	6,791.69	6,631.65	160.04	42.437	
6,500.00	5,181.50	5,152.50	5,152.50	78.98	88.99	107.45	-5,536.99	3,063.07	6,818.46	6,655.99	162.48	41.966	
6,600.00	5,254.46	5,148.00	5,148.00	80.49	88.92	107.42	-5,536.99	3,063.07	6,846.25	6,682.75	163.50	41.873	
6,700.00	5,327.41	5,148.00	5,148.00	82.01	88.92	107.42	-5,536.99	3,063.07	6,875.38	6,710.80	164.57	41.777	
6,800.00	5,400.37	5,148.00	5,148.00	83.52	88.92	107.42	-5,536.99	3,063.07	6,905.83	6,740.22	165.61	41.698	
6,900.00	5,473.33	5,148.00	5,148.00	85.04	88.92	107.42	-5,536.99	3,063.07	6,937.59	6,770.97	166.62	41.637	
7,000.00	5,546.28	5,148.00	5,148.00	86.55	88.92	107.42	-5,536.99	3,063.07	6,970.64	6,803.04	167.60	41.592	
7,100.00	5,619.24	5,148.00	5,148.00	88.06	88.92	107.42	-5,536.99	3,063.07	7,004.96	6,836.42	168.54	41.563	
7,200.00	5,692.20	5,148.00	5,148.00	89.58	88.92	107.42	-5,536.99	3,063.07	7,040.54	6,871.09	169.45	41.549	
7,300.00	5,765.15	5,148.00	5,148.00	91.09	88.92	107.42	-5,536.99	3,063.07	7,077.35	6,907.02	170.33	41.550	
7,400.00	5,838.11	5,148.00	5,148.00	92.61	88.92	107.42	-5,536.99	3,063.07	7,115.37	6,944.19	171.18	41.566	
7,500.00	5,911.07	5,148.00	5,148.00	94.12	88.92	107.42	-5,536.99	3,063.07	7,154.60	6,982.59	172.00	41.596	
7,600.00	5,984.03	5,148.00	5,148.00	95.64	88.92	107.42	-5,536.99	3,063.07	7,194.99	7,022.20	172.79	41.640	
7,700.00	6,056.98	5,148.00	5,148.00	97.15	88.92	107.42	-5,536.99	3,063.07	7,236.55	7,063.00	173.55	41.697	
7,800.00	6,129.94	5,148.00	5,148.00	98.67	88.92	107.42	-5,536.99	3,063.07	7,279.24	7,104.96	174.28	41.767	
7,900.00	6,202.90	5,148.00	5,148.00	100.18	88.92	107.42	-5,536.99	3,063.07	7,323.04	7,148.06	174.98	41.850	
8,000.00	6,275.85	5,148.00	5,148.00	101.70	88.92	107.42	-5,536.99	3,063.07	7,367.95	7,192.29	175.66	41.945	
8,100.00	6,348.81	5,148.00	5,148.00	103.21	88.92	107.42	-5,536.99	3,063.07	7,413.93	7,237.62	176.31	42.052	
8,200.00	6,421.77	5,148.00	5,148.00	104.73	88.92	107.42	-5,536.99	3,063.07	7,460.96	7,284.04	176.93	42.170	
8,300.00	6,494.72	5,148.00	5,148.00	106.24	88.92	107.42	-5,536.99	3,063.07	7,509.04	7,331.52	177.52	42.299	
8,400.00	6,567.68	5,148.00	5,148.00	107.76	88.92	107.42	-5,536.99	3,063.07	7,558.13	7,380.04	178.09	42.439	
8,500.00	6,640.64	5,148.00	5,148.00	109.27	88.92	107.42	-5,536.99	3,063.07	7,608.22	7,429.58	178.64	42.590	
8,600.00	6,713.59	5,148.00	5,148.00	110.79	88.92	107.42	-5,536.99	3,063.07	7,659.29	7,480.13	179.16	42.751	
8,700.00	6,786.55	5,148.00	5,148.00	112.30	88.92	107.42	-5,536.99	3,063.07	7,711.32	7,531.66	179.66	42.922	
8,800.00	6,859.51	5,148.00	5,148.00	113.82	88.92	107.42	-5,536.99	3,063.07	7,764.28	7,584.15	180.14	43.102	
8,900.00	6,932.46	5,148.00	5,148.00	115.33	88.92	107.42	-5,536.99	3,063.07	7,818.17	7,637.58	180.59	43.292	
9,000.00	7,005.42	5,148.00	5,148.00	116.85	88.92	107.42	-5,536.99	3,063.07	7,872.96	7,691.93	181.02	43.491	
9,104.89	7,081.95	5,148.00	5,148.00	118.44	88.92	107.42	-5,536.99	3,063.07	7,931.37	7,749.91	181.46	43.709	
9,150.00	7,115.15	5,148.00	5,148.00	119.12	88.92	102.56	-5,536.99	3,063.07	7,955.30	7,773.65	181.64	43.797	
9,200.00	7,152.46	5,148.00	5,148.00	119.86	88.92	96.93	-5,536.99	3,063.07	7,978.44	7,796.59	181.86	43.872	
9,250.00	7,190.04	5,148.00	5,148.00	120.57	88.92	91.18	-5,536.99	3,063.07	7,997.90	7,815.83	182.07	43.926	
9,300.00	7,227.59	5,148.00	5,148.00	121.25	88.92	85.46	-5,536.99	3,063.07	8,013.56	7,831.26	182.29	43.960	
9,350.00	7,264.83	5,148.00	5,148.00	121.89	88.92	79.91	-5,536.99	3,063.07	8,025.31	7,842.80	182.51	43.973	
9,400.00	7,301.48	5,148.00	5,148.00	122.48	88.92	74.67	-5,536.99	3,063.07	8,033.08	7,850.37	182.71	43.967	
9,450.00	7,337.26	5,148.00	5,148.00	123.01	88.92	69.83	-5,536.99	3,063.07	8,036.83	7,853.94	182.89	43.943	
9,500.00	7,371.90	5,148.00	5,148.00	123.49	88.92	65.44	-5,536.99	3,063.07	8,036.53	7,853.48	183.05	43.903	
9,550.00	7,405.13	5,148.00	5,148.00	123.91	88.92	61.52	-5,536.99	3,063.07	8,032.19	7,849.00	183.19	43.845	
9,600.00	7,436.70	5,148.00	5,148.00	124.27	88.92	58.08	-5,536.99	3,063.07	8,023.83	7,840.52	183.31	43.773	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	5,148.00	5,148.00	124.57	88.92	55.10	-5,536.99	3,063.07	8,011.50	7,828.11	183.39	43.685	
9,700.00	7,493.91	5,148.00	5,148.00	124.81	88.92	52.54	-5,536.99	3,063.07	7,995.29	7,811.84	183.45	43.583	
9,750.00	7,519.11	5,148.00	5,148.00	125.00	88.92	50.37	-5,536.99	3,063.07	7,975.28	7,791.80	183.48	43.467	
9,800.00	7,541.79	5,148.00	5,148.00	125.12	88.92	48.57	-5,536.99	3,063.07	7,951.60	7,768.12	183.48	43.337	
9,850.00	7,561.77	5,148.00	5,148.00	125.20	88.92	47.11	-5,536.99	3,063.07	7,924.41	7,740.95	183.46	43.194	
9,900.00	7,578.90	5,148.00	5,148.00	125.23	88.92	45.96	-5,536.99	3,063.07	7,893.87	7,710.45	183.41	43.039	
9,950.00	7,593.04	5,148.00	5,148.00	125.22	88.92	45.12	-5,536.99	3,063.07	7,860.18	7,676.83	183.35	42.870	
10,000.00	7,604.09	5,148.00	5,148.00	125.17	88.92	44.57	-5,536.99	3,063.07	7,823.55	7,640.28	183.27	42.689	
10,050.00	7,611.97	5,148.00	5,148.00	125.08	88.92	44.32	-5,536.99	3,063.07	7,784.23	7,601.05	183.18	42.495	
10,100.00	7,616.61	5,148.00	5,148.00	124.97	88.92	44.40	-5,536.99	3,063.07	7,742.47	7,559.39	183.08	42.289	
10,145.95	7,618.00	5,148.00	5,148.00	124.84	88.92	44.79	-5,536.99	3,063.07	7,702.19	7,519.19	182.99	42.090	
10,200.00	7,618.00	5,148.00	5,148.00	124.69	88.92	44.79	-5,536.99	3,063.07	7,653.87	7,470.98	182.89	41.850	
10,300.00	7,618.00	5,148.00	5,148.00	124.41	88.92	44.79	-5,536.99	3,063.07	7,564.67	7,381.98	182.69	41.408	
10,400.00	7,618.00	5,148.00	5,148.00	124.14	88.92	44.79	-5,536.99	3,063.07	7,475.74	7,293.26	182.48	40.967	
10,500.00	7,618.00	5,148.00	5,148.00	123.88	88.92	44.79	-5,536.99	3,063.07	7,387.10	7,204.83	182.27	40.529	
10,600.00	7,618.00	5,148.00	5,148.00	123.63	88.92	44.79	-5,536.99	3,063.07	7,298.75	7,116.70	182.05	40.093	
10,700.00	7,618.00	5,148.00	5,148.00	123.40	88.92	44.79	-5,536.99	3,063.07	7,210.70	7,028.88	181.82	39.659	
10,800.00	7,618.00	5,148.00	5,148.00	123.18	88.92	44.79	-5,536.99	3,063.07	7,122.97	6,941.39	181.59	39.227	
10,900.00	7,618.00	5,148.00	5,148.00	122.96	88.92	44.79	-5,536.99	3,063.07	7,035.57	6,854.23	181.34	38.797	
11,000.00	7,618.00	5,148.00	5,148.00	122.76	88.92	44.79	-5,536.99	3,063.07	6,948.51	6,767.41	181.09	38.370	
11,100.00	7,618.00	5,148.00	5,148.00	122.57	88.92	44.79	-5,536.99	3,063.07	6,861.80	6,680.96	180.84	37.945	
11,200.00	7,618.00	5,148.00	5,148.00	122.39	88.92	44.79	-5,536.99	3,063.07	6,775.45	6,594.88	180.57	37.522	
11,300.00	7,618.00	5,148.00	5,148.00	122.23	88.92	44.79	-5,536.99	3,063.07	6,689.49	6,509.19	180.30	37.103	
11,400.00	7,618.00	5,148.00	5,148.00	122.07	88.92	44.79	-5,536.99	3,063.07	6,603.92	6,423.91	180.01	36.686	
11,500.00	7,618.00	5,148.00	5,148.00	121.93	88.92	44.79	-5,536.99	3,063.07	6,518.77	6,339.05	179.72	36.272	
11,600.00	7,618.00	5,148.00	5,148.00	121.79	88.92	44.79	-5,536.99	3,063.07	6,434.04	6,254.62	179.42	35.861	
11,700.00	7,618.00	5,148.00	5,148.00	121.67	88.92	44.79	-5,536.99	3,063.07	6,349.75	6,170.65	179.10	35.453	
11,800.00	7,618.00	5,148.00	5,148.00	121.56	88.92	44.79	-5,536.99	3,063.07	6,265.93	6,087.14	178.78	35.048	
11,900.00	7,618.00	5,148.00	5,148.00	121.46	88.92	44.79	-5,536.99	3,063.07	6,182.58	6,004.14	178.45	34.647	
12,000.00	7,618.00	5,148.00	5,148.00	121.38	88.92	44.79	-5,536.99	3,063.07	6,099.74	5,921.64	178.10	34.249	
12,100.00	7,618.00	5,148.00	5,148.00	121.30	88.92	44.79	-5,536.99	3,063.07	6,017.42	5,839.68	177.74	33.855	
12,200.00	7,618.00	5,148.00	5,148.00	121.24	88.92	44.79	-5,536.99	3,063.07	5,935.64	5,758.27	177.37	33.464	
12,300.00	7,618.00	5,148.00	5,148.00	121.19	88.92	44.79	-5,536.99	3,063.07	5,854.43	5,677.44	176.99	33.078	
12,400.00	7,618.00	5,148.00	5,148.00	121.16	88.92	44.79	-5,536.99	3,063.07	5,773.81	5,597.21	176.60	32.695	
12,500.00	7,618.00	5,148.00	5,148.00	121.14	88.92	44.79	-5,536.99	3,063.07	5,693.80	5,517.62	176.19	32.317	
12,600.00	7,618.00	5,148.00	5,148.00	121.13	88.92	44.79	-5,536.99	3,063.07	5,614.44	5,438.67	175.76	31.943	
12,700.00	7,618.00	5,148.00	5,148.00	121.13	88.92	44.79	-5,536.99	3,063.07	5,535.74	5,360.41	175.33	31.574	
12,800.00	7,618.00	5,148.00	5,148.00	121.15	88.92	44.79	-5,536.99	3,063.07	5,457.74	5,282.87	174.87	31.209	
12,900.00	7,618.00	5,148.00	5,148.00	121.18	88.92	44.79	-5,536.99	3,063.07	5,380.47	5,206.06	174.41	30.850	
13,000.00	7,618.00	5,148.00	5,148.00	121.23	88.92	44.79	-5,536.99	3,063.07	5,303.96	5,130.03	173.92	30.496	
13,100.00	7,618.00	5,148.00	5,148.00	121.29	88.92	44.79	-5,536.99	3,063.07	5,228.24	5,054.81	173.42	30.147	
13,200.00	7,618.00	5,148.00	5,148.00	121.37	88.92	44.79	-5,536.99	3,063.07	5,153.35	4,980.44	172.91	29.804	
13,300.00	7,618.00	5,148.00	5,148.00	121.46	88.92	44.79	-5,536.99	3,063.07	5,079.32	4,906.94	172.38	29.466	
13,400.00	7,618.00	5,148.00	5,148.00	121.57	88.92	44.79	-5,536.99	3,063.07	5,006.20	4,834.37	171.83	29.135	
13,500.00	7,618.00	5,148.00	5,148.00	121.70	88.92	44.79	-5,536.99	3,063.07	4,934.01	4,762.75	171.26	28.810	
13,600.00	7,618.00	5,148.00	5,148.00	121.84	88.92	44.79	-5,536.99	3,063.07	4,862.82	4,692.14	170.68	28.491	
13,700.00	7,618.00	5,148.00	5,148.00	122.01	88.92	44.79	-5,536.99	3,063.07	4,792.65	4,622.58	170.08	28.180	
13,800.00	7,618.00	5,148.00	5,148.00	122.19	88.92	44.79	-5,536.99	3,063.07	4,723.56	4,554.10	169.46	27.875	
13,900.00	7,618.00	5,148.00	5,148.00	122.39	88.92	44.79	-5,536.99	3,063.07	4,655.59	4,486.77	168.82	27.577	
14,000.00	7,618.00	5,148.00	5,148.00	122.62	88.92	44.79	-5,536.99	3,063.07	4,588.80	4,420.63	168.17	27.287	
14,100.00	7,618.00	5,148.00	5,148.00	122.86	88.92	44.79	-5,536.99	3,063.07	4,523.22	4,355.73	167.50	27.005	
14,200.00	7,618.00	5,148.00	5,148.00	123.12	88.92	44.79	-5,536.99	3,063.07	4,458.93	4,292.12	166.81	26.731	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	5,148.00	5,148.00	123.41	88.92	44.79	-5,536.99	3,063.07	4,395.97	4,229.86	166.11	26.465	
14,400.00	7,618.00	5,148.00	5,148.00	123.72	88.92	44.79	-5,536.99	3,063.07	4,334.41	4,169.02	165.39	26.207	
14,500.00	7,618.00	5,148.00	5,148.00	124.06	88.92	44.79	-5,536.99	3,063.07	4,274.30	4,109.63	164.66	25.958	
14,600.00	7,618.00	5,148.00	5,148.00	124.42	88.92	44.79	-5,536.99	3,063.07	4,215.70	4,051.78	163.92	25.718	
14,700.00	7,618.00	5,148.00	5,148.00	124.80	88.92	44.79	-5,536.99	3,063.07	4,158.68	3,995.51	163.17	25.487	
14,800.00	7,618.00	5,148.00	5,148.00	125.21	88.92	44.79	-5,536.99	3,063.07	4,103.31	3,940.90	162.41	25.266	
14,900.00	7,618.00	5,148.00	5,148.00	125.65	88.92	44.79	-5,536.99	3,063.07	4,049.65	3,888.01	161.64	25.054	
15,000.00	7,618.00	5,148.00	5,148.00	126.11	88.92	44.79	-5,536.99	3,063.07	3,997.77	3,836.90	160.87	24.851	
15,100.00	7,618.00	5,148.00	5,148.00	126.61	88.92	44.79	-5,536.99	3,063.07	3,947.74	3,787.65	160.10	24.659	
15,200.00	7,618.00	5,148.00	5,148.00	127.13	88.92	44.79	-5,536.99	3,063.07	3,899.64	3,740.31	159.33	24.476	
15,300.00	7,618.00	5,148.00	5,148.00	127.68	88.92	44.79	-5,536.99	3,063.07	3,853.53	3,694.96	158.56	24.303	
15,400.00	7,618.00	5,148.00	5,148.00	128.26	88.92	44.79	-5,536.99	3,063.07	3,809.49	3,651.68	157.81	24.139	
15,500.00	7,618.00	5,148.00	5,148.00	128.87	88.92	44.79	-5,536.99	3,063.07	3,767.59	3,610.51	157.07	23.986	
15,600.00	7,618.00	5,148.00	5,148.00	129.51	88.92	44.79	-5,536.99	3,063.07	3,727.90	3,571.54	156.36	23.842	
15,700.00	7,618.00	5,148.00	5,148.00	130.18	88.92	44.79	-5,536.99	3,063.07	3,690.49	3,534.83	155.66	23.708	
15,800.00	7,618.00	5,148.00	5,148.00	130.88	88.92	44.79	-5,536.99	3,063.07	3,655.44	3,500.44	155.00	23.584	
15,900.00	7,618.00	5,148.00	5,148.00	131.61	88.92	44.79	-5,536.99	3,063.07	3,622.81	3,468.44	154.37	23.468	
16,000.00	7,618.00	5,148.00	5,148.00	132.37	88.92	44.79	-5,536.99	3,063.07	3,592.67	3,438.88	153.78	23.362	
16,100.00	7,618.00	5,148.00	5,148.00	133.17	88.92	44.79	-5,536.99	3,063.07	3,565.08	3,411.83	153.24	23.264	
16,200.00	7,618.00	5,148.00	5,148.00	133.99	88.92	44.79	-5,536.99	3,063.07	3,540.09	3,387.34	152.75	23.175	
16,300.00	7,618.00	5,148.00	5,148.00	134.84	88.92	44.79	-5,536.99	3,063.07	3,517.78	3,365.46	152.32	23.094	
16,400.00	7,618.00	5,148.00	5,148.00	135.72	88.92	44.79	-5,536.99	3,063.07	3,498.18	3,346.23	151.96	23.021	
16,500.00	7,618.00	5,148.00	5,148.00	136.63	88.92	44.79	-5,536.99	3,063.07	3,481.35	3,329.69	151.66	22.955	
16,600.00	7,618.00	5,148.00	5,148.00	137.57	88.92	44.79	-5,536.99	3,063.07	3,467.32	3,315.89	151.43	22.897	
16,700.00	7,618.00	5,148.00	5,148.00	138.54	88.92	44.79	-5,536.99	3,063.07	3,456.13	3,304.85	151.28	22.847	
16,800.00	7,618.00	5,148.00	5,148.00	139.53	88.92	44.79	-5,536.99	3,063.07	3,447.80	3,296.60	151.20	22.803	
16,900.00	7,618.00	5,148.00	5,148.00	140.55	88.92	44.79	-5,536.99	3,063.07	3,442.36	3,291.16	151.20	22.766	
17,000.00	7,618.00	5,148.00	5,148.00	141.60	88.92	44.79	-5,536.99	3,063.07	3,439.82	3,288.53	151.29	22.737	
17,037.45	7,618.00	5,148.00	5,148.00	142.00	88.92	44.79	-5,536.99	3,063.07	3,439.61	3,288.27	151.34	22.728	CC, ES
17,100.00	7,618.00	5,148.00	5,148.00	142.67	88.92	44.79	-5,536.99	3,063.07	3,440.18	3,288.73	151.45	22.714	
17,200.00	7,618.00	5,148.00	5,148.00	143.77	88.92	44.79	-5,536.99	3,063.07	3,443.45	3,291.75	151.70	22.699	
17,300.00	7,618.00	5,148.00	5,148.00	144.88	88.92	44.79	-5,536.99	3,063.07	3,449.62	3,297.60	152.02	22.692	SF
17,400.00	7,618.00	5,148.00	5,148.00	146.02	88.92	44.79	-5,536.99	3,063.07	3,458.67	3,306.25	152.42	22.692	
17,500.00	7,618.00	5,148.00	5,148.00	147.19	88.92	44.79	-5,536.99	3,063.07	3,470.58	3,317.69	152.89	22.700	
17,600.00	7,618.00	5,148.00	5,148.00	148.37	88.92	44.79	-5,536.99	3,063.07	3,485.31	3,331.89	153.42	22.717	
17,700.00	7,618.00	5,148.00	5,148.00	149.57	88.92	44.79	-5,536.99	3,063.07	3,502.84	3,348.82	154.02	22.743	
17,800.00	7,618.00	5,148.00	5,148.00	150.79	88.92	44.79	-5,536.99	3,063.07	3,523.13	3,368.45	154.68	22.778	
17,900.00	7,618.00	5,148.00	5,148.00	152.03	88.92	44.79	-5,536.99	3,063.07	3,546.12	3,390.74	155.38	22.822	
18,000.00	7,618.00	5,148.00	5,148.00	153.29	88.92	44.79	-5,536.99	3,063.07	3,571.76	3,415.63	156.13	22.877	
18,100.00	7,618.00	5,148.00	5,148.00	154.57	88.92	44.79	-5,536.99	3,063.07	3,599.99	3,443.08	156.92	22.942	
18,200.00	7,618.00	5,148.00	5,148.00	155.86	88.92	44.79	-5,536.99	3,063.07	3,630.77	3,473.03	157.74	23.017	
18,300.00	7,618.00	5,148.00	5,148.00	157.17	88.92	44.79	-5,536.99	3,063.07	3,664.01	3,505.42	158.59	23.104	
18,400.00	7,618.00	5,148.00	5,148.00	158.49	88.92	44.79	-5,536.99	3,063.07	3,699.66	3,540.20	159.46	23.202	
18,500.00	7,618.00	5,148.00	5,148.00	159.82	88.92	44.79	-5,536.99	3,063.07	3,737.65	3,577.31	160.34	23.311	
18,600.00	7,618.00	5,148.00	5,148.00	161.17	88.92	44.79	-5,536.99	3,063.07	3,777.90	3,616.66	161.24	23.431	
18,700.00	7,618.00	5,148.00	5,148.00	162.54	88.92	44.79	-5,536.99	3,063.07	3,820.34	3,658.21	162.14	23.562	
18,800.00	7,618.00	5,148.00	5,148.00	163.91	88.92	44.79	-5,536.99	3,063.07	3,864.91	3,701.87	163.04	23.705	
18,900.00	7,618.00	5,148.00	5,148.00	165.30	88.92	44.79	-5,536.99	3,063.07	3,911.53	3,747.59	163.94	23.860	
19,000.00	7,618.00	5,148.00	5,148.00	166.70	88.92	44.79	-5,536.99	3,063.07	3,960.12	3,795.29	164.83	24.025	
19,100.00	7,618.00	5,148.00	5,148.00	168.10	88.92	44.79	-5,536.99	3,063.07	4,010.62	3,844.90	165.72	24.202	
19,200.00	7,618.00	5,148.00	5,148.00	169.52	88.92	44.79	-5,536.99	3,063.07	4,062.95	3,896.36	166.59	24.389	
19,300.00	7,618.00	5,148.00	5,148.00	170.95	88.92	44.79	-5,536.99	3,063.07	4,117.05	3,949.60	167.45	24.587	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	5,148.00	5,148.00	172.39	88.92	44.79	-5,536.99	3,063.07	4,172.84	4,004.55	168.29	24.796	
19,500.00	7,618.00	5,148.00	5,148.00	173.84	88.92	44.79	-5,536.99	3,063.07	4,230.26	4,061.15	169.11	25.014	
19,600.00	7,618.00	5,148.00	5,148.00	175.30	88.92	44.79	-5,536.99	3,063.07	4,289.24	4,119.32	169.92	25.243	
19,700.00	7,618.00	5,148.00	5,148.00	176.76	88.92	44.79	-5,536.99	3,063.07	4,349.73	4,179.02	170.71	25.481	
19,800.00	7,618.00	5,148.00	5,148.00	178.24	88.92	44.79	-5,536.99	3,063.07	4,411.65	4,240.18	171.47	25.728	
19,896.19	7,618.00	5,148.00	5,148.00	179.66	88.92	44.79	-5,536.99	3,063.07	4,472.51	4,300.32	172.19	25.975	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	147.65	-6,842.05	4,334.51	8,099.51				
100.00	100.00	78.00	78.00	0.13	0.65	147.65	-6,842.05	4,334.51	8,099.48	8,098.70	0.78	N/A	
200.00	200.00	178.00	178.00	0.49	2.19	147.65	-6,842.05	4,334.51	8,099.48	8,096.80	2.68	3,018.492	
300.00	299.98	277.98	277.98	0.85	3.94	78.35	-6,842.05	4,334.51	8,099.13	8,094.35	4.78	1,693.421	
400.00	399.84	377.84	377.84	1.21	5.68	78.40	-6,842.05	4,334.51	8,098.07	8,091.19	6.88	1,176.383	
500.00	499.45	477.45	477.45	1.58	7.42	78.50	-6,842.05	4,334.51	8,096.32	8,087.33	8.99	900.253	
600.00	598.70	576.70	576.70	1.97	9.15	78.63	-6,842.05	4,334.51	8,093.89	8,082.78	11.11	728.248	
700.00	697.47	675.47	675.47	2.38	10.87	78.80	-6,842.05	4,334.51	8,090.79	8,077.54	13.25	610.622	
800.00	795.62	773.62	773.62	2.83	12.59	79.00	-6,842.05	4,334.51	8,087.05	8,071.65	15.40	524.969	
900.00	893.06	871.06	871.06	3.31	14.29	79.24	-6,842.05	4,334.51	8,082.70	8,065.12	17.58	459.713	
1,000.00	989.64	967.64	967.64	3.83	15.97	79.51	-6,842.05	4,334.51	8,077.77	8,057.98	19.79	408.276	
1,100.00	1,085.27	1,063.27	1,063.27	4.40	17.64	79.82	-6,842.05	4,334.51	8,072.29	8,050.27	22.02	366.643	
1,200.00	1,179.82	1,157.82	1,157.82	5.02	19.29	80.15	-6,842.05	4,334.51	8,066.31	8,042.03	24.28	332.224	
1,300.00	1,273.17	1,251.17	1,251.17	5.70	20.92	80.51	-6,842.05	4,334.51	8,059.87	8,033.30	26.58	303.275	
1,400.00	1,365.21	1,343.21	1,343.21	6.43	22.53	80.90	-6,842.05	4,334.51	8,053.03	8,024.13	28.91	278.577	
1,500.00	1,455.84	1,433.84	1,433.84	7.23	24.11	81.31	-6,842.05	4,334.51	8,045.84	8,014.57	31.28	257.253	
1,600.00	1,544.94	1,522.94	1,522.94	8.09	25.66	81.75	-6,842.05	4,334.51	8,038.36	8,004.68	33.68	238.654	
1,700.00	1,632.39	1,610.39	1,610.39	9.01	27.19	82.20	-6,842.05	4,334.51	8,030.64	7,994.52	36.13	222.291	
1,800.00	1,718.11	1,703.89	1,696.11	10.00	28.82	82.67	-6,842.05	4,334.51	8,022.76	7,984.01	38.75	207.059	
1,900.00	1,801.97	1,779.97	1,779.97	11.07	30.15	83.15	-6,842.05	4,334.51	8,014.77	7,973.64	41.13	194.850	
2,000.00	1,883.88	1,861.88	1,861.88	12.20	31.58	83.65	-6,842.05	4,334.51	8,006.75	7,963.06	43.69	183.243	
2,100.00	1,963.74	1,941.74	1,941.74	13.41	32.97	84.15	-6,842.05	4,334.51	7,998.77	7,952.48	46.29	172.780	
2,200.00	2,041.45	2,019.45	2,019.45	14.69	34.33	84.66	-6,842.05	4,334.51	7,990.90	7,941.97	48.93	163.307	
2,300.00	2,116.92	2,105.08	2,094.92	16.05	35.82	85.17	-6,842.05	4,334.51	7,983.22	7,931.44	51.78	154.168	
2,357.48	2,159.25	2,137.25	2,137.25	16.86	36.39	85.46	-6,842.05	4,334.51	7,978.92	7,925.76	53.16	150.102	
2,400.00	2,190.27	2,168.27	2,168.27	17.47	36.93	85.61	-6,842.05	4,334.51	7,975.82	7,921.51	54.31	146.859	
2,500.00	2,263.22	2,241.22	2,241.22	18.92	38.20	85.97	-6,842.05	4,334.51	7,968.96	7,911.92	57.03	139.724	
2,600.00	2,336.18	2,314.18	2,314.18	20.37	39.47	86.33	-6,842.05	4,334.51	7,962.67	7,902.90	59.77	133.223	
2,700.00	2,409.14	2,387.14	2,387.14	21.84	40.75	86.69	-6,842.05	4,334.51	7,956.97	7,894.45	62.52	127.281	
2,800.00	2,482.09	2,460.09	2,460.09	23.31	42.02	87.05	-6,842.05	4,334.51	7,951.85	7,886.58	65.27	121.833	
2,900.00	2,555.05	2,533.05	2,533.05	24.78	43.29	87.41	-6,842.05	4,334.51	7,947.32	7,879.29	68.03	116.825	
3,000.00	2,628.01	2,606.01	2,606.01	26.27	44.57	87.77	-6,842.05	4,334.51	7,943.37	7,872.58	70.79	112.208	
3,100.00	2,700.96	2,678.96	2,678.96	27.75	45.84	88.13	-6,842.05	4,334.51	7,940.01	7,866.45	73.56	107.941	
3,200.00	2,773.92	2,751.92	2,751.92	29.24	47.11	88.49	-6,842.05	4,334.51	7,937.24	7,860.91	76.33	103.986	
3,300.00	2,846.88	2,824.88	2,824.88	30.73	48.39	88.85	-6,842.05	4,334.51	7,935.06	7,855.95	79.10	100.314	
3,400.00	2,919.83	2,902.17	2,897.83	32.23	49.74	89.21	-6,842.05	4,334.51	7,933.46	7,851.51	81.95	96.807	
3,500.00	2,992.79	2,970.79	2,970.79	33.72	50.93	89.57	-6,842.05	4,334.51	7,932.46	7,847.81	84.65	93.708	
3,600.00	3,065.75	3,043.75	3,043.75	35.22	52.21	89.93	-6,842.05	4,334.51	7,932.04	7,844.62	87.43	90.729	
3,620.42	3,080.64	3,058.64	3,058.64	35.53	52.47	90.00	-6,842.05	4,334.51	7,932.03	7,844.04	87.99	90.145	
3,700.00	3,138.71	3,116.71	3,116.71	36.72	53.48	90.29	-6,842.05	4,334.51	7,932.22	7,842.02	90.20	87.941	
3,800.00	3,211.66	3,189.66	3,189.66	38.22	54.75	90.65	-6,842.05	4,334.51	7,932.98	7,840.01	92.97	85.326	
3,900.00	3,284.62	3,262.62	3,262.62	39.72	56.03	91.01	-6,842.05	4,334.51	7,934.33	7,838.59	95.74	82.870	
4,000.00	3,357.58	3,335.58	3,335.58	41.22	57.30	91.37	-6,842.05	4,334.51	7,936.28	7,837.76	98.51	80.559	
4,100.00	3,430.53	3,408.53	3,408.53	42.73	58.57	91.73	-6,842.05	4,334.51	7,938.81	7,837.53	101.28	78.383	
4,200.00	3,503.49	3,481.49	3,481.49	44.23	59.85	92.09	-6,842.05	4,334.51	7,941.93	7,837.88	104.05	76.330	
4,300.00	3,576.45	3,554.45	3,554.45	45.74	61.12	92.45	-6,842.05	4,334.51	7,945.63	7,838.83	106.81	74.391	
4,400.00	3,649.40	3,627.40	3,627.40	47.25	62.39	92.81	-6,842.05	4,334.51	7,949.93	7,840.36	109.57	72.557	
4,500.00	3,722.36	3,700.36	3,700.36	48.75	63.67	93.17	-6,842.05	4,334.51	7,954.81	7,842.48	112.32	70.821	
4,600.00	3,795.32	3,773.32	3,773.32	50.26	64.94	93.53	-6,842.05	4,334.51	7,960.27	7,845.20	115.07	69.176	
4,700.00	3,868.27	3,846.27	3,846.27	51.77	66.21	93.89	-6,842.05	4,334.51	7,966.32	7,848.50	117.82	67.614	
4,800.00	3,941.23	3,919.23	3,919.23	53.28	67.49	94.24	-6,842.05	4,334.51	7,972.95	7,852.39	120.56	66.132	
4,900.00	4,014.19	4,007.81	3,992.19	54.79	69.03	94.60	-6,842.05	4,334.51	7,980.16	7,856.59	123.57	64.580	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,000.00	4,087.15	4,065.15	4,065.15	56.30	70.03	94.96	-6,842.05	4,334.51	7,987.95	7,861.92	126.03	63.382	
5,100.00	4,160.10	4,138.10	4,138.10	57.81	71.31	95.32	-6,842.05	4,334.51	7,996.31	7,867.56	128.75	62.105	
5,200.00	4,233.06	4,211.06	4,211.06	59.32	72.58	95.67	-6,842.05	4,334.51	8,005.26	7,873.78	131.47	60.889	
5,300.00	4,306.02	4,284.02	4,284.02	60.83	73.85	96.03	-6,842.05	4,334.51	8,014.77	7,880.59	134.19	59.729	
5,400.00	4,378.97	4,356.97	4,356.97	62.34	75.13	96.39	-6,842.05	4,334.51	8,024.86	7,887.97	136.89	58.622	
5,500.00	4,451.93	4,429.93	4,429.93	63.85	76.40	96.74	-6,842.05	4,334.51	8,035.52	7,895.92	139.59	57.564	
5,600.00	4,524.89	4,502.89	4,502.89	65.36	77.67	97.10	-6,842.05	4,334.51	8,046.74	7,904.45	142.28	56.554	
5,700.00	4,597.84	4,575.84	4,575.84	66.88	78.95	97.45	-6,842.05	4,334.51	8,058.53	7,913.56	144.97	55.587	
5,800.00	4,670.80	4,648.80	4,648.80	68.39	80.22	97.81	-6,842.05	4,334.51	8,070.88	7,923.23	147.65	54.663	
5,900.00	4,743.76	4,721.76	4,721.76	69.90	81.49	98.16	-6,842.05	4,334.51	8,083.79	7,933.47	150.32	53.778	
6,000.00	4,816.71	4,805.29	4,794.71	71.41	82.95	98.51	-6,842.05	4,334.51	8,097.26	7,944.09	153.17	52.866	
6,100.00	4,889.67	4,867.67	4,867.67	72.93	84.04	98.87	-6,842.05	4,334.51	8,111.28	7,955.64	155.63	52.117	
6,200.00	4,962.63	4,940.63	4,940.63	74.44	85.31	99.22	-6,842.05	4,334.51	8,125.85	7,967.57	158.28	51.338	
6,300.00	5,035.59	5,013.59	5,013.59	75.95	86.59	99.57	-6,842.05	4,334.51	8,140.97	7,980.06	160.92	50.591	
6,400.00	5,108.54	5,050.00	5,050.00	77.47	87.22	99.74	-6,842.05	4,334.51	8,156.72	7,993.82	162.90	50.072	
6,500.00	5,181.50	5,050.00	5,050.00	78.98	87.22	99.74	-6,842.05	4,334.51	8,173.59	8,009.37	164.22	49.774	
6,600.00	5,254.46	5,050.00	5,050.00	80.49	87.22	99.74	-6,842.05	4,334.51	8,191.63	8,026.12	165.51	49.494	
6,700.00	5,327.41	5,050.00	5,050.00	82.01	87.22	99.74	-6,842.05	4,334.51	8,210.86	8,044.08	166.78	49.232	
6,800.00	5,400.37	5,050.00	5,050.00	83.52	87.22	99.74	-6,842.05	4,334.51	8,231.25	8,063.23	168.03	48.988	
6,900.00	5,473.33	5,050.00	5,050.00	85.04	87.22	99.74	-6,842.05	4,334.51	8,252.81	8,083.56	169.25	48.761	
7,000.00	5,546.28	5,050.00	5,050.00	86.55	87.22	99.74	-6,842.05	4,334.51	8,275.52	8,105.07	170.45	48.552	
7,100.00	5,619.24	5,050.00	5,050.00	88.06	87.22	99.74	-6,842.05	4,334.51	8,299.37	8,127.75	171.62	48.358	
7,200.00	5,692.20	5,050.00	5,050.00	89.58	87.22	99.74	-6,842.05	4,334.51	8,324.36	8,151.59	172.77	48.181	
7,300.00	5,765.15	5,050.00	5,050.00	91.09	87.22	99.74	-6,842.05	4,334.51	8,350.47	8,176.57	173.90	48.019	
7,400.00	5,838.11	5,050.00	5,050.00	92.61	87.22	99.74	-6,842.05	4,334.51	8,377.69	8,202.69	175.00	47.872	
7,500.00	5,911.07	5,050.00	5,050.00	94.12	87.22	99.74	-6,842.05	4,334.51	8,406.01	8,229.93	176.08	47.740	
7,600.00	5,984.03	5,050.00	5,050.00	95.64	87.22	99.74	-6,842.05	4,334.51	8,435.42	8,258.29	177.13	47.622	
7,700.00	6,056.98	5,050.00	5,050.00	97.15	87.22	99.74	-6,842.05	4,334.51	8,465.91	8,287.75	178.16	47.518	
7,800.00	6,129.94	5,050.00	5,050.00	98.67	87.22	99.74	-6,842.05	4,334.51	8,497.47	8,318.31	179.17	47.428	
7,900.00	6,202.90	5,050.00	5,050.00	100.18	87.22	99.74	-6,842.05	4,334.51	8,530.09	8,349.94	180.15	47.350	
8,000.00	6,275.85	5,050.00	5,050.00	101.70	87.22	99.74	-6,842.05	4,334.51	8,563.75	8,382.64	181.11	47.286	
8,100.00	6,348.81	5,050.00	5,050.00	103.21	87.22	99.74	-6,842.05	4,334.51	8,598.44	8,416.40	182.04	47.234	
8,200.00	6,421.77	5,050.00	5,050.00	104.73	87.22	99.74	-6,842.05	4,334.51	8,634.14	8,451.20	182.95	47.194	
8,300.00	6,494.72	5,050.00	5,050.00	106.24	87.22	99.74	-6,842.05	4,334.51	8,670.86	8,487.02	183.84	47.166	
8,400.00	6,567.68	5,050.00	5,050.00	107.76	87.22	99.74	-6,842.05	4,334.51	8,708.57	8,523.87	184.70	47.150	
8,500.00	6,640.64	5,050.00	5,050.00	109.27	87.22	99.74	-6,842.05	4,334.51	8,747.26	8,561.72	185.54	47.145	
8,600.00	6,713.59	5,050.00	5,050.00	110.79	87.22	99.74	-6,842.05	4,334.51	8,786.91	8,600.56	186.36	47.151	
8,700.00	6,786.55	5,050.00	5,050.00	112.30	87.22	99.74	-6,842.05	4,334.51	8,827.53	8,640.37	187.15	47.167	
8,800.00	6,859.51	5,050.00	5,050.00	113.82	87.22	99.74	-6,842.05	4,334.51	8,869.08	8,681.15	187.93	47.194	
8,900.00	6,932.46	5,050.00	5,050.00	115.33	87.22	99.74	-6,842.05	4,334.51	8,911.56	8,722.88	188.68	47.231	
9,000.00	7,005.42	5,050.00	5,050.00	116.85	87.22	99.74	-6,842.05	4,334.51	8,954.96	8,765.55	189.41	47.278	
9,104.89	7,081.95	5,050.00	5,050.00	118.44	87.22	99.74	-6,842.05	4,334.51	9,001.45	8,811.29	190.15	47.338	
9,150.00	7,115.15	5,050.00	5,050.00	119.12	87.22	95.17	-6,842.05	4,334.51	9,020.14	8,829.67	190.47	47.357	
9,200.00	7,152.46	5,050.00	5,050.00	119.86	87.22	89.80	-6,842.05	4,334.51	9,037.27	8,846.44	190.83	47.358	
9,250.00	7,190.04	5,050.00	5,050.00	120.57	87.22	84.24	-6,842.05	4,334.51	9,050.52	8,859.33	191.19	47.339	
9,300.00	7,227.59	5,050.00	5,050.00	121.25	87.22	78.65	-6,842.05	4,334.51	9,059.79	8,868.26	191.54	47.301	
9,350.00	7,264.83	5,050.00	5,050.00	121.89	87.22	73.18	-6,842.05	4,334.51	9,065.04	8,873.17	191.87	47.245	
9,400.00	7,301.48	5,050.00	5,050.00	122.48	87.22	67.97	-6,842.05	4,334.51	9,066.23	8,874.04	192.19	47.173	
9,450.00	7,337.26	5,050.00	5,050.00	123.01	87.22	63.11	-6,842.05	4,334.51	9,063.36	8,870.87	192.49	47.085	
9,500.00	7,371.90	5,050.00	5,050.00	123.49	87.22	58.66	-6,842.05	4,334.51	9,056.43	8,863.67	192.76	46.984	
9,550.00	7,405.13	5,050.00	5,050.00	123.91	87.22	54.63	-6,842.05	4,334.51	9,045.50	8,852.50	192.99	46.870	
9,600.00	7,436.70	5,050.00	5,050.00	124.27	87.22	51.02	-6,842.05	4,334.51	9,030.63	8,837.43	193.20	46.743	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	5,050.00	5,050.00	124.57	87.22	47.81	-6,842.05	4,334.51	9,011.91	8,818.55	193.36	46.606	
9,700.00	7,493.91	5,050.00	5,050.00	124.81	87.22	44.94	-6,842.05	4,334.51	8,989.48	8,795.98	193.50	46.458	
9,750.00	7,519.11	5,050.00	5,050.00	125.00	87.22	42.39	-6,842.05	4,334.51	8,963.46	8,769.86	193.60	46.299	
9,800.00	7,541.79	5,050.00	5,050.00	125.12	87.22	40.10	-6,842.05	4,334.51	8,934.03	8,740.36	193.67	46.131	
9,850.00	7,561.77	5,050.00	5,050.00	125.20	87.22	38.01	-6,842.05	4,334.51	8,901.38	8,707.68	193.70	45.954	
9,900.00	7,578.90	5,050.00	5,050.00	125.23	87.22	36.06	-6,842.05	4,334.51	8,865.72	8,672.01	193.71	45.768	
9,950.00	7,593.04	5,050.00	5,050.00	125.22	87.22	34.17	-6,842.05	4,334.51	8,827.29	8,633.60	193.70	45.573	
10,000.00	7,604.09	5,050.00	5,050.00	125.17	87.22	32.25	-6,842.05	4,334.51	8,786.35	8,592.69	193.66	45.370	
10,050.00	7,611.97	5,050.00	5,050.00	125.08	87.22	30.13	-6,842.05	4,334.51	8,743.18	8,549.57	193.61	45.159	
10,100.00	7,616.61	5,050.00	5,050.00	124.97	87.22	27.53	-6,842.05	4,334.51	8,698.07	8,504.52	193.55	44.940	
10,145.95	7,618.00	5,050.00	5,050.00	124.84	87.22	24.26	-6,842.05	4,334.51	8,655.17	8,461.69	193.49	44.733	
10,200.00	7,618.00	5,050.00	5,050.00	124.69	87.22	24.26	-6,842.05	4,334.51	8,604.03	8,410.62	193.41	44.486	
10,300.00	7,618.00	5,050.00	5,050.00	124.41	87.22	24.26	-6,842.05	4,334.51	8,509.51	8,316.24	193.26	44.030	
10,400.00	7,618.00	5,050.00	5,050.00	124.14	87.22	24.26	-6,842.05	4,334.51	8,415.11	8,221.99	193.11	43.576	
10,500.00	7,618.00	5,050.00	5,050.00	123.88	87.22	24.26	-6,842.05	4,334.51	8,320.84	8,127.88	192.96	43.122	
10,600.00	7,618.00	5,050.00	5,050.00	123.63	87.22	24.26	-6,842.05	4,334.51	8,226.71	8,033.91	192.80	42.669	
10,700.00	7,618.00	5,050.00	5,050.00	123.40	87.22	24.26	-6,842.05	4,334.51	8,132.72	7,940.08	192.64	42.217	
10,800.00	7,618.00	5,050.00	5,050.00	123.18	87.22	24.26	-6,842.05	4,334.51	8,038.87	7,846.40	192.47	41.767	
10,900.00	7,618.00	5,050.00	5,050.00	122.96	87.22	24.26	-6,842.05	4,334.51	7,945.18	7,752.88	192.30	41.317	
11,000.00	7,618.00	5,050.00	5,050.00	122.76	87.22	24.26	-6,842.05	4,334.51	7,851.64	7,659.52	192.12	40.869	
11,100.00	7,618.00	5,050.00	5,050.00	122.57	87.22	24.26	-6,842.05	4,334.51	7,758.26	7,566.33	191.93	40.422	
11,200.00	7,618.00	5,050.00	5,050.00	122.39	87.22	24.26	-6,842.05	4,334.51	7,665.05	7,473.31	191.74	39.976	
11,300.00	7,618.00	5,050.00	5,050.00	122.23	87.22	24.26	-6,842.05	4,334.51	7,572.01	7,380.46	191.54	39.532	
11,400.00	7,618.00	5,050.00	5,050.00	122.07	87.22	24.26	-6,842.05	4,334.51	7,479.15	7,287.81	191.34	39.089	
11,500.00	7,618.00	5,050.00	5,050.00	121.93	87.22	24.26	-6,842.05	4,334.51	7,386.47	7,195.35	191.13	38.647	
11,600.00	7,618.00	5,050.00	5,050.00	121.79	87.22	24.26	-6,842.05	4,334.51	7,293.99	7,103.09	190.91	38.207	
11,700.00	7,618.00	5,050.00	5,050.00	121.67	87.22	24.26	-6,842.05	4,334.51	7,201.72	7,011.04	190.68	37.768	
11,800.00	7,618.00	5,050.00	5,050.00	121.56	87.22	24.26	-6,842.05	4,334.51	7,109.65	6,919.20	190.45	37.332	
11,900.00	7,618.00	5,050.00	5,050.00	121.46	87.22	24.26	-6,842.05	4,334.51	7,017.79	6,827.59	190.20	36.896	
12,000.00	7,618.00	5,050.00	5,050.00	121.38	87.22	24.26	-6,842.05	4,334.51	6,926.17	6,736.22	189.95	36.463	
12,100.00	7,618.00	5,050.00	5,050.00	121.30	87.22	24.26	-6,842.05	4,334.51	6,834.77	6,645.09	189.69	36.031	
12,200.00	7,618.00	5,050.00	5,050.00	121.24	87.22	24.26	-6,842.05	4,334.51	6,743.63	6,554.21	189.42	35.602	
12,300.00	7,618.00	5,050.00	5,050.00	121.19	87.22	24.26	-6,842.05	4,334.51	6,652.73	6,463.60	189.14	35.174	
12,400.00	7,618.00	5,050.00	5,050.00	121.16	87.22	24.26	-6,842.05	4,334.51	6,562.10	6,373.26	188.84	34.749	
12,500.00	7,618.00	5,050.00	5,050.00	121.14	87.22	24.26	-6,842.05	4,334.51	6,471.75	6,283.21	188.54	34.326	
12,600.00	7,618.00	5,050.00	5,050.00	121.13	87.22	24.26	-6,842.05	4,334.51	6,381.69	6,193.46	188.22	33.905	
12,700.00	7,618.00	5,050.00	5,050.00	121.13	87.22	24.26	-6,842.05	4,334.51	6,291.92	6,104.03	187.90	33.486	
12,800.00	7,618.00	5,050.00	5,050.00	121.15	87.22	24.26	-6,842.05	4,334.51	6,202.47	6,014.92	187.55	33.070	
12,900.00	7,618.00	5,050.00	5,050.00	121.18	87.22	24.26	-6,842.05	4,334.51	6,113.35	5,926.15	187.20	32.657	
13,000.00	7,618.00	5,050.00	5,050.00	121.23	87.22	24.26	-6,842.05	4,334.51	6,024.56	5,837.73	186.83	32.246	
13,100.00	7,618.00	5,050.00	5,050.00	121.29	87.22	24.26	-6,842.05	4,334.51	5,936.14	5,749.69	186.44	31.839	
13,200.00	7,618.00	5,050.00	5,050.00	121.37	87.22	24.26	-6,842.05	4,334.51	5,848.08	5,662.04	186.04	31.434	
13,300.00	7,618.00	5,050.00	5,050.00	121.46	87.22	24.26	-6,842.05	4,334.51	5,760.42	5,574.79	185.62	31.033	
13,400.00	7,618.00	5,050.00	5,050.00	121.57	87.22	24.26	-6,842.05	4,334.51	5,673.16	5,487.98	185.19	30.635	
13,500.00	7,618.00	5,050.00	5,050.00	121.70	87.22	24.26	-6,842.05	4,334.51	5,586.34	5,401.60	184.73	30.240	
13,600.00	7,618.00	5,050.00	5,050.00	121.84	87.22	24.26	-6,842.05	4,334.51	5,499.95	5,315.70	184.26	29.849	
13,700.00	7,618.00	5,050.00	5,050.00	122.01	87.22	24.26	-6,842.05	4,334.51	5,414.04	5,230.28	183.76	29.462	
13,800.00	7,618.00	5,050.00	5,050.00	122.19	87.22	24.26	-6,842.05	4,334.51	5,328.62	5,145.38	183.25	29.079	
13,900.00	7,618.00	5,050.00	5,050.00	122.39	87.22	24.26	-6,842.05	4,334.51	5,243.72	5,061.01	182.71	28.700	
14,000.00	7,618.00	5,050.00	5,050.00	122.62	87.22	24.26	-6,842.05	4,334.51	5,159.35	4,977.21	182.14	28.326	
14,100.00	7,618.00	5,050.00	5,050.00	122.86	87.22	24.26	-6,842.05	4,334.51	5,075.56	4,894.01	181.55	27.957	
14,200.00	7,618.00	5,050.00	5,050.00	123.12	87.22	24.26	-6,842.05	4,334.51	4,992.36	4,811.43	180.93	27.592	

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

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			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
14,300.00	7,618.00	5,050.00	5,050.00	123.41	87.22	24.26	-6,842.05	4,334.51	4,909.79	4,729.50	180.29	27.233	
14,400.00	7,618.00	5,050.00	5,050.00	123.72	87.22	24.26	-6,842.05	4,334.51	4,827.87	4,648.26	179.61	26.879	
14,500.00	7,618.00	5,050.00	5,050.00	124.06	87.22	24.26	-6,842.05	4,334.51	4,746.65	4,567.75	178.91	26.532	
14,600.00	7,618.00	5,050.00	5,050.00	124.42	87.22	24.26	-6,842.05	4,334.51	4,666.16	4,488.00	178.17	26.190	
14,700.00	7,618.00	5,050.00	5,050.00	124.80	87.22	24.26	-6,842.05	4,334.51	4,586.44	4,409.05	177.39	25.855	
14,800.00	7,618.00	5,050.00	5,050.00	125.21	87.22	24.26	-6,842.05	4,334.51	4,507.53	4,330.94	176.58	25.526	
14,900.00	7,618.00	5,050.00	5,050.00	125.65	87.22	24.26	-6,842.05	4,334.51	4,429.46	4,253.73	175.74	25.205	
15,000.00	7,618.00	5,050.00	5,050.00	126.11	87.22	24.26	-6,842.05	4,334.51	4,352.30	4,177.45	174.85	24.892	
15,100.00	7,618.00	5,050.00	5,050.00	126.61	87.22	24.26	-6,842.05	4,334.51	4,276.08	4,102.16	173.92	24.586	
15,200.00	7,618.00	5,050.00	5,050.00	127.13	87.22	24.26	-6,842.05	4,334.51	4,200.86	4,027.91	172.95	24.289	
15,300.00	7,618.00	5,050.00	5,050.00	127.68	87.22	24.26	-6,842.05	4,334.51	4,126.69	3,954.76	171.94	24.001	
15,400.00	7,618.00	5,050.00	5,050.00	128.26	87.22	24.26	-6,842.05	4,334.51	4,053.63	3,882.76	170.87	23.723	
15,500.00	7,618.00	5,050.00	5,050.00	128.87	87.22	24.26	-6,842.05	4,334.51	3,981.74	3,811.98	169.77	23.454	
15,600.00	7,618.00	5,050.00	5,050.00	129.51	87.22	24.26	-6,842.05	4,334.51	3,911.09	3,742.48	168.61	23.196	
15,700.00	7,618.00	5,050.00	5,050.00	130.18	87.22	24.26	-6,842.05	4,334.51	3,841.75	3,674.34	167.40	22.949	
15,800.00	7,618.00	5,050.00	5,050.00	130.88	87.22	24.26	-6,842.05	4,334.51	3,773.77	3,607.63	166.14	22.714	
15,900.00	7,618.00	5,050.00	5,050.00	131.61	87.22	24.26	-6,842.05	4,334.51	3,707.25	3,542.42	164.83	22.491	
16,000.00	7,618.00	5,050.00	5,050.00	132.37	87.22	24.26	-6,842.05	4,334.51	3,642.26	3,478.79	163.47	22.281	
16,100.00	7,618.00	5,050.00	5,050.00	133.17	87.22	24.26	-6,842.05	4,334.51	3,578.89	3,416.83	162.06	22.084	
16,200.00	7,618.00	5,050.00	5,050.00	133.99	87.22	24.26	-6,842.05	4,334.51	3,517.21	3,356.62	160.60	21.901	
16,300.00	7,618.00	5,050.00	5,050.00	134.84	87.22	24.26	-6,842.05	4,334.51	3,457.33	3,298.25	159.08	21.733	
16,400.00	7,618.00	5,050.00	5,050.00	135.72	87.22	24.26	-6,842.05	4,334.51	3,399.34	3,241.82	157.52	21.580	
16,500.00	7,618.00	5,050.00	5,050.00	136.63	87.22	24.26	-6,842.05	4,334.51	3,343.33	3,187.41	155.92	21.443	
16,600.00	7,618.00	5,050.00	5,050.00	137.57	87.22	24.26	-6,842.05	4,334.51	3,289.41	3,135.13	154.28	21.322	
16,700.00	7,618.00	5,050.00	5,050.00	138.54	87.22	24.26	-6,842.05	4,334.51	3,237.68	3,085.08	152.60	21.217	
16,800.00	7,618.00	5,050.00	5,050.00	139.53	87.22	24.26	-6,842.05	4,334.51	3,188.25	3,037.35	150.90	21.128	
16,900.00	7,618.00	5,050.00	5,050.00	140.55	87.22	24.26	-6,842.05	4,334.51	3,141.23	2,992.04	149.18	21.056	
17,000.00	7,618.00	5,050.00	5,050.00	141.60	87.22	24.26	-6,842.05	4,334.51	3,096.72	2,949.26	147.46	21.001	
17,100.00	7,618.00	5,050.00	5,050.00	142.67	87.22	24.26	-6,842.05	4,334.51	3,054.83	2,909.09	145.74	20.961	
17,200.00	7,618.00	5,050.00	5,050.00	143.77	87.22	24.26	-6,842.05	4,334.51	3,015.69	2,871.64	144.05	20.936	
17,300.00	7,618.00	5,050.00	5,050.00	144.88	87.22	24.26	-6,842.05	4,334.51	2,979.38	2,836.99	142.39	20.924	
17,400.00	7,618.00	5,050.00	5,050.00	146.02	87.22	24.26	-6,842.05	4,334.51	2,946.03	2,805.23	140.79	20.924	
17,500.00	7,618.00	5,050.00	5,050.00	147.19	87.22	24.26	-6,842.05	4,334.51	2,915.72	2,776.45	139.28	20.935	
17,600.00	7,618.00	5,050.00	5,050.00	148.37	87.22	24.26	-6,842.05	4,334.51	2,888.56	2,750.70	137.86	20.952	
17,700.00	7,618.00	5,050.00	5,050.00	149.57	87.22	24.26	-6,842.05	4,334.51	2,864.64	2,728.06	136.58	20.974	
17,800.00	7,618.00	5,050.00	5,050.00	150.79	87.22	24.26	-6,842.05	4,334.51	2,844.03	2,708.58	135.45	20.997	
17,900.00	7,618.00	5,050.00	5,050.00	152.03	87.22	24.26	-6,842.05	4,334.51	2,826.81	2,692.31	134.50	21.017	
18,000.00	7,618.00	5,050.00	5,050.00	153.29	87.22	24.26	-6,842.05	4,334.51	2,813.05	2,679.29	133.75	21.032	
18,100.00	7,618.00	5,050.00	5,050.00	154.57	87.22	24.26	-6,842.05	4,334.51	2,802.78	2,669.55	133.23	21.037	
18,200.00	7,618.00	5,050.00	5,050.00	155.86	87.22	24.26	-6,842.05	4,334.51	2,796.06	2,663.11	132.95	21.031	
18,300.00	7,618.00	5,050.00	5,050.00	157.17	87.22	24.26	-6,842.05	4,334.51	2,792.90	2,659.98	132.92	21.012	
18,338.21	7,618.00	5,050.00	5,050.00	157.67	87.22	24.26	-6,842.05	4,334.51	2,792.64	2,659.66	132.98	21.001	CC, ES
18,400.00	7,618.00	5,050.00	5,050.00	158.49	87.22	24.26	-6,842.05	4,334.51	2,793.32	2,660.18	133.15	20.979	
18,500.00	7,618.00	5,050.00	5,050.00	159.82	87.22	24.26	-6,842.05	4,334.51	2,797.32	2,663.69	133.63	20.933	
18,600.00	7,618.00	5,050.00	5,050.00	161.17	87.22	24.26	-6,842.05	4,334.51	2,804.88	2,670.53	134.36	20.876	
18,700.00	7,618.00	5,050.00	5,050.00	162.54	87.22	24.26	-6,842.05	4,334.51	2,815.98	2,680.66	135.31	20.811	
18,800.00	7,618.00	5,050.00	5,050.00	163.91	87.22	24.26	-6,842.05	4,334.51	2,830.56	2,694.08	136.48	20.740	
18,900.00	7,618.00	5,050.00	5,050.00	165.30	87.22	24.26	-6,842.05	4,334.51	2,848.59	2,710.76	137.83	20.667	
19,000.00	7,618.00	5,050.00	5,050.00	166.70	87.22	24.26	-6,842.05	4,334.51	2,869.98	2,730.65	139.34	20.598	
19,100.00	7,618.00	5,050.00	5,050.00	168.10	87.22	24.26	-6,842.05	4,334.51	2,894.68	2,753.71	140.97	20.534	
19,200.00	7,618.00	5,050.00	5,050.00	169.52	87.22	24.26	-6,842.05	4,334.51	2,922.59	2,779.87	142.71	20.479	
19,300.00	7,618.00	5,050.00	5,050.00	170.95	87.22	24.26	-6,842.05	4,334.51	2,953.62	2,809.09	144.53	20.436	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	5,050.00	5,050.00	172.39	87.22	24.26	-6,842.05	4,334.51	2,987.68	2,841.28	146.40	20.407	
19,500.00	7,618.00	5,050.00	5,050.00	173.84	87.22	24.26	-6,842.05	4,334.51	3,024.66	2,876.36	148.31	20.395	SF
19,600.00	7,618.00	5,050.00	5,050.00	175.30	87.22	24.26	-6,842.05	4,334.51	3,064.46	2,914.24	150.22	20.399	
19,700.00	7,618.00	5,050.00	5,050.00	176.76	87.22	24.26	-6,842.05	4,334.51	3,106.98	2,954.83	152.14	20.422	
19,800.00	7,618.00	5,050.00	5,050.00	178.24	87.22	24.26	-6,842.05	4,334.51	3,152.09	2,998.05	154.04	20.462	
19,896.19	7,618.00	5,050.00	5,050.00	179.66	87.22	24.26	-6,842.05	4,334.51	3,197.83	3,041.99	155.85	20.519	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	152.15	-8,182.26	4,322.42	9,253.85				
100.00	100.00	69.00	69.00	0.13	0.57	152.15	-8,182.26	4,322.42	9,253.80	9,253.09	0.71	N/A	
200.00	200.00	169.00	169.00	0.49	2.03	152.15	-8,182.26	4,322.42	9,253.80	9,251.27	2.53	3,663.119	
300.00	299.98	268.98	268.98	0.85	3.78	82.85	-8,182.26	4,322.42	9,253.58	9,248.96	4.63	2,000.497	
400.00	399.84	368.84	368.84	1.21	5.52	82.90	-8,182.26	4,322.42	9,252.93	9,246.21	6.73	1,375.514	
500.00	499.45	468.45	468.45	1.58	7.26	82.97	-8,182.26	4,322.42	9,251.86	9,243.02	8.84	1,046.968	
600.00	598.70	567.70	567.70	1.97	8.99	83.08	-8,182.26	4,322.42	9,250.37	9,239.41	10.96	844.127	
700.00	697.47	666.47	666.47	2.38	10.72	83.21	-8,182.26	4,322.42	9,248.47	9,235.38	13.10	706.215	
800.00	795.62	764.62	764.62	2.83	12.43	83.37	-8,182.26	4,322.42	9,246.20	9,230.95	15.25	606.201	
900.00	893.06	862.06	862.06	3.31	14.13	83.56	-8,182.26	4,322.42	9,243.58	9,226.14	17.43	530.242	
1,000.00	989.64	958.64	958.64	3.83	15.82	83.77	-8,182.26	4,322.42	9,240.62	9,220.98	19.64	470.518	
1,100.00	1,085.27	1,054.27	1,054.27	4.40	17.48	84.01	-8,182.26	4,322.42	9,237.37	9,215.49	21.88	422.278	
1,200.00	1,179.82	1,148.82	1,148.82	5.02	19.13	84.27	-8,182.26	4,322.42	9,233.85	9,209.71	24.14	382.468	
1,300.00	1,273.17	1,242.17	1,242.17	5.70	20.76	84.55	-8,182.26	4,322.42	9,230.11	9,203.67	26.44	349.038	
1,400.00	1,365.21	1,334.21	1,334.21	6.43	22.37	84.85	-8,182.26	4,322.42	9,226.19	9,197.41	28.78	320.558	
1,500.00	1,455.84	1,424.84	1,424.84	7.23	23.95	85.17	-8,182.26	4,322.42	9,222.14	9,190.98	31.16	296.001	
1,600.00	1,544.94	1,513.94	1,513.94	8.09	25.51	85.50	-8,182.26	4,322.42	9,218.00	9,184.43	33.57	274.608	
1,700.00	1,632.39	1,601.39	1,601.39	9.01	27.03	85.85	-8,182.26	4,322.42	9,213.82	9,177.80	36.02	255.810	
1,800.00	1,718.11	1,687.11	1,687.11	10.00	28.53	86.20	-8,182.26	4,322.42	9,209.66	9,171.15	38.51	239.166	
1,900.00	1,801.97	1,770.97	1,770.97	11.07	29.99	86.57	-8,182.26	4,322.42	9,205.57	9,164.53	41.04	224.333	
2,000.00	1,883.88	1,852.88	1,852.88	12.20	31.42	86.94	-8,182.26	4,322.42	9,201.61	9,158.01	43.60	211.040	
2,100.00	1,963.74	1,932.74	1,932.74	13.41	32.82	87.31	-8,182.26	4,322.42	9,197.84	9,151.63	46.20	199.066	
2,200.00	2,041.45	2,010.45	2,010.45	14.69	34.17	87.69	-8,182.26	4,322.42	9,194.32	9,145.47	48.84	188.235	
2,300.00	2,116.92	2,085.92	2,085.92	16.05	35.49	88.06	-8,182.26	4,322.42	9,191.10	9,139.58	51.52	178.400	
2,357.48	2,159.25	2,128.25	2,128.25	16.86	36.23	88.27	-8,182.26	4,322.42	9,189.41	9,136.34	53.07	173.153	
2,400.00	2,190.27	2,159.27	2,159.27	17.47	36.77	88.41	-8,182.26	4,322.42	9,188.26	9,134.04	54.22	169.451	
2,500.00	2,263.22	2,232.22	2,232.22	18.92	38.04	88.72	-8,182.26	4,322.42	9,185.91	9,128.96	56.95	161.308	
2,600.00	2,336.18	2,305.18	2,305.18	20.37	39.32	89.03	-8,182.26	4,322.42	9,184.07	9,124.39	59.68	153.890	
2,700.00	2,409.14	2,378.14	2,378.14	21.84	40.59	89.34	-8,182.26	4,322.42	9,182.73	9,120.31	62.42	147.110	
2,800.00	2,482.09	2,451.09	2,451.09	23.31	41.86	89.65	-8,182.26	4,322.42	9,181.91	9,116.74	65.17	140.895	
2,900.00	2,555.05	2,524.05	2,524.05	24.78	43.14	89.96	-8,182.26	4,322.42	9,181.60	9,113.67	67.92	135.181	
2,911.71	2,563.60	2,532.60	2,532.60	24.96	43.29	90.00	-8,182.26	4,322.42	9,181.59	9,113.35	68.24	134.542	
3,000.00	2,628.01	2,602.99	2,597.01	26.27	44.51	90.27	-8,182.26	4,322.42	9,181.79	9,111.01	70.78	129.721	
3,100.00	2,700.96	2,669.96	2,669.96	27.75	45.68	90.59	-8,182.26	4,322.42	9,182.49	9,109.06	73.43	125.043	
3,200.00	2,773.92	2,742.92	2,742.92	29.24	46.96	90.90	-8,182.26	4,322.42	9,183.71	9,107.51	76.20	120.528	
3,300.00	2,846.88	2,815.88	2,815.88	30.73	48.23	91.21	-8,182.26	4,322.42	9,185.43	9,106.47	78.96	116.335	
3,400.00	2,919.83	2,888.83	2,888.83	32.23	49.50	91.52	-8,182.26	4,322.42	9,187.66	9,105.94	81.72	112.430	
3,500.00	2,992.79	2,961.79	2,961.79	33.72	50.78	91.83	-8,182.26	4,322.42	9,190.40	9,105.92	84.48	108.787	
3,600.00	3,065.75	3,034.75	3,034.75	35.22	52.05	92.14	-8,182.26	4,322.42	9,193.65	9,106.41	87.24	105.381	
3,700.00	3,138.71	3,107.71	3,107.71	36.72	53.32	92.45	-8,182.26	4,322.42	9,197.41	9,107.40	90.00	102.190	
3,800.00	3,211.66	3,180.66	3,180.66	38.22	54.60	92.76	-8,182.26	4,322.42	9,201.67	9,108.91	92.76	99.197	
3,900.00	3,284.62	3,253.62	3,253.62	39.72	55.87	93.07	-8,182.26	4,322.42	9,206.44	9,110.92	95.52	96.383	
4,000.00	3,357.58	3,326.58	3,326.58	41.22	57.14	93.38	-8,182.26	4,322.42	9,211.71	9,113.44	98.27	93.734	
4,100.00	3,430.53	3,400.47	3,399.53	42.73	58.43	93.69	-8,182.26	4,322.42	9,217.49	9,116.44	101.04	91.223	
4,200.00	3,503.49	3,472.49	3,472.49	44.23	59.69	94.00	-8,182.26	4,322.42	9,223.77	9,119.99	103.78	88.880	
4,300.00	3,576.45	3,545.45	3,545.45	45.74	60.96	94.31	-8,182.26	4,322.42	9,230.55	9,124.03	106.52	86.652	
4,400.00	3,649.40	3,618.40	3,618.40	47.25	62.24	94.62	-8,182.26	4,322.42	9,237.84	9,128.57	109.27	84.543	
4,500.00	3,722.36	3,708.64	3,691.36	48.75	63.81	94.93	-8,182.26	4,322.42	9,245.62	9,133.31	112.31	82.323	
4,600.00	3,795.32	3,764.32	3,764.32	50.26	64.78	95.24	-8,182.26	4,322.42	9,253.91	9,139.16	114.74	80.649	
4,700.00	3,868.27	3,837.27	3,837.27	51.77	66.06	95.55	-8,182.26	4,322.42	9,262.69	9,145.21	117.48	78.848	
4,800.00	3,941.23	3,910.23	3,910.23	53.28	67.33	95.86	-8,182.26	4,322.42	9,271.97	9,151.76	120.20	77.136	
4,900.00	4,014.19	3,983.19	3,983.19	54.79	68.60	96.17	-8,182.26	4,322.42	9,281.74	9,158.81	122.93	75.507	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,000.00	4,087.15	4,056.15	4,056.15	56.30	69.88	96.47	-8,182.26	4,322.42	9,292.01	9,166.36	125.64	73.955	
5,100.00	4,160.10	4,129.10	4,129.10	57.81	71.15	96.78	-8,182.26	4,322.42	9,302.76	9,174.41	128.36	72.476	
5,200.00	4,233.06	4,202.06	4,202.06	59.32	72.42	97.09	-8,182.26	4,322.42	9,314.01	9,182.94	131.07	71.064	
5,300.00	4,306.02	4,275.02	4,275.02	60.83	73.70	97.39	-8,182.26	4,322.42	9,325.74	9,191.98	133.77	69.716	
5,400.00	4,378.97	4,347.97	4,347.97	62.34	74.97	97.70	-8,182.26	4,322.42	9,337.97	9,201.50	136.46	68.428	
5,500.00	4,451.93	4,420.93	4,420.93	63.85	76.24	98.01	-8,182.26	4,322.42	9,350.67	9,211.52	139.16	67.196	
5,600.00	4,524.89	4,506.11	4,493.89	65.36	77.73	98.31	-8,182.26	4,322.42	9,363.86	9,221.81	142.05	65.918	
5,700.00	4,597.84	4,566.84	4,566.84	66.88	78.79	98.62	-8,182.26	4,322.42	9,377.53	9,233.01	144.52	64.888	
5,800.00	4,670.80	4,639.80	4,639.80	68.39	80.06	98.92	-8,182.26	4,322.42	9,391.67	9,244.48	147.19	63.806	
5,900.00	4,743.76	4,712.76	4,712.76	69.90	81.34	99.22	-8,182.26	4,322.42	9,406.29	9,256.44	149.86	62.768	
6,000.00	4,816.71	4,785.71	4,785.71	71.41	82.61	99.53	-8,182.26	4,322.42	9,421.39	9,268.87	152.52	61.773	
6,100.00	4,889.67	4,858.67	4,858.67	72.93	83.88	99.83	-8,182.26	4,322.42	9,436.96	9,281.79	155.17	60.817	
6,200.00	4,962.63	4,931.63	4,931.63	74.44	85.16	100.13	-8,182.26	4,322.42	9,452.99	9,295.18	157.81	59.900	
6,300.00	5,035.59	5,004.59	5,004.59	75.95	86.43	100.43	-8,182.26	4,322.42	9,469.50	9,309.05	160.45	59.017	
6,400.00	5,108.54	5,048.00	5,048.00	77.47	87.19	100.61	-8,182.26	4,322.42	9,486.51	9,323.95	162.56	58.357	
6,500.00	5,181.50	5,048.00	5,048.00	78.98	87.19	100.61	-8,182.26	4,322.42	9,504.45	9,340.56	163.89	57.994	
6,600.00	5,254.46	5,048.00	5,048.00	80.49	87.19	100.61	-8,182.26	4,322.42	9,523.40	9,358.20	165.20	57.649	
6,700.00	5,327.41	5,048.00	5,048.00	82.01	87.19	100.61	-8,182.26	4,322.42	9,543.36	9,376.88	166.49	57.322	
6,800.00	5,400.37	5,048.00	5,048.00	83.52	87.19	100.61	-8,182.26	4,322.42	9,564.33	9,396.57	167.76	57.013	
6,900.00	5,473.33	5,048.00	5,048.00	85.04	87.19	100.61	-8,182.26	4,322.42	9,586.29	9,417.28	169.01	56.720	
7,000.00	5,546.28	5,048.00	5,048.00	86.55	87.19	100.61	-8,182.26	4,322.42	9,609.25	9,439.00	170.25	56.443	
7,100.00	5,619.24	5,048.00	5,048.00	88.06	87.19	100.61	-8,182.26	4,322.42	9,633.19	9,461.72	171.46	56.183	
7,200.00	5,692.20	5,048.00	5,048.00	89.58	87.19	100.61	-8,182.26	4,322.42	9,658.10	9,485.44	172.66	55.938	
7,300.00	5,765.15	5,048.00	5,048.00	91.09	87.19	100.61	-8,182.26	4,322.42	9,683.98	9,510.15	173.84	55.707	
7,400.00	5,838.11	5,048.00	5,048.00	92.61	87.19	100.61	-8,182.26	4,322.42	9,710.83	9,535.83	175.00	55.492	
7,500.00	5,911.07	5,048.00	5,048.00	94.12	87.19	100.61	-8,182.26	4,322.42	9,738.62	9,562.49	176.13	55.291	
7,600.00	5,984.03	5,048.00	5,048.00	95.64	87.19	100.61	-8,182.26	4,322.42	9,767.36	9,590.11	177.25	55.104	
7,700.00	6,056.98	5,048.00	5,048.00	97.15	87.19	100.61	-8,182.26	4,322.42	9,797.04	9,618.69	178.36	54.930	
7,800.00	6,129.94	5,048.00	5,048.00	98.67	87.19	100.61	-8,182.26	4,322.42	9,827.65	9,648.21	179.44	54.769	
7,900.00	6,202.90	5,048.00	5,048.00	100.18	87.19	100.61	-8,182.26	4,322.42	9,859.17	9,678.67	180.50	54.622	
8,000.00	6,275.85	5,048.00	5,048.00	101.70	87.19	100.61	-8,182.26	4,322.42	9,891.61	9,710.06	181.54	54.486	
8,100.00	6,348.81	5,048.00	5,048.00	103.21	87.19	100.61	-8,182.26	4,322.42	9,924.94	9,742.38	182.57	54.363	
8,200.00	6,421.77	5,048.00	5,048.00	104.73	87.19	100.61	-8,182.26	4,322.42	9,959.17	9,775.60	183.57	54.252	
8,300.00	6,494.72	5,048.00	5,048.00	106.24	87.19	100.61	-8,182.26	4,322.42	9,994.29	9,809.73	184.56	54.153	
10,100.00	7,616.61	5,048.00	5,048.00	124.97	87.19	28.11	-8,182.26	4,322.42	9,975.81	9,779.26	196.56	50.753	
10,145.95	7,618.00	5,048.00	5,048.00	124.84	87.19	24.46	-8,182.26	4,322.42	9,932.24	9,735.71	196.53	50.538	
10,200.00	7,618.00	5,048.00	5,048.00	124.69	87.19	24.46	-8,182.26	4,322.42	9,880.38	9,683.89	196.49	50.284	
10,300.00	7,618.00	5,048.00	5,048.00	124.41	87.19	24.46	-8,182.26	4,322.42	9,784.49	9,588.07	196.42	49.815	
10,400.00	7,618.00	5,048.00	5,048.00	124.14	87.19	24.46	-8,182.26	4,322.42	9,688.68	9,492.34	196.34	49.346	
10,500.00	7,618.00	5,048.00	5,048.00	123.88	87.19	24.46	-8,182.26	4,322.42	9,592.96	9,396.69	196.27	48.877	
10,600.00	7,618.00	5,048.00	5,048.00	123.63	87.19	24.46	-8,182.26	4,322.42	9,497.32	9,301.14	196.19	48.409	
10,700.00	7,618.00	5,048.00	5,048.00	123.40	87.19	24.46	-8,182.26	4,322.42	9,401.78	9,205.67	196.11	47.942	
10,800.00	7,618.00	5,048.00	5,048.00	123.18	87.19	24.46	-8,182.26	4,322.42	9,306.33	9,110.31	196.02	47.475	
10,900.00	7,618.00	5,048.00	5,048.00	122.96	87.19	24.46	-8,182.26	4,322.42	9,210.98	9,015.04	195.94	47.009	
11,000.00	7,618.00	5,048.00	5,048.00	122.76	87.19	24.46	-8,182.26	4,322.42	9,115.72	8,919.87	195.85	46.544	
11,100.00	7,618.00	5,048.00	5,048.00	122.57	87.19	24.46	-8,182.26	4,322.42	9,020.57	8,824.81	195.76	46.079	
11,200.00	7,618.00	5,048.00	5,048.00	122.39	87.19	24.46	-8,182.26	4,322.42	8,925.53	8,729.86	195.67	45.615	
11,300.00	7,618.00	5,048.00	5,048.00	122.23	87.19	24.46	-8,182.26	4,322.42	8,830.59	8,635.02	195.57	45.152	
11,400.00	7,618.00	5,048.00	5,048.00	122.07	87.19	24.46	-8,182.26	4,322.42	8,735.77	8,540.29	195.48	44.690	
11,500.00	7,618.00	5,048.00	5,048.00	121.93	87.19	24.46	-8,182.26	4,322.42	8,641.06	8,445.69	195.38	44.228	
11,600.00	7,618.00	5,048.00	5,048.00	121.79	87.19	24.46	-8,182.26	4,322.42	8,546.48	8,351.20	195.27	43.767	
11,700.00	7,618.00	5,048.00	5,048.00	121.67	87.19	24.46	-8,182.26	4,322.42	8,452.02	8,256.85	195.16	43.307	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
11,800.00	7,618.00	5,048.00	5,048.00	121.56	87.19	24.46	-8,182.26	4,322.42	8,357.68	8,162.63	195.05	42.848	
11,900.00	7,618.00	5,048.00	5,048.00	121.46	87.19	24.46	-8,182.26	4,322.42	8,263.48	8,068.54	194.94	42.390	
12,000.00	7,618.00	5,048.00	5,048.00	121.38	87.19	24.46	-8,182.26	4,322.42	8,169.42	7,974.60	194.82	41.932	
12,100.00	7,618.00	5,048.00	5,048.00	121.30	87.19	24.46	-8,182.26	4,322.42	8,075.51	7,880.80	194.70	41.476	
12,200.00	7,618.00	5,048.00	5,048.00	121.24	87.19	24.46	-8,182.26	4,322.42	7,981.74	7,787.16	194.58	41.021	
12,300.00	7,618.00	5,048.00	5,048.00	121.19	87.19	24.46	-8,182.26	4,322.42	7,888.12	7,693.67	194.45	40.566	
12,400.00	7,618.00	5,048.00	5,048.00	121.16	87.19	24.46	-8,182.26	4,322.42	7,794.66	7,600.34	194.32	40.113	
12,500.00	7,618.00	5,048.00	5,048.00	121.14	87.19	24.46	-8,182.26	4,322.42	7,701.36	7,507.19	194.18	39.661	
12,600.00	7,618.00	5,048.00	5,048.00	121.13	87.19	24.46	-8,182.26	4,322.42	7,608.24	7,414.21	194.04	39.211	
12,700.00	7,618.00	5,048.00	5,048.00	121.13	87.19	24.46	-8,182.26	4,322.42	7,515.29	7,321.41	193.89	38.761	
12,800.00	7,618.00	5,048.00	5,048.00	121.15	87.19	24.46	-8,182.26	4,322.42	7,422.53	7,228.79	193.73	38.313	
12,900.00	7,618.00	5,048.00	5,048.00	121.18	87.19	24.46	-8,182.26	4,322.42	7,329.96	7,136.38	193.58	37.866	
13,000.00	7,618.00	5,048.00	5,048.00	121.23	87.19	24.46	-8,182.26	4,322.42	7,237.58	7,044.17	193.41	37.420	
13,100.00	7,618.00	5,048.00	5,048.00	121.29	87.19	24.46	-8,182.26	4,322.42	7,145.41	6,952.17	193.24	36.976	
13,200.00	7,618.00	5,048.00	5,048.00	121.37	87.19	24.46	-8,182.26	4,322.42	7,053.45	6,860.39	193.07	36.534	
13,300.00	7,618.00	5,048.00	5,048.00	121.46	87.19	24.46	-8,182.26	4,322.42	6,961.72	6,768.83	192.88	36.093	
13,400.00	7,618.00	5,048.00	5,048.00	121.57	87.19	24.46	-8,182.26	4,322.42	6,870.21	6,677.52	192.69	35.654	
13,500.00	7,618.00	5,048.00	5,048.00	121.70	87.19	24.46	-8,182.26	4,322.42	6,778.94	6,586.45	192.50	35.216	
13,600.00	7,618.00	5,048.00	5,048.00	121.84	87.19	24.46	-8,182.26	4,322.42	6,687.93	6,495.64	192.29	34.780	
13,700.00	7,618.00	5,048.00	5,048.00	122.01	87.19	24.46	-8,182.26	4,322.42	6,597.17	6,405.10	192.08	34.347	
13,800.00	7,618.00	5,048.00	5,048.00	122.19	87.19	24.46	-8,182.26	4,322.42	6,506.69	6,314.83	191.86	33.915	
13,900.00	7,618.00	5,048.00	5,048.00	122.39	87.19	24.46	-8,182.26	4,322.42	6,416.49	6,224.86	191.62	33.485	
14,000.00	7,618.00	5,048.00	5,048.00	122.62	87.19	24.46	-8,182.26	4,322.42	6,326.58	6,135.20	191.38	33.057	
14,100.00	7,618.00	5,048.00	5,048.00	122.86	87.19	24.46	-8,182.26	4,322.42	6,236.98	6,045.85	191.13	32.631	
14,200.00	7,618.00	5,048.00	5,048.00	123.12	87.19	24.46	-8,182.26	4,322.42	6,147.70	5,956.83	190.87	32.208	
14,300.00	7,618.00	5,048.00	5,048.00	123.41	87.19	24.46	-8,182.26	4,322.42	6,058.76	5,868.16	190.60	31.788	
14,400.00	7,618.00	5,048.00	5,048.00	123.72	87.19	24.46	-8,182.26	4,322.42	5,970.16	5,779.85	190.32	31.369	
14,500.00	7,618.00	5,048.00	5,048.00	124.06	87.19	24.46	-8,182.26	4,322.42	5,881.94	5,691.91	190.02	30.954	
14,600.00	7,618.00	5,048.00	5,048.00	124.42	87.19	24.46	-8,182.26	4,322.42	5,794.09	5,604.38	189.71	30.541	
14,700.00	7,618.00	5,048.00	5,048.00	124.80	87.19	24.46	-8,182.26	4,322.42	5,706.64	5,517.25	189.39	30.131	
14,800.00	7,618.00	5,048.00	5,048.00	125.21	87.19	24.46	-8,182.26	4,322.42	5,619.62	5,430.56	189.06	29.725	
14,900.00	7,618.00	5,048.00	5,048.00	125.65	87.19	24.46	-8,182.26	4,322.42	5,533.03	5,344.32	188.70	29.321	
15,000.00	7,618.00	5,048.00	5,048.00	126.11	87.19	24.46	-8,182.26	4,322.42	5,446.90	5,258.56	188.34	28.921	
15,100.00	7,618.00	5,048.00	5,048.00	126.61	87.19	24.46	-8,182.26	4,322.42	5,361.25	5,173.30	187.95	28.525	
15,200.00	7,618.00	5,048.00	5,048.00	127.13	87.19	24.46	-8,182.26	4,322.42	5,276.11	5,088.56	187.55	28.132	
15,300.00	7,618.00	5,048.00	5,048.00	127.68	87.19	24.46	-8,182.26	4,322.42	5,191.50	5,004.37	187.13	27.743	
15,400.00	7,618.00	5,048.00	5,048.00	128.26	87.19	24.46	-8,182.26	4,322.42	5,107.44	4,920.75	186.69	27.358	
15,500.00	7,618.00	5,048.00	5,048.00	128.87	87.19	24.46	-8,182.26	4,322.42	5,023.97	4,837.74	186.23	26.978	
15,600.00	7,618.00	5,048.00	5,048.00	129.51	87.19	24.46	-8,182.26	4,322.42	4,941.11	4,755.36	185.74	26.602	
15,700.00	7,618.00	5,048.00	5,048.00	130.18	87.19	24.46	-8,182.26	4,322.42	4,858.89	4,673.66	185.24	26.231	
15,800.00	7,618.00	5,048.00	5,048.00	130.88	87.19	24.46	-8,182.26	4,322.42	4,777.36	4,592.65	184.71	25.865	
15,900.00	7,618.00	5,048.00	5,048.00	131.61	87.19	24.46	-8,182.26	4,322.42	4,696.54	4,512.39	184.15	25.504	
16,000.00	7,618.00	5,048.00	5,048.00	132.37	87.19	24.46	-8,182.26	4,322.42	4,616.47	4,432.90	183.57	25.149	
16,100.00	7,618.00	5,048.00	5,048.00	133.17	87.19	24.46	-8,182.26	4,322.42	4,537.19	4,354.23	182.95	24.800	
16,200.00	7,618.00	5,048.00	5,048.00	133.99	87.19	24.46	-8,182.26	4,322.42	4,458.74	4,276.43	182.31	24.457	
16,300.00	7,618.00	5,048.00	5,048.00	134.84	87.19	24.46	-8,182.26	4,322.42	4,381.18	4,199.54	181.64	24.120	
16,400.00	7,618.00	5,048.00	5,048.00	135.72	87.19	24.46	-8,182.26	4,322.42	4,304.53	4,123.60	180.93	23.791	
16,500.00	7,618.00	5,048.00	5,048.00	136.63	87.19	24.46	-8,182.26	4,322.42	4,228.87	4,048.67	180.19	23.469	
16,600.00	7,618.00	5,048.00	5,048.00	137.57	87.19	24.46	-8,182.26	4,322.42	4,154.23	3,974.81	179.42	23.154	
16,700.00	7,618.00	5,048.00	5,048.00	138.54	87.19	24.46	-8,182.26	4,322.42	4,080.68	3,902.07	178.60	22.848	
16,800.00	7,618.00	5,048.00	5,048.00	139.53	87.19	24.46	-8,182.26	4,322.42	4,008.27	3,830.52	177.75	22.550	
16,900.00	7,618.00	5,048.00	5,048.00	140.55	87.19	24.46	-8,182.26	4,322.42	3,937.07	3,760.21	176.86	22.261	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
17,000.00	7,618.00	5,048.00	5,048.00	141.60	87.19	24.46	-8,182.26	4,322.42	3,867.15	3,691.23	175.92	21.982	
17,100.00	7,618.00	5,048.00	5,048.00	142.67	87.19	24.46	-8,182.26	4,322.42	3,798.57	3,623.63	174.95	21.713	
17,200.00	7,618.00	5,048.00	5,048.00	143.77	87.19	24.46	-8,182.26	4,322.42	3,731.42	3,557.49	173.93	21.454	
17,300.00	7,618.00	5,048.00	5,048.00	144.88	87.19	24.46	-8,182.26	4,322.42	3,665.76	3,492.90	172.86	21.206	
17,400.00	7,618.00	5,048.00	5,048.00	146.02	87.19	24.46	-8,182.26	4,322.42	3,601.68	3,429.93	171.75	20.971	
17,500.00	7,618.00	5,048.00	5,048.00	147.19	87.19	24.46	-8,182.26	4,322.42	3,539.26	3,368.67	170.59	20.747	
17,600.00	7,618.00	5,048.00	5,048.00	148.37	87.19	24.46	-8,182.26	4,322.42	3,478.61	3,309.21	169.39	20.536	
17,700.00	7,618.00	5,048.00	5,048.00	149.57	87.19	24.46	-8,182.26	4,322.42	3,419.80	3,251.65	168.15	20.338	
17,800.00	7,618.00	5,048.00	5,048.00	150.79	87.19	24.46	-8,182.26	4,322.42	3,362.93	3,196.07	166.86	20.154	
17,900.00	7,618.00	5,048.00	5,048.00	152.03	87.19	24.46	-8,182.26	4,322.42	3,308.11	3,142.57	165.54	19.984	
18,000.00	7,618.00	5,048.00	5,048.00	153.29	87.19	24.46	-8,182.26	4,322.42	3,255.45	3,091.27	164.18	19.829	
18,100.00	7,618.00	5,048.00	5,048.00	154.57	87.19	24.46	-8,182.26	4,322.42	3,205.03	3,042.24	162.79	19.688	
18,200.00	7,618.00	5,048.00	5,048.00	155.86	87.19	24.46	-8,182.26	4,322.42	3,156.98	2,995.61	161.37	19.564	
18,300.00	7,618.00	5,048.00	5,048.00	157.17	87.19	24.46	-8,182.26	4,322.42	3,111.41	2,951.47	159.94	19.454	
18,400.00	7,618.00	5,048.00	5,048.00	158.49	87.19	24.46	-8,182.26	4,322.42	3,068.41	2,909.92	158.50	19.360	
18,500.00	7,618.00	5,048.00	5,048.00	159.82	87.19	24.46	-8,182.26	4,322.42	3,028.11	2,871.05	157.06	19.280	
18,600.00	7,618.00	5,048.00	5,048.00	161.17	87.19	24.46	-8,182.26	4,322.42	2,990.61	2,834.98	155.64	19.215	
18,700.00	7,618.00	5,048.00	5,048.00	162.54	87.19	24.46	-8,182.26	4,322.42	2,956.02	2,801.78	154.25	19.164	
18,800.00	7,618.00	5,048.00	5,048.00	163.91	87.19	24.46	-8,182.26	4,322.42	2,924.45	2,771.54	152.91	19.126	
18,900.00	7,618.00	5,048.00	5,048.00	165.30	87.19	24.46	-8,182.26	4,322.42	2,895.98	2,744.34	151.63	19.098	
19,000.00	7,618.00	5,048.00	5,048.00	166.70	87.19	24.46	-8,182.26	4,322.42	2,870.71	2,720.26	150.45	19.081	
19,100.00	7,618.00	5,048.00	5,048.00	168.10	87.19	24.46	-8,182.26	4,322.42	2,848.74	2,699.35	149.38	19.070	
19,200.00	7,618.00	5,048.00	5,048.00	169.52	87.19	24.46	-8,182.26	4,322.42	2,830.13	2,681.68	148.45	19.065	
19,300.00	7,618.00	5,048.00	5,048.00	170.95	87.19	24.46	-8,182.26	4,322.42	2,814.95	2,667.27	147.67	19.062	
19,400.00	7,618.00	5,048.00	5,048.00	172.39	87.19	24.46	-8,182.26	4,322.42	2,803.25	2,656.18	147.07	19.060	
19,500.00	7,618.00	5,048.00	5,048.00	173.84	87.19	24.46	-8,182.26	4,322.42	2,795.09	2,648.42	146.67	19.057	
19,600.00	7,618.00	5,048.00	5,048.00	175.30	87.19	24.46	-8,182.26	4,322.42	2,790.49	2,644.02	146.47	19.051	
19,678.46	7,618.00	5,048.00	5,048.00	176.45	87.19	24.46	-8,182.26	4,322.42	2,789.39	2,642.92	146.47	19.044	CC, ES
19,700.00	7,618.00	5,048.00	5,048.00	176.76	87.19	24.46	-8,182.26	4,322.42	2,789.47	2,642.98	146.49	19.041	
19,800.00	7,618.00	5,048.00	5,048.00	178.24	87.19	24.46	-8,182.26	4,322.42	2,792.03	2,645.30	146.73	19.028	
19,896.19	7,618.00	5,048.00	5,048.00	179.66	87.19	24.46	-8,182.26	4,322.42	2,797.87	2,650.71	147.16	19.012	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	142.75	-4,068.91	3,093.70	5,111.46				
100.00	100.00	111.25	111.25	0.13	0.20	142.76	-4,068.87	3,093.36	5,111.27	5,110.94	0.33	N/A	
200.00	200.00	234.84	234.84	0.49	0.41	142.77	-4,068.74	3,092.21	5,110.62	5,109.72	0.91	5,639.419	
300.00	299.98	358.36	358.33	0.85	0.63	73.52	-4,068.52	3,090.24	5,109.02	5,107.54	1.48	3,456.231	
400.00	399.84	481.56	481.51	1.21	0.85	73.67	-4,068.21	3,087.46	5,105.97	5,103.91	2.05	2,486.240	
500.00	499.45	604.22	604.11	1.58	1.07	73.90	-4,067.81	3,083.87	5,101.50	5,098.86	2.64	1,932.261	
600.00	598.70	660.70	660.59	1.97	1.37	74.08	-4,067.55	3,082.84	5,096.48	5,093.15	3.33	1,529.927	
700.00	697.47	732.00	731.88	2.38	1.62	74.31	-4,066.97	3,082.50	5,091.16	5,087.17	3.99	1,276.779	
800.00	795.62	791.85	791.72	2.83	1.82	74.53	-4,066.17	3,083.27	5,085.56	5,080.93	4.63	1,099.131	
900.00	893.06	870.42	870.24	3.31	2.08	74.81	-4,064.61	3,085.50	5,079.55	5,074.19	5.37	946.778	
1,000.00	989.64	1,067.36	1,066.76	3.83	2.77	75.38	-4,056.14	3,094.91	5,072.08	5,065.51	6.56	772.615	
1,100.00	1,085.27	1,134.22	1,133.39	4.40	3.01	75.71	-4,052.14	3,098.71	5,062.93	5,055.57	7.36	687.707	
1,200.00	1,179.82	1,195.13	1,194.05	5.02	3.23	76.05	-4,048.51	3,102.90	5,053.70	5,045.51	8.19	617.072	
1,300.00	1,273.17	1,366.49	1,364.25	5.70	3.88	76.71	-4,035.46	3,117.87	5,043.56	5,034.07	9.49	531.441	
1,400.00	1,365.21	1,483.31	1,479.68	6.43	4.34	77.26	-4,023.03	3,130.78	5,031.54	5,020.87	10.67	471.680	
1,500.00	1,455.84	1,551.00	1,546.30	7.23	4.62	77.70	-4,014.95	3,139.55	5,018.95	5,007.23	11.72	428.136	
1,600.00	1,544.94	1,598.84	1,593.30	8.09	4.82	78.09	-4,009.22	3,146.42	5,006.51	4,993.74	12.77	392.075	
1,700.00	1,632.39	1,643.55	1,637.13	9.01	5.01	78.48	-4,004.02	3,153.54	4,994.54	4,980.67	13.87	360.073	
1,800.00	1,718.11	1,800.00	1,779.23	10.00	5.72	79.25	-3,985.68	3,178.62	4,982.01	4,966.47	15.55	320.477	
1,900.00	1,801.97	1,900.00	2,050.92	11.07	6.19	80.69	-3,945.68	3,220.99	4,966.23	4,949.21	17.02	291.705	
2,000.00	1,883.88	2,123.07	2,106.02	12.20	7.21	81.29	-3,937.47	3,228.07	4,949.19	4,930.03	19.17	258.215	
2,100.00	1,963.74	2,163.00	2,145.27	13.41	7.39	81.82	-3,932.18	3,233.16	4,932.94	4,912.39	20.55	240.039	
2,200.00	2,041.45	2,209.70	2,191.21	14.69	7.60	82.40	-3,926.40	3,239.26	4,917.41	4,895.38	22.04	223.127	
2,300.00	2,116.92	2,263.97	2,244.60	16.05	7.85	83.02	-3,920.00	3,246.58	4,902.53	4,878.90	23.64	207.414	
2,357.48	2,159.25	2,305.73	2,285.66	16.86	8.04	83.45	-3,915.11	3,252.42	4,894.20	4,869.56	24.64	198.665	
2,400.00	2,190.27	2,336.59	2,315.98	17.47	8.18	83.64	-3,911.47	3,256.84	4,888.14	4,862.76	25.38	192.560	
2,500.00	2,263.22	2,404.70	2,382.89	18.92	8.49	84.07	-3,903.51	3,266.76	4,874.48	4,847.33	27.15	179.566	
2,600.00	2,336.18	2,477.83	2,454.76	20.37	8.83	84.54	-3,895.20	3,277.43	4,861.63	4,832.69	28.94	167.976	
2,700.00	2,409.14	2,700.00	2,558.15	21.84	9.86	85.21	-3,882.93	3,292.91	4,849.20	4,817.76	31.43	154.266	
2,800.00	2,482.09	2,662.51	2,636.01	23.31	9.69	85.71	-3,873.11	3,305.09	4,837.08	4,804.33	32.75	147.717	
2,900.00	2,555.05	2,761.42	2,732.86	24.78	10.16	86.32	-3,860.80	3,320.98	4,825.77	4,791.07	34.70	139.084	
3,000.00	2,628.01	2,825.05	2,795.18	26.27	10.46	86.72	-3,852.83	3,331.08	4,814.87	4,778.38	36.49	131.932	
3,100.00	2,700.96	2,888.45	2,857.46	27.75	10.76	87.13	-3,845.63	3,340.47	4,805.01	4,766.72	38.29	125.479	
3,200.00	2,773.92	2,972.26	2,939.86	29.24	11.15	87.67	-3,836.39	3,352.72	4,795.94	4,755.76	40.18	119.361	
3,300.00	2,846.88	3,125.39	3,090.12	30.73	11.87	88.66	-3,818.11	3,375.83	4,787.05	4,744.68	42.37	112.977	
3,400.00	2,919.83	3,178.46	3,142.17	32.23	12.12	89.00	-3,811.50	3,383.78	4,778.20	4,734.06	44.14	108.260	
3,500.00	2,992.79	3,228.57	3,191.37	33.72	12.36	89.32	-3,805.59	3,391.27	4,770.48	4,724.59	45.89	103.961	
3,600.00	3,065.75	3,272.71	3,234.68	35.22	12.57	89.61	-3,800.66	3,398.16	4,764.04	4,716.43	47.61	100.062	
3,700.00	3,138.71	3,315.52	3,276.67	36.72	12.77	89.88	-3,796.12	3,405.18	4,758.91	4,709.59	49.33	96.479	
3,800.00	3,211.66	3,356.44	3,316.81	38.22	12.97	90.14	-3,792.12	3,412.08	4,755.14	4,704.12	51.03	93.187	
3,900.00	3,284.62	3,401.81	3,361.31	39.72	13.18	90.43	-3,788.06	3,419.90	4,752.74	4,699.99	52.74	90.108	
4,000.00	3,357.58	3,457.24	3,415.71	41.22	13.44	90.79	-3,783.47	3,429.53	4,751.51	4,697.00	54.50	87.180	
4,100.00	3,430.53	3,779.66	3,732.90	42.73	14.92	92.91	-3,753.66	3,478.47	4,750.77	4,693.36	57.41	82.753	
4,200.00	3,503.49	3,846.49	3,798.81	44.23	15.22	93.37	-3,746.09	3,486.54	4,746.92	4,687.72	59.20	80.190	
4,300.00	3,576.45	3,896.12	3,847.80	45.74	15.44	93.71	-3,740.82	3,492.48	4,744.23	4,683.33	60.91	77.893	
4,400.00	3,649.40	3,976.62	3,927.28	47.25	15.80	94.26	-3,732.61	3,502.22	4,742.60	4,679.87	62.73	75.600	
4,500.00	3,722.36	4,068.54	4,017.97	48.75	16.21	94.89	-3,722.96	3,513.70	4,741.51	4,676.91	64.60	73.402	
4,571.15	3,774.27	4,106.37	4,055.27	49.83	16.38	95.15	-3,718.94	3,518.60	4,741.17	4,675.36	65.81	72.041	
4,600.00	3,795.32	4,118.59	4,067.31	50.26	16.44	95.23	-3,717.68	3,520.25	4,741.23	4,674.93	66.29	71.521	
4,700.00	3,868.27	4,170.00	4,117.94	51.77	16.67	95.57	-3,712.61	3,527.60	4,742.32	4,674.33	67.98	69.758	
4,800.00	3,941.23	4,286.39	4,232.22	53.28	17.22	96.33	-3,700.22	3,545.85	4,743.72	4,673.77	69.95	67.812	
4,900.00	4,014.19	4,345.00	4,289.90	54.79	17.49	96.72	-3,694.37	3,554.39	4,746.04	4,674.37	71.66	66.226	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,000.00	4,087.15	4,381.26	4,325.69	56.30	17.65	96.97	-3,691.14	3,559.24	4,749.58	4,676.32	73.26	64.836	
5,100.00	4,160.10	4,432.00	4,375.85	57.81	17.87	97.31	-3,687.02	3,565.66	4,754.38	4,679.49	74.89	63.485	
5,200.00	4,233.06	4,483.79	4,427.18	59.32	18.08	97.68	-3,683.31	3,571.48	4,760.40	4,683.90	76.50	62.228	
5,300.00	4,306.02	4,541.26	4,484.30	60.83	18.31	98.09	-3,679.81	3,576.74	4,767.62	4,689.51	78.11	61.039	
5,400.00	4,378.97	4,611.28	4,554.04	62.34	18.58	98.61	-3,676.04	3,581.62	4,775.82	4,696.08	79.73	59.897	
5,500.00	4,451.93	4,672.49	4,615.11	63.85	18.79	99.08	-3,673.12	3,584.75	4,785.03	4,703.74	81.30	58.860	
5,600.00	4,524.89	4,735.76	4,678.28	65.36	19.01	99.57	-3,670.47	3,587.09	4,795.33	4,712.49	82.84	57.888	
5,700.00	4,597.84	4,794.58	4,737.04	66.88	19.21	100.03	-3,668.27	3,588.51	4,806.68	4,722.34	84.34	56.992	
5,800.00	4,670.80	4,839.28	4,781.72	68.39	19.35	100.38	-3,666.92	3,589.03	4,819.31	4,733.55	85.76	56.192	
5,900.00	4,743.76	4,888.03	4,830.46	69.90	19.50	100.78	-3,665.84	3,588.99	4,833.29	4,746.11	87.17	55.444	
6,000.00	4,816.71	4,946.06	4,888.47	71.41	19.67	101.25	-3,664.87	3,588.09	4,848.45	4,759.87	88.58	54.733	
6,100.00	4,889.67	5,031.28	4,973.64	72.93	19.90	101.95	-3,663.61	3,585.58	4,864.61	4,774.57	90.04	54.024	
6,200.00	4,962.63	5,101.43	5,043.73	74.44	20.10	102.53	-3,662.48	3,583.04	4,881.58	4,790.14	91.44	53.388	
6,300.00	5,035.59	5,176.27	5,118.50	75.95	20.30	103.15	-3,661.33	3,579.97	4,899.52	4,806.70	92.82	52.785	
6,400.00	5,108.54	5,257.37	5,199.51	77.47	20.53	103.82	-3,659.94	3,576.41	4,918.29	4,824.09	94.20	52.210	
6,500.00	5,181.50	5,324.97	5,267.03	78.98	20.71	104.38	-3,658.68	3,573.33	4,937.90	4,842.38	95.52	51.693	
6,600.00	5,254.46	5,374.14	5,316.16	80.49	20.85	104.78	-3,657.92	3,571.47	4,958.67	4,861.90	96.77	51.241	
6,700.00	5,327.41	5,424.11	5,366.11	82.01	21.00	105.19	-3,657.34	3,570.09	4,980.66	4,882.65	98.00	50.822	
6,800.00	5,400.37	5,480.00	5,421.99	83.52	21.16	105.63	-3,656.94	3,569.15	5,003.83	4,904.59	99.23	50.425	
6,900.00	5,473.33	5,540.63	5,482.62	85.04	21.34	106.10	-3,656.67	3,568.50	5,028.04	4,927.57	100.47	50.046	
7,000.00	5,546.28	5,608.08	5,550.06	86.55	21.54	106.63	-3,656.44	3,567.84	5,053.16	4,951.45	101.71	49.683	
7,100.00	5,619.24	5,676.79	5,618.77	88.06	21.74	107.16	-3,656.27	3,567.24	5,079.16	4,976.22	102.93	49.344	
7,200.00	5,692.20	5,748.12	5,690.10	89.58	21.95	107.71	-3,656.12	3,566.55	5,105.98	5,001.83	104.15	49.025	
7,300.00	5,765.15	5,819.26	5,761.23	91.09	22.16	108.26	-3,655.97	3,565.76	5,133.61	5,028.27	105.35	48.731	
7,400.00	5,838.11	5,894.97	5,836.94	92.61	22.39	108.84	-3,655.80	3,564.79	5,162.01	5,055.47	106.54	48.452	
7,500.00	5,911.07	5,971.21	5,913.17	94.12	22.62	109.42	-3,655.55	3,563.65	5,191.11	5,083.40	107.72	48.193	
7,600.00	5,984.03	6,047.01	5,988.95	95.64	22.84	109.99	-3,655.23	3,562.35	5,220.92	5,112.05	108.87	47.956	
7,700.00	6,056.98	6,122.40	6,064.33	97.15	23.07	110.56	-3,654.85	3,560.91	5,251.44	5,141.43	110.00	47.739	
7,800.00	6,129.94	6,197.56	6,139.47	98.67	23.29	111.12	-3,654.39	3,559.30	5,282.64	5,171.52	111.12	47.542	
7,900.00	6,202.90	6,260.98	6,202.87	100.18	23.49	111.60	-3,654.05	3,557.88	5,314.63	5,202.47	112.16	47.383	
8,000.00	6,275.85	6,326.64	6,268.51	101.70	23.68	112.08	-3,653.75	3,556.35	5,347.41	5,234.21	113.20	47.239	
8,100.00	6,348.81	6,406.07	6,347.92	103.21	23.93	112.67	-3,653.42	3,554.47	5,380.93	5,266.65	114.28	47.088	
8,200.00	6,421.77	6,495.34	6,437.17	104.73	24.20	113.32	-3,652.82	3,552.58	5,414.93	5,299.55	115.38	46.932	
8,300.00	6,494.72	6,577.08	6,518.90	106.24	24.45	113.91	-3,652.08	3,551.08	5,449.41	5,332.97	116.44	46.802	
8,400.00	6,567.68	6,654.64	6,596.44	107.76	24.70	114.46	-3,651.33	3,549.88	5,484.47	5,367.00	117.47	46.690	
8,500.00	6,640.64	6,735.33	6,677.12	109.27	24.95	115.03	-3,650.51	3,548.92	5,520.09	5,401.59	118.50	46.584	
8,600.00	6,713.59	6,821.11	6,762.89	110.79	25.23	115.63	-3,649.58	3,548.44	5,556.18	5,436.64	119.54	46.478	
8,700.00	6,786.55	6,908.04	6,849.81	112.30	25.51	116.22	-3,648.55	3,548.59	5,592.70	5,472.12	120.59	46.379	
8,800.00	6,859.51	6,965.34	6,907.11	113.82	25.70	116.60	-3,647.98	3,548.75	5,629.89	5,508.41	121.49	46.342	
8,900.00	6,932.46	7,030.51	6,972.28	115.33	25.91	117.04	-3,647.40	3,549.01	5,667.74	5,545.33	122.41	46.303	
9,000.00	7,005.42	7,095.40	7,037.17	116.85	26.13	117.47	-3,646.93	3,549.30	5,706.25	5,582.94	123.31	46.276	
9,104.89	7,081.95	7,163.24	7,105.01	118.44	26.35	117.91	-3,646.55	3,549.59	5,747.35	5,623.11	124.24	46.259	
9,150.00	7,115.15	7,192.64	7,134.41	119.12	26.44	112.96	-3,646.42	3,549.71	5,763.63	5,638.99	124.65	46.240	
9,200.00	7,152.46	7,225.65	7,167.41	119.86	26.55	107.31	-3,646.30	3,549.85	5,778.02	5,652.91	125.11	46.184	
9,250.00	7,190.04	7,269.92	7,211.69	120.57	26.70	101.68	-3,646.11	3,549.97	5,788.42	5,662.79	125.64	46.073	
9,300.00	7,227.59	7,314.07	7,255.83	121.25	26.84	96.16	-3,645.84	3,549.99	5,794.76	5,668.59	126.16	45.931	
9,350.00	7,264.83	7,357.61	7,299.37	121.89	26.98	90.88	-3,645.49	3,549.90	5,796.99	5,670.31	126.69	45.759	
9,400.00	7,301.48	7,400.19	7,341.95	122.48	27.12	85.99	-3,645.06	3,549.71	5,795.13	5,667.93	127.19	45.562	
9,450.00	7,337.26	7,442.19	7,383.95	123.01	27.26	81.59	-3,644.57	3,549.42	5,789.19	5,661.51	127.68	45.341	
9,500.00	7,371.90	7,482.51	7,424.26	123.49	27.39	77.73	-3,644.01	3,549.02	5,779.24	5,651.09	128.14	45.100	
9,550.00	7,405.13	7,520.82	7,462.56	123.91	27.52	74.45	-3,643.40	3,548.54	5,765.35	5,636.78	128.57	44.841	
9,600.00	7,436.70	7,556.85	7,498.58	124.27	27.63	71.76	-3,642.77	3,548.00	5,747.65	5,618.68	128.97	44.567	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	7,590.33	7,532.05	124.57	27.74	69.67	-3,642.12	3,547.41	5,726.26	5,596.94	129.32	44.280	
9,700.00	7,493.91	7,608.85	7,550.56	124.81	27.80	68.06	-3,641.81	3,547.19	5,701.39	5,571.81	129.58	43.999	
9,750.00	7,519.11	7,629.78	7,571.49	125.00	27.87	67.08	-3,641.49	3,546.98	5,673.21	5,543.38	129.82	43.700	
9,800.00	7,541.79	7,648.76	7,590.47	125.12	27.93	66.72	-3,641.23	3,546.85	5,641.90	5,511.87	130.03	43.390	
9,850.00	7,561.77	7,665.60	7,607.31	125.20	27.99	67.02	-3,641.02	3,546.79	5,607.68	5,477.49	130.20	43.071	
9,900.00	7,578.90	7,680.11	7,621.82	125.23	28.04	68.07	-3,640.86	3,546.77	5,570.79	5,440.46	130.33	42.744	
9,950.00	7,593.04	7,692.15	7,633.85	125.22	28.08	69.99	-3,640.75	3,546.78	5,531.48	5,401.05	130.43	42.410	
10,000.00	7,604.09	7,701.56	7,643.27	125.17	28.11	72.98	-3,640.67	3,546.80	5,490.02	5,359.52	130.50	42.071	
10,050.00	7,611.97	7,708.23	7,649.93	125.08	28.13	77.34	-3,640.61	3,546.83	5,446.69	5,316.16	130.53	41.726	
10,100.00	7,616.61	7,712.05	7,653.76	124.97	28.14	83.54	-3,640.59	3,546.85	5,401.80	5,271.25	130.55	41.378	
10,145.95	7,618.00	7,713.00	7,654.70	124.84	28.14	91.37	-3,640.58	3,546.86	5,359.43	5,228.89	130.54	41.056	
10,200.00	7,618.00	7,712.64	7,654.35	124.69	28.14	91.36	-3,640.58	3,546.85	5,309.11	5,178.59	130.52	40.676	
10,300.00	7,618.00	7,711.98	7,653.69	124.41	28.14	91.35	-3,640.59	3,546.85	5,216.20	5,085.71	130.49	39.975	
10,400.00	7,618.00	7,711.31	7,653.02	124.14	28.14	91.33	-3,640.59	3,546.85	5,123.56	4,993.11	130.45	39.276	
10,500.00	7,618.00	7,710.63	7,652.33	123.88	28.14	91.31	-3,640.60	3,546.84	5,031.20	4,900.79	130.41	38.581	
10,600.00	7,618.00	7,709.93	7,651.64	123.63	28.13	91.28	-3,640.60	3,546.84	4,939.14	4,808.78	130.36	37.888	
10,700.00	7,618.00	7,709.23	7,650.94	123.40	28.13	91.26	-3,640.61	3,546.84	4,847.39	4,717.08	130.32	37.197	
10,800.00	7,618.00	7,708.51	7,650.22	123.18	28.13	91.24	-3,640.61	3,546.83	4,755.98	4,625.71	130.26	36.510	
10,900.00	7,618.00	7,707.78	7,649.49	122.96	28.13	91.22	-3,640.62	3,546.83	4,664.91	4,534.71	130.21	35.827	
11,000.00	7,618.00	7,707.04	7,648.75	122.76	28.12	91.20	-3,640.62	3,546.83	4,574.23	4,444.08	130.15	35.147	
11,100.00	7,618.00	7,706.29	7,647.99	122.57	28.12	91.18	-3,640.63	3,546.82	4,483.93	4,353.85	130.08	34.470	
11,200.00	7,618.00	7,705.52	7,647.23	122.39	28.12	91.15	-3,640.64	3,546.82	4,394.06	4,264.05	130.01	33.798	
11,300.00	7,618.00	7,704.74	7,646.45	122.23	28.12	91.13	-3,640.64	3,546.82	4,304.63	4,174.70	129.93	33.129	
11,400.00	7,618.00	7,703.94	7,645.65	122.07	28.11	91.11	-3,640.65	3,546.81	4,215.68	4,085.83	129.85	32.466	
11,500.00	7,618.00	7,703.14	7,644.84	121.93	28.11	91.08	-3,640.65	3,546.81	4,127.23	3,997.47	129.76	31.807	
11,600.00	7,618.00	7,702.31	7,644.02	121.79	28.11	91.06	-3,640.66	3,546.81	4,039.33	3,909.66	129.66	31.153	
11,700.00	7,618.00	7,701.48	7,643.19	121.67	28.11	91.04	-3,640.67	3,546.80	3,951.99	3,822.44	129.55	30.504	
11,800.00	7,618.00	7,700.62	7,642.33	121.56	28.10	91.01	-3,640.68	3,546.80	3,865.28	3,735.84	129.44	29.862	
11,900.00	7,618.00	7,699.76	7,641.46	121.46	28.10	90.99	-3,640.68	3,546.80	3,779.21	3,649.90	129.31	29.226	
12,000.00	7,618.00	7,698.87	7,640.58	121.38	28.10	90.96	-3,640.69	3,546.80	3,693.85	3,564.68	129.17	28.596	
12,100.00	7,618.00	7,697.97	7,639.68	121.30	28.10	90.93	-3,640.70	3,546.79	3,609.24	3,480.22	129.02	27.973	
12,200.00	7,618.00	7,697.05	7,638.76	121.24	28.09	90.91	-3,640.71	3,546.79	3,525.44	3,396.58	128.86	27.359	
12,300.00	7,618.00	7,696.12	7,637.83	121.19	28.09	90.88	-3,640.71	3,546.79	3,442.50	3,313.82	128.68	26.752	
12,400.00	7,618.00	7,695.17	7,636.88	121.16	28.09	90.85	-3,640.72	3,546.79	3,360.49	3,232.01	128.49	26.154	
12,500.00	7,618.00	7,694.20	7,635.90	121.14	28.08	90.82	-3,640.73	3,546.78	3,279.48	3,151.21	128.27	25.566	
12,600.00	7,618.00	7,693.21	7,634.91	121.13	28.08	90.79	-3,640.74	3,546.78	3,199.55	3,071.50	128.04	24.988	
12,700.00	7,618.00	7,692.20	7,633.90	121.13	28.08	90.76	-3,640.75	3,546.78	3,120.76	2,992.98	127.79	24.421	
12,800.00	7,618.00	7,691.17	7,632.87	121.15	28.07	90.73	-3,640.76	3,546.78	3,043.23	2,915.72	127.51	23.866	
12,900.00	7,618.00	7,690.12	7,631.82	121.18	28.07	90.70	-3,640.77	3,546.78	2,967.04	2,839.83	127.21	23.324	
13,000.00	7,618.00	7,689.04	7,630.75	121.23	28.07	90.67	-3,640.78	3,546.77	2,892.30	2,765.42	126.88	22.795	
13,100.00	7,618.00	7,687.95	7,629.66	121.29	28.06	90.64	-3,640.79	3,546.77	2,819.13	2,692.61	126.52	22.281	
13,200.00	7,618.00	7,686.83	7,628.54	121.37	28.06	90.60	-3,640.80	3,546.77	2,747.65	2,621.51	126.13	21.783	
13,300.00	7,618.00	7,685.69	7,627.40	121.46	28.05	90.57	-3,640.81	3,546.77	2,677.99	2,552.28	125.71	21.303	
13,400.00	7,618.00	7,684.53	7,626.24	121.57	28.05	90.54	-3,640.82	3,546.77	2,610.31	2,485.05	125.25	20.840	
13,500.00	7,618.00	7,683.34	7,625.05	121.70	28.05	90.50	-3,640.83	3,546.77	2,544.75	2,420.00	124.76	20.398	
13,600.00	7,618.00	7,682.12	7,623.83	121.84	28.04	90.47	-3,640.84	3,546.77	2,481.50	2,357.28	124.22	19.977	
13,700.00	7,618.00	7,680.88	7,622.59	122.01	28.04	90.43	-3,640.86	3,546.77	2,420.72	2,297.08	123.64	19.578	
13,800.00	7,618.00	7,679.61	7,621.32	122.19	28.03	90.39	-3,640.87	3,546.77	2,362.62	2,239.59	123.02	19.204	
13,900.00	7,618.00	7,678.31	7,620.02	122.39	28.03	90.35	-3,640.88	3,546.77	2,307.38	2,185.02	122.37	18.857	
14,000.00	7,618.00	7,676.99	7,618.69	122.62	28.03	90.31	-3,640.90	3,546.77	2,255.23	2,133.57	121.67	18.536	
14,100.00	7,618.00	7,675.63	7,617.34	122.86	28.02	90.27	-3,640.91	3,546.77	2,206.38	2,085.45	120.93	18.245	
14,200.00	7,618.00	7,674.24	7,615.95	123.12	28.02	90.23	-3,640.93	3,546.77	2,161.06	2,040.90	120.16	17.985	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	7,672.82	7,614.53	123.41	28.01	90.19	-3,640.94	3,546.77	2,119.48	2,000.12	119.36	17.757	
14,400.00	7,618.00	7,671.36	7,613.07	123.72	28.01	90.15	-3,640.96	3,546.77	2,081.89	1,963.34	118.54	17.562	
14,500.00	7,618.00	7,669.87	7,611.58	124.06	28.00	90.11	-3,640.97	3,546.78	2,048.49	1,930.77	117.72	17.402	
14,600.00	7,618.00	7,668.34	7,610.05	124.42	28.00	90.06	-3,640.99	3,546.78	2,019.49	1,902.60	116.89	17.277	
14,700.00	7,618.00	7,666.78	7,608.49	124.80	27.99	90.01	-3,641.01	3,546.78	1,995.09	1,879.01	116.08	17.188	
14,800.00	7,618.00	7,665.17	7,606.88	125.21	27.99	89.97	-3,641.03	3,546.79	1,975.45	1,860.15	115.29	17.134	
14,900.00	7,618.00	7,663.53	7,605.24	125.65	27.98	89.92	-3,641.05	3,546.79	1,960.72	1,846.16	114.56	17.116	SF
15,000.00	7,618.00	7,661.85	7,603.56	126.11	27.98	89.87	-3,641.06	3,546.80	1,951.01	1,837.13	113.88	17.133	
15,100.00	7,618.00	7,660.12	7,601.83	126.61	27.97	89.82	-3,641.09	3,546.80	1,946.40	1,833.12	113.27	17.183	
15,139.93	7,618.00	7,659.41	7,601.12	126.81	27.97	89.80	-3,641.09	3,546.80	1,945.99	1,832.93	113.06	17.212	CC, ES
15,200.00	7,618.00	7,658.34	7,600.05	127.13	27.97	89.77	-3,641.11	3,546.81	1,946.91	1,834.16	112.76	17.267	
15,300.00	7,618.00	7,656.52	7,598.23	127.68	27.96	89.71	-3,641.13	3,546.81	1,952.56	1,840.22	112.34	17.381	
15,400.00	7,618.00	7,654.65	7,596.36	128.26	27.95	89.66	-3,641.15	3,546.82	1,963.29	1,851.26	112.02	17.526	
15,500.00	7,618.00	7,652.73	7,594.44	128.87	27.95	89.60	-3,641.18	3,546.83	1,979.01	1,867.20	111.81	17.700	
15,600.00	7,618.00	7,650.75	7,592.46	129.51	27.94	89.54	-3,641.20	3,546.84	1,999.62	1,887.91	111.71	17.900	
15,700.00	7,618.00	7,648.72	7,590.43	130.18	27.93	89.48	-3,641.23	3,546.85	2,024.96	1,913.26	111.71	18.127	
15,800.00	7,618.00	7,646.63	7,588.34	130.88	27.93	89.42	-3,641.25	3,546.86	2,054.86	1,943.06	111.80	18.380	
15,900.00	7,618.00	7,644.48	7,586.19	131.61	27.92	89.36	-3,641.28	3,546.87	2,089.12	1,977.14	111.98	18.656	
16,000.00	7,618.00	7,642.27	7,583.98	132.37	27.91	89.29	-3,641.31	3,546.89	2,127.54	2,015.30	112.24	18.956	
16,100.00	7,618.00	7,639.99	7,581.70	133.17	27.91	89.23	-3,641.34	3,546.90	2,169.88	2,057.32	112.56	19.278	
16,200.00	7,618.00	7,637.64	7,579.36	133.99	27.90	89.16	-3,641.38	3,546.92	2,215.93	2,103.00	112.93	19.623	
16,300.00	7,618.00	7,635.23	7,576.94	134.84	27.89	89.09	-3,641.41	3,546.94	2,265.46	2,152.12	113.34	19.988	
16,400.00	7,618.00	7,632.73	7,574.45	135.72	27.88	89.01	-3,641.44	3,546.96	2,318.24	2,204.46	113.78	20.374	
16,500.00	7,618.00	7,630.16	7,571.87	136.63	27.87	88.94	-3,641.48	3,546.98	2,374.06	2,259.81	114.25	20.780	
16,600.00	7,618.00	7,627.50	7,569.22	137.57	27.86	88.86	-3,641.52	3,547.00	2,432.72	2,317.99	114.73	21.204	
16,700.00	7,618.00	7,624.76	7,566.48	138.54	27.86	88.78	-3,641.56	3,547.02	2,494.00	2,378.79	115.21	21.647	
16,800.00	7,618.00	7,621.93	7,563.64	139.53	27.85	88.69	-3,641.60	3,547.05	2,557.72	2,442.02	115.70	22.106	
16,900.00	7,618.00	7,619.00	7,560.72	140.55	27.84	88.61	-3,641.65	3,547.08	2,623.71	2,507.53	116.18	22.582	
17,000.00	7,618.00	7,615.97	7,557.69	141.60	27.83	88.52	-3,641.70	3,547.11	2,691.79	2,575.13	116.66	23.074	
17,100.00	7,618.00	7,612.84	7,554.55	142.67	27.82	88.43	-3,641.75	3,547.15	2,761.82	2,644.69	117.13	23.580	
17,200.00	7,618.00	7,609.59	7,551.31	143.77	27.81	88.33	-3,641.80	3,547.18	2,833.64	2,716.06	117.58	24.100	
17,300.00	7,618.00	7,606.23	7,547.94	144.88	27.79	88.23	-3,641.86	3,547.22	2,907.13	2,789.11	118.02	24.633	
17,400.00	7,618.00	7,602.74	7,544.46	146.02	27.78	88.13	-3,641.91	3,547.27	2,982.15	2,863.71	118.44	25.178	
17,500.00	7,618.00	7,599.12	7,540.84	147.19	27.77	88.02	-3,641.98	3,547.32	3,058.61	2,939.76	118.85	25.735	
17,600.00	7,618.00	7,595.36	7,537.08	148.37	27.76	87.91	-3,642.04	3,547.37	3,136.39	3,017.15	119.24	26.303	
17,700.00	7,618.00	7,591.46	7,533.18	149.57	27.75	87.80	-3,642.11	3,547.43	3,215.39	3,095.77	119.62	26.881	
17,800.00	7,618.00	7,587.40	7,529.12	150.79	27.73	87.68	-3,642.19	3,547.49	3,295.53	3,175.56	119.98	27.468	
17,900.00	7,618.00	7,583.18	7,524.90	152.03	27.72	87.55	-3,642.26	3,547.55	3,376.73	3,256.41	120.32	28.065	
18,000.00	7,618.00	7,578.78	7,520.50	153.29	27.70	87.42	-3,642.35	3,547.63	3,458.92	3,338.27	120.65	28.669	
18,100.00	7,618.00	7,575.00	7,516.73	154.57	27.69	87.31	-3,642.42	3,547.69	3,542.01	3,421.05	120.97	29.281	
18,200.00	7,618.00	7,575.00	7,516.73	155.86	27.69	87.31	-3,642.42	3,547.69	3,625.96	3,504.67	121.29	29.895	
18,300.00	7,618.00	7,575.00	7,516.73	157.17	27.69	87.31	-3,642.42	3,547.69	3,710.71	3,589.11	121.60	30.515	
18,400.00	7,618.00	7,575.00	7,516.73	158.49	27.69	87.31	-3,642.42	3,547.69	3,796.20	3,674.30	121.90	31.143	
18,500.00	7,618.00	7,575.00	7,516.73	159.82	27.69	87.31	-3,642.42	3,547.69	3,882.38	3,760.20	122.18	31.776	
18,600.00	7,618.00	7,567.31	7,509.03	161.17	27.67	87.09	-3,642.57	3,547.82	3,969.20	3,846.78	122.41	32.424	
18,700.00	7,618.00	7,565.85	7,507.58	162.54	27.66	87.04	-3,642.60	3,547.85	4,056.63	3,933.96	122.67	33.070	
18,800.00	7,618.00	7,564.41	7,506.14	163.91	27.66	87.00	-3,642.62	3,547.87	4,144.63	4,021.72	122.91	33.721	
18,900.00	7,618.00	7,562.98	7,504.71	165.30	27.65	86.96	-3,642.65	3,547.90	4,233.16	4,110.02	123.14	34.376	
19,000.00	7,618.00	7,561.56	7,503.29	166.70	27.65	86.92	-3,642.68	3,547.92	4,322.19	4,198.83	123.36	35.036	
19,100.00	7,618.00	7,560.15	7,501.88	168.10	27.64	86.88	-3,642.70	3,547.94	4,411.70	4,288.12	123.58	35.700	
19,200.00	7,618.00	7,558.75	7,500.48	169.52	27.64	86.84	-3,642.73	3,547.97	4,501.64	4,377.86	123.78	36.368	
19,300.00	7,618.00	7,557.36	7,499.09	170.95	27.63	86.79	-3,642.76	3,547.99	4,592.00	4,468.02	123.98	37.039	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	7,555.98	7,497.71	172.39	27.63	86.75	-3,642.78	3,548.01	4,682.75	4,558.58	124.17	37.713	
19,500.00	7,618.00	7,554.61	7,496.34	173.84	27.63	86.71	-3,642.81	3,548.03	4,773.86	4,649.52	124.35	38.391	
19,600.00	7,618.00	7,553.25	7,494.99	175.30	27.62	86.67	-3,642.83	3,548.06	4,865.33	4,740.81	124.52	39.072	
19,700.00	7,618.00	7,551.90	7,493.64	176.76	27.62	86.63	-3,642.86	3,548.08	4,957.13	4,832.44	124.69	39.755	
19,800.00	7,618.00	7,550.56	7,492.30	178.24	27.61	86.60	-3,642.88	3,548.10	5,049.24	4,924.38	124.85	40.442	
19,896.19	7,618.00	7,549.29	7,491.02	179.66	27.61	86.56	-3,642.90	3,548.12	5,138.11	5,013.11	125.00	41.104	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	33.33	33.33	0.00	0.05	163.84	-7,121.70	2,064.30	7,414.85				
100.00	100.00	153.32	153.32	0.13	0.39	163.83	-7,121.13	2,065.00	7,414.56	7,414.03	0.52	N/A	
200.00	200.00	232.55	232.55	0.49	0.66	163.83	-7,121.08	2,064.37	7,414.28	7,413.12	1.16	6,412.674	
218.84	218.84	246.69	246.68	0.56	0.71	94.52	-7,121.11	2,064.22	7,414.26	7,412.99	1.27	5,826.655	
300.00	299.98	292.63	292.61	0.85	0.88	94.53	-7,121.36	2,063.63	7,414.53	7,412.81	1.72	4,305.054	
400.00	399.84	349.00	348.97	1.21	1.07	94.53	-7,122.09	2,062.65	7,415.69	7,413.41	2.28	3,251.922	
500.00	499.45	410.66	410.60	1.58	1.29	94.55	-7,123.33	2,061.26	7,417.68	7,414.81	2.87	2,582.456	
600.00	598.70	478.61	478.50	1.97	1.54	94.58	-7,125.17	2,059.13	7,420.41	7,416.90	3.51	2,115.738	
700.00	697.47	557.80	557.51	2.38	1.83	94.64	-7,128.14	2,054.85	7,423.84	7,419.63	4.21	1,762.936	
800.00	795.62	934.79	930.57	2.83	3.35	95.54	-7,141.83	2,005.05	7,424.50	7,418.32	6.17	1,202.906	
900.00	893.06	986.00	980.65	3.31	3.58	95.69	-7,144.17	1,994.61	7,425.68	7,418.80	6.89	1,078.378	
1,000.00	989.64	1,031.00	1,024.53	3.83	3.79	95.81	-7,146.53	1,984.88	7,427.86	7,420.24	7.62	974.627	
1,100.00	1,085.27	1,096.00	1,087.60	4.40	4.11	96.00	-7,150.49	1,969.67	7,431.07	7,422.56	8.51	873.118	
1,200.00	1,179.82	1,096.00	1,087.60	5.02	4.11	95.91	-7,150.49	1,969.67	7,435.62	7,426.50	9.13	814.610	
1,300.00	1,273.17	1,133.06	1,123.45	5.70	4.30	95.95	-7,153.29	1,960.73	7,441.54	7,431.55	9.99	745.005	
1,400.00	1,365.21	1,183.00	1,171.73	6.43	4.56	96.04	-7,157.82	1,948.80	7,449.16	7,438.19	10.97	678.936	
1,500.00	1,455.84	1,183.00	1,171.73	7.23	4.56	95.87	-7,157.82	1,948.80	7,457.88	7,446.13	11.75	634.497	
1,600.00	1,544.94	1,206.06	1,193.99	8.09	4.69	95.78	-7,160.17	1,943.24	7,468.20	7,455.48	12.72	587.034	
1,700.00	1,632.39	1,238.81	1,225.48	9.01	4.87	95.73	-7,163.72	1,935.01	7,479.89	7,466.09	13.80	541.838	
1,800.00	1,718.11	1,271.00	1,256.32	10.00	5.04	95.65	-7,167.45	1,926.55	7,492.95	7,478.00	14.95	501.289	
1,900.00	1,801.97	1,296.69	1,280.87	11.07	5.19	95.51	-7,170.58	1,919.65	7,507.40	7,491.27	16.12	465.585	
2,000.00	1,883.88	1,322.56	1,305.58	12.20	5.34	95.34	-7,173.86	1,912.72	7,523.26	7,505.89	17.37	433.192	
2,100.00	1,963.74	1,358.00	1,339.41	13.41	5.55	95.21	-7,178.54	1,903.26	7,540.55	7,521.82	18.73	402.614	
2,200.00	2,041.45	1,414.83	1,393.65	14.69	5.88	95.20	-7,186.13	1,888.09	7,559.13	7,538.85	20.28	372.662	
2,300.00	2,116.92	1,469.69	1,446.02	16.05	6.21	95.16	-7,193.31	1,873.40	7,578.75	7,556.86	21.89	346.167	
2,357.48	2,159.25	1,488.94	1,464.38	16.86	6.32	95.05	-7,195.85	1,868.22	7,590.62	7,567.85	22.77	333.316	
2,400.00	2,190.27	1,502.88	1,477.67	17.47	6.41	95.14	-7,197.72	1,864.46	7,599.66	7,576.23	23.43	324.365	
2,500.00	2,263.22	1,532.00	1,505.42	18.92	6.58	95.33	-7,201.65	1,856.56	7,621.67	7,596.72	24.96	305.412	
2,600.00	2,336.18	1,557.66	1,529.85	20.37	6.74	95.51	-7,205.19	1,849.55	7,644.75	7,618.29	26.46	288.878	
2,700.00	2,409.14	1,580.52	1,551.58	21.84	6.88	95.66	-7,208.44	1,843.24	7,668.92	7,640.97	27.95	274.367	
2,800.00	2,482.09	1,620.00	1,589.04	23.31	7.13	95.92	-7,214.23	1,832.21	7,694.21	7,664.68	29.54	260.495	
2,900.00	2,555.05	1,620.00	1,589.04	24.78	7.13	95.92	-7,214.23	1,832.21	7,720.50	7,689.63	30.87	250.092	
3,000.00	2,628.01	1,654.22	1,621.48	26.27	7.34	96.15	-7,219.41	1,822.60	7,747.86	7,715.45	32.41	239.044	
3,100.00	2,700.96	1,681.88	1,647.69	27.75	7.52	96.34	-7,223.67	1,814.88	7,776.25	7,742.35	33.90	229.371	
3,200.00	2,773.92	1,712.21	1,676.44	29.24	7.71	96.54	-7,228.42	1,806.45	7,805.65	7,770.25	35.40	220.499	
3,300.00	2,846.88	2,231.00	2,171.98	30.73	10.92	99.93	-7,294.83	1,668.47	7,834.82	7,794.93	39.89	196.403	
3,400.00	2,919.83	2,271.21	2,210.67	32.23	11.16	100.19	-7,298.65	1,658.24	7,862.91	7,821.48	41.43	189.803	
3,500.00	2,992.79	2,291.31	2,229.98	33.72	11.28	100.32	-7,300.67	1,653.04	7,892.10	7,849.27	42.83	184.264	
3,600.00	3,065.75	2,318.00	2,255.58	35.22	11.44	100.49	-7,303.48	1,646.03	7,922.32	7,878.06	44.26	178.991	
3,700.00	3,138.71	2,347.61	2,283.97	36.72	11.62	100.68	-7,306.69	1,638.23	7,953.51	7,907.81	45.70	174.043	
3,800.00	3,211.66	2,566.31	2,494.30	38.22	12.93	102.08	-7,328.29	1,582.41	7,985.15	7,936.90	48.24	165.519	
3,900.00	3,284.62	3,900.00	2,574.48	39.72	20.74	102.60	-7,335.32	1,561.72	8,016.67	7,959.66	57.01	140.622	
4,000.00	3,357.58	2,667.00	2,591.45	41.22	13.52	102.71	-7,336.80	1,557.33	8,049.06	7,997.77	51.29	156.928	
4,100.00	3,430.53	2,708.72	2,631.61	42.73	13.77	102.97	-7,340.34	1,546.59	8,082.26	8,029.51	52.75	153.223	
4,200.00	3,503.49	2,728.04	2,650.21	44.23	13.88	103.09	-7,342.11	1,541.65	8,116.50	8,062.45	54.06	150.140	
4,300.00	3,576.45	2,755.00	2,676.15	45.74	14.05	103.26	-7,344.70	1,534.80	8,151.72	8,096.32	55.40	147.139	
4,400.00	3,649.40	4,400.00	2,738.06	47.25	23.73	103.66	-7,350.82	1,518.88	8,187.64	8,121.91	65.73	124.567	
4,500.00	3,722.36	2,990.22	2,903.61	48.75	15.39	104.71	-7,366.01	1,478.84	8,223.78	8,164.71	59.07	139.221	
4,600.00	3,795.32	4,600.00	2,998.72	50.26	24.44	105.31	-7,373.69	1,456.03	8,260.08	8,191.22	68.86	119.956	
4,700.00	3,868.27	3,135.70	3,044.58	51.77	16.21	105.60	-7,377.28	1,444.75	8,297.03	8,234.86	62.16	133.469	
4,800.00	3,941.23	3,160.79	3,068.82	53.28	16.36	105.75	-7,379.24	1,438.60	8,334.85	8,271.42	63.43	131.411	
4,900.00	4,014.19	3,191.00	3,097.98	54.79	16.53	105.94	-7,381.69	1,431.05	8,373.54	8,308.84	64.70	129.419	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,000.00	4,087.15	3,210.94	3,117.20	56.30	16.65	106.06	-7,383.37	1,426.01	8,413.07	8,347.17	65.91	127.654	
5,100.00	4,160.10	3,236.49	3,141.80	57.81	16.80	106.21	-7,385.58	1,419.49	8,453.46	8,386.33	67.13	125.931	
5,200.00	4,233.06	3,278.00	3,181.73	59.32	17.05	106.47	-7,389.33	1,408.78	8,494.70	8,426.27	68.43	124.140	
5,300.00	4,306.02	3,278.00	3,181.73	60.83	17.05	106.47	-7,389.33	1,408.78	8,536.71	8,467.24	69.47	122.885	
5,400.00	4,378.97	3,278.00	3,181.73	62.34	17.05	106.47	-7,389.33	1,408.78	8,579.68	8,509.19	70.49	121.709	
5,500.00	4,451.93	3,317.77	3,219.96	63.85	17.29	106.71	-7,393.21	1,398.54	8,623.32	8,551.58	71.74	120.204	
5,600.00	4,524.89	3,334.68	3,236.22	65.36	17.39	106.81	-7,394.98	1,394.24	8,667.88	8,595.05	72.83	119.010	
5,700.00	4,597.84	3,366.00	3,266.33	66.88	17.58	107.00	-7,398.46	1,386.34	8,713.30	8,639.30	74.00	117.748	
5,800.00	4,670.80	5,109.91	4,982.80	68.39	24.58	115.90	-7,468.61	1,184.31	8,753.96	8,671.63	82.33	106.330	
5,900.00	4,743.76	5,168.67	5,041.53	69.90	24.72	116.16	-7,466.63	1,184.09	8,788.21	8,704.67	83.55	105.189	
6,000.00	4,816.71	5,226.54	5,099.37	71.41	24.86	116.40	-7,464.82	1,183.98	8,822.99	8,738.23	84.75	104.101	
6,100.00	4,889.67	5,286.00	5,158.81	72.93	25.00	116.66	-7,463.10	1,183.99	8,858.27	8,772.31	85.96	103.056	
6,200.00	4,962.63	5,286.00	5,158.81	74.44	25.00	116.66	-7,463.10	1,183.99	8,894.28	8,807.30	86.98	102.252	
6,300.00	5,035.59	5,286.00	5,158.81	75.95	25.00	116.66	-7,463.10	1,183.99	8,931.27	8,843.28	88.00	101.497	
6,400.00	5,108.54	5,356.23	5,229.02	77.47	25.19	116.96	-7,461.64	1,183.67	8,968.37	8,879.16	89.21	100.532	
6,500.00	5,181.50	5,379.39	5,252.18	78.98	25.26	117.06	-7,461.38	1,183.40	9,006.61	8,916.34	90.27	99.778	
6,600.00	5,254.46	5,402.33	5,275.12	80.49	25.32	117.16	-7,461.23	1,183.04	9,045.61	8,954.30	91.31	99.065	
6,700.00	5,327.41	5,461.00	5,333.77	82.01	25.48	117.41	-7,461.34	1,181.74	9,085.59	8,993.13	92.45	98.271	
6,800.00	5,400.37	5,461.00	5,333.77	83.52	25.48	117.41	-7,461.34	1,181.74	9,125.89	9,032.49	93.40	97.707	
6,900.00	5,473.33	5,484.57	5,357.33	85.04	25.54	117.51	-7,461.54	1,181.14	9,167.08	9,072.67	94.41	97.099	
7,000.00	5,546.28	5,544.20	5,416.95	86.55	25.72	117.76	-7,462.17	1,179.85	9,208.78	9,113.25	95.53	96.395	
7,100.00	5,619.24	5,604.36	5,477.09	88.06	25.89	118.02	-7,462.98	1,178.90	9,250.92	9,154.27	96.65	95.717	
7,200.00	5,692.20	7,200.00	5,623.35	89.58	30.33	118.62	-7,464.49	1,177.90	9,292.83	9,190.60	102.23	90.905	
7,300.00	5,765.15	5,941.19	5,813.91	91.09	26.83	119.40	-7,464.68	1,176.79	9,334.43	9,234.84	99.60	93.722	
7,400.00	5,838.11	7,400.00	5,969.79	92.61	30.81	120.03	-7,462.85	1,175.72	9,375.44	9,270.61	104.83	89.435	
7,500.00	5,911.07	6,223.22	6,095.90	94.12	27.59	120.53	-7,460.82	1,175.47	9,416.50	9,314.19	102.31	92.039	
7,600.00	5,984.03	6,279.79	6,152.46	95.64	27.75	120.76	-7,459.78	1,175.24	9,457.79	9,354.41	103.38	91.486	
7,700.00	6,056.98	6,337.00	6,209.65	97.15	27.90	120.98	-7,458.75	1,174.73	9,499.53	9,395.09	104.44	90.956	
7,800.00	6,129.94	6,426.14	6,298.77	98.67	28.15	121.34	-7,457.11	1,173.86	9,541.57	9,435.97	105.61	90.351	
7,900.00	6,202.90	6,515.70	6,388.31	100.18	28.40	121.69	-7,455.37	1,173.18	9,583.79	9,477.03	106.76	89.766	
8,000.00	6,275.85	6,571.97	6,444.57	101.70	28.55	121.91	-7,454.35	1,172.94	9,626.32	9,518.53	107.80	89.299	
8,100.00	6,348.81	6,630.86	6,503.45	103.21	28.71	122.13	-7,453.45	1,172.91	9,669.26	9,560.42	108.84	88.841	
8,200.00	6,421.77	6,692.64	6,565.23	104.73	28.88	122.37	-7,452.68	1,173.11	9,712.58	9,602.71	109.88	88.394	
8,300.00	6,494.72	6,774.07	6,646.65	106.24	29.10	122.67	-7,451.73	1,173.50	9,756.19	9,645.22	110.97	87.914	
8,400.00	6,567.68	6,855.58	6,728.16	107.76	29.31	122.98	-7,450.71	1,173.93	9,800.02	9,687.95	112.06	87.450	
8,500.00	6,640.64	6,944.04	6,816.60	109.27	29.56	123.31	-7,449.47	1,174.34	9,844.03	9,730.85	113.17	86.981	
8,600.00	6,713.59	7,032.58	6,905.13	110.79	29.80	123.64	-7,448.04	1,174.60	9,888.20	9,773.92	114.28	86.529	
8,700.00	6,786.55	7,089.26	6,961.81	112.30	29.95	123.85	-7,447.11	1,174.71	9,932.64	9,817.37	115.27	86.172	
8,800.00	6,859.51	7,146.06	7,018.60	113.82	30.11	124.06	-7,446.27	1,174.81	9,977.46	9,861.22	116.25	85.830	
9,900.00	7,578.90	7,857.11	7,729.58	125.23	32.10	71.79	-7,437.21	1,178.71	9,994.11	9,866.86	127.25	78.540	
9,950.00	7,593.04	7,871.62	7,744.09	125.22	32.14	73.53	-7,437.08	1,178.87	9,957.39	9,829.90	127.49	78.101	
10,000.00	7,604.09	7,882.89	7,755.36	125.17	32.17	76.21	-7,436.99	1,179.01	9,918.32	9,790.62	127.70	77.671	
10,050.00	7,611.97	7,890.82	7,763.29	125.08	32.19	80.04	-7,436.93	1,179.11	9,877.17	9,749.31	127.86	77.249	
10,100.00	7,616.61	7,895.33	7,767.80	124.97	32.21	85.30	-7,436.89	1,179.17	9,834.25	9,706.26	127.99	76.836	
10,145.95	7,618.00	7,896.42	7,768.89	124.84	32.21	91.69	-7,436.88	1,179.18	9,793.51	9,665.43	128.08	76.465	
10,200.00	7,618.00	7,895.97	7,768.43	124.69	32.21	91.68	-7,436.88	1,179.18	9,744.99	9,616.82	128.17	76.034	
10,300.00	7,618.00	7,895.12	7,767.59	124.41	32.21	91.67	-7,436.89	1,179.17	9,655.36	9,527.03	128.33	75.237	
10,400.00	7,618.00	7,894.27	7,766.74	124.14	32.20	91.66	-7,436.90	1,179.16	9,565.94	9,437.44	128.50	74.442	
10,500.00	7,618.00	7,893.42	7,765.89	123.88	32.20	91.65	-7,436.91	1,179.14	9,476.74	9,348.06	128.68	73.646	
10,600.00	7,618.00	7,892.56	7,765.03	123.63	32.20	91.64	-7,436.91	1,179.13	9,387.75	9,258.89	128.86	72.852	
10,700.00	7,618.00	7,891.70	7,764.17	123.40	32.20	91.63	-7,436.92	1,179.12	9,298.98	9,169.93	129.05	72.058	
10,800.00	7,618.00	7,890.84	7,763.31	123.18	32.19	91.62	-7,436.93	1,179.11	9,210.45	9,081.20	129.24	71.264	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
10,900.00	7,618.00	7,889.97	7,762.44	122.96	32.19	91.60	-7,436.93	1,179.10	9,122.15	8,992.70	129.44	70.472	
11,000.00	7,618.00	7,889.10	7,761.57	122.76	32.19	91.59	-7,436.94	1,179.09	9,034.09	8,904.44	129.65	69.680	
11,100.00	7,618.00	7,888.22	7,760.69	122.57	32.19	91.58	-7,436.95	1,179.08	8,946.29	8,816.42	129.86	68.890	
11,200.00	7,618.00	7,887.34	7,759.81	122.39	32.18	91.57	-7,436.95	1,179.07	8,858.74	8,728.66	130.08	68.100	
11,300.00	7,618.00	7,886.46	7,758.93	122.23	32.18	91.56	-7,436.96	1,179.05	8,771.46	8,641.15	130.31	67.311	
11,400.00	7,618.00	7,885.57	7,758.04	122.07	32.18	91.55	-7,436.97	1,179.04	8,684.46	8,553.91	130.55	66.524	
11,500.00	7,618.00	7,884.68	7,757.14	121.93	32.18	91.53	-7,436.98	1,179.03	8,597.74	8,466.95	130.79	65.738	
11,600.00	7,618.00	7,883.78	7,756.25	121.79	32.17	91.52	-7,436.98	1,179.02	8,511.31	8,380.27	131.04	64.953	
11,700.00	7,618.00	7,882.88	7,755.35	121.67	32.17	91.51	-7,436.99	1,179.01	8,425.17	8,293.88	131.30	64.170	
11,800.00	7,618.00	7,881.97	7,754.44	121.56	32.17	91.50	-7,437.00	1,179.00	8,339.35	8,207.79	131.56	63.388	
11,900.00	7,618.00	7,881.07	7,753.53	121.46	32.17	91.49	-7,437.01	1,178.99	8,253.85	8,122.02	131.84	62.607	
12,000.00	7,618.00	7,880.15	7,752.62	121.38	32.16	91.47	-7,437.01	1,178.98	8,168.68	8,036.56	132.12	61.828	
12,100.00	7,618.00	7,879.23	7,751.70	121.30	32.16	91.46	-7,437.02	1,178.97	8,083.84	7,951.43	132.41	61.052	
12,200.00	7,618.00	7,878.31	7,750.78	121.24	32.16	91.45	-7,437.03	1,178.95	7,999.36	7,866.65	132.71	60.276	
12,300.00	7,618.00	7,877.38	7,749.85	121.19	32.16	91.44	-7,437.04	1,178.94	7,915.24	7,782.22	133.02	59.503	
12,400.00	7,618.00	7,876.45	7,748.92	121.16	32.15	91.42	-7,437.04	1,178.93	7,831.49	7,698.15	133.34	58.733	
12,500.00	7,618.00	7,875.52	7,747.98	121.14	32.15	91.41	-7,437.05	1,178.92	7,748.13	7,614.46	133.67	57.964	
12,600.00	7,618.00	7,874.58	7,747.04	121.13	32.15	91.40	-7,437.06	1,178.91	7,665.16	7,531.15	134.01	57.198	
12,700.00	7,618.00	7,873.63	7,746.10	121.13	32.15	91.39	-7,437.07	1,178.90	7,582.61	7,448.24	134.36	56.434	
12,800.00	7,618.00	7,872.68	7,745.15	121.15	32.14	91.37	-7,437.08	1,178.89	7,500.48	7,365.75	134.72	55.673	
12,900.00	7,618.00	7,871.73	7,744.20	121.18	32.14	91.36	-7,437.08	1,178.87	7,418.79	7,283.69	135.10	54.914	
13,000.00	7,618.00	7,870.77	7,743.24	121.23	32.14	91.35	-7,437.09	1,178.86	7,337.55	7,202.07	135.48	54.159	
13,100.00	7,618.00	7,869.81	7,742.27	121.29	32.14	91.34	-7,437.10	1,178.85	7,256.78	7,120.90	135.88	53.407	
13,200.00	7,618.00	7,868.84	7,741.31	121.37	32.13	91.32	-7,437.11	1,178.84	7,176.49	7,040.21	136.28	52.658	
13,300.00	7,618.00	7,867.86	7,740.33	121.46	32.13	91.31	-7,437.12	1,178.83	7,096.71	6,960.00	136.71	51.913	
13,400.00	7,618.00	7,866.89	7,739.36	121.57	32.13	91.30	-7,437.13	1,178.82	7,017.44	6,880.30	137.14	51.171	
13,500.00	7,618.00	7,865.90	7,738.37	121.70	32.12	91.28	-7,437.13	1,178.81	6,938.71	6,801.13	137.58	50.433	
13,600.00	7,618.00	7,864.92	7,737.39	121.84	32.12	91.27	-7,437.14	1,178.80	6,860.53	6,722.49	138.04	49.699	
13,700.00	7,618.00	7,863.93	7,736.39	122.01	32.12	91.26	-7,437.15	1,178.78	6,782.93	6,644.41	138.51	48.969	
13,800.00	7,618.00	7,862.93	7,735.40	122.19	32.12	91.24	-7,437.16	1,178.77	6,705.92	6,566.92	139.00	48.244	
13,900.00	7,618.00	7,861.93	7,734.40	122.39	32.11	91.23	-7,437.17	1,178.76	6,629.52	6,490.02	139.50	47.524	
14,000.00	7,618.00	7,860.92	7,733.39	122.62	32.11	91.22	-7,437.18	1,178.75	6,553.76	6,413.74	140.01	46.808	
14,100.00	7,618.00	7,859.91	7,732.38	122.86	32.11	91.20	-7,437.19	1,178.74	6,478.65	6,338.11	140.54	46.098	
14,200.00	7,618.00	7,858.89	7,731.36	123.12	32.11	91.19	-7,437.19	1,178.73	6,404.23	6,263.14	141.09	45.393	
14,300.00	7,618.00	7,857.87	7,730.34	123.41	32.10	91.18	-7,437.20	1,178.72	6,330.51	6,188.87	141.64	44.693	
14,400.00	7,618.00	7,856.84	7,729.31	123.72	32.10	91.16	-7,437.21	1,178.71	6,257.52	6,115.30	142.22	44.000	
14,500.00	7,618.00	7,855.81	7,728.28	124.06	32.10	91.15	-7,437.22	1,178.69	6,185.29	6,042.48	142.81	43.313	
14,600.00	7,618.00	7,854.77	7,727.24	124.42	32.09	91.14	-7,437.23	1,178.68	6,113.83	5,970.42	143.41	42.632	
14,700.00	7,618.00	7,853.73	7,726.20	124.80	32.09	91.12	-7,437.24	1,178.67	6,043.19	5,899.16	144.03	41.958	
14,800.00	7,618.00	7,852.68	7,725.15	125.21	32.09	91.11	-7,437.25	1,178.66	5,973.39	5,828.72	144.66	41.292	
14,900.00	7,618.00	7,851.63	7,724.10	125.65	32.08	91.09	-7,437.26	1,178.65	5,904.45	5,759.14	145.31	40.632	
15,000.00	7,618.00	7,850.57	7,723.04	126.11	32.08	91.08	-7,437.27	1,178.64	5,836.41	5,690.43	145.98	39.981	
15,100.00	7,618.00	7,849.50	7,721.97	126.61	32.08	91.07	-7,437.28	1,178.63	5,769.31	5,622.65	146.66	39.338	
15,200.00	7,618.00	7,848.43	7,720.91	127.13	32.08	91.05	-7,437.29	1,178.61	5,703.16	5,555.81	147.36	38.703	
15,300.00	7,618.00	7,847.36	7,719.83	127.68	32.07	91.04	-7,437.30	1,178.60	5,638.02	5,489.95	148.07	38.077	
15,400.00	7,618.00	7,846.28	7,718.75	128.26	32.07	91.02	-7,437.31	1,178.59	5,573.91	5,425.11	148.80	37.460	
15,500.00	7,618.00	7,845.19	7,717.66	128.87	32.07	91.01	-7,437.32	1,178.58	5,510.86	5,361.33	149.54	36.852	
15,600.00	7,618.00	7,844.10	7,716.57	129.51	32.06	90.99	-7,437.33	1,178.57	5,448.93	5,298.63	150.30	36.255	
15,700.00	7,618.00	7,843.00	7,715.47	130.18	32.06	90.98	-7,437.34	1,178.56	5,388.13	5,237.07	151.07	35.668	
15,800.00	7,618.00	7,841.90	7,714.37	130.88	32.06	90.96	-7,437.35	1,178.55	5,328.52	5,176.67	151.85	35.091	
15,900.00	7,618.00	7,840.79	7,713.26	131.61	32.05	90.95	-7,437.36	1,178.54	5,270.13	5,117.49	152.64	34.526	
16,000.00	7,618.00	7,839.68	7,712.15	132.37	32.05	90.93	-7,437.37	1,178.52	5,213.01	5,059.56	153.45	33.972	

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 74-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			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
16,100.00	7,618.00	7,838.55	7,711.03	133.17	32.05	90.92	-7,437.38	1,178.51	5,157.19	5,002.92	154.27	33.429	
16,200.00	7,618.00	7,837.43	7,709.90	133.99	32.05	90.90	-7,437.39	1,178.50	5,102.73	4,947.63	155.10	32.899	
16,300.00	7,618.00	7,836.30	7,708.77	134.84	32.04	90.89	-7,437.40	1,178.49	5,049.65	4,893.71	155.94	32.382	
16,400.00	7,618.00	7,835.16	7,707.63	135.72	32.04	90.87	-7,437.41	1,178.48	4,998.01	4,841.23	156.79	31.878	
16,500.00	7,618.00	7,834.01	7,706.48	136.63	32.04	90.86	-7,437.42	1,178.47	4,947.86	4,790.22	157.64	31.387	
16,600.00	7,618.00	7,832.86	7,705.33	137.57	32.03	90.84	-7,437.43	1,178.46	4,899.23	4,740.73	158.50	30.911	
16,700.00	7,618.00	7,831.70	7,704.18	138.54	32.03	90.83	-7,437.44	1,178.45	4,852.18	4,692.82	159.36	30.448	
16,800.00	7,618.00	7,830.54	7,703.01	139.53	32.03	90.81	-7,437.45	1,178.44	4,806.74	4,646.52	160.22	30.000	
16,900.00	7,618.00	7,829.37	7,701.85	140.55	32.02	90.80	-7,437.46	1,178.42	4,762.97	4,601.89	161.09	29.568	
17,000.00	7,618.00	7,828.20	7,700.67	141.60	32.02	90.78	-7,437.47	1,178.41	4,720.92	4,558.97	161.95	29.151	
17,100.00	7,618.00	7,827.02	7,699.49	142.67	32.02	90.77	-7,437.49	1,178.40	4,680.62	4,517.81	162.81	28.749	
17,200.00	7,618.00	7,825.83	7,698.30	143.77	32.01	90.75	-7,437.50	1,178.39	4,642.13	4,478.47	163.66	28.364	
17,300.00	7,618.00	7,824.63	7,697.11	144.88	32.01	90.73	-7,437.51	1,178.38	4,605.48	4,440.98	164.51	27.995	
17,400.00	7,618.00	7,823.43	7,695.90	146.02	32.01	90.72	-7,437.52	1,178.37	4,570.74	4,405.39	165.34	27.644	
17,500.00	7,618.00	7,822.22	7,694.70	147.19	32.00	90.70	-7,437.53	1,178.36	4,537.93	4,371.76	166.17	27.309	
17,600.00	7,618.00	7,821.01	7,693.48	148.37	32.00	90.69	-7,437.54	1,178.35	4,507.09	4,340.12	166.97	26.993	
17,700.00	7,618.00	7,819.79	7,692.26	149.57	32.00	90.67	-7,437.55	1,178.34	4,478.28	4,310.52	167.77	26.694	
17,800.00	7,618.00	7,818.56	7,691.03	150.79	31.99	90.65	-7,437.57	1,178.33	4,451.53	4,283.00	168.54	26.413	
17,900.00	7,618.00	7,817.33	7,689.80	152.03	31.99	90.64	-7,437.58	1,178.31	4,426.88	4,257.60	169.28	26.151	
18,000.00	7,618.00	7,816.09	7,688.56	153.29	31.99	90.62	-7,437.59	1,178.30	4,404.36	4,234.36	170.01	25.907	
18,100.00	7,618.00	7,814.84	7,687.31	154.57	31.98	90.60	-7,437.60	1,178.29	4,384.01	4,213.31	170.70	25.682	
18,200.00	7,618.00	7,813.58	7,686.06	155.86	31.98	90.59	-7,437.61	1,178.28	4,365.85	4,194.48	171.37	25.476	
18,300.00	7,618.00	7,812.32	7,684.79	157.17	31.97	90.57	-7,437.63	1,178.27	4,349.92	4,177.91	172.00	25.290	
18,400.00	7,618.00	7,811.05	7,683.53	158.49	31.97	90.55	-7,437.64	1,178.26	4,336.23	4,163.63	172.60	25.123	
18,500.00	7,618.00	7,809.78	7,682.25	159.82	31.97	90.54	-7,437.65	1,178.25	4,324.81	4,151.65	173.17	24.975	
18,600.00	7,618.00	7,808.49	7,680.97	161.17	31.96	90.52	-7,437.66	1,178.24	4,315.68	4,141.99	173.69	24.847	
18,700.00	7,618.00	7,807.20	7,679.68	162.54	31.96	90.50	-7,437.68	1,178.23	4,308.85	4,134.68	174.17	24.739	
18,800.00	7,618.00	7,805.90	7,678.38	163.91	31.96	90.48	-7,437.69	1,178.22	4,304.34	4,129.72	174.62	24.650	
18,900.00	7,618.00	7,804.60	7,677.07	165.30	31.95	90.47	-7,437.70	1,178.21	4,302.14	4,127.12	175.02	24.581	
18,944.50	7,618.00	7,804.01	7,676.49	165.92	31.95	90.46	-7,437.71	1,178.20	4,301.91	4,126.73	175.18	24.557	CC, ES
19,000.00	7,618.00	7,803.29	7,675.76	166.70	31.95	90.45	-7,437.72	1,178.20	4,302.27	4,126.89	175.37	24.532	
19,100.00	7,618.00	7,801.97	7,674.44	168.10	31.95	90.43	-7,437.73	1,178.19	4,304.72	4,129.03	175.69	24.502	
19,200.00	7,618.00	7,800.64	7,673.11	169.52	31.94	90.41	-7,437.74	1,178.18	4,309.49	4,133.54	175.95	24.493	SF
19,300.00	7,618.00	7,799.30	7,671.78	170.95	31.94	90.40	-7,437.76	1,178.17	4,316.57	4,140.40	176.17	24.502	
19,400.00	7,618.00	7,797.96	7,670.43	172.39	31.93	90.38	-7,437.77	1,178.15	4,325.95	4,149.61	176.34	24.531	
19,500.00	7,618.00	7,796.61	7,669.08	173.84	31.93	90.36	-7,437.78	1,178.14	4,337.62	4,161.15	176.47	24.580	
19,600.00	7,618.00	7,795.25	7,667.73	175.30	31.93	90.34	-7,437.80	1,178.13	4,351.56	4,175.00	176.55	24.647	
19,700.00	7,618.00	7,793.88	7,666.36	176.76	31.92	90.32	-7,437.81	1,178.12	4,367.74	4,191.15	176.59	24.733	
19,800.00	7,618.00	7,792.51	7,664.99	178.24	31.92	90.31	-7,437.82	1,178.11	4,386.14	4,209.55	176.59	24.839	
19,896.19	7,618.00	7,791.18	7,663.66	179.66	31.92	90.29	-7,437.84	1,178.10	4,405.91	4,229.37	176.54	24.957	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	70.00	69.99	0.00	0.11	163.87	-7,136.26	2,063.64	7,428.79				
100.00	100.00	125.02	125.01	0.13	0.29	163.88	-7,136.32	2,062.72	7,428.45	7,428.02	0.43	N/A	
102.10	102.10	126.11	126.10	0.14	0.30	163.88	-7,136.32	2,062.71	7,428.45	7,428.01	0.44	N/A	
200.00	200.00	187.52	187.49	0.49	0.52	163.89	-7,136.82	2,061.72	7,428.75	7,427.73	1.01	7,349.908	
300.00	299.98	291.69	291.59	0.85	0.90	94.60	-7,138.36	2,058.14	7,429.35	7,427.61	1.74	4,259.743	
400.00	399.84	371.08	370.81	1.21	1.19	94.65	-7,140.15	2,053.24	7,430.26	7,427.86	2.40	3,098.499	
500.00	499.45	419.18	418.74	1.58	1.38	94.68	-7,141.74	2,049.49	7,432.03	7,429.08	2.95	2,516.962	
600.00	598.70	440.00	439.46	1.97	1.45	94.66	-7,142.59	2,047.71	7,434.91	7,431.49	3.42	2,172.270	
700.00	697.47	479.91	479.15	2.38	1.61	94.65	-7,144.64	2,044.07	7,438.94	7,434.95	3.99	1,862.386	
800.00	795.62	533.00	531.84	2.83	1.82	94.67	-7,148.46	2,038.76	7,444.53	7,439.88	4.65	1,601.825	
900.00	893.06	533.00	531.84	3.31	1.82	94.54	-7,148.46	2,038.76	7,451.02	7,445.89	5.13	1,453.374	
1,000.00	989.64	564.59	563.12	3.83	1.95	94.48	-7,151.22	2,035.39	7,458.95	7,453.18	5.78	1,291.569	
1,100.00	1,085.27	600.65	598.79	4.40	2.10	94.41	-7,154.67	2,031.36	7,468.05	7,461.56	6.49	1,151.333	
1,200.00	1,179.82	625.00	622.85	5.02	2.21	94.29	-7,157.18	2,028.55	7,478.33	7,471.13	7.20	1,038.952	
1,300.00	1,273.17	667.57	664.82	5.70	2.39	94.22	-7,161.96	2,023.33	7,489.76	7,481.72	8.04	931.058	
1,400.00	1,365.21	717.00	713.42	6.43	2.61	94.17	-7,168.16	2,016.73	7,502.48	7,493.51	8.98	835.825	
1,500.00	1,455.84	717.00	713.42	7.23	2.61	93.89	-7,168.16	2,016.73	7,516.33	7,506.58	9.75	770.899	
1,600.00	1,544.94	748.57	744.34	8.09	2.76	93.73	-7,172.54	2,012.17	7,531.48	7,520.75	10.73	701.956	
1,700.00	1,632.39	769.96	765.24	9.01	2.86	93.50	-7,175.75	2,008.90	7,547.94	7,536.22	11.72	643.906	
1,800.00	1,718.11	809.00	803.25	10.00	3.05	93.35	-7,182.07	2,002.60	7,565.77	7,552.91	12.86	588.336	
1,900.00	1,801.97	809.00	803.25	11.07	3.05	92.96	-7,182.07	2,002.60	7,584.72	7,570.85	13.88	546.579	
2,000.00	1,883.88	809.00	803.25	12.20	3.05	92.54	-7,182.07	2,002.60	7,605.12	7,590.16	14.96	508.496	
2,100.00	1,963.74	809.00	803.25	13.41	3.05	92.10	-7,182.07	2,002.60	7,626.92	7,610.82	16.10	473.790	
2,200.00	2,041.45	853.61	846.48	14.69	3.28	91.89	-7,190.10	1,995.06	7,649.52	7,632.00	17.52	436.496	
2,300.00	2,116.92	898.00	889.29	16.05	3.51	91.67	-7,198.98	1,987.43	7,673.92	7,654.90	19.01	403.588	
2,357.48	2,159.25	898.00	889.29	16.86	3.51	91.38	-7,198.98	1,987.43	7,688.21	7,668.45	19.77	388.923	
2,400.00	2,190.27	898.00	889.29	17.47	3.51	91.38	-7,198.98	1,987.43	7,699.06	7,678.73	20.33	378.654	
2,500.00	2,263.22	898.00	889.29	18.92	3.51	91.38	-7,198.98	1,987.43	7,725.43	7,703.77	21.66	356.601	
2,600.00	2,336.18	898.00	889.29	20.37	3.51	91.38	-7,198.98	1,987.43	7,753.00	7,730.01	22.99	337.184	
2,700.00	2,409.14	898.00	889.29	21.84	3.51	91.38	-7,198.98	1,987.43	7,781.76	7,757.44	24.32	320.000	
2,800.00	2,482.09	939.68	929.35	23.31	3.75	91.64	-7,207.98	1,980.21	7,811.34	7,785.48	25.86	302.054	
2,900.00	2,555.05	956.43	945.41	24.78	3.84	91.75	-7,211.73	1,977.30	7,842.09	7,814.83	27.26	287.656	
3,000.00	2,628.01	973.06	961.34	26.27	3.93	91.86	-7,215.53	1,974.42	7,873.88	7,845.23	28.65	274.793	
3,100.00	2,700.96	1,011.00	997.61	27.75	4.14	92.10	-7,224.48	1,967.82	7,906.79	7,876.64	30.15	262.246	
3,200.00	2,773.92	1,011.00	997.61	29.24	4.14	92.10	-7,224.48	1,967.82	7,940.53	7,909.10	31.43	252.625	
3,300.00	2,846.88	1,011.00	997.61	30.73	4.14	92.10	-7,224.48	1,967.82	7,975.38	7,942.68	32.70	243.882	
3,400.00	2,919.83	1,011.00	997.61	32.23	4.14	92.10	-7,224.48	1,967.82	8,011.33	7,977.37	33.96	235.915	
3,500.00	2,992.79	1,053.59	1,038.22	33.72	4.39	92.37	-7,235.01	1,960.49	8,047.98	8,012.54	35.44	227.085	
3,600.00	3,065.75	1,069.32	1,053.20	35.22	4.49	92.47	-7,239.02	1,957.81	8,085.75	8,048.99	36.76	219.963	
3,700.00	3,138.71	1,100.00	1,082.35	36.72	4.67	92.66	-7,247.05	1,952.66	8,124.52	8,086.37	38.16	212.931	
3,800.00	3,211.66	1,100.00	1,082.35	38.22	4.67	92.66	-7,247.05	1,952.66	8,164.14	8,124.79	39.36	207.424	
3,900.00	3,284.62	1,100.00	1,082.35	39.72	4.67	92.66	-7,247.05	1,952.66	8,204.79	8,164.24	40.55	202.344	
4,000.00	3,357.58	1,137.49	1,117.92	41.22	4.89	92.90	-7,257.18	1,946.51	8,246.21	8,204.27	41.94	196.619	
4,100.00	3,430.53	1,155.89	1,135.36	42.73	5.00	93.01	-7,262.26	1,943.56	8,288.57	8,245.37	43.21	191.828	
4,200.00	3,503.49	1,187.00	1,164.81	44.23	5.19	93.20	-7,271.02	1,938.70	8,331.84	8,287.30	44.54	187.070	
4,300.00	3,576.45	1,187.00	1,164.81	45.74	5.19	93.20	-7,271.02	1,938.70	8,375.90	8,330.23	45.67	183.401	
4,400.00	3,649.40	1,187.00	1,164.81	47.25	5.19	93.20	-7,271.02	1,938.70	8,420.93	8,374.14	46.79	179.992	
4,500.00	3,722.36	1,222.38	1,198.22	48.75	5.42	93.42	-7,281.27	1,933.16	8,466.64	8,418.54	48.10	176.023	
4,600.00	3,795.32	1,237.34	1,212.30	50.26	5.51	93.52	-7,285.70	1,930.76	8,513.28	8,464.00	49.28	172.765	
4,700.00	3,868.27	1,275.00	1,247.66	51.77	5.75	93.75	-7,297.12	1,924.59	8,560.84	8,510.26	50.58	169.258	
4,800.00	3,941.23	1,275.00	1,247.66	53.28	5.75	93.75	-7,297.12	1,924.59	8,609.02	8,557.39	51.63	166.730	
4,900.00	4,014.19	1,275.00	1,247.66	54.79	5.75	93.75	-7,297.12	1,924.59	8,658.09	8,605.41	52.67	164.371	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,087.15	1,310.31	1,280.71	56.30	5.98	93.97	-7,308.06	1,918.72	8,707.88	8,653.96	53.92	161.490	
5,100.00	4,160.10	1,335.02	1,303.81	57.81	6.14	94.12	-7,315.81	1,914.62	8,758.41	8,703.32	55.09	158.983	
5,200.00	4,233.06	1,362.00	1,329.01	59.32	6.32	94.29	-7,324.34	1,910.15	8,809.64	8,753.38	56.26	156.590	
5,300.00	4,306.02	1,390.82	1,355.91	60.83	6.51	94.47	-7,333.53	1,905.33	8,861.54	8,804.11	57.43	154.307	
5,400.00	4,378.97	1,422.31	1,385.25	62.34	6.73	94.66	-7,343.60	1,899.96	8,914.09	8,855.49	58.60	152.116	
5,500.00	4,451.93	1,449.00	1,410.10	63.85	6.91	94.83	-7,352.17	1,895.32	8,967.28	8,907.55	59.73	150.133	
5,600.00	4,524.89	1,449.00	1,410.10	65.36	6.91	94.83	-7,352.17	1,895.32	9,021.20	8,960.53	60.67	148.701	
5,700.00	4,597.84	1,480.15	1,439.04	66.88	7.13	95.02	-7,362.31	1,889.82	9,075.72	9,013.92	61.80	146.857	
5,800.00	4,670.80	1,494.47	1,452.31	68.39	7.23	95.11	-7,367.05	1,887.28	9,130.99	9,068.18	62.81	145.384	
5,900.00	4,743.76	1,537.00	1,491.60	69.90	7.53	95.37	-7,381.40	1,879.63	9,187.09	9,123.10	63.99	143.570	
6,000.00	4,816.71	1,537.00	1,491.60	71.41	7.53	95.37	-7,381.40	1,879.63	9,243.60	9,178.72	64.87	142.490	
6,100.00	4,889.67	1,537.00	1,491.60	72.93	7.53	95.37	-7,381.40	1,879.63	9,300.84	9,235.10	65.74	141.482	
6,200.00	4,962.63	1,537.00	1,491.60	74.44	7.53	95.37	-7,381.40	1,879.63	9,358.79	9,292.20	66.59	140.541	
6,300.00	5,035.59	1,537.00	1,491.60	75.95	7.53	95.37	-7,381.40	1,879.63	9,417.46	9,350.03	67.43	139.665	
6,400.00	5,108.54	1,569.28	1,521.29	77.47	7.77	95.57	-7,392.62	1,873.74	9,476.57	9,408.09	68.48	138.381	
6,500.00	5,181.50	1,579.94	1,531.06	78.98	7.84	95.63	-7,396.40	1,871.79	9,536.42	9,467.06	69.37	137.474	
6,600.00	5,254.46	1,590.50	1,540.73	80.49	7.92	95.70	-7,400.18	1,869.84	9,596.89	9,526.65	70.24	136.625	
6,700.00	5,327.41	1,624.00	1,571.29	82.01	8.17	95.90	-7,412.42	1,863.63	9,658.09	9,586.82	71.27	135.516	
6,800.00	5,400.37	1,624.00	1,571.29	83.52	8.17	95.90	-7,412.42	1,863.63	9,719.67	9,647.63	72.04	134.918	
6,900.00	5,473.33	1,624.00	1,571.29	85.04	8.17	95.90	-7,412.42	1,863.63	9,781.89	9,709.09	72.80	134.366	
7,000.00	5,546.28	1,624.00	1,571.29	86.55	8.17	95.90	-7,412.42	1,863.63	9,844.74	9,771.19	73.55	133.858	
7,100.00	5,619.24	1,650.85	1,595.70	88.06	8.37	96.06	-7,422.44	1,858.64	9,908.08	9,833.60	74.48	133.031	
7,200.00	5,692.20	1,665.98	1,609.43	89.58	8.49	96.16	-7,428.14	1,855.84	9,971.98	9,896.67	75.31	132.405	
11,300.00	7,618.00	8,355.56	7,984.74	122.23	43.42	94.47	-8,719.59	1,088.64	9,952.34	9,817.96	134.38	74.062	
11,400.00	7,618.00	8,353.89	7,983.08	122.07	43.42	94.45	-8,719.64	1,088.62	9,862.74	9,728.09	134.65	73.245	
11,500.00	7,618.00	8,352.19	7,981.38	121.93	43.41	94.42	-8,719.70	1,088.60	9,773.35	9,638.41	134.94	72.428	
11,600.00	7,618.00	8,350.47	7,979.66	121.79	43.41	94.40	-8,719.76	1,088.58	9,684.16	9,548.93	135.23	71.612	
11,700.00	7,618.00	8,348.72	7,977.91	121.67	43.41	94.38	-8,719.81	1,088.56	9,595.18	9,459.65	135.53	70.797	
11,800.00	7,618.00	8,346.95	7,976.14	121.56	43.40	94.36	-8,719.87	1,088.54	9,506.43	9,370.59	135.84	69.983	
11,900.00	7,618.00	8,345.14	7,974.34	121.46	43.40	94.33	-8,719.93	1,088.52	9,417.90	9,281.74	136.16	69.169	
12,000.00	7,618.00	8,343.31	7,972.50	121.38	43.40	94.31	-8,720.00	1,088.50	9,329.60	9,193.11	136.49	68.356	
12,100.00	7,618.00	8,341.45	7,970.64	121.30	43.39	94.28	-8,720.06	1,088.48	9,241.53	9,104.71	136.82	67.543	
12,200.00	7,618.00	8,339.55	7,968.75	121.24	43.39	94.26	-8,720.13	1,088.46	9,153.71	9,016.54	137.17	66.732	
12,300.00	7,618.00	8,337.63	7,966.83	121.19	43.39	94.23	-8,720.19	1,088.44	9,066.15	8,928.62	137.53	65.922	
12,400.00	7,618.00	8,335.67	7,964.87	121.16	43.38	94.21	-8,720.26	1,088.42	8,978.84	8,840.94	137.90	65.113	
12,500.00	7,618.00	8,333.68	7,962.88	121.14	43.38	94.18	-8,720.33	1,088.40	8,891.80	8,753.52	138.27	64.306	
12,600.00	7,618.00	8,331.66	7,960.86	121.13	43.38	94.16	-8,720.41	1,088.38	8,805.03	8,666.37	138.66	63.499	
12,700.00	7,618.00	8,329.60	7,958.81	121.13	43.37	94.13	-8,720.48	1,088.36	8,718.55	8,579.48	139.06	62.694	
12,800.00	7,618.00	8,327.51	7,956.71	121.15	43.37	94.10	-8,720.56	1,088.34	8,632.36	8,492.88	139.48	61.891	
12,900.00	7,618.00	8,325.38	7,954.59	121.18	43.36	94.08	-8,720.64	1,088.32	8,546.46	8,406.56	139.90	61.089	
13,000.00	7,618.00	8,323.21	7,952.42	121.23	43.36	94.05	-8,720.72	1,088.29	8,460.88	8,320.54	140.34	60.289	
13,100.00	7,618.00	8,321.01	7,950.22	121.29	43.36	94.02	-8,720.80	1,088.27	8,375.61	8,234.82	140.79	59.490	
13,200.00	7,618.00	8,318.77	7,947.98	121.37	43.35	93.99	-8,720.88	1,088.25	8,290.68	8,149.42	141.25	58.694	
13,300.00	7,618.00	8,316.48	7,945.69	121.46	43.35	93.96	-8,720.97	1,088.23	8,206.08	8,064.35	141.73	57.900	
13,400.00	7,618.00	8,314.16	7,943.37	121.57	43.34	93.93	-8,721.06	1,088.21	8,121.83	7,979.61	142.22	57.108	
13,500.00	7,618.00	8,311.79	7,941.00	121.70	43.34	93.90	-8,721.15	1,088.19	8,037.94	7,895.21	142.72	56.318	
13,600.00	7,618.00	8,309.38	7,938.59	121.84	43.33	93.87	-8,721.25	1,088.17	7,954.42	7,811.18	143.24	55.531	
13,700.00	7,618.00	8,306.92	7,936.14	122.01	43.33	93.84	-8,721.35	1,088.15	7,871.28	7,727.51	143.78	54.746	
13,800.00	7,618.00	8,304.42	7,933.64	122.19	43.33	93.80	-8,721.45	1,088.14	7,788.54	7,644.22	144.33	53.964	
13,900.00	7,618.00	8,301.87	7,931.09	122.39	43.32	93.77	-8,721.55	1,088.12	7,706.21	7,561.32	144.89	53.186	
14,000.00	7,618.00	8,299.27	7,928.49	122.62	43.32	93.74	-8,721.65	1,088.10	7,624.30	7,478.83	145.47	52.410	
14,100.00	7,618.00	8,296.62	7,925.85	122.86	43.31	93.70	-8,721.76	1,088.08	7,542.82	7,396.75	146.07	51.637	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,200.00	7,618.00	8,293.92	7,923.15	123.12	43.31	93.67	-8,721.88	1,088.06	7,461.80	7,315.11	146.69	50.868	
14,300.00	7,618.00	8,291.16	7,920.40	123.41	43.30	93.63	-8,721.99	1,088.04	7,381.23	7,233.91	147.32	50.103	
14,400.00	7,618.00	8,288.35	7,917.59	123.72	43.30	93.59	-8,722.11	1,088.02	7,301.15	7,153.18	147.97	49.341	
14,500.00	7,618.00	8,285.49	7,914.73	124.06	43.29	93.56	-8,722.23	1,088.00	7,221.56	7,072.92	148.64	48.584	
14,600.00	7,618.00	8,282.56	7,911.80	124.42	43.29	93.52	-8,722.36	1,087.99	7,142.48	6,993.15	149.33	47.830	
14,700.00	7,618.00	8,279.58	7,908.82	124.80	43.28	93.48	-8,722.49	1,087.97	7,063.93	6,913.90	150.04	47.081	
14,800.00	7,618.00	8,276.53	7,905.78	125.21	43.27	93.44	-8,722.62	1,087.95	6,985.93	6,835.17	150.76	46.337	
14,900.00	7,618.00	8,294.61	7,923.83	125.65	43.31	93.68	-8,721.70	1,088.01	6,908.46	6,756.87	151.59	45.573	
15,000.00	7,618.00	8,286.10	7,915.33	126.11	43.29	93.56	-8,722.12	1,087.98	6,831.62	6,679.28	152.34	44.845	
15,100.00	7,618.00	8,277.82	7,907.06	126.61	43.28	93.46	-8,722.53	1,087.95	6,755.38	6,602.27	153.11	44.122	
15,200.00	7,618.00	8,269.76	7,899.01	127.13	43.26	93.35	-8,722.91	1,087.91	6,679.76	6,525.86	153.90	43.404	
15,300.00	7,618.00	8,261.91	7,891.17	127.68	43.25	93.25	-8,723.29	1,087.88	6,604.78	6,450.07	154.71	42.691	
15,400.00	7,618.00	8,254.27	7,883.54	128.26	43.23	93.15	-8,723.64	1,087.85	6,530.47	6,374.92	155.55	41.984	
15,500.00	7,618.00	8,246.82	7,876.10	128.87	43.22	93.05	-8,723.99	1,087.83	6,456.85	6,300.44	156.40	41.283	
15,600.00	7,618.00	8,239.56	7,868.85	129.51	43.21	92.96	-8,724.32	1,087.80	6,383.93	6,226.65	157.28	40.589	
15,700.00	7,618.00	8,232.48	7,861.78	130.18	43.20	92.87	-8,724.64	1,087.77	6,311.76	6,153.57	158.19	39.900	
15,800.00	7,618.00	8,225.58	7,854.88	130.88	43.18	92.78	-8,724.95	1,087.74	6,240.35	6,081.23	159.11	39.219	
15,900.00	7,618.00	8,218.85	7,848.15	131.61	43.17	92.69	-8,725.24	1,087.72	6,169.72	6,009.66	160.07	38.545	
16,000.00	7,618.00	8,212.27	7,841.59	132.37	43.16	92.60	-8,725.53	1,087.69	6,099.92	5,938.88	161.04	37.878	
16,100.00	7,618.00	8,205.86	7,835.18	133.17	43.15	92.52	-8,725.80	1,087.67	6,030.96	5,868.92	162.04	37.219	
16,200.00	7,618.00	8,199.59	7,828.92	133.99	43.14	92.44	-8,726.07	1,087.64	5,962.87	5,799.81	163.06	36.569	
16,300.00	7,618.00	8,193.47	7,822.81	134.84	43.13	92.36	-8,726.33	1,087.62	5,895.69	5,731.59	164.11	35.926	
16,400.00	7,618.00	8,187.50	7,816.83	135.72	43.12	92.28	-8,726.58	1,087.59	5,829.45	5,664.27	165.17	35.293	
16,500.00	7,618.00	8,181.65	7,811.00	136.63	43.10	92.21	-8,726.81	1,087.57	5,764.17	5,597.91	166.27	34.669	
16,600.00	7,618.00	8,175.94	7,805.29	137.57	43.09	92.13	-8,727.05	1,087.55	5,699.90	5,532.52	167.38	34.054	
16,700.00	7,618.00	8,170.36	7,799.71	138.54	43.08	92.06	-8,727.27	1,087.53	5,636.67	5,468.15	168.52	33.449	
16,800.00	7,618.00	8,164.90	7,794.25	139.53	43.07	91.99	-8,727.49	1,087.51	5,574.51	5,404.83	169.67	32.854	
16,900.00	7,618.00	8,159.56	7,788.92	140.55	43.07	91.92	-8,727.70	1,087.48	5,513.46	5,342.60	170.85	32.270	
17,000.00	7,618.00	8,154.33	7,783.69	141.60	43.06	91.85	-8,727.90	1,087.46	5,453.55	5,281.50	172.05	31.697	
17,100.00	7,618.00	8,149.21	7,778.58	142.67	43.05	91.78	-8,728.09	1,087.44	5,394.83	5,221.56	173.27	31.135	
17,200.00	7,618.00	8,144.20	7,773.57	143.77	43.04	91.72	-8,728.28	1,087.42	5,337.34	5,162.83	174.51	30.585	
17,300.00	7,618.00	8,139.30	7,768.67	144.88	43.03	91.65	-8,728.47	1,087.40	5,281.10	5,105.34	175.76	30.047	
17,400.00	7,618.00	8,134.50	7,763.87	146.02	43.02	91.59	-8,728.65	1,087.39	5,226.18	5,049.15	177.03	29.521	
17,500.00	7,618.00	8,129.79	7,759.17	147.19	43.01	91.53	-8,728.82	1,087.37	5,172.60	4,994.28	178.31	29.008	
17,600.00	7,618.00	8,125.18	7,754.57	148.37	43.00	91.47	-8,728.99	1,087.35	5,120.41	4,940.80	179.61	28.509	
17,700.00	7,618.00	8,120.67	7,750.05	149.57	43.00	91.41	-8,729.15	1,087.33	5,069.65	4,888.73	180.91	28.022	
17,800.00	7,618.00	8,116.24	7,745.63	150.79	42.99	91.35	-8,729.31	1,087.31	5,020.37	4,838.14	182.23	27.550	
17,900.00	7,618.00	8,111.90	7,741.29	152.03	42.98	91.30	-8,729.46	1,087.29	4,972.60	4,789.05	183.55	27.092	
18,000.00	7,618.00	18,000.00	7,691.12	153.29	63.06	90.64	-8,730.98	1,087.22	4,926.40	4,718.92	207.48	23.744	
18,100.00	7,618.00	8,114.59	7,743.98	154.57	42.99	91.33	-8,729.36	1,087.34	4,881.79	4,695.54	186.26	26.210	
18,200.00	7,618.00	8,107.99	7,737.39	155.86	42.98	91.25	-8,729.60	1,087.30	4,838.86	4,651.30	187.56	25.798	
18,300.00	7,618.00	8,101.61	7,731.00	157.17	42.96	91.16	-8,729.82	1,087.26	4,797.63	4,608.76	188.87	25.402	
18,400.00	7,618.00	8,095.42	7,724.82	158.49	42.95	91.08	-8,730.03	1,087.23	4,758.13	4,567.97	190.16	25.021	
18,500.00	7,618.00	8,089.42	7,718.83	159.82	42.94	91.00	-8,730.23	1,087.21	4,720.42	4,528.97	191.45	24.656	
18,600.00	7,618.00	8,083.61	7,713.01	161.17	42.93	90.93	-8,730.42	1,087.18	4,684.54	4,491.82	192.72	24.308	
18,700.00	7,618.00	8,077.96	7,707.37	162.54	42.92	90.85	-8,730.61	1,087.16	4,650.52	4,456.55	193.97	23.975	
18,800.00	7,618.00	8,072.49	7,701.90	163.91	42.91	90.78	-8,730.78	1,087.14	4,618.42	4,423.22	195.20	23.660	
18,900.00	7,618.00	8,067.17	7,696.58	165.30	42.90	90.71	-8,730.95	1,087.12	4,588.27	4,391.86	196.41	23.361	
19,000.00	7,618.00	8,062.00	7,691.42	166.70	42.89	90.65	-8,731.11	1,087.11	4,560.11	4,362.52	197.59	23.079	
19,100.00	7,618.00	8,056.98	7,686.40	168.10	42.88	90.58	-8,731.27	1,087.10	4,533.98	4,335.25	198.73	22.815	
19,200.00	7,618.00	8,052.10	7,681.52	169.52	42.87	90.52	-8,731.42	1,087.09	4,509.91	4,310.07	199.84	22.568	
19,300.00	7,618.00	8,047.35	7,676.77	170.95	42.86	90.45	-8,731.56	1,087.08	4,487.93	4,287.03	200.90	22.339	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	8,042.73	7,672.16	172.39	42.85	90.39	-8,731.70	1,087.07	4,468.09	4,266.16	201.93	22.127	
19,500.00	7,618.00	8,038.23	7,667.66	173.84	42.84	90.34	-8,731.83	1,087.07	4,450.40	4,247.50	202.90	21.934	
19,600.00	7,618.00	8,033.85	7,663.28	175.30	42.83	90.28	-8,731.95	1,087.06	4,434.89	4,231.06	203.83	21.758	
19,700.00	7,618.00	8,029.58	7,659.02	176.76	42.83	90.22	-8,732.07	1,087.06	4,421.58	4,216.89	204.70	21.601	
19,800.00	7,618.00	8,025.43	7,654.86	178.24	42.82	90.17	-8,732.19	1,087.06	4,410.51	4,205.00	205.51	21.461	
19,896.19	7,618.00	8,021.53	7,650.97	179.66	42.81	90.12	-8,732.30	1,087.06	4,401.97	4,195.73	206.24	21.344	CC, ES, SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	45.30	45.30	0.00	0.07	163.91	-7,154.09	2,063.70	7,445.83				
100.00	100.00	115.09	115.09	0.13	0.25	163.91	-7,153.87	2,063.81	7,445.62	7,445.23	0.39	N/A	
200.00	200.00	166.00	166.00	0.49	0.43	163.91	-7,154.22	2,063.48	7,446.09	7,445.17	0.92	8,074.992	
300.00	299.98	211.75	211.73	0.85	0.59	94.58	-7,154.94	2,062.94	7,447.39	7,445.95	1.44	5,178.277	
400.00	399.84	257.00	256.97	1.21	0.75	94.56	-7,155.99	2,062.29	7,449.66	7,447.71	1.96	3,808.325	
500.00	499.45	298.69	298.63	1.58	0.90	94.53	-7,157.36	2,061.42	7,452.98	7,450.50	2.48	3,007.207	
600.00	598.70	349.00	348.86	1.97	1.08	94.51	-7,159.66	2,059.84	7,457.41	7,454.36	3.05	2,445.744	
700.00	697.47	376.54	376.33	2.38	1.18	94.44	-7,161.21	2,058.74	7,462.90	7,459.33	3.56	2,093.634	
800.00	795.62	414.92	414.59	2.83	1.33	94.39	-7,163.70	2,056.97	7,469.51	7,465.36	4.15	1,800.139	
900.00	893.06	440.00	439.57	3.31	1.42	94.29	-7,165.54	2,055.65	7,477.26	7,472.54	4.72	1,583.940	
1,000.00	989.64	480.10	479.47	3.83	1.58	94.21	-7,168.85	2,053.47	7,486.15	7,480.76	5.39	1,388.924	
1,100.00	1,085.27	533.00	532.05	4.40	1.78	94.16	-7,173.93	2,050.63	7,496.39	7,490.23	6.15	1,218.424	
1,200.00	1,179.82	533.00	532.05	5.02	1.78	93.93	-7,173.93	2,050.63	7,507.61	7,500.84	6.76	1,110.113	
1,300.00	1,273.17	573.10	571.85	5.70	1.95	93.81	-7,178.32	2,048.31	7,520.09	7,512.51	7.58	991.966	
1,400.00	1,365.21	625.00	623.23	6.43	2.16	93.73	-7,184.67	2,044.76	7,533.80	7,525.30	8.50	886.259	
1,500.00	1,455.84	625.00	623.23	7.23	2.16	93.43	-7,184.67	2,044.76	7,548.56	7,539.28	9.27	813.973	
1,600.00	1,544.94	675.02	672.62	8.09	2.37	93.32	-7,191.46	2,040.72	7,564.43	7,554.12	10.31	733.630	
1,700.00	1,632.39	717.00	713.96	9.01	2.55	93.17	-7,197.61	2,036.82	7,581.46	7,570.08	11.38	666.388	
1,800.00	1,718.11	717.00	713.96	10.00	2.55	92.80	-7,197.61	2,036.82	7,599.68	7,587.35	12.33	616.291	
1,900.00	1,801.97	761.05	757.22	11.07	2.76	92.62	-7,204.58	2,032.29	7,618.96	7,605.42	13.54	562.710	
2,000.00	1,883.88	809.00	804.14	12.20	2.98	92.46	-7,212.84	2,026.89	7,639.62	7,624.79	14.83	515.163	
2,100.00	1,963.74	809.00	804.14	13.41	2.98	92.02	-7,212.84	2,026.89	7,661.22	7,645.25	15.97	479.650	
2,200.00	2,041.45	809.00	804.14	14.69	2.98	91.55	-7,212.84	2,026.89	7,684.18	7,667.00	17.18	447.343	
2,300.00	2,116.92	848.33	842.50	16.05	3.17	91.28	-7,220.14	2,022.13	7,708.16	7,689.53	18.63	413.825	
2,357.48	2,159.25	859.43	853.30	16.86	3.23	91.05	-7,222.28	2,020.73	7,722.50	7,703.07	19.43	397.395	
2,400.00	2,190.27	867.46	861.11	17.47	3.27	91.10	-7,223.85	2,019.71	7,733.34	7,713.31	20.04	385.977	
2,500.00	2,263.22	898.00	890.75	18.92	3.42	91.29	-7,229.99	2,015.71	7,759.63	7,738.12	21.51	360.702	
2,600.00	2,336.18	898.00	890.75	20.37	3.42	91.29	-7,229.99	2,015.71	7,786.93	7,764.09	22.84	340.863	
2,700.00	2,409.14	898.00	890.75	21.84	3.42	91.29	-7,229.99	2,015.71	7,815.42	7,791.24	24.17	323.319	
2,800.00	2,482.09	930.87	922.58	23.31	3.59	91.49	-7,236.97	2,011.35	7,844.79	7,819.13	25.66	305.752	
2,900.00	2,555.05	944.68	935.93	24.78	3.66	91.58	-7,240.02	2,009.53	7,875.32	7,848.27	27.04	291.238	
3,000.00	2,628.01	986.00	975.76	26.27	3.88	91.83	-7,249.59	2,004.14	7,907.09	7,878.54	28.55	276.928	
3,100.00	2,700.96	986.00	975.76	27.75	3.88	91.83	-7,249.59	2,004.14	7,939.55	7,909.70	29.85	265.985	
3,200.00	2,773.92	986.00	975.76	29.24	3.88	91.83	-7,249.59	2,004.14	7,973.14	7,942.00	31.14	256.082	
3,300.00	2,846.88	1,004.81	993.85	30.73	3.99	91.95	-7,254.13	2,001.74	8,007.77	7,975.26	32.51	246.350	
3,400.00	2,919.83	1,036.00	1,023.83	32.23	4.16	92.14	-7,261.84	1,997.93	8,043.38	8,009.45	33.93	237.054	
3,500.00	2,992.79	1,036.00	1,023.83	33.72	4.16	92.14	-7,261.84	1,997.93	8,079.90	8,044.72	35.18	229.672	
3,600.00	3,065.75	1,036.00	1,023.83	35.22	4.16	92.14	-7,261.84	1,997.93	8,117.49	8,081.07	36.42	222.909	
3,700.00	3,138.71	1,084.48	1,070.40	36.72	4.43	92.43	-7,274.23	1,992.58	8,155.73	8,117.84	37.89	215.233	
3,800.00	3,211.66	1,105.13	1,090.22	38.22	4.54	92.55	-7,279.65	1,990.56	8,195.00	8,155.79	39.21	208.985	
3,900.00	3,284.62	1,143.00	1,126.55	39.72	4.76	92.78	-7,289.82	1,987.25	8,235.20	8,194.59	40.62	202.751	
4,000.00	3,357.58	1,151.93	1,135.10	41.22	4.81	92.83	-7,292.25	1,986.53	8,276.17	8,234.32	41.85	197.764	
4,100.00	3,430.53	1,197.39	1,178.69	42.73	5.06	93.09	-7,304.68	1,982.93	8,317.93	8,274.66	43.27	192.253	
4,200.00	3,503.49	1,255.30	1,234.20	44.23	5.39	93.43	-7,320.58	1,978.46	8,360.34	8,315.60	44.74	186.861	
4,300.00	3,576.45	1,370.36	1,344.57	45.74	6.05	94.09	-7,351.81	1,969.53	8,403.16	8,356.63	46.52	180.623	
4,400.00	3,649.40	4,400.00	1,448.32	47.25	23.49	94.71	-7,380.23	1,960.62	8,445.95	8,385.27	60.68	139.192	
4,500.00	3,722.36	1,531.54	1,499.52	48.75	6.98	95.02	-7,394.12	1,956.06	8,489.24	8,439.55	49.69	170.859	
4,600.00	3,795.32	1,563.61	1,530.31	50.26	7.16	95.20	-7,402.58	1,953.17	8,533.25	8,482.27	50.98	167.380	
4,700.00	3,868.27	1,599.21	1,564.47	51.77	7.37	95.40	-7,412.06	1,949.85	8,577.99	8,525.71	52.29	164.060	
4,800.00	3,941.23	1,638.52	1,602.14	53.28	7.61	95.63	-7,422.60	1,946.02	8,623.40	8,569.80	53.60	160.884	
4,900.00	4,014.19	1,684.59	1,646.26	54.79	7.88	95.89	-7,435.04	1,941.35	8,669.46	8,614.52	54.94	157.793	
5,000.00	4,087.15	1,750.10	1,708.97	56.30	8.27	96.27	-7,452.69	1,934.50	8,716.04	8,659.66	56.39	154.574	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,160.10	1,801.37	1,758.04	57.81	8.58	96.56	-7,466.48	1,929.02	8,763.14	8,705.40	57.74	151.771	
5,200.00	4,233.06	1,857.08	1,811.36	59.32	8.92	96.88	-7,481.50	1,923.00	8,810.80	8,751.69	59.11	149.067	
5,300.00	4,306.02	1,933.95	1,884.95	60.83	9.38	97.31	-7,502.13	1,914.84	8,858.89	8,798.30	60.59	146.213	
5,400.00	4,378.97	1,977.35	1,926.53	62.34	9.64	97.56	-7,513.78	1,910.41	8,907.47	8,845.61	61.86	143.991	
5,500.00	4,451.93	2,200.61	2,141.10	63.85	10.95	98.79	-7,571.77	1,889.53	8,955.72	8,891.53	64.19	139.526	
5,600.00	4,524.89	2,216.05	2,155.94	65.36	11.05	98.87	-7,575.70	1,887.88	9,004.39	8,939.11	65.28	137.935	
5,700.00	4,597.84	2,237.44	2,176.48	66.88	11.17	98.99	-7,581.18	1,885.46	9,053.77	8,987.38	66.39	136.365	
5,800.00	4,670.80	5,800.00	2,249.18	68.39	32.63	99.41	-7,600.69	1,875.83	9,103.83	9,021.03	82.80	109.950	
5,900.00	4,743.76	2,406.38	2,338.46	69.90	12.19	99.93	-7,624.04	1,863.93	9,153.96	9,084.61	69.34	132.013	
6,000.00	4,816.71	2,431.36	2,362.44	71.41	12.33	100.07	-7,630.34	1,860.86	9,204.63	9,134.18	70.44	130.668	
6,100.00	4,889.67	6,100.00	2,528.13	72.93	33.65	101.00	-7,673.54	1,841.77	9,255.67	9,168.65	87.02	106.368	
6,200.00	4,962.63	2,627.00	2,550.62	74.44	13.48	101.12	-7,679.24	1,839.24	9,306.69	9,233.20	73.49	126.633	
6,300.00	5,035.59	2,668.39	2,590.47	75.95	13.73	101.34	-7,689.25	1,834.32	9,358.14	9,283.48	74.66	125.336	
6,400.00	5,108.54	2,684.01	2,605.49	77.47	13.82	101.43	-7,693.14	1,832.42	9,410.41	9,334.74	75.67	124.365	
6,500.00	5,181.50	2,714.00	2,634.25	78.98	14.00	101.59	-7,700.79	1,828.72	9,463.39	9,386.64	76.75	123.309	
6,600.00	5,254.46	2,723.95	2,643.78	80.49	14.06	101.64	-7,703.36	1,827.48	9,516.95	9,439.26	77.69	122.502	
6,700.00	5,327.41	2,948.80	2,859.88	82.01	15.39	102.83	-7,759.75	1,801.51	9,570.43	9,490.48	79.95	119.707	
6,800.00	5,400.37	2,976.00	2,886.09	83.52	15.55	102.97	-7,766.34	1,798.41	9,623.96	9,542.98	80.98	118.839	
6,900.00	5,473.33	3,019.69	2,928.17	85.04	15.80	103.20	-7,777.07	1,793.64	9,677.98	9,595.87	82.11	117.868	
7,000.00	5,546.28	3,064.00	2,970.81	86.55	16.06	103.42	-7,788.30	1,789.26	9,732.66	9,649.43	83.23	116.937	
7,100.00	5,619.24	3,079.00	2,985.23	88.06	16.15	103.50	-7,792.16	1,787.86	9,787.81	9,703.65	84.16	116.304	
7,200.00	5,692.20	3,136.18	3,040.23	89.58	16.49	103.79	-7,806.89	1,782.52	9,843.43	9,758.09	85.34	115.343	
7,300.00	5,765.15	3,178.39	3,080.81	91.09	16.74	104.00	-7,817.78	1,778.54	9,899.44	9,813.02	86.42	114.549	
7,400.00	5,838.11	3,214.81	3,115.81	92.61	16.96	104.18	-7,827.19	1,774.88	9,955.92	9,868.47	87.45	113.842	
10,700.00	7,618.00	7,730.96	7,563.07	123.40	34.76	88.84	-8,337.36	1,582.08	9,938.15	9,806.25	131.90	75.346	
10,800.00	7,618.00	7,732.72	7,564.83	123.18	34.77	88.86	-8,337.39	1,582.12	9,846.23	9,714.10	132.13	74.520	
10,900.00	7,618.00	7,734.48	7,566.59	122.96	34.77	88.89	-8,337.42	1,582.16	9,754.47	9,622.10	132.37	73.694	
11,000.00	7,618.00	7,736.24	7,568.35	122.76	34.78	88.92	-8,337.45	1,582.19	9,662.87	9,530.26	132.61	72.868	
11,100.00	7,618.00	7,738.01	7,570.12	122.57	34.78	88.94	-8,337.48	1,582.23	9,571.44	9,438.58	132.86	72.043	
11,200.00	7,618.00	7,739.77	7,571.88	122.39	34.79	88.97	-8,337.51	1,582.27	9,480.18	9,347.07	133.11	71.219	
11,300.00	7,618.00	7,741.54	7,573.65	122.23	34.79	88.99	-8,337.55	1,582.31	9,389.11	9,255.73	133.38	70.395	
11,400.00	7,618.00	7,743.31	7,575.42	122.07	34.80	89.02	-8,337.58	1,582.34	9,298.21	9,164.56	133.65	69.573	
11,500.00	7,618.00	7,745.08	7,577.19	121.93	34.80	89.05	-8,337.61	1,582.38	9,207.50	9,073.58	133.93	68.751	
11,600.00	7,618.00	7,746.85	7,578.96	121.79	34.81	89.07	-8,337.64	1,582.42	9,116.99	8,982.78	134.21	67.930	
11,700.00	7,618.00	7,748.62	7,580.73	121.67	34.81	89.10	-8,337.67	1,582.46	9,026.68	8,892.17	134.51	67.110	
11,800.00	7,618.00	7,750.39	7,582.50	121.56	34.82	89.12	-8,337.70	1,582.49	8,936.57	8,801.76	134.81	66.291	
11,900.00	7,618.00	7,752.17	7,584.28	121.46	34.82	89.15	-8,337.73	1,582.53	8,846.67	8,711.55	135.12	65.473	
12,000.00	7,618.00	7,753.95	7,586.05	121.38	34.83	89.18	-8,337.77	1,582.57	8,757.00	8,621.56	135.44	64.656	
12,100.00	7,618.00	7,755.73	7,587.83	121.30	34.83	89.20	-8,337.80	1,582.61	8,667.55	8,531.78	135.77	63.841	
12,200.00	7,618.00	7,757.51	7,589.61	121.24	34.84	89.23	-8,337.83	1,582.64	8,578.33	8,442.22	136.11	63.027	
12,300.00	7,618.00	7,759.29	7,591.39	121.19	34.84	89.26	-8,337.86	1,582.68	8,489.35	8,352.90	136.45	62.214	
12,400.00	7,618.00	7,761.07	7,593.17	121.16	34.85	89.28	-8,337.89	1,582.72	8,400.62	8,263.81	136.81	61.403	
12,500.00	7,618.00	7,762.86	7,594.96	121.14	34.85	89.31	-8,337.92	1,582.76	8,312.14	8,174.96	137.18	60.593	
12,600.00	7,618.00	7,764.64	7,596.74	121.13	34.86	89.33	-8,337.96	1,582.80	8,223.93	8,086.37	137.56	59.785	
12,700.00	7,618.00	7,766.43	7,598.53	121.13	34.86	89.36	-8,337.99	1,582.83	8,135.99	7,998.05	137.95	58.979	
12,800.00	7,618.00	7,768.22	7,600.32	121.15	34.87	89.39	-8,338.02	1,582.87	8,048.33	7,909.99	138.35	58.175	
12,900.00	7,618.00	7,770.01	7,602.11	121.18	34.87	89.41	-8,338.05	1,582.91	7,960.97	7,822.21	138.76	57.373	
13,000.00	7,618.00	7,771.80	7,603.90	121.23	34.88	89.44	-8,338.08	1,582.95	7,873.90	7,734.72	139.18	56.572	
13,100.00	7,618.00	7,773.59	7,605.69	121.29	34.88	89.47	-8,338.12	1,582.99	7,787.14	7,647.52	139.62	55.774	
13,200.00	7,618.00	7,775.39	7,607.49	121.37	34.89	89.49	-8,338.15	1,583.03	7,700.71	7,560.64	140.07	54.978	
13,300.00	7,618.00	7,777.19	7,609.28	121.46	34.89	89.52	-8,338.18	1,583.06	7,614.60	7,474.07	140.53	54.185	
13,400.00	7,618.00	7,780.32	7,612.41	121.57	34.90	89.56	-8,338.24	1,583.13	7,528.84	7,387.83	141.01	53.392	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
13,500.00	7,618.00	7,784.38	7,616.47	121.70	34.91	89.62	-8,338.31	1,583.22	7,443.43	7,301.92	141.51	52.600	
13,600.00	7,618.00	7,788.22	7,620.32	121.84	34.92	89.68	-8,338.37	1,583.30	7,358.39	7,216.37	142.02	51.811	
13,700.00	7,618.00	7,791.87	7,623.96	122.01	34.93	89.73	-8,338.43	1,583.38	7,273.73	7,131.18	142.55	51.026	
13,800.00	7,618.00	7,795.34	7,627.43	122.19	34.94	89.79	-8,338.49	1,583.45	7,189.46	7,046.37	143.09	50.244	
13,900.00	7,618.00	7,798.63	7,630.72	122.39	34.95	89.83	-8,338.54	1,583.52	7,105.60	6,961.96	143.65	49.466	
14,000.00	7,618.00	7,801.77	7,633.86	122.62	34.96	89.88	-8,338.59	1,583.58	7,022.17	6,877.95	144.22	48.692	
14,100.00	7,618.00	7,804.76	7,636.85	122.86	34.96	89.92	-8,338.63	1,583.64	6,939.16	6,794.36	144.80	47.921	
14,200.00	7,618.00	7,807.62	7,639.70	123.12	34.97	89.97	-8,338.67	1,583.70	6,856.62	6,711.21	145.41	47.155	
14,300.00	7,618.00	7,810.35	7,642.43	123.41	34.98	90.01	-8,338.71	1,583.75	6,774.54	6,628.51	146.02	46.393	
14,400.00	7,618.00	7,812.96	7,645.04	123.72	34.99	90.04	-8,338.75	1,583.81	6,692.95	6,546.29	146.66	45.636	
14,500.00	7,618.00	7,815.45	7,647.54	124.06	34.99	90.08	-8,338.78	1,583.85	6,611.86	6,464.55	147.31	44.883	
14,600.00	7,618.00	7,817.85	7,649.93	124.42	35.00	90.12	-8,338.81	1,583.90	6,531.30	6,383.31	147.98	44.135	
14,700.00	7,618.00	7,820.14	7,652.22	124.80	35.01	90.15	-8,338.84	1,583.95	6,451.28	6,302.61	148.67	43.393	
14,800.00	7,618.00	7,822.35	7,654.43	125.21	35.01	90.18	-8,338.87	1,583.99	6,371.82	6,222.44	149.38	42.655	
14,900.00	7,618.00	7,824.46	7,656.54	125.65	35.02	90.21	-8,338.90	1,584.03	6,292.95	6,142.85	150.11	41.924	
15,000.00	7,618.00	7,826.50	7,658.58	126.11	35.02	90.24	-8,338.92	1,584.07	6,214.69	6,063.84	150.85	41.197	
15,100.00	7,618.00	7,828.46	7,660.54	126.61	35.03	90.27	-8,338.95	1,584.11	6,137.06	5,985.45	151.62	40.477	
15,200.00	7,618.00	7,830.34	7,662.42	127.13	35.03	90.30	-8,338.97	1,584.14	6,060.09	5,907.68	152.40	39.764	
15,300.00	7,618.00	7,832.16	7,664.24	127.68	35.04	90.33	-8,338.99	1,584.18	5,983.79	5,830.58	153.21	39.056	
15,400.00	7,618.00	7,833.91	7,665.99	128.26	35.04	90.35	-8,339.01	1,584.21	5,908.21	5,754.17	154.04	38.356	
15,500.00	7,618.00	7,835.60	7,667.68	128.87	35.05	90.38	-8,339.03	1,584.24	5,833.35	5,678.47	154.88	37.663	
15,600.00	7,618.00	7,837.24	7,669.31	129.51	35.05	90.40	-8,339.05	1,584.28	5,759.26	5,603.51	155.75	36.977	
15,700.00	7,618.00	7,838.81	7,670.89	130.18	35.05	90.43	-8,339.07	1,584.31	5,685.97	5,529.32	156.64	36.299	
15,800.00	7,618.00	7,840.34	7,672.41	130.88	35.06	90.45	-8,339.08	1,584.33	5,613.49	5,455.94	157.56	35.629	
15,900.00	7,618.00	7,841.81	7,673.89	131.61	35.06	90.47	-8,339.10	1,584.36	5,541.88	5,383.39	158.49	34.967	
16,000.00	7,618.00	7,843.24	7,675.31	132.37	35.07	90.49	-8,339.11	1,584.39	5,471.15	5,311.71	159.44	34.314	
16,100.00	7,618.00	7,844.62	7,676.69	133.17	35.07	90.51	-8,339.13	1,584.41	5,401.35	5,240.93	160.42	33.670	
16,200.00	7,618.00	7,845.95	7,678.03	133.99	35.07	90.53	-8,339.14	1,584.44	5,332.51	5,171.10	161.42	33.036	
16,300.00	7,618.00	7,847.25	7,679.33	134.84	35.08	90.55	-8,339.15	1,584.46	5,264.67	5,102.24	162.43	32.411	
16,400.00	7,618.00	7,848.51	7,680.58	135.72	35.08	90.57	-8,339.16	1,584.48	5,197.87	5,034.40	163.47	31.797	
16,500.00	7,618.00	7,849.73	7,681.80	136.63	35.08	90.59	-8,339.18	1,584.51	5,132.15	4,967.62	164.53	31.193	
16,600.00	7,618.00	7,850.91	7,682.99	137.57	35.09	90.60	-8,339.19	1,584.53	5,067.55	4,901.94	165.61	30.600	
16,700.00	7,618.00	7,852.06	7,684.13	138.54	35.09	90.62	-8,339.20	1,584.55	5,004.11	4,837.41	166.70	30.019	
16,800.00	7,618.00	7,853.18	7,685.25	139.53	35.09	90.64	-8,339.21	1,584.57	4,941.88	4,774.07	167.81	29.449	
16,900.00	7,618.00	7,854.26	7,686.33	140.55	35.10	90.65	-8,339.22	1,584.59	4,880.91	4,711.97	168.94	28.891	
17,000.00	7,618.00	7,855.32	7,687.39	141.60	35.10	90.67	-8,339.23	1,584.61	4,821.24	4,651.15	170.08	28.346	
17,100.00	7,618.00	7,856.34	7,688.41	142.67	35.10	90.68	-8,339.24	1,584.63	4,762.92	4,591.68	171.24	27.814	
17,200.00	7,618.00	7,857.34	7,689.41	143.77	35.10	90.70	-8,339.24	1,584.64	4,706.00	4,533.60	172.41	27.296	
17,300.00	7,618.00	7,858.31	7,690.38	144.88	35.11	90.71	-8,339.25	1,584.66	4,650.54	4,476.96	173.58	26.791	
17,400.00	7,618.00	7,859.26	7,691.33	146.02	35.11	90.73	-8,339.26	1,584.68	4,596.59	4,421.82	174.77	26.301	
17,500.00	7,618.00	7,860.18	7,692.25	147.19	35.11	90.74	-8,339.27	1,584.70	4,544.19	4,368.23	175.96	25.825	
17,600.00	7,618.00	7,861.07	7,693.15	148.37	35.11	90.75	-8,339.28	1,584.71	4,493.41	4,316.26	177.15	25.365	
17,700.00	7,618.00	7,861.95	7,694.02	149.57	35.12	90.77	-8,339.28	1,584.73	4,444.30	4,265.96	178.34	24.920	
17,800.00	7,618.00	7,862.80	7,694.87	150.79	35.12	90.78	-8,339.29	1,584.74	4,396.91	4,217.38	179.53	24.491	
17,900.00	7,618.00	7,863.63	7,695.71	152.03	35.12	90.79	-8,339.30	1,584.76	4,351.31	4,170.60	180.71	24.079	
18,000.00	7,618.00	7,864.44	7,696.52	153.29	35.12	90.80	-8,339.30	1,584.77	4,307.55	4,125.66	181.88	23.683	
18,100.00	7,618.00	7,865.24	7,697.31	154.57	35.12	90.81	-8,339.31	1,584.79	4,265.68	4,082.64	183.04	23.305	
18,200.00	7,618.00	7,866.01	7,698.08	155.86	35.13	90.83	-8,339.31	1,584.80	4,225.76	4,041.58	184.18	22.944	
18,300.00	7,618.00	7,866.76	7,698.84	157.17	35.13	90.84	-8,339.32	1,584.81	4,187.85	4,002.56	185.29	22.601	
18,400.00	7,618.00	7,867.50	7,699.57	158.49	35.13	90.85	-8,339.33	1,584.82	4,152.01	3,965.62	186.39	22.276	
18,500.00	7,618.00	7,868.22	7,700.29	159.82	35.13	90.86	-8,339.33	1,584.84	4,118.28	3,930.83	187.45	21.970	
18,600.00	7,618.00	7,868.93	7,701.00	161.17	35.13	90.87	-8,339.34	1,584.85	4,086.72	3,898.25	188.47	21.683	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
18,700.00	7,618.00	7,869.61	7,701.68	162.54	35.14	90.88	-8,339.34	1,584.86	4,057.38	3,867.92	189.46	21.416	
18,800.00	7,618.00	7,870.29	7,702.36	163.91	35.14	90.89	-8,339.35	1,584.87	4,030.31	3,839.90	190.40	21.167	
18,900.00	7,618.00	7,870.94	7,703.01	165.30	35.14	90.90	-8,339.35	1,584.88	4,005.55	3,814.25	191.30	20.939	
19,000.00	7,618.00	7,871.59	7,703.66	166.70	35.14	90.91	-8,339.35	1,584.90	3,983.15	3,791.01	192.14	20.730	
19,100.00	7,618.00	7,872.22	7,704.29	168.10	35.14	90.92	-8,339.36	1,584.91	3,963.14	3,770.22	192.93	20.542	
19,200.00	7,618.00	7,872.83	7,704.90	169.52	35.14	90.93	-8,339.36	1,584.92	3,945.57	3,751.92	193.65	20.375	
19,300.00	7,618.00	7,873.44	7,705.51	170.95	35.15	90.93	-8,339.37	1,584.93	3,930.47	3,736.15	194.31	20.227	
19,400.00	7,618.00	7,874.03	7,706.10	172.39	35.15	90.94	-8,339.37	1,584.94	3,917.86	3,722.95	194.91	20.101	
19,500.00	7,618.00	7,874.61	7,706.68	173.84	35.15	90.95	-8,339.37	1,584.95	3,907.77	3,712.34	195.43	19.995	
19,600.00	7,618.00	7,875.17	7,707.24	175.30	35.15	90.96	-8,339.38	1,584.96	3,900.22	3,704.33	195.88	19.911	
19,700.00	7,618.00	7,875.73	7,707.80	176.76	35.15	90.97	-8,339.38	1,584.97	3,895.22	3,698.96	196.26	19.847	
19,800.00	7,618.00	7,876.27	7,708.34	178.24	35.15	90.98	-8,339.39	1,584.98	3,892.79	3,696.23	196.56	19.804	
19,844.81	7,618.00	7,876.51	7,708.58	178.90	35.15	90.98	-8,339.39	1,584.98	3,892.53	3,695.86	196.67	19.792	CC, ES
19,896.19	7,618.00	7,876.78	7,708.85	179.66	35.16	90.98	-8,339.39	1,584.99	3,892.87	3,696.09	196.78	19.783	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	22.14	22.14	0.00	0.04	163.76	-7,110.82	2,071.79	7,406.49				
100.00	100.00	114.41	114.41	0.13	0.19	163.75	-7,110.80	2,072.11	7,406.56	7,406.24	0.32	N/A	
200.00	200.00	187.16	187.14	0.49	0.41	163.74	-7,110.62	2,073.43	7,406.85	7,405.95	0.90	8,210.691	
300.00	299.98	226.00	225.93	0.85	0.56	94.40	-7,110.32	2,075.33	7,407.78	7,406.39	1.40	5,299.817	
400.00	399.84	266.20	266.03	1.21	0.71	94.35	-7,110.09	2,078.17	7,409.80	7,407.89	1.91	3,883.193	
500.00	499.45	318.00	317.60	1.58	0.91	94.29	-7,110.29	2,083.06	7,413.21	7,410.74	2.47	2,995.438	
600.00	598.70	329.17	328.70	1.97	0.95	94.20	-7,110.40	2,084.27	7,417.58	7,414.67	2.91	2,549.256	
700.00	697.47	859.67	849.81	2.38	3.35	94.07	-7,092.19	2,177.09	7,422.80	7,417.08	5.72	1,298.027	
800.00	795.62	940.00	927.25	2.83	3.79	94.02	-7,084.72	2,197.10	7,422.40	7,415.79	6.61	1,123.306	
820.11	815.28	964.47	950.79	2.93	3.93	94.01	-7,082.42	2,203.35	7,422.35	7,415.50	6.84	1,084.569	
900.00	893.06	1,002.32	987.18	3.31	4.14	93.99	-7,078.99	2,213.20	7,422.65	7,415.21	7.45	996.990	
1,000.00	989.64	1,064.38	1,046.78	3.83	4.50	93.96	-7,073.69	2,229.66	7,423.84	7,415.51	8.33	891.744	
1,100.00	1,085.27	1,148.38	1,127.64	4.40	4.98	93.94	-7,066.94	2,251.37	7,425.61	7,416.23	9.38	791.880	
1,200.00	1,179.82	1,232.67	1,208.96	5.02	5.47	93.94	-7,060.45	2,272.57	7,427.75	7,417.27	10.48	708.587	
1,300.00	1,273.17	1,296.86	1,270.46	5.70	5.85	93.92	-7,055.34	2,290.23	7,430.54	7,419.01	11.54	644.057	
1,400.00	1,365.21	1,421.80	1,390.06	6.43	6.60	93.96	-7,045.22	2,324.93	7,433.51	7,420.48	13.03	570.540	
1,500.00	1,455.84	1,489.42	1,454.94	7.23	7.01	93.97	-7,039.94	2,343.21	7,436.85	7,422.62	14.23	522.675	
1,600.00	1,544.94	1,537.53	1,501.11	8.09	7.30	93.95	-7,036.47	2,356.30	7,441.07	7,425.70	15.37	484.005	
1,700.00	1,632.39	1,648.99	1,607.99	9.01	7.98	94.04	-7,028.80	2,386.98	7,445.99	7,429.02	16.97	438.706	
1,800.00	1,718.11	1,764.84	1,718.83	10.00	8.69	94.16	-7,020.16	2,419.55	7,450.83	7,432.16	18.68	398.886	
1,900.00	1,801.97	1,894.30	1,842.88	11.07	9.48	94.34	-7,010.32	2,455.26	7,455.77	7,435.24	20.53	363.104	
2,000.00	1,883.88	1,986.57	1,931.48	12.20	10.04	94.47	-7,003.22	2,480.00	7,460.78	7,438.56	22.22	335.750	
2,100.00	1,963.74	2,101.02	2,041.42	13.41	10.73	94.67	-6,994.29	2,510.55	7,466.09	7,441.98	24.11	309.636	
2,200.00	2,041.45	2,168.00	2,105.79	14.69	11.13	94.76	-6,989.08	2,528.30	7,471.87	7,446.08	25.79	289.759	
2,300.00	2,116.92	2,221.39	2,157.08	16.05	11.45	94.79	-6,985.12	2,542.59	7,478.55	7,451.10	27.45	272.434	
2,357.48	2,159.25	2,255.00	2,189.34	16.86	11.66	94.82	-6,982.78	2,551.74	7,482.88	7,454.42	28.46	262.965	
2,400.00	2,190.27	2,400.00	2,246.09	17.47	12.57	95.02	-6,978.33	2,568.56	7,486.06	7,456.09	29.97	249.797	
2,500.00	2,263.22	2,430.00	2,356.71	18.92	12.75	95.41	-6,969.04	2,600.93	7,493.14	7,461.56	31.58	237.243	
2,600.00	2,336.18	2,480.09	2,404.77	20.37	13.06	95.58	-6,965.20	2,614.53	7,500.87	7,467.55	33.33	225.072	
2,700.00	2,409.14	2,517.00	2,440.09	21.84	13.29	95.71	-6,962.68	2,624.94	7,509.62	7,474.63	34.99	214.621	
2,800.00	2,482.09	2,551.94	2,473.50	23.31	13.50	95.82	-6,960.52	2,634.92	7,519.26	7,482.62	36.65	205.189	
2,900.00	2,555.05	2,604.00	2,523.36	24.78	13.83	96.00	-6,957.69	2,649.66	7,529.74	7,491.33	38.41	196.031	
3,000.00	2,628.01	2,686.39	2,602.07	26.27	14.35	96.27	-6,953.32	2,673.58	7,540.78	7,500.40	40.38	186.743	
3,100.00	2,700.96	2,781.37	2,692.84	27.75	14.95	96.59	-6,948.17	2,701.05	7,551.95	7,509.52	42.43	177.979	
3,200.00	2,773.92	2,893.74	2,800.47	29.24	15.64	96.96	-6,941.84	2,732.75	7,563.01	7,518.43	44.59	169.627	
3,300.00	2,846.88	2,953.00	2,857.17	30.73	16.01	97.16	-6,938.64	2,749.67	7,574.62	7,528.22	46.40	163.245	
3,400.00	2,919.83	3,167.85	3,062.55	32.23	17.37	97.87	-6,925.29	2,811.30	7,585.70	7,536.46	49.24	154.069	
3,500.00	2,992.79	3,223.62	3,115.77	33.72	17.72	98.05	-6,921.50	2,827.54	7,596.66	7,545.63	51.03	148.859	
3,600.00	3,065.75	3,328.57	3,216.29	35.22	18.37	98.40	-6,914.58	2,856.89	7,607.86	7,554.73	53.13	143.190	
3,700.00	3,138.71	3,428.70	3,313.16	36.72	18.94	98.75	-6,908.66	2,881.52	7,619.44	7,564.29	55.15	138.166	
3,800.00	3,211.66	3,557.57	3,438.81	38.22	19.62	99.23	-6,900.79	2,909.00	7,630.58	7,573.32	57.26	133.252	
3,900.00	3,284.62	3,628.12	3,508.01	39.72	19.95	99.51	-6,896.78	2,922.07	7,642.13	7,583.10	59.03	129.463	
4,000.00	3,357.58	3,691.68	3,570.61	41.22	20.24	99.77	-6,893.52	2,932.59	7,654.22	7,593.48	60.74	126.021	
4,100.00	3,430.53	3,755.89	3,634.05	42.73	20.51	100.04	-6,890.57	2,942.14	7,666.93	7,604.50	62.43	122.812	
4,200.00	3,503.49	3,836.27	3,713.67	44.23	20.84	100.38	-6,887.18	2,952.57	7,680.14	7,615.98	64.16	119.700	
4,300.00	3,576.45	3,926.19	3,802.97	45.74	21.17	100.78	-6,883.54	2,962.43	7,693.69	7,627.79	65.90	116.747	
4,400.00	3,649.40	3,986.05	3,862.52	47.25	21.39	101.04	-6,881.30	2,968.07	7,707.77	7,640.27	67.50	114.182	
4,500.00	3,722.36	4,058.49	3,934.67	48.75	21.63	101.37	-6,878.83	2,974.06	7,722.46	7,653.32	69.13	111.702	
4,600.00	3,795.32	4,123.66	3,999.63	50.26	21.85	101.67	-6,876.72	2,978.81	7,737.67	7,666.95	70.72	109.408	
4,700.00	3,868.27	4,184.44	4,060.26	51.77	22.04	101.95	-6,874.96	2,982.76	7,753.55	7,681.27	72.28	107.266	
4,800.00	3,941.23	4,275.62	4,151.25	53.28	22.32	102.38	-6,872.38	2,988.06	7,769.91	7,695.99	73.93	105.101	
4,900.00	4,014.19	4,347.33	4,222.83	54.79	22.54	102.71	-6,870.36	2,991.77	7,786.73	7,711.24	75.50	103.142	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,087.15	4,452.06	4,327.39	56.30	22.86	103.20	-6,867.26	2,996.85	7,803.92	7,726.77	77.16	101.145	
5,100.00	4,160.10	4,539.20	4,414.40	57.81	23.12	103.61	-6,864.50	3,000.84	7,821.42	7,742.67	78.75	99.319	
5,200.00	4,233.06	4,628.11	4,503.19	59.32	23.38	104.03	-6,861.56	3,004.53	7,839.28	7,758.94	80.34	97.575	
5,300.00	4,306.02	4,697.07	4,572.06	60.83	23.59	104.35	-6,859.29	3,007.15	7,857.63	7,775.78	81.85	95.995	
5,400.00	4,378.97	4,768.62	4,643.53	62.34	23.80	104.69	-6,856.97	3,009.64	7,876.51	7,793.14	83.37	94.479	
5,500.00	4,451.93	4,906.81	4,781.56	63.85	24.20	105.34	-6,852.10	3,013.99	7,895.69	7,810.62	85.07	92.818	
5,600.00	4,524.89	5,008.50	4,883.12	65.36	24.49	105.82	-6,847.80	3,016.92	7,914.76	7,828.11	86.64	91.349	
5,700.00	4,597.84	5,079.51	4,954.04	66.88	24.70	106.15	-6,844.77	3,018.61	7,934.31	7,846.19	88.12	90.042	
5,800.00	4,670.80	5,136.00	5,010.47	68.39	24.86	106.42	-6,842.40	3,019.71	7,954.42	7,864.88	89.54	88.836	
5,900.00	4,743.76	5,136.00	5,010.47	69.90	24.86	106.42	-6,842.40	3,019.71	7,975.52	7,884.73	90.79	87.849	
6,000.00	4,816.71	5,209.69	5,084.10	71.41	25.07	106.77	-6,839.74	3,020.97	7,997.05	7,904.82	92.23	86.705	
6,100.00	4,889.67	5,242.99	5,117.39	72.93	25.16	106.93	-6,838.81	3,021.51	8,019.69	7,926.14	93.55	85.728	
6,200.00	4,962.63	5,310.00	5,184.37	74.44	25.35	107.24	-6,837.47	3,022.54	8,043.36	7,948.41	94.95	84.709	
6,300.00	5,035.59	5,310.00	5,184.37	75.95	25.35	107.24	-6,837.47	3,022.54	8,067.57	7,971.43	96.14	83.915	
6,400.00	5,108.54	5,310.00	5,184.37	77.47	25.35	107.24	-6,837.47	3,022.54	8,092.95	7,995.64	97.31	83.169	
6,500.00	5,181.50	5,379.04	5,253.40	78.98	25.54	107.57	-6,836.78	3,023.59	8,118.86	8,020.18	98.68	82.273	
6,600.00	5,254.46	5,413.86	5,288.21	80.49	25.63	107.73	-6,836.68	3,024.13	8,145.74	8,045.81	99.93	81.511	
6,700.00	5,327.41	5,485.00	5,359.35	82.01	25.82	108.06	-6,837.01	3,025.29	8,173.62	8,072.33	101.29	80.692	
6,800.00	5,400.37	5,485.00	5,359.35	83.52	25.82	108.06	-6,837.01	3,025.29	8,201.97	8,099.57	102.40	80.096	
6,900.00	5,473.33	5,549.26	5,423.60	85.04	25.99	108.36	-6,837.63	3,026.27	8,231.16	8,127.45	103.71	79.367	
7,000.00	5,546.28	7,000.00	5,606.28	86.55	29.87	109.21	-6,838.51	3,028.03	8,260.67	8,151.82	108.85	75.891	
7,100.00	5,619.24	5,911.90	5,786.19	88.06	26.97	110.04	-6,836.75	3,029.17	8,289.45	8,182.38	107.07	77.421	
7,200.00	5,692.20	5,974.92	5,849.21	89.58	27.14	110.33	-6,835.73	3,029.49	8,318.16	8,209.81	108.35	76.770	
7,300.00	5,765.15	6,043.27	5,917.55	91.09	27.33	110.65	-6,834.70	3,029.83	8,347.40	8,237.76	109.64	76.135	
7,400.00	5,838.11	6,117.90	5,992.18	92.61	27.54	110.99	-6,833.57	3,030.15	8,377.09	8,266.15	110.94	75.511	
7,500.00	5,911.07	6,194.19	6,068.45	94.12	27.75	111.33	-6,832.40	3,030.42	8,407.21	8,294.98	112.23	74.909	
7,600.00	5,984.03	6,282.33	6,156.58	95.64	28.00	111.73	-6,830.94	3,030.63	8,437.69	8,324.14	113.55	74.306	
7,700.00	6,056.98	6,370.45	6,244.69	97.15	28.25	112.13	-6,829.31	3,030.71	8,468.47	8,353.61	114.86	73.726	
7,800.00	6,129.94	6,459.16	6,333.38	98.67	28.50	112.53	-6,827.51	3,030.77	8,499.56	8,383.39	116.17	73.167	
7,900.00	6,202.90	6,549.79	6,423.98	100.18	28.75	112.94	-6,825.51	3,030.87	8,530.94	8,413.47	117.47	72.625	
8,000.00	6,275.85	6,649.50	6,523.67	101.70	29.04	113.38	-6,823.07	3,031.15	8,562.54	8,443.76	118.79	72.082	
8,100.00	6,348.81	6,733.88	6,608.01	103.21	29.29	113.76	-6,820.81	3,031.57	8,594.37	8,474.31	120.05	71.588	
8,200.00	6,421.77	6,796.93	6,671.04	104.73	29.47	114.03	-6,819.15	3,031.90	8,626.64	8,505.40	121.24	71.154	
8,300.00	6,494.72	6,859.92	6,734.01	106.24	29.66	114.31	-6,817.58	3,032.22	8,659.41	8,537.00	122.41	70.739	
8,400.00	6,567.68	6,917.55	6,791.62	107.76	29.83	114.56	-6,816.22	3,032.50	8,692.69	8,569.13	123.56	70.352	
8,500.00	6,640.64	6,972.19	6,846.25	109.27	29.99	114.80	-6,815.05	3,032.73	8,726.52	8,601.83	124.69	69.988	
8,600.00	6,713.59	7,026.71	6,900.76	110.79	30.15	115.03	-6,813.99	3,032.93	8,760.90	8,635.10	125.80	69.642	
8,700.00	6,786.55	7,086.59	6,960.63	112.30	30.32	115.29	-6,812.95	3,033.12	8,795.81	8,668.89	126.92	69.301	
8,800.00	6,859.51	7,152.92	7,026.95	113.82	30.52	115.58	-6,811.88	3,033.41	8,831.19	8,703.13	128.06	68.962	
8,900.00	6,932.46	7,219.37	7,093.39	115.33	30.72	115.86	-6,810.89	3,033.80	8,866.99	8,737.81	129.19	68.637	
9,000.00	7,005.42	7,282.92	7,156.94	116.85	30.91	116.13	-6,810.01	3,034.21	8,903.24	8,772.94	130.30	68.330	
9,104.89	7,081.95	7,348.82	7,222.82	118.44	31.11	116.41	-6,809.17	3,034.60	8,941.75	8,810.30	131.45	68.024	
9,150.00	7,115.15	7,377.35	7,251.35	119.12	31.19	111.45	-6,808.83	3,034.75	8,956.83	8,824.87	131.95	67.879	
9,200.00	7,152.46	7,410.64	7,284.65	119.86	31.29	105.79	-6,808.46	3,034.93	8,969.76	8,837.23	132.53	67.679	
9,250.00	7,190.04	7,455.26	7,329.26	120.57	31.43	100.13	-6,807.95	3,035.18	8,978.61	8,845.43	133.18	67.419	
9,300.00	7,227.59	7,499.85	7,373.84	121.25	31.56	94.55	-6,807.41	3,035.46	8,983.30	8,849.47	133.83	67.127	
9,350.00	7,264.83	7,544.06	7,418.05	121.89	31.70	89.22	-6,806.85	3,035.77	8,983.80	8,849.33	134.47	66.807	
9,400.00	7,301.48	7,587.54	7,461.53	122.48	31.83	84.25	-6,806.27	3,036.12	8,980.12	8,845.00	135.11	66.464	
9,450.00	7,337.26	7,618.25	7,492.23	123.01	31.92	79.71	-6,805.87	3,036.37	8,972.31	8,836.62	135.69	66.122	
9,500.00	7,371.90	7,649.64	7,523.62	123.49	32.02	75.71	-6,805.47	3,036.62	8,960.46	8,824.20	136.26	65.762	
9,550.00	7,405.13	7,679.72	7,553.70	123.91	32.11	72.28	-6,805.09	3,036.86	8,944.64	8,807.85	136.79	65.389	
9,600.00	7,436.70	7,708.26	7,582.23	124.27	32.20	69.43	-6,804.75	3,037.10	8,924.98	8,787.69	137.29	65.006	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	7,735.04	7,609.01	124.57	32.28	67.16	-6,804.43	3,037.31	8,901.62	8,763.86	137.76	64.617	
9,700.00	7,493.91	7,760.36	7,634.33	124.81	32.36	65.48	-6,804.14	3,037.52	8,874.72	8,736.53	138.19	64.222	
9,750.00	7,519.11	7,785.38	7,659.35	125.00	32.44	64.41	-6,803.86	3,037.73	8,844.48	8,705.89	138.58	63.821	
9,800.00	7,541.79	7,807.86	7,681.82	125.12	32.51	63.95	-6,803.61	3,037.93	8,811.10	8,672.17	138.93	63.420	
9,850.00	7,561.77	7,827.60	7,701.56	125.20	32.57	64.17	-6,803.39	3,038.12	8,774.83	8,635.59	139.24	63.020	
9,900.00	7,578.90	7,844.45	7,718.41	125.23	32.62	65.17	-6,803.21	3,038.29	8,735.94	8,596.44	139.50	62.623	
9,950.00	7,593.04	7,858.28	7,732.23	125.22	32.66	67.12	-6,803.06	3,038.43	8,694.69	8,554.97	139.72	62.229	
10,000.00	7,604.09	7,868.97	7,742.92	125.17	32.69	70.30	-6,802.94	3,038.54	8,651.39	8,511.49	139.90	61.841	
10,050.00	7,611.97	7,876.43	7,750.39	125.08	32.72	75.21	-6,802.86	3,038.62	8,606.35	8,466.31	140.04	61.458	
10,100.00	7,616.61	7,880.61	7,754.57	124.97	32.73	82.62	-6,802.82	3,038.66	8,559.89	8,419.75	140.14	61.080	
10,145.95	7,618.00	7,881.53	7,755.48	124.84	32.73	92.66	-6,802.81	3,038.67	8,516.24	8,376.03	140.21	60.740	
10,200.00	7,618.00	7,880.94	7,754.90	124.69	32.73	92.65	-6,802.82	3,038.66	8,464.48	8,324.21	140.27	60.343	
10,300.00	7,618.00	7,879.87	7,753.82	124.41	32.73	92.62	-6,802.83	3,038.65	8,368.80	8,228.41	140.39	59.609	
10,400.00	7,618.00	7,878.79	7,752.74	124.14	32.73	92.59	-6,802.84	3,038.64	8,273.22	8,132.70	140.52	58.876	
10,500.00	7,618.00	7,877.71	7,751.66	123.88	32.72	92.57	-6,802.85	3,038.63	8,177.74	8,037.09	140.65	58.144	
10,600.00	7,618.00	7,876.63	7,750.58	123.63	32.72	92.54	-6,802.86	3,038.62	8,082.38	7,941.60	140.78	57.412	
10,700.00	7,618.00	7,875.55	7,749.50	123.40	32.72	92.52	-6,802.87	3,038.61	7,987.12	7,846.21	140.91	56.681	
10,800.00	7,618.00	7,874.46	7,748.42	123.18	32.71	92.49	-6,802.89	3,038.59	7,891.98	7,750.93	141.05	55.950	
10,900.00	7,618.00	7,873.38	7,747.33	122.96	32.71	92.47	-6,802.90	3,038.58	7,796.97	7,655.77	141.20	55.220	
11,000.00	7,618.00	7,872.29	7,746.25	122.76	32.71	92.44	-6,802.91	3,038.57	7,702.08	7,560.74	141.34	54.491	
11,100.00	7,618.00	7,871.21	7,745.16	122.57	32.70	92.42	-6,802.92	3,038.56	7,607.32	7,465.83	141.50	53.763	
11,200.00	7,618.00	7,870.12	7,744.07	122.39	32.70	92.39	-6,802.93	3,038.55	7,512.70	7,371.05	141.65	53.036	
11,300.00	7,618.00	7,869.03	7,742.98	122.23	32.70	92.37	-6,802.94	3,038.54	7,418.22	7,276.41	141.81	52.310	
11,400.00	7,618.00	7,867.94	7,741.89	122.07	32.69	92.34	-6,802.96	3,038.53	7,323.88	7,181.90	141.98	51.584	
11,500.00	7,618.00	7,866.85	7,740.80	121.93	32.69	92.32	-6,802.97	3,038.51	7,229.70	7,087.55	142.15	50.860	
11,600.00	7,618.00	7,865.75	7,739.71	121.79	32.68	92.29	-6,802.98	3,038.50	7,135.68	6,993.35	142.33	50.136	
11,700.00	7,618.00	7,864.66	7,738.61	121.67	32.68	92.26	-6,802.99	3,038.49	7,041.82	6,899.31	142.51	49.414	
11,800.00	7,618.00	7,863.56	7,737.52	121.56	32.68	92.24	-6,803.00	3,038.48	6,948.13	6,805.43	142.69	48.693	
11,900.00	7,618.00	7,862.47	7,736.42	121.46	32.67	92.21	-6,803.01	3,038.47	6,854.62	6,711.73	142.89	47.973	
12,000.00	7,618.00	7,861.37	7,735.32	121.38	32.67	92.19	-6,803.03	3,038.46	6,761.29	6,618.21	143.08	47.254	
12,100.00	7,618.00	7,860.27	7,734.22	121.30	32.67	92.16	-6,803.04	3,038.45	6,668.16	6,524.87	143.29	46.537	
12,200.00	7,618.00	7,859.17	7,733.12	121.24	32.66	92.14	-6,803.05	3,038.43	6,575.23	6,431.73	143.50	45.821	
12,300.00	7,618.00	7,858.07	7,732.02	121.19	32.66	92.11	-6,803.06	3,038.42	6,482.51	6,338.79	143.71	45.107	
12,400.00	7,618.00	7,856.96	7,730.92	121.16	32.66	92.08	-6,803.07	3,038.41	6,390.01	6,246.07	143.94	44.394	
12,500.00	7,618.00	7,855.86	7,729.82	121.14	32.65	92.06	-6,803.09	3,038.40	6,297.74	6,153.57	144.17	43.683	
12,600.00	7,618.00	7,854.75	7,728.71	121.13	32.65	92.03	-6,803.10	3,038.39	6,205.70	6,061.30	144.41	42.974	
12,700.00	7,618.00	7,853.65	7,727.60	121.13	32.65	92.01	-6,803.11	3,038.38	6,113.92	5,969.27	144.65	42.267	
12,800.00	7,618.00	7,852.54	7,726.50	121.15	32.64	91.98	-6,803.12	3,038.37	6,022.40	5,877.49	144.90	41.561	
12,900.00	7,618.00	7,851.43	7,725.39	121.18	32.64	91.95	-6,803.13	3,038.36	5,931.15	5,785.99	145.17	40.858	
13,000.00	7,618.00	7,850.32	7,724.28	121.23	32.64	91.93	-6,803.14	3,038.34	5,840.19	5,694.76	145.44	40.157	
13,100.00	7,618.00	7,849.21	7,723.16	121.29	32.63	91.90	-6,803.16	3,038.33	5,749.53	5,603.82	145.71	39.458	
13,200.00	7,618.00	7,848.09	7,722.05	121.37	32.63	91.88	-6,803.17	3,038.32	5,659.18	5,513.18	146.00	38.761	
13,300.00	7,618.00	7,846.98	7,720.94	121.46	32.63	91.85	-6,803.18	3,038.31	5,569.17	5,422.87	146.30	38.068	
13,400.00	7,618.00	7,845.86	7,719.82	121.57	32.62	91.82	-6,803.19	3,038.30	5,479.49	5,332.89	146.60	37.377	
13,500.00	7,618.00	7,844.75	7,718.70	121.70	32.62	91.80	-6,803.21	3,038.29	5,390.19	5,243.27	146.92	36.688	
13,600.00	7,618.00	7,843.63	7,717.59	121.84	32.62	91.77	-6,803.22	3,038.28	5,301.26	5,154.02	147.24	36.003	
13,700.00	7,618.00	7,842.51	7,716.47	122.01	32.61	91.75	-6,803.23	3,038.27	5,212.74	5,065.15	147.58	35.321	
13,800.00	7,618.00	7,841.39	7,715.35	122.19	32.61	91.72	-6,803.24	3,038.25	5,124.63	4,976.70	147.93	34.643	
13,900.00	7,618.00	7,840.27	7,714.23	122.39	32.61	91.69	-6,803.25	3,038.24	5,036.97	4,888.69	148.29	33.968	
14,000.00	7,618.00	7,839.14	7,713.10	122.62	32.60	91.67	-6,803.27	3,038.23	4,949.78	4,801.12	148.66	33.296	
14,100.00	7,618.00	7,838.02	7,711.98	122.86	32.60	91.64	-6,803.28	3,038.22	4,863.08	4,714.04	149.04	32.629	
14,200.00	7,618.00	7,836.89	7,710.85	123.12	32.60	91.61	-6,803.29	3,038.21	4,776.90	4,627.47	149.44	31.966	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	7,835.77	7,709.72	123.41	32.59	91.59	-6,803.30	3,038.20	4,691.27	4,541.43	149.84	31.308	
14,400.00	7,618.00	7,834.64	7,708.60	123.72	32.59	91.56	-6,803.32	3,038.19	4,606.22	4,455.96	150.26	30.654	
14,500.00	7,618.00	7,833.51	7,707.47	124.06	32.59	91.53	-6,803.33	3,038.18	4,521.78	4,371.08	150.70	30.006	
14,600.00	7,618.00	7,832.38	7,706.34	124.42	32.58	91.51	-6,803.34	3,038.17	4,437.99	4,286.84	151.15	29.362	
14,700.00	7,618.00	7,831.24	7,705.20	124.80	32.58	91.48	-6,803.35	3,038.15	4,354.88	4,203.27	151.61	28.725	
14,800.00	7,618.00	7,830.11	7,704.07	125.21	32.57	91.45	-6,803.36	3,038.14	4,272.49	4,120.41	152.08	28.093	
14,900.00	7,618.00	7,828.98	7,702.94	125.65	32.57	91.43	-6,803.38	3,038.13	4,190.87	4,038.30	152.57	27.468	
15,000.00	7,618.00	7,827.84	7,701.80	126.11	32.57	91.40	-6,803.39	3,038.12	4,110.06	3,956.99	153.07	26.850	
15,100.00	7,618.00	7,826.70	7,700.66	126.61	32.56	91.37	-6,803.40	3,038.11	4,030.12	3,876.53	153.59	26.239	
15,200.00	7,618.00	7,825.56	7,699.52	127.13	32.56	91.35	-6,803.41	3,038.10	3,951.08	3,796.96	154.12	25.636	
15,300.00	7,618.00	7,824.42	7,698.38	127.68	32.56	91.32	-6,803.43	3,038.09	3,873.02	3,718.35	154.67	25.041	
15,400.00	7,618.00	7,823.28	7,697.24	128.26	32.55	91.29	-6,803.44	3,038.08	3,795.98	3,640.76	155.22	24.455	
15,500.00	7,618.00	7,822.14	7,696.10	128.87	32.55	91.27	-6,803.45	3,038.07	3,720.04	3,564.24	155.80	23.878	
15,600.00	7,618.00	7,820.99	7,694.96	129.51	32.55	91.24	-6,803.47	3,038.06	3,645.25	3,488.88	156.38	23.311	
15,700.00	7,618.00	7,819.85	7,693.81	130.18	32.54	91.21	-6,803.48	3,038.05	3,571.70	3,414.73	156.97	22.754	
15,800.00	7,618.00	7,818.70	7,692.66	130.88	32.54	91.19	-6,803.49	3,038.03	3,499.47	3,341.89	157.58	22.208	
15,900.00	7,618.00	7,817.55	7,691.52	131.61	32.54	91.16	-6,803.50	3,038.02	3,428.62	3,270.44	158.19	21.675	
16,000.00	7,618.00	7,816.40	7,690.37	132.37	32.53	91.13	-6,803.52	3,038.01	3,359.26	3,200.46	158.81	21.153	
16,100.00	7,618.00	7,815.25	7,689.22	133.17	32.53	91.11	-6,803.53	3,038.00	3,291.48	3,132.05	159.43	20.646	
16,200.00	7,618.00	7,814.10	7,688.06	133.99	32.53	91.08	-6,803.54	3,037.99	3,225.37	3,065.32	160.05	20.152	
16,300.00	7,618.00	7,812.95	7,686.91	134.84	32.52	91.05	-6,803.55	3,037.98	3,161.05	3,000.37	160.68	19.673	
16,400.00	7,618.00	7,811.79	7,685.76	135.72	32.52	91.03	-6,803.57	3,037.97	3,098.61	2,937.32	161.29	19.211	
16,500.00	7,618.00	7,810.64	7,684.60	136.63	32.51	91.00	-6,803.58	3,037.96	3,038.19	2,876.28	161.90	18.765	
16,600.00	7,618.00	7,809.48	7,683.44	137.57	32.51	90.97	-6,803.59	3,037.95	2,979.89	2,817.39	162.50	18.338	
16,700.00	7,618.00	7,808.32	7,682.28	138.54	32.51	90.94	-6,803.60	3,037.94	2,923.85	2,760.77	163.08	17.929	
16,800.00	7,618.00	7,807.16	7,681.12	139.53	32.50	90.92	-6,803.62	3,037.93	2,870.21	2,706.57	163.64	17.540	
16,900.00	7,618.00	7,806.00	7,679.96	140.55	32.50	90.89	-6,803.63	3,037.92	2,819.09	2,654.93	164.16	17.173	
17,000.00	7,618.00	7,804.84	7,678.80	141.60	32.50	90.86	-6,803.64	3,037.91	2,770.64	2,605.99	164.65	16.827	
17,100.00	7,618.00	7,803.67	7,677.64	142.67	32.49	90.84	-6,803.66	3,037.89	2,724.99	2,559.90	165.10	16.505	
17,200.00	7,618.00	7,802.51	7,676.47	143.77	32.49	90.81	-6,803.67	3,037.88	2,682.30	2,516.81	165.49	16.208	
17,300.00	7,618.00	7,801.34	7,675.30	144.88	32.49	90.78	-6,803.68	3,037.87	2,642.71	2,476.88	165.83	15.936	
17,400.00	7,618.00	7,800.17	7,674.14	146.02	32.48	90.75	-6,803.70	3,037.86	2,606.35	2,440.25	166.10	15.691	
17,500.00	7,618.00	7,799.00	7,672.97	147.19	32.48	90.73	-6,803.71	3,037.85	2,573.37	2,407.06	166.30	15.474	
17,600.00	7,618.00	7,797.83	7,671.80	148.37	32.47	90.70	-6,803.72	3,037.84	2,543.89	2,377.46	166.42	15.286	
17,700.00	7,618.00	7,796.66	7,670.62	149.57	32.47	90.67	-6,803.73	3,037.83	2,518.04	2,351.58	166.46	15.127	
17,800.00	7,618.00	7,795.49	7,669.45	150.79	32.47	90.64	-6,803.75	3,037.82	2,495.93	2,329.53	166.40	15.000	
17,900.00	7,618.00	7,794.31	7,668.27	152.03	32.46	90.62	-6,803.76	3,037.81	2,477.66	2,311.41	166.25	14.904	
18,000.00	7,618.00	7,793.13	7,667.10	153.29	32.46	90.59	-6,803.77	3,037.80	2,463.32	2,297.33	165.99	14.840	
18,100.00	7,618.00	7,791.96	7,665.92	154.57	32.46	90.56	-6,803.79	3,037.79	2,452.97	2,287.34	165.64	14.809	SF
18,200.00	7,618.00	7,790.78	7,664.74	155.86	32.45	90.53	-6,803.80	3,037.78	2,446.67	2,281.49	165.18	14.812	
18,300.00	7,618.00	7,789.60	7,663.56	157.17	32.45	90.51	-6,803.81	3,037.77	2,444.45	2,279.83	164.63	14.848	ES
18,304.35	7,618.00	7,789.55	7,663.51	157.22	32.45	90.50	-6,803.81	3,037.77	2,444.45	2,279.85	164.60	14.851	CC
18,400.00	7,618.00	7,788.42	7,662.38	158.49	32.45	90.48	-6,803.83	3,037.76	2,446.32	2,282.34	163.97	14.919	
18,500.00	7,618.00	7,787.23	7,661.20	159.82	32.44	90.45	-6,803.84	3,037.75	2,452.26	2,289.03	163.23	15.023	
18,600.00	7,618.00	7,786.05	7,660.01	161.17	32.44	90.42	-6,803.85	3,037.74	2,462.26	2,299.86	162.40	15.161	
18,700.00	7,618.00	7,784.86	7,658.83	162.54	32.43	90.39	-6,803.87	3,037.73	2,476.26	2,314.76	161.50	15.333	
18,800.00	7,618.00	7,783.67	7,657.64	163.91	32.43	90.37	-6,803.88	3,037.72	2,494.19	2,333.66	160.53	15.537	
18,900.00	7,618.00	7,782.48	7,656.45	165.30	32.43	90.34	-6,803.89	3,037.71	2,515.96	2,356.46	159.50	15.774	
19,000.00	7,618.00	7,781.29	7,655.26	166.70	32.42	90.31	-6,803.91	3,037.70	2,541.49	2,383.07	158.43	16.042	
19,100.00	7,618.00	7,780.10	7,654.07	168.10	32.42	90.28	-6,803.92	3,037.69	2,570.66	2,413.35	157.31	16.341	
19,200.00	7,618.00	7,778.91	7,652.87	169.52	32.42	90.25	-6,803.93	3,037.68	2,603.35	2,447.17	156.18	16.669	
19,300.00	7,618.00	7,777.71	7,651.68	170.95	32.41	90.23	-6,803.95	3,037.66	2,639.42	2,484.39	155.02	17.026	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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

Survey Program: 134-MWD OWSG

Offset Site Error: 0.00 usft

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
19,400.00	7,618.00	7,776.52	7,650.48	172.39	32.41	90.20	-6,803.96	3,037.65	2,678.73	2,524.87	153.86	17.410	
19,500.00	7,618.00	7,775.32	7,649.29	173.84	32.40	90.17	-6,803.97	3,037.64	2,721.16	2,568.46	152.71	17.820	
19,600.00	7,618.00	7,774.12	7,648.09	175.30	32.40	90.14	-6,803.99	3,037.63	2,766.55	2,614.99	151.56	18.254	
19,700.00	7,618.00	7,772.92	7,646.89	176.76	32.40	90.11	-6,804.00	3,037.62	2,814.77	2,664.33	150.43	18.711	
19,800.00	7,618.00	7,771.72	7,645.69	178.24	32.39	90.09	-6,804.01	3,037.61	2,865.66	2,716.33	149.33	19.190	
19,896.19	7,618.00	7,770.56	7,644.53	179.66	32.39	90.06	-6,804.03	3,037.60	2,917.01	2,768.71	148.29	19.670	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	163.85	-7,146.88	2,069.82	7,440.61				
100.00	100.00	44.22	44.22	0.13	0.08	163.84	-7,146.99	2,070.31	7,441.24	7,441.03	0.20	N/A	
200.00	200.00	87.09	87.06	0.49	0.18	163.84	-7,147.28	2,071.70	7,442.73	7,442.08	0.65	N/A	
300.00	299.98	164.49	164.41	0.85	0.44	94.47	-7,148.04	2,074.58	7,444.85	7,443.56	1.29	5,780.151	
400.00	399.84	227.00	226.87	1.21	0.67	94.42	-7,148.85	2,076.91	7,447.59	7,445.72	1.87	3,975.773	
500.00	499.45	282.01	281.82	1.58	0.87	94.37	-7,149.86	2,079.06	7,451.16	7,448.71	2.44	3,047.767	
600.00	598.70	318.00	317.77	1.97	1.00	94.30	-7,150.74	2,080.56	7,455.72	7,452.76	2.97	2,513.990	
700.00	697.47	376.77	376.44	2.38	1.22	94.24	-7,152.44	2,083.57	7,461.22	7,457.62	3.60	2,075.333	
800.00	795.62	410.00	409.58	2.83	1.35	94.15	-7,153.51	2,085.71	7,467.73	7,463.57	4.16	1,794.718	
900.00	893.06	410.00	409.58	3.31	1.35	93.99	-7,153.51	2,085.71	7,475.66	7,471.02	4.64	1,611.074	
1,000.00	989.64	457.02	456.43	3.83	1.53	93.88	-7,155.63	2,089.07	7,484.46	7,479.13	5.33	1,403.235	
1,100.00	1,085.27	502.00	501.18	4.40	1.70	93.76	-7,158.68	2,092.51	7,494.98	7,488.92	6.06	1,235.966	
1,200.00	1,179.82	502.00	501.18	5.02	1.70	93.53	-7,158.68	2,092.51	7,506.40	7,499.72	6.67	1,124.574	
1,300.00	1,273.17	502.00	501.18	5.70	1.70	93.27	-7,158.68	2,092.51	7,519.34	7,512.01	7.34	1,024.835	
1,400.00	1,365.21	546.48	545.34	6.43	1.88	93.10	-7,162.48	2,096.27	7,533.30	7,525.08	8.22	915.992	
1,500.00	1,455.84	594.00	592.40	7.23	2.08	92.92	-7,167.20	2,100.85	7,548.65	7,539.47	9.18	822.225	
1,600.00	1,544.94	594.00	592.40	8.09	2.08	92.59	-7,167.20	2,100.85	7,564.92	7,554.91	10.01	755.490	
1,700.00	1,632.39	628.64	626.62	9.01	2.22	92.35	-7,170.97	2,104.65	7,582.41	7,571.36	11.05	686.377	
1,800.00	1,718.11	686.00	683.12	10.00	2.47	92.17	-7,177.57	2,112.02	7,601.06	7,588.82	12.24	621.165	
1,900.00	1,801.97	697.51	694.43	11.07	2.53	91.81	-7,178.94	2,113.65	7,620.49	7,607.18	13.31	572.716	
2,000.00	1,883.88	762.37	758.06	12.20	2.83	91.63	-7,186.58	2,123.69	7,640.80	7,626.13	14.67	520.788	
2,100.00	1,963.74	778.00	773.35	13.41	2.90	91.26	-7,188.39	2,126.31	7,661.95	7,646.06	15.89	482.246	
2,200.00	2,041.45	826.18	820.43	14.69	3.13	90.99	-7,194.25	2,134.71	7,683.92	7,666.60	17.32	443.580	
2,300.00	2,116.92	855.00	848.53	16.05	3.27	90.64	-7,198.02	2,139.91	7,706.99	7,688.26	18.73	411.426	
2,357.48	2,159.25	855.00	848.53	16.86	3.27	90.36	-7,198.02	2,139.91	7,720.73	7,701.24	19.49	396.080	
2,400.00	2,190.27	883.68	876.44	17.47	3.42	90.48	-7,201.94	2,145.21	7,731.02	7,710.82	20.20	382.654	
2,500.00	2,263.22	915.01	906.88	18.92	3.58	90.62	-7,206.38	2,151.13	7,755.95	7,734.25	21.70	357.350	
2,600.00	2,336.18	942.00	933.07	20.37	3.72	90.74	-7,210.33	2,156.34	7,781.77	7,758.59	23.18	335.648	
2,700.00	2,409.14	971.35	961.49	21.84	3.88	90.86	-7,214.82	2,162.09	7,808.50	7,783.82	24.68	316.389	
2,800.00	2,482.09	997.01	986.31	23.31	4.02	90.97	-7,218.91	2,167.17	7,836.15	7,809.99	26.15	299.616	
2,900.00	2,555.05	1,036.00	1,023.95	24.78	4.23	91.14	-7,225.46	2,174.97	7,864.75	7,837.05	27.70	283.935	
3,000.00	2,628.01	1,056.42	1,043.64	26.27	4.34	91.23	-7,229.01	2,179.09	7,894.17	7,865.03	29.14	270.907	
3,100.00	2,700.96	1,099.44	1,085.07	27.75	4.58	91.41	-7,236.63	2,187.75	7,924.37	7,893.67	30.70	258.126	
3,200.00	2,773.92	1,226.15	1,207.32	29.24	5.30	91.95	-7,258.84	2,212.62	7,954.61	7,921.88	32.73	243.062	
3,300.00	2,846.88	1,254.58	1,234.71	30.73	5.46	92.07	-7,263.86	2,218.33	7,985.49	7,951.28	34.20	233.470	
3,400.00	2,919.83	1,289.00	1,267.78	32.23	5.66	92.22	-7,270.14	2,225.51	8,017.22	7,981.51	35.71	224.520	
3,500.00	2,992.79	1,328.93	1,306.07	33.72	5.89	92.38	-7,277.60	2,234.04	8,049.71	8,012.46	37.24	216.133	
3,600.00	3,065.75	1,376.00	1,351.16	35.22	6.17	92.57	-7,286.53	2,244.20	8,082.82	8,044.00	38.82	208.223	
3,700.00	3,138.71	1,434.10	1,406.74	36.72	6.53	92.81	-7,297.71	2,256.90	8,116.52	8,076.06	40.46	200.611	
3,800.00	3,211.66	1,463.00	1,434.36	38.22	6.70	92.93	-7,303.33	2,263.29	8,150.83	8,108.92	41.91	194.482	
3,900.00	3,284.62	1,505.70	1,475.10	39.72	6.97	93.10	-7,311.85	2,272.83	8,185.84	8,142.40	43.45	188.417	
4,000.00	3,357.58	1,550.00	1,517.26	41.22	7.25	93.28	-7,321.07	2,282.81	8,221.71	8,176.73	44.98	182.769	
4,100.00	3,430.53	1,570.51	1,536.75	42.73	7.38	93.36	-7,325.45	2,287.48	8,258.27	8,211.91	46.36	178.137	
4,200.00	3,503.49	1,614.80	1,578.76	44.23	7.67	93.53	-7,335.02	2,297.71	8,295.52	8,247.63	47.89	173.231	
4,300.00	3,576.45	1,638.00	1,600.74	45.74	7.82	93.62	-7,340.10	2,303.15	8,333.42	8,284.16	49.26	169.170	
4,400.00	3,649.40	1,678.34	1,638.87	47.25	8.08	93.78	-7,349.13	2,312.73	8,372.01	8,321.26	50.75	164.966	
4,500.00	3,722.36	1,725.00	1,682.82	48.75	8.40	93.96	-7,360.02	2,323.98	8,411.45	8,359.17	52.28	160.900	
4,600.00	3,795.32	2,190.02	2,124.22	50.26	11.44	95.73	-7,457.97	2,432.37	8,449.59	8,392.78	56.81	148.744	
4,700.00	3,868.27	2,249.00	2,180.65	51.77	11.81	95.96	-7,469.17	2,445.36	8,486.04	8,427.61	58.43	145.231	
4,800.00	3,941.23	2,290.25	2,220.04	53.28	12.07	96.11	-7,477.12	2,454.66	8,523.04	8,463.11	59.93	142.212	
4,900.00	4,014.19	2,336.00	2,263.60	54.79	12.36	96.28	-7,486.14	2,465.35	8,560.69	8,499.23	61.46	139.295	
5,000.00	4,087.15	2,373.13	2,298.90	56.30	12.61	96.42	-7,493.63	2,474.09	8,598.94	8,536.03	62.91	136.678	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,160.10	2,624.77	2,539.68	57.81	14.18	97.36	-7,542.25	2,528.63	8,636.52	8,570.62	65.90	131.062	
5,200.00	4,233.06	2,658.72	2,572.25	59.32	14.39	97.49	-7,548.62	2,535.80	8,674.10	8,606.78	67.32	128.849	
5,300.00	4,306.02	2,697.27	2,609.15	60.83	14.63	97.63	-7,556.04	2,544.13	8,712.36	8,643.59	68.77	126.690	
5,400.00	4,378.97	5,400.00	2,709.58	62.34	32.21	98.01	-7,576.52	2,568.42	8,751.14	8,665.82	85.33	102.562	
5,500.00	4,451.93	2,966.56	2,865.81	63.85	16.37	98.58	-7,606.76	2,607.88	8,789.20	8,716.07	73.13	120.189	
5,600.00	4,524.89	3,004.90	2,902.39	65.36	16.61	98.71	-7,613.81	2,616.93	8,827.55	8,752.97	74.58	118.370	
5,700.00	4,597.84	3,035.00	2,931.12	66.88	16.81	98.82	-7,619.47	2,623.88	8,866.52	8,790.57	75.95	116.740	
5,800.00	4,670.80	3,073.50	2,967.85	68.39	17.06	98.95	-7,626.90	2,632.74	8,906.13	8,828.75	77.38	115.096	
5,900.00	4,743.76	3,122.00	3,014.01	69.90	17.37	99.12	-7,636.61	2,644.02	8,946.45	8,867.57	78.88	113.420	
6,000.00	4,816.71	3,122.00	3,014.01	71.41	17.37	99.12	-7,636.61	2,644.02	8,987.37	8,907.38	79.98	112.365	
6,100.00	4,889.67	3,165.24	3,055.07	72.93	17.66	99.27	-7,645.61	2,654.13	9,028.93	8,947.50	81.42	110.887	
6,200.00	4,962.63	3,209.00	3,096.56	74.44	17.95	99.42	-7,655.08	2,664.34	9,071.21	8,988.35	82.86	109.475	
6,300.00	5,035.59	3,209.00	3,096.56	75.95	17.95	99.42	-7,655.08	2,664.34	9,114.11	9,030.18	83.93	108.598	
6,400.00	5,108.54	3,241.75	3,127.54	77.47	18.17	99.53	-7,662.44	2,672.01	9,157.68	9,072.43	85.25	107.420	
6,500.00	5,181.50	3,263.53	3,148.08	78.98	18.32	99.60	-7,667.50	2,677.15	9,201.98	9,115.51	86.47	106.414	
6,600.00	5,254.46	3,629.31	3,492.74	80.49	20.87	100.79	-7,748.91	2,768.57	9,246.29	9,155.58	90.70	101.941	
6,700.00	5,327.41	3,670.24	3,531.36	82.01	21.15	100.92	-7,757.37	2,779.13	9,288.88	9,196.77	92.11	100.845	
6,800.00	5,400.37	3,699.72	3,559.17	83.52	21.36	101.01	-7,763.62	2,786.65	9,332.09	9,238.68	93.41	99.905	
6,900.00	5,473.33	3,733.00	3,590.55	85.04	21.59	101.12	-7,770.87	2,795.04	9,375.91	9,281.18	94.73	98.974	
7,000.00	5,546.28	3,763.70	3,619.48	86.55	21.80	101.21	-7,777.71	2,802.70	9,420.32	9,324.31	96.02	98.110	
7,100.00	5,619.24	3,799.13	3,652.86	88.06	22.05	101.33	-7,785.74	2,811.46	9,465.29	9,367.95	97.34	97.242	
7,200.00	5,692.20	3,842.84	3,694.01	89.58	22.35	101.46	-7,795.85	2,822.19	9,510.79	9,412.06	98.72	96.338	
7,300.00	5,765.15	3,898.86	3,746.70	91.09	22.75	101.64	-7,808.95	2,836.02	9,556.68	9,456.47	100.22	95.362	
7,400.00	5,838.11	3,944.02	3,789.17	92.61	23.06	101.78	-7,819.62	2,847.04	9,602.98	9,501.38	101.60	94.522	
7,500.00	5,911.07	6,170.01	5,960.71	94.12	33.26	109.68	-8,090.70	3,122.73	9,647.97	9,532.16	115.81	83.306	
7,600.00	5,984.03	6,266.50	6,057.20	95.64	33.45	110.07	-8,090.23	3,121.76	9,677.86	9,560.63	117.23	82.554	
7,700.00	6,056.98	6,362.63	6,153.32	97.15	33.63	110.46	-8,089.52	3,120.71	9,707.96	9,589.33	118.64	81.829	
7,800.00	6,129.94	6,452.86	6,243.54	98.67	33.81	110.82	-8,088.65	3,119.67	9,738.31	9,618.29	120.02	81.137	
7,900.00	6,202.90	6,545.82	6,336.48	100.18	34.00	111.20	-8,087.57	3,118.53	9,768.92	9,647.51	121.40	80.467	
8,000.00	6,275.85	6,648.55	6,439.19	101.70	34.20	111.60	-8,086.12	3,117.40	9,799.71	9,676.91	122.80	79.802	
8,100.00	6,348.81	6,734.75	6,525.38	103.21	34.38	111.94	-8,084.69	3,116.63	9,830.70	9,706.55	124.15	79.182	
8,200.00	6,421.77	6,803.56	6,594.18	104.73	34.52	112.22	-8,083.57	3,116.15	9,862.07	9,736.61	125.46	78.608	
8,300.00	6,494.72	6,872.59	6,663.21	106.24	34.67	112.48	-8,082.49	3,115.82	9,893.83	9,767.08	126.75	78.055	
8,400.00	6,567.68	6,933.27	6,723.88	107.76	34.80	112.72	-8,081.61	3,115.70	9,926.03	9,798.00	128.03	77.530	
8,500.00	6,640.64	6,993.84	6,784.44	109.27	34.94	112.95	-8,080.85	3,115.81	9,958.68	9,829.38	129.29	77.023	
8,600.00	6,713.59	7,050.00	6,840.60	110.79	35.07	113.17	-8,080.25	3,116.12	9,991.78	9,861.24	130.54	76.543	
9,850.00	7,561.77	7,793.35	7,583.39	125.20	37.18	60.92	-8,083.47	3,141.07	9,986.19	9,840.60	145.59	68.592	
9,900.00	7,578.90	7,812.23	7,602.24	125.23	37.24	61.68	-8,083.75	3,142.20	9,946.34	9,800.43	145.91	68.168	
9,950.00	7,593.04	7,827.91	7,617.88	125.22	37.29	63.37	-8,083.97	3,143.13	9,904.18	9,757.99	146.18	67.752	
10,000.00	7,604.09	7,840.28	7,630.23	125.17	37.33	66.32	-8,084.14	3,143.84	9,860.00	9,713.59	146.41	67.346	
10,050.00	7,611.97	7,849.27	7,639.21	125.08	37.36	71.11	-8,084.27	3,144.35	9,814.14	9,667.55	146.59	66.951	
10,100.00	7,616.61	7,854.84	7,644.77	124.97	37.38	78.82	-8,084.34	3,144.67	9,766.93	9,620.21	146.72	66.566	
10,145.95	7,618.00	7,856.92	7,646.84	124.84	37.38	90.12	-8,084.37	3,144.79	9,722.65	9,575.84	146.82	66.223	
10,200.00	7,618.00	7,857.64	7,647.57	124.69	37.39	90.14	-8,084.38	3,144.83	9,670.19	9,523.29	146.91	65.826	
10,300.00	7,618.00	7,858.98	7,648.90	124.41	37.39	90.17	-8,084.40	3,144.90	9,573.17	9,426.10	147.07	65.091	
10,400.00	7,618.00	7,860.31	7,650.23	124.14	37.40	90.20	-8,084.42	3,144.97	9,476.22	9,328.98	147.24	64.357	
10,500.00	7,618.00	7,861.64	7,651.55	123.88	37.40	90.23	-8,084.44	3,145.05	9,379.33	9,231.91	147.42	63.623	
10,600.00	7,618.00	7,862.96	7,652.87	123.63	37.40	90.27	-8,084.45	3,145.12	9,282.51	9,134.91	147.60	62.890	
10,700.00	7,618.00	7,864.27	7,654.18	123.40	37.41	90.30	-8,084.47	3,145.19	9,185.75	9,037.97	147.78	62.157	
10,800.00	7,618.00	7,865.58	7,655.49	123.18	37.41	90.33	-8,084.49	3,145.27	9,089.06	8,941.09	147.97	61.424	
10,900.00	7,618.00	7,866.88	7,656.79	122.96	37.42	90.36	-8,084.51	3,145.34	8,992.45	8,844.28	148.17	60.692	
11,000.00	7,618.00	7,868.18	7,658.09	122.76	37.42	90.40	-8,084.52	3,145.41	8,895.91	8,747.55	148.36	59.960	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
11,100.00	7,618.00	7,869.48	7,659.38	122.57	37.42	90.43	-8,084.54	3,145.48	8,799.45	8,650.88	148.57	59.229	
11,200.00	7,618.00	7,870.77	7,660.67	122.39	37.43	90.46	-8,084.56	3,145.55	8,703.06	8,554.29	148.77	58.499	
11,300.00	7,618.00	7,872.05	7,661.95	122.23	37.43	90.49	-8,084.57	3,145.62	8,606.76	8,457.78	148.99	57.769	
11,400.00	7,618.00	7,873.33	7,663.23	122.07	37.44	90.52	-8,084.59	3,145.69	8,510.55	8,361.34	149.21	57.039	
11,500.00	7,618.00	7,874.61	7,664.50	121.93	37.44	90.55	-8,084.61	3,145.76	8,414.42	8,264.99	149.43	56.311	
11,600.00	7,618.00	7,875.88	7,665.77	121.79	37.45	90.58	-8,084.63	3,145.83	8,318.38	8,168.73	149.66	55.583	
11,700.00	7,618.00	7,877.14	7,667.03	121.67	37.45	90.62	-8,084.64	3,145.90	8,222.44	8,072.55	149.89	54.855	
11,800.00	7,618.00	7,878.40	7,668.29	121.56	37.45	90.65	-8,084.66	3,145.97	8,126.60	7,976.46	150.13	54.129	
11,900.00	7,618.00	7,879.65	7,669.54	121.46	37.46	90.68	-8,084.68	3,146.04	8,030.85	7,880.47	150.38	53.403	
12,000.00	7,618.00	7,880.91	7,670.79	121.38	37.46	90.71	-8,084.69	3,146.11	7,935.22	7,784.58	150.64	52.678	
12,100.00	7,618.00	7,882.15	7,672.03	121.30	37.47	90.74	-8,084.71	3,146.17	7,839.69	7,688.79	150.90	51.954	
12,200.00	7,618.00	7,883.39	7,673.27	121.24	37.47	90.77	-8,084.72	3,146.24	7,744.27	7,593.10	151.17	51.230	
12,300.00	7,618.00	7,884.63	7,674.51	121.19	37.47	90.80	-8,084.74	3,146.31	7,648.97	7,497.53	151.44	50.508	
12,400.00	7,618.00	7,885.86	7,675.74	121.16	37.48	90.83	-8,084.76	3,146.37	7,553.79	7,402.07	151.72	49.787	
12,500.00	7,618.00	7,887.09	7,676.96	121.14	37.48	90.86	-8,084.77	3,146.44	7,458.74	7,306.72	152.01	49.067	
12,600.00	7,618.00	7,888.31	7,678.18	121.13	37.48	90.89	-8,084.79	3,146.51	7,363.82	7,211.50	152.31	48.347	
12,700.00	7,618.00	7,889.52	7,679.40	121.13	37.49	90.92	-8,084.80	3,146.57	7,269.03	7,116.41	152.62	47.629	
12,800.00	7,618.00	7,890.74	7,680.61	121.15	37.49	90.95	-8,084.82	3,146.64	7,174.38	7,021.45	152.93	46.912	
12,900.00	7,618.00	7,891.95	7,681.81	121.18	37.50	90.98	-8,084.83	3,146.70	7,079.89	6,926.63	153.26	46.197	
13,000.00	7,618.00	7,893.15	7,683.02	121.23	37.50	91.01	-8,084.85	3,146.76	6,985.54	6,831.95	153.59	45.482	
13,100.00	7,618.00	7,894.35	7,684.21	121.29	37.50	91.04	-8,084.87	3,146.83	6,891.36	6,737.43	153.93	44.769	
13,200.00	7,618.00	7,895.54	7,685.41	121.37	37.51	91.07	-8,084.88	3,146.89	6,797.34	6,643.05	154.28	44.058	
13,300.00	7,618.00	7,896.73	7,686.60	121.46	37.51	91.10	-8,084.90	3,146.95	6,703.49	6,548.85	154.64	43.348	
13,400.00	7,618.00	7,897.92	7,687.78	121.57	37.52	91.13	-8,084.91	3,147.02	6,609.82	6,454.81	155.02	42.639	
13,500.00	7,618.00	7,899.10	7,688.96	121.70	37.52	91.15	-8,084.93	3,147.08	6,516.34	6,360.94	155.40	41.932	
13,600.00	7,618.00	7,900.28	7,690.13	121.84	37.52	91.18	-8,084.94	3,147.14	6,423.06	6,267.27	155.80	41.227	
13,700.00	7,618.00	7,901.45	7,691.31	122.01	37.53	91.21	-8,084.96	3,147.20	6,329.98	6,173.78	156.20	40.524	
13,800.00	7,618.00	7,902.62	7,692.47	122.19	37.53	91.24	-8,084.97	3,147.26	6,237.12	6,080.50	156.62	39.823	
13,900.00	7,618.00	7,903.78	7,693.63	122.39	37.53	91.27	-8,084.98	3,147.33	6,144.48	5,987.43	157.05	39.123	
14,000.00	7,618.00	7,904.94	7,694.79	122.62	37.54	91.30	-8,085.00	3,147.39	6,052.08	5,894.58	157.50	38.426	
14,100.00	7,618.00	7,906.10	7,695.95	122.86	37.54	91.33	-8,085.01	3,147.45	5,959.92	5,801.96	157.96	37.731	
14,200.00	7,618.00	7,907.25	7,697.10	123.12	37.55	91.35	-8,085.03	3,147.51	5,868.01	5,709.58	158.43	37.038	
14,300.00	7,618.00	7,908.40	7,698.24	123.41	37.55	91.38	-8,085.04	3,147.57	5,776.38	5,617.46	158.92	36.348	
14,400.00	7,618.00	7,909.54	7,699.38	123.72	37.55	91.41	-8,085.06	3,147.63	5,685.02	5,525.60	159.42	35.660	
14,500.00	7,618.00	7,910.68	7,700.52	124.06	37.56	91.44	-8,085.07	3,147.68	5,593.96	5,434.02	159.94	34.975	
14,600.00	7,618.00	7,911.81	7,701.65	124.42	37.56	91.47	-8,085.09	3,147.74	5,503.22	5,342.74	160.47	34.293	
14,700.00	7,618.00	7,912.94	7,702.78	124.80	37.56	91.49	-8,085.10	3,147.80	5,412.79	5,251.77	161.03	33.614	
14,800.00	7,618.00	7,914.07	7,703.91	125.21	37.57	91.52	-8,085.11	3,147.86	5,322.71	5,161.12	161.60	32.938	
14,900.00	7,618.00	7,915.19	7,705.03	125.65	37.57	91.55	-8,085.13	3,147.92	5,232.99	5,070.81	162.18	32.266	
15,000.00	7,618.00	7,916.31	7,706.14	126.11	37.57	91.58	-8,085.14	3,147.98	5,143.65	4,980.86	162.79	31.597	
15,100.00	7,618.00	7,917.42	7,707.26	126.61	37.58	91.60	-8,085.15	3,148.03	5,054.71	4,891.29	163.42	30.931	
15,200.00	7,618.00	7,918.53	7,708.36	127.13	37.58	91.63	-8,085.17	3,148.09	4,966.19	4,802.13	164.06	30.270	
15,300.00	7,618.00	7,919.64	7,709.47	127.68	37.58	91.66	-8,085.18	3,148.15	4,878.11	4,713.38	164.73	29.613	
15,400.00	7,618.00	7,920.74	7,710.57	128.26	37.59	91.69	-8,085.20	3,148.20	4,790.50	4,625.08	165.42	28.960	
15,500.00	7,618.00	7,921.84	7,711.67	128.87	37.59	91.71	-8,085.21	3,148.26	4,703.39	4,537.26	166.13	28.311	
15,600.00	7,618.00	7,922.93	7,712.76	129.51	37.60	91.74	-8,085.22	3,148.31	4,616.79	4,449.93	166.86	27.668	
15,700.00	7,618.00	7,924.02	7,713.85	130.18	37.60	91.77	-8,085.24	3,148.37	4,530.75	4,363.13	167.62	27.030	
15,800.00	7,618.00	7,925.11	7,714.93	130.88	37.60	91.79	-8,085.25	3,148.42	4,445.29	4,276.89	168.40	26.397	
15,900.00	7,618.00	7,926.19	7,716.01	131.61	37.61	91.82	-8,085.26	3,148.48	4,360.45	4,191.25	169.21	25.770	
16,000.00	7,618.00	7,927.27	7,717.09	132.37	37.61	91.85	-8,085.28	3,148.53	4,276.26	4,106.23	170.03	25.149	
16,100.00	7,618.00	7,928.35	7,718.16	133.17	37.61	91.87	-8,085.29	3,148.59	4,192.77	4,021.88	170.89	24.535	
16,200.00	7,618.00	7,929.42	7,719.23	133.99	37.62	91.90	-8,085.30	3,148.64	4,110.02	3,938.25	171.77	23.928	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
16,300.00	7,618.00	7,929.50	7,719.32	134.84	37.62	91.90	-8,085.30	3,148.65	4,028.05	3,855.38	172.67	23.328	
16,400.00	7,618.00	7,930.47	7,720.28	135.72	37.62	91.92	-8,085.32	3,148.70	3,946.91	3,773.31	173.60	22.736	
16,500.00	7,618.00	7,931.44	7,721.25	136.63	37.62	91.95	-8,085.33	3,148.75	3,866.65	3,692.10	174.55	22.152	
16,600.00	7,618.00	7,932.42	7,722.23	137.57	37.62	91.97	-8,085.34	3,148.79	3,787.33	3,611.80	175.53	21.576	
16,700.00	7,618.00	7,933.41	7,723.22	138.54	37.63	92.00	-8,085.35	3,148.84	3,709.02	3,532.48	176.54	21.010	
16,800.00	7,618.00	7,934.41	7,724.22	139.53	37.63	92.02	-8,085.37	3,148.89	3,631.76	3,454.19	177.57	20.453	
16,900.00	7,618.00	7,935.42	7,725.23	140.55	37.63	92.05	-8,085.38	3,148.95	3,555.64	3,377.02	178.62	19.906	
17,000.00	7,618.00	7,936.43	7,726.24	141.60	37.64	92.07	-8,085.39	3,149.00	3,480.73	3,301.04	179.69	19.371	
17,100.00	7,618.00	7,937.46	7,727.26	142.67	37.64	92.10	-8,085.41	3,149.05	3,407.11	3,226.33	180.78	18.847	
17,200.00	7,618.00	7,938.49	7,728.29	143.77	37.64	92.12	-8,085.42	3,149.10	3,334.85	3,152.97	181.88	18.335	
17,300.00	7,618.00	7,939.53	7,729.33	144.88	37.65	92.15	-8,085.43	3,149.15	3,264.07	3,081.07	183.00	17.837	
17,400.00	7,618.00	7,940.58	7,730.38	146.02	37.65	92.17	-8,085.45	3,149.20	3,194.84	3,010.72	184.12	17.352	
17,500.00	7,618.00	7,941.63	7,731.43	147.19	37.65	92.20	-8,085.46	3,149.26	3,127.28	2,942.04	185.25	16.882	
17,600.00	7,618.00	7,942.70	7,732.50	148.37	37.66	92.23	-8,085.47	3,149.31	3,061.50	2,875.13	186.37	16.427	
17,700.00	7,618.00	7,943.78	7,733.57	149.57	37.66	92.25	-8,085.49	3,149.36	2,997.61	2,810.13	187.48	15.989	
17,800.00	7,618.00	7,944.86	7,734.66	150.79	37.66	92.28	-8,085.50	3,149.42	2,935.73	2,747.15	188.58	15.568	
17,900.00	7,618.00	7,945.95	7,735.75	152.03	37.67	92.31	-8,085.52	3,149.47	2,876.00	2,686.36	189.65	15.165	
18,000.00	7,618.00	7,947.06	7,736.85	153.29	37.67	92.33	-8,085.53	3,149.53	2,818.56	2,627.88	190.68	14.782	
18,100.00	7,618.00	7,948.17	7,737.96	154.57	37.67	92.36	-8,085.55	3,149.58	2,763.53	2,571.87	191.67	14.418	
18,200.00	7,618.00	7,949.29	7,739.08	155.86	37.68	92.39	-8,085.56	3,149.64	2,711.08	2,518.49	192.59	14.077	
18,300.00	7,618.00	7,950.42	7,740.21	157.17	37.68	92.42	-8,085.58	3,149.69	2,661.36	2,467.92	193.44	13.758	
18,400.00	7,618.00	7,951.57	7,741.35	158.49	37.68	92.44	-8,085.59	3,149.75	2,614.51	2,420.31	194.21	13.462	
18,500.00	7,618.00	7,952.72	7,742.50	159.82	37.69	92.47	-8,085.61	3,149.81	2,570.71	2,375.84	194.87	13.192	
18,600.00	7,618.00	7,953.88	7,743.66	161.17	37.69	92.50	-8,085.62	3,149.86	2,530.10	2,334.68	195.42	12.947	
18,700.00	7,618.00	7,955.05	7,744.83	162.54	37.70	92.53	-8,085.64	3,149.92	2,492.84	2,297.00	195.83	12.729	
18,800.00	7,618.00	7,956.24	7,746.02	163.91	37.70	92.56	-8,085.66	3,149.98	2,459.08	2,262.98	196.10	12.540	
18,900.00	7,618.00	7,957.43	7,747.21	165.30	37.70	92.59	-8,085.67	3,150.04	2,428.97	2,232.77	196.20	12.380	
19,000.00	7,618.00	7,958.63	7,748.41	166.70	37.71	92.62	-8,085.69	3,150.10	2,402.65	2,206.52	196.13	12.250	
19,100.00	7,618.00	7,959.85	7,749.62	168.10	37.71	92.65	-8,085.71	3,150.16	2,380.25	2,184.37	195.88	12.152	
19,200.00	7,618.00	7,961.07	7,750.85	169.52	37.71	92.68	-8,085.73	3,150.22	2,361.86	2,166.43	195.43	12.085	
19,300.00	7,618.00	7,962.31	7,752.08	170.95	37.72	92.71	-8,085.74	3,150.28	2,347.60	2,152.81	194.79	12.052	SF
19,400.00	7,618.00	7,963.56	7,753.33	172.39	37.72	92.74	-8,085.76	3,150.34	2,337.53	2,143.58	193.95	12.052	
19,500.00	7,618.00	7,964.82	7,754.59	173.84	37.73	92.77	-8,085.78	3,150.40	2,331.71	2,138.79	192.91	12.087	
19,585.94	7,618.00	7,965.91	7,755.68	175.09	37.73	92.80	-8,085.79	3,150.45	2,330.12	2,138.25	191.87	12.144	CC, ES
19,600.00	7,618.00	7,966.09	7,755.86	175.30	37.73	92.80	-8,085.80	3,150.46	2,330.17	2,138.48	191.69	12.156	
19,700.00	7,618.00	7,967.37	7,757.14	176.76	37.73	92.83	-8,085.82	3,150.53	2,332.91	2,142.63	190.28	12.260	
19,800.00	7,618.00	7,968.67	7,758.43	178.24	37.74	92.86	-8,085.83	3,150.59	2,339.93	2,151.22	188.71	12.400	
19,896.19	7,618.00	7,969.92	7,759.69	179.66	37.74	92.90	-8,085.85	3,150.65	2,350.68	2,163.63	187.05	12.567	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	12.36	12.36	0.00	0.02	163.94	-7,163.65	2,061.98	7,454.51				
100.00	100.00	65.65	65.65	0.13	0.14	163.94	-7,163.83	2,062.27	7,454.99	7,454.72	0.27	N/A	
200.00	200.00	135.00	134.99	0.49	0.39	163.93	-7,164.34	2,063.40	7,456.09	7,455.21	0.88	8,495.807	
300.00	299.98	181.09	181.06	0.85	0.55	94.58	-7,164.83	2,064.57	7,457.86	7,456.46	1.40	5,331.303	
400.00	399.84	227.00	226.94	1.21	0.72	94.54	-7,165.43	2,065.99	7,460.48	7,458.56	1.92	3,878.757	
500.00	499.45	266.89	266.79	1.58	0.87	94.48	-7,166.14	2,067.66	7,464.16	7,461.72	2.44	3,057.626	
600.00	598.70	318.00	317.79	1.97	1.05	94.41	-7,167.47	2,070.73	7,469.10	7,466.08	3.02	2,475.476	
700.00	697.47	318.00	317.79	2.38	1.05	94.29	-7,167.47	2,070.73	7,475.10	7,471.67	3.43	2,178.039	
800.00	795.62	351.79	351.47	2.83	1.18	94.18	-7,168.71	2,073.25	7,482.38	7,478.38	4.00	1,869.772	
900.00	893.06	375.72	375.29	3.31	1.27	94.04	-7,169.84	2,075.21	7,490.95	7,486.38	4.57	1,639.415	
1,000.00	989.64	410.00	409.37	3.83	1.41	93.89	-7,171.81	2,078.27	7,500.81	7,495.60	5.21	1,438.423	
1,100.00	1,085.27	410.00	409.37	4.40	1.41	93.67	-7,171.81	2,078.27	7,511.90	7,506.12	5.78	1,300.376	
1,200.00	1,179.82	453.60	452.68	5.02	1.58	93.51	-7,174.91	2,082.30	7,524.09	7,517.54	6.55	1,148.322	
1,300.00	1,273.17	502.00	500.69	5.70	1.77	93.35	-7,179.13	2,086.67	7,537.60	7,530.21	7.40	1,018.939	
1,400.00	1,365.21	502.00	500.69	6.43	1.77	93.06	-7,179.13	2,086.67	7,552.09	7,543.97	8.11	930.863	
1,500.00	1,455.84	535.41	533.80	7.23	1.91	92.83	-7,182.52	2,089.59	7,567.79	7,558.78	9.01	839.546	
1,600.00	1,544.94	561.92	560.05	8.09	2.02	92.57	-7,185.48	2,091.86	7,584.65	7,574.70	9.95	762.431	
1,700.00	1,632.39	594.00	591.78	9.01	2.16	92.32	-7,189.38	2,094.52	7,602.63	7,591.67	10.96	693.387	
1,800.00	1,718.11	619.41	616.89	10.00	2.26	92.02	-7,192.69	2,096.54	7,621.69	7,609.67	12.02	634.198	
1,900.00	1,801.97	651.98	649.06	11.07	2.40	91.74	-7,197.19	2,098.92	7,641.77	7,628.60	13.16	580.562	
2,000.00	1,883.88	686.00	682.64	12.20	2.55	91.46	-7,202.17	2,101.16	7,662.86	7,648.48	14.38	532.976	
2,100.00	1,963.74	686.00	682.64	13.41	2.55	91.00	-7,202.17	2,101.16	7,685.08	7,669.56	15.52	495.139	
2,200.00	2,041.45	686.00	682.64	14.69	2.55	90.52	-7,202.17	2,101.16	7,708.60	7,691.88	16.73	460.858	
2,300.00	2,116.92	734.36	730.27	16.05	2.76	90.25	-7,210.06	2,103.98	7,732.67	7,714.48	18.19	425.093	
2,357.48	2,159.25	743.22	738.97	16.86	2.80	90.00	-7,211.64	2,104.46	7,747.18	7,728.20	18.98	408.122	
2,400.00	2,190.27	778.00	773.08	17.47	2.95	90.18	-7,218.19	2,106.22	7,758.38	7,738.69	19.69	393.972	
2,500.00	2,263.22	778.00	773.08	18.92	2.95	90.18	-7,218.19	2,106.22	7,784.72	7,763.69	21.03	370.173	
2,600.00	2,336.18	778.00	773.08	20.37	2.95	90.18	-7,218.19	2,106.22	7,812.26	7,789.89	22.37	349.302	
2,700.00	2,409.14	778.00	773.08	21.84	2.95	90.18	-7,218.19	2,106.22	7,840.97	7,817.27	23.70	330.896	
2,800.00	2,482.09	808.39	802.80	23.31	3.09	90.34	-7,224.41	2,107.60	7,870.56	7,845.41	25.15	312.902	
2,900.00	2,555.05	822.55	816.61	24.78	3.16	90.41	-7,227.47	2,108.20	7,901.27	7,874.73	26.53	297.775	
3,000.00	2,628.01	855.00	848.18	26.27	3.31	90.58	-7,234.86	2,109.46	7,933.09	7,905.11	27.99	283.430	
3,100.00	2,700.96	855.00	848.18	27.75	3.31	90.58	-7,234.86	2,109.46	7,965.73	7,936.44	29.29	271.951	
3,200.00	2,773.92	855.00	848.18	29.24	3.31	90.58	-7,234.86	2,109.46	7,999.48	7,968.90	30.58	261.581	
3,300.00	2,846.88	886.63	878.86	30.73	3.47	90.75	-7,242.46	2,110.67	8,034.12	8,002.11	32.01	250.981	
3,400.00	2,919.83	905.57	897.19	32.23	3.56	90.85	-7,247.16	2,111.44	8,069.72	8,036.35	33.37	241.824	
3,500.00	2,992.79	942.00	932.37	33.72	3.75	91.04	-7,256.49	2,113.03	8,106.31	8,071.51	34.80	232.913	
3,600.00	3,065.75	942.00	932.37	35.22	3.75	91.04	-7,256.49	2,113.03	8,143.68	8,107.63	36.05	225.906	
3,700.00	3,138.71	967.78	957.20	36.72	3.88	91.18	-7,263.30	2,114.27	8,181.98	8,144.56	37.42	218.656	
3,800.00	3,211.66	992.00	980.49	38.22	4.01	91.31	-7,269.81	2,115.55	8,221.13	8,182.36	38.76	212.084	
3,900.00	3,284.62	1,031.00	1,017.92	39.72	4.22	91.51	-7,280.54	2,117.82	8,261.14	8,220.96	40.17	205.639	
4,000.00	3,357.58	1,031.00	1,017.92	41.22	4.22	91.51	-7,280.54	2,117.82	8,301.90	8,260.54	41.37	200.688	
4,100.00	3,430.53	1,077.58	1,062.52	42.73	4.48	91.74	-7,293.66	2,120.85	8,343.41	8,300.60	42.80	194.917	
4,200.00	3,503.49	1,116.00	1,099.23	44.23	4.70	91.94	-7,304.65	2,123.57	8,385.66	8,341.46	44.19	189.749	
4,300.00	3,576.45	1,183.57	1,163.77	45.74	5.09	92.28	-7,324.09	2,128.28	8,428.47	8,382.73	45.74	184.270	
4,400.00	3,649.40	1,204.00	1,183.29	47.25	5.21	92.38	-7,329.96	2,129.61	8,471.81	8,424.80	47.01	180.226	
4,500.00	3,722.36	1,247.34	1,224.66	48.75	5.47	92.60	-7,342.57	2,132.40	8,515.78	8,467.38	48.40	175.959	
4,600.00	3,795.32	1,291.00	1,266.22	50.26	5.73	92.82	-7,355.64	2,135.28	8,560.61	8,510.83	49.78	171.967	
4,700.00	3,868.27	1,291.00	1,266.22	51.77	5.73	92.82	-7,355.64	2,135.28	8,606.07	8,555.18	50.89	169.114	
4,800.00	3,941.23	1,327.28	1,300.67	53.28	5.95	93.00	-7,366.74	2,137.76	8,652.27	8,600.06	52.21	165.723	
4,900.00	4,014.19	1,356.67	1,328.53	54.79	6.14	93.15	-7,375.86	2,139.84	8,699.17	8,645.69	53.48	162.674	
5,000.00	4,087.15	1,378.00	1,348.72	56.30	6.27	93.25	-7,382.56	2,141.40	8,746.74	8,692.06	54.68	159.960	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,160.10	1,416.57	1,385.17	57.81	6.52	93.44	-7,394.82	2,144.39	8,794.94	8,738.95	55.99	157.083	
5,200.00	4,233.06	1,466.00	1,431.75	59.32	6.83	93.68	-7,410.81	2,148.59	8,843.84	8,786.48	57.36	154.175	
5,300.00	4,306.02	1,466.00	1,431.75	60.83	6.83	93.68	-7,410.81	2,148.59	8,893.30	8,834.91	58.39	152.303	
5,400.00	4,378.97	1,466.00	1,431.75	62.34	6.83	93.68	-7,410.81	2,148.59	8,943.60	8,884.20	59.41	150.551	
5,500.00	4,451.93	1,503.50	1,466.95	63.85	7.08	93.86	-7,423.30	2,151.93	8,994.40	8,933.73	60.67	148.251	
5,600.00	4,524.89	1,519.05	1,481.50	65.36	7.19	93.93	-7,428.62	2,153.30	9,046.02	8,984.26	61.77	146.452	
5,700.00	4,597.84	1,553.00	1,513.16	66.88	7.42	94.09	-7,440.51	2,156.29	9,098.42	9,035.43	62.99	144.450	
5,800.00	4,670.80	1,553.00	1,513.16	68.39	7.42	94.09	-7,440.51	2,156.29	9,151.34	9,087.39	63.95	143.110	
5,900.00	4,743.76	1,553.00	1,513.16	69.90	7.42	94.09	-7,440.51	2,156.29	9,205.04	9,140.15	64.89	141.856	
6,000.00	4,816.71	1,584.44	1,542.37	71.41	7.64	94.24	-7,451.83	2,158.96	9,259.32	9,193.26	66.06	140.170	
6,100.00	4,889.67	1,601.75	1,558.41	72.93	7.76	94.32	-7,458.17	2,160.37	9,314.27	9,247.16	67.11	138.797	
6,200.00	4,962.63	1,640.00	1,593.77	74.44	8.03	94.51	-7,472.47	2,163.32	9,369.93	9,301.63	68.31	137.174	
6,300.00	5,035.59	1,640.00	1,593.77	75.95	8.03	94.51	-7,472.47	2,163.32	9,426.04	9,356.84	69.20	136.217	
6,400.00	5,108.54	1,640.00	1,593.77	77.47	8.03	94.51	-7,472.47	2,163.32	9,482.88	9,412.80	70.08	135.324	
6,500.00	5,181.50	1,682.06	1,632.53	78.98	8.33	94.71	-7,488.53	2,166.36	9,540.18	9,468.90	71.28	133.849	
6,600.00	5,254.46	1,728.00	1,674.74	80.49	8.67	94.92	-7,506.36	2,169.48	9,598.14	9,525.64	72.50	132.389	
6,700.00	5,327.41	1,730.98	1,677.48	82.01	8.69	94.94	-7,507.53	2,169.67	9,656.50	9,583.13	73.37	131.622	
6,800.00	5,400.37	2,451.40	2,348.09	83.52	13.77	98.24	-7,765.43	2,217.13	9,711.78	9,631.85	79.93	121.499	
6,900.00	5,473.33	2,483.59	2,378.45	85.04	13.99	98.39	-7,776.00	2,218.90	9,766.70	9,685.64	81.06	120.483	
7,000.00	5,546.28	2,660.45	2,545.61	86.55	15.16	99.18	-7,833.11	2,227.32	9,821.56	9,738.29	83.27	117.950	
7,100.00	5,619.24	2,688.00	2,571.72	88.06	15.34	99.30	-7,841.84	2,228.36	9,876.51	9,792.16	84.35	117.089	
7,200.00	5,692.20	2,734.32	2,615.55	89.58	15.64	99.51	-7,856.69	2,230.42	9,931.90	9,846.33	85.57	116.070	
7,300.00	5,765.15	2,775.00	2,653.91	91.09	15.91	99.68	-7,869.99	2,232.89	9,987.81	9,901.07	86.74	115.149	
10,800.00	7,618.00	7,956.55	7,676.95	123.18	39.68	90.64	-8,783.29	2,357.15	9,985.55	9,844.49	141.06	70.792	
10,900.00	7,618.00	7,956.86	7,677.27	122.96	39.68	90.65	-8,783.29	2,357.15	9,890.60	9,749.31	141.29	70.001	
11,000.00	7,618.00	7,957.18	7,677.58	122.76	39.68	90.65	-8,783.29	2,357.16	9,795.75	9,654.22	141.54	69.211	
11,100.00	7,618.00	7,957.49	7,677.90	122.57	39.68	90.66	-8,783.29	2,357.16	9,701.01	9,559.22	141.78	68.421	
11,200.00	7,618.00	7,957.82	7,678.22	122.39	39.68	90.67	-8,783.29	2,357.17	9,606.37	9,464.33	142.04	67.632	
11,300.00	7,618.00	7,958.14	7,678.55	122.23	39.68	90.67	-8,783.29	2,357.18	9,511.84	9,369.54	142.30	66.843	
11,400.00	7,618.00	7,958.47	7,678.87	122.07	39.68	90.68	-8,783.29	2,357.18	9,417.42	9,274.85	142.57	66.055	
11,500.00	7,618.00	7,958.80	7,679.20	121.93	39.68	90.68	-8,783.29	2,357.19	9,323.12	9,180.28	142.84	65.268	
11,600.00	7,618.00	7,959.13	7,679.54	121.79	39.69	90.69	-8,783.29	2,357.19	9,228.94	9,085.82	143.12	64.482	
11,700.00	7,618.00	7,959.47	7,679.87	121.67	39.69	90.70	-8,783.29	2,357.20	9,134.89	8,991.47	143.41	63.696	
11,800.00	7,618.00	7,959.80	7,680.21	121.56	39.69	90.70	-8,783.29	2,357.21	9,040.96	8,897.25	143.71	62.911	
11,900.00	7,618.00	7,960.15	7,680.55	121.46	39.69	90.71	-8,783.30	2,357.21	8,947.16	8,803.15	144.01	62.127	
12,000.00	7,618.00	7,960.49	7,680.90	121.38	39.69	90.71	-8,783.30	2,357.22	8,853.50	8,709.18	144.33	61.344	
12,100.00	7,618.00	7,960.84	7,681.25	121.30	39.69	90.72	-8,783.30	2,357.23	8,759.98	8,615.34	144.65	60.562	
12,200.00	7,618.00	7,961.19	7,681.60	121.24	39.69	90.73	-8,783.30	2,357.23	8,666.61	8,521.63	144.97	59.781	
12,300.00	7,618.00	7,961.55	7,681.95	121.19	39.69	90.73	-8,783.30	2,357.24	8,573.38	8,428.07	145.31	59.000	
12,400.00	7,618.00	7,961.91	7,682.31	121.16	39.69	90.74	-8,783.30	2,357.25	8,480.31	8,334.65	145.66	58.221	
12,500.00	7,618.00	7,962.27	7,682.67	121.14	39.69	90.75	-8,783.30	2,357.25	8,387.40	8,241.38	146.01	57.444	
12,600.00	7,618.00	7,962.63	7,683.04	121.13	39.69	90.75	-8,783.30	2,357.26	8,294.65	8,148.27	146.38	56.667	
12,700.00	7,618.00	7,963.00	7,683.41	121.13	39.70	90.76	-8,783.30	2,357.27	8,202.07	8,055.32	146.75	55.892	
12,800.00	7,618.00	7,963.37	7,683.78	121.15	39.70	90.77	-8,783.30	2,357.27	8,109.67	7,962.54	147.13	55.118	
12,900.00	7,618.00	7,963.75	7,684.16	121.18	39.70	90.77	-8,783.30	2,357.28	8,017.45	7,869.92	147.53	54.345	
13,000.00	7,618.00	7,964.13	7,684.53	121.23	39.70	90.78	-8,783.30	2,357.29	7,925.42	7,777.49	147.93	53.574	
13,100.00	7,618.00	7,964.51	7,684.92	121.29	39.70	90.79	-8,783.31	2,357.30	7,833.59	7,685.24	148.35	52.805	
13,200.00	7,618.00	7,964.90	7,685.30	121.37	39.70	90.80	-8,783.31	2,357.30	7,741.95	7,593.18	148.78	52.037	
13,300.00	7,618.00	7,965.29	7,685.70	121.46	39.70	90.80	-8,783.31	2,357.31	7,650.53	7,501.31	149.22	51.271	
13,400.00	7,618.00	7,965.68	7,686.09	121.57	39.70	90.81	-8,783.31	2,357.32	7,559.32	7,409.66	149.67	50.507	
13,500.00	7,618.00	7,966.08	7,686.49	121.70	39.70	90.82	-8,783.31	2,357.33	7,468.34	7,318.21	150.13	49.745	
13,600.00	7,618.00	7,966.49	7,686.89	121.84	39.70	90.82	-8,783.31	2,357.33	7,377.60	7,226.99	150.61	48.985	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
13,700.00	7,618.00	7,966.89	7,687.30	122.01	39.70	90.83	-8,783.31	2,357.34	7,287.09	7,135.99	151.10	48.227	
13,800.00	7,618.00	7,967.30	7,687.71	122.19	39.71	90.84	-8,783.31	2,357.35	7,196.84	7,045.23	151.61	47.471	
13,900.00	7,618.00	7,967.72	7,688.12	122.39	39.71	90.85	-8,783.31	2,357.36	7,106.85	6,954.72	152.12	46.717	
14,000.00	7,618.00	7,968.14	7,688.54	122.62	39.71	90.86	-8,783.32	2,357.37	7,017.12	6,864.47	152.66	45.966	
14,100.00	7,618.00	7,968.56	7,688.96	122.86	39.71	90.86	-8,783.32	2,357.38	6,927.68	6,774.48	153.21	45.218	
14,200.00	7,618.00	7,968.99	7,689.39	123.12	39.71	90.87	-8,783.32	2,357.38	6,838.54	6,684.77	153.77	44.472	
14,300.00	7,618.00	7,969.42	7,689.82	123.41	39.71	90.88	-8,783.32	2,357.39	6,749.69	6,595.34	154.35	43.729	
14,400.00	7,618.00	7,969.86	7,690.26	123.72	39.71	90.89	-8,783.32	2,357.40	6,661.17	6,506.22	154.95	42.989	
14,500.00	7,618.00	7,970.30	7,690.70	124.06	39.71	90.89	-8,783.32	2,357.41	6,572.97	6,417.40	155.56	42.252	
14,600.00	7,618.00	7,970.74	7,691.15	124.42	39.71	90.90	-8,783.32	2,357.42	6,485.11	6,328.91	156.20	41.519	
14,700.00	7,618.00	7,971.19	7,691.60	124.80	39.72	90.91	-8,783.32	2,357.43	6,397.61	6,240.76	156.85	40.789	
14,800.00	7,618.00	7,971.65	7,692.05	125.21	39.72	90.92	-8,783.32	2,357.44	6,310.48	6,152.97	157.52	40.062	
14,900.00	7,618.00	7,972.11	7,692.51	125.65	39.72	90.93	-8,783.33	2,357.45	6,223.74	6,065.54	158.21	39.339	
15,000.00	7,618.00	7,972.57	7,692.98	126.11	39.72	90.94	-8,783.33	2,357.46	6,137.41	5,978.49	158.92	38.620	
15,100.00	7,618.00	7,973.04	7,693.45	126.61	39.72	90.95	-8,783.33	2,357.47	6,051.49	5,891.84	159.65	37.906	
15,200.00	7,618.00	7,973.52	7,693.92	127.13	39.72	90.95	-8,783.33	2,357.48	5,966.01	5,805.61	160.40	37.195	
15,300.00	7,618.00	7,974.00	7,694.40	127.68	39.72	90.96	-8,783.33	2,357.49	5,880.99	5,719.82	161.17	36.489	
15,400.00	7,618.00	7,974.48	7,694.89	128.26	39.72	90.97	-8,783.33	2,357.50	5,796.45	5,634.48	161.97	35.788	
15,500.00	7,618.00	7,974.97	7,695.38	128.87	39.73	90.98	-8,783.33	2,357.51	5,712.41	5,549.62	162.78	35.092	
15,600.00	7,618.00	7,975.47	7,695.87	129.51	39.73	90.99	-8,783.34	2,357.52	5,628.89	5,465.26	163.63	34.401	
15,700.00	7,618.00	7,975.97	7,696.38	130.18	39.73	91.00	-8,783.34	2,357.53	5,545.91	5,381.42	164.49	33.715	
15,800.00	7,618.00	7,976.48	7,696.88	130.88	39.73	91.01	-8,783.34	2,357.54	5,463.51	5,298.13	165.38	33.036	
15,900.00	7,618.00	7,976.99	7,697.40	131.61	39.73	91.02	-8,783.34	2,357.55	5,381.70	5,215.40	166.30	32.362	
16,000.00	7,618.00	7,977.51	7,697.91	132.37	39.73	91.03	-8,783.34	2,357.56	5,300.52	5,133.28	167.24	31.694	
16,100.00	7,618.00	7,978.04	7,698.44	133.17	39.73	91.04	-8,783.34	2,357.58	5,219.98	5,051.78	168.21	31.033	
16,200.00	7,618.00	7,978.57	7,698.97	133.99	39.73	91.05	-8,783.34	2,357.59	5,140.14	4,970.94	169.20	30.379	
16,300.00	7,618.00	7,979.10	7,699.51	134.84	39.74	91.06	-8,783.35	2,357.60	5,061.00	4,890.79	170.22	29.732	
16,400.00	7,618.00	7,979.65	7,700.05	135.72	39.74	91.07	-8,783.35	2,357.61	4,982.62	4,811.36	171.27	29.093	
16,500.00	7,618.00	7,980.20	7,700.60	136.63	39.74	91.08	-8,783.35	2,357.62	4,905.03	4,732.69	172.34	28.461	
16,600.00	7,618.00	7,980.75	7,701.15	137.57	39.74	91.09	-8,783.35	2,357.64	4,828.26	4,654.82	173.44	27.838	
16,700.00	7,618.00	7,981.31	7,701.72	138.54	39.74	91.10	-8,783.35	2,357.65	4,752.35	4,577.78	174.57	27.223	
16,800.00	7,618.00	7,981.88	7,702.29	139.53	39.74	91.11	-8,783.35	2,357.66	4,677.35	4,501.63	175.72	26.618	
16,900.00	7,618.00	7,982.46	7,702.86	140.55	39.74	91.12	-8,783.36	2,357.67	4,603.30	4,426.40	176.90	26.022	
17,000.00	7,618.00	7,983.04	7,703.44	141.60	39.75	91.13	-8,783.36	2,357.69	4,530.25	4,352.14	178.11	25.435	
17,100.00	7,618.00	7,983.63	7,704.03	142.67	39.75	91.14	-8,783.36	2,357.70	4,458.24	4,278.90	179.34	24.859	
17,200.00	7,618.00	7,984.23	7,704.63	143.77	39.75	91.15	-8,783.36	2,357.71	4,387.33	4,206.73	180.60	24.293	
17,300.00	7,618.00	7,984.83	7,705.23	144.88	39.75	91.16	-8,783.36	2,357.73	4,317.57	4,135.70	181.88	23.739	
17,400.00	7,618.00	7,985.44	7,705.85	146.02	39.75	91.17	-8,783.37	2,357.74	4,249.02	4,065.85	183.18	23.196	
17,500.00	7,618.00	7,986.06	7,706.46	147.19	39.75	91.18	-8,783.37	2,357.76	4,181.74	3,997.24	184.50	22.666	
17,600.00	7,618.00	7,986.69	7,707.09	148.37	39.75	91.20	-8,783.37	2,357.77	4,115.79	3,929.95	185.83	22.148	
17,700.00	7,618.00	7,987.33	7,707.73	149.57	39.76	91.21	-8,783.37	2,357.79	4,051.23	3,864.05	187.19	21.643	
17,800.00	7,618.00	7,987.97	7,708.37	150.79	39.76	91.22	-8,783.37	2,357.80	3,988.14	3,799.59	188.55	21.151	
17,900.00	7,618.00	7,988.62	7,709.02	152.03	39.76	91.23	-8,783.38	2,357.82	3,926.58	3,736.65	189.93	20.674	
18,000.00	7,618.00	7,989.28	7,709.68	153.29	39.76	91.24	-8,783.38	2,357.83	3,866.62	3,675.32	191.30	20.212	
18,100.00	7,618.00	7,989.95	7,710.35	154.57	39.76	91.26	-8,783.38	2,357.85	3,808.35	3,615.67	192.68	19.765	
18,200.00	7,618.00	7,990.62	7,711.02	155.86	39.76	91.27	-8,783.38	2,357.87	3,751.84	3,557.78	194.06	19.333	
18,300.00	7,618.00	7,991.31	7,711.71	157.17	39.77	91.28	-8,783.38	2,357.88	3,697.17	3,501.74	195.43	18.919	
18,400.00	7,618.00	7,992.00	7,712.40	158.49	39.77	91.29	-8,783.39	2,357.90	3,644.42	3,447.65	196.78	18.521	
18,500.00	7,618.00	7,992.71	7,713.10	159.82	39.77	91.31	-8,783.39	2,357.92	3,593.69	3,395.58	198.11	18.140	
18,600.00	7,618.00	7,993.42	7,713.82	161.17	39.77	91.32	-8,783.39	2,357.93	3,545.04	3,345.64	199.41	17.778	
18,700.00	7,618.00	7,994.14	7,714.54	162.54	39.77	91.33	-8,783.39	2,357.95	3,498.58	3,297.91	200.67	17.434	
18,800.00	7,618.00	7,994.87	7,715.27	163.91	39.77	91.35	-8,783.40	2,357.97	3,454.40	3,252.50	201.90	17.110	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
18,900.00	7,618.00	7,995.61	7,716.01	165.30	39.78	91.36	-8,783.40	2,357.99	3,412.57	3,209.50	203.07	16.805	
19,000.00	7,618.00	7,996.37	7,716.76	166.70	39.78	91.37	-8,783.40	2,358.01	3,373.18	3,169.01	204.18	16.521	
19,100.00	7,618.00	7,997.13	7,717.53	168.10	39.78	91.39	-8,783.40	2,358.03	3,336.33	3,131.11	205.22	16.257	
19,200.00	7,618.00	7,997.90	7,718.30	169.52	39.78	91.40	-8,783.41	2,358.05	3,302.10	3,095.92	206.19	16.015	
19,300.00	7,618.00	7,998.69	7,719.08	170.95	39.78	91.42	-8,783.41	2,358.07	3,270.57	3,063.51	207.07	15.795	
19,400.00	7,618.00	7,999.48	7,719.88	172.39	39.79	91.43	-8,783.41	2,358.09	3,241.82	3,033.97	207.85	15.597	
19,500.00	7,618.00	8,000.29	7,720.68	173.84	39.79	91.45	-8,783.42	2,358.11	3,215.92	3,007.39	208.53	15.422	
19,600.00	7,618.00	8,001.10	7,721.50	175.30	39.79	91.46	-8,783.42	2,358.13	3,192.95	2,983.84	209.10	15.270	
19,700.00	7,618.00	8,001.93	7,722.33	176.76	39.79	91.48	-8,783.42	2,358.15	3,172.96	2,963.40	209.56	15.141	
19,800.00	7,618.00	8,002.77	7,723.17	178.24	39.79	91.49	-8,783.43	2,358.18	3,156.01	2,946.13	209.88	15.037	
19,896.19	7,618.00	8,003.59	7,723.99	179.66	39.80	91.51	-8,783.43	2,358.20	3,142.63	2,932.55	210.08	14.959	CC, ES, SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	163.80	-7,118.47	2,067.85	7,412.77				
100.00	100.00	44.35	44.35	0.13	0.08	163.80	-7,118.59	2,068.30	7,413.40	7,413.20	0.20	N/A	
200.00	200.00	74.00	73.98	0.49	0.14	163.79	-7,118.80	2,069.10	7,414.92	7,414.31	0.61	N/A	
300.00	299.98	120.05	120.00	0.85	0.29	94.42	-7,119.39	2,070.82	7,417.38	7,416.26	1.13	6,573.712	
400.00	399.84	166.00	165.89	1.21	0.45	94.36	-7,120.33	2,072.87	7,420.95	7,419.30	1.65	4,486.071	
500.00	499.45	223.07	222.86	1.58	0.66	94.29	-7,121.75	2,075.92	7,425.46	7,423.22	2.24	3,320.812	
600.00	598.70	309.72	309.29	1.97	0.99	94.23	-7,123.85	2,081.75	7,430.59	7,427.64	2.95	2,521.558	
700.00	697.47	349.00	348.43	2.38	1.14	94.14	-7,124.65	2,084.92	7,436.26	7,432.75	3.51	2,120.128	
800.00	795.62	411.19	410.36	2.83	1.38	94.06	-7,126.18	2,090.49	7,442.74	7,438.55	4.19	1,777.046	
900.00	893.06	440.00	439.02	3.31	1.49	93.93	-7,127.13	2,093.26	7,450.41	7,445.63	4.78	1,559.608	
1,000.00	989.64	477.40	476.18	3.83	1.65	93.81	-7,128.59	2,097.22	7,459.21	7,453.76	5.44	1,370.267	
1,100.00	1,085.27	533.00	531.28	4.40	1.88	93.69	-7,131.29	2,104.15	7,469.32	7,463.10	6.23	1,199.573	
1,200.00	1,179.82	546.07	544.20	5.02	1.93	93.49	-7,131.99	2,105.95	7,480.30	7,473.40	6.89	1,085.282	
1,300.00	1,273.17	625.00	622.14	5.70	2.27	93.40	-7,135.95	2,117.75	7,492.05	7,484.16	7.88	950.166	
1,400.00	1,365.21	681.19	677.45	6.43	2.53	93.25	-7,138.69	2,127.23	7,504.48	7,495.63	8.85	847.846	
1,500.00	1,455.84	738.85	734.02	7.23	2.80	93.10	-7,141.63	2,138.03	7,517.79	7,507.90	9.89	760.167	
1,600.00	1,544.94	805.00	798.57	8.09	3.12	92.96	-7,144.67	2,152.14	7,531.67	7,520.63	11.04	682.196	
1,700.00	1,632.39	843.82	836.29	9.01	3.33	92.75	-7,146.47	2,161.17	7,546.40	7,534.26	12.14	621.728	
1,800.00	1,718.11	893.00	883.90	10.00	3.59	92.55	-7,149.20	2,173.16	7,562.29	7,548.93	13.35	566.321	
1,900.00	1,801.97	912.84	903.05	11.07	3.70	92.26	-7,150.41	2,178.19	7,579.08	7,564.59	14.49	523.015	
2,000.00	1,883.88	963.36	951.63	12.20	3.98	92.04	-7,153.50	2,191.72	7,596.78	7,580.92	15.86	478.896	
2,100.00	1,963.74	1,003.57	990.08	13.41	4.22	91.78	-7,156.00	2,203.21	7,615.32	7,598.06	17.25	441.346	
2,200.00	2,041.45	1,031.00	1,016.18	14.69	4.38	91.46	-7,157.78	2,211.46	7,634.80	7,616.16	18.64	409.522	
2,300.00	2,116.92	1,076.41	1,059.23	16.05	4.67	91.19	-7,160.94	2,225.59	7,655.19	7,634.97	20.22	378.641	
2,357.48	2,159.25	1,102.99	1,084.36	16.86	4.84	91.03	-7,162.91	2,234.01	7,667.31	7,646.15	21.16	362.421	
2,400.00	2,190.27	1,150.99	1,129.77	17.47	5.15	91.19	-7,166.52	2,249.12	7,676.36	7,654.32	22.04	348.250	
2,500.00	2,263.22	1,183.00	1,160.11	18.92	5.36	91.30	-7,168.93	2,259.05	7,697.94	7,674.33	23.62	325.952	
2,600.00	2,336.18	1,236.67	1,210.83	20.37	5.72	91.49	-7,173.19	2,276.04	7,720.19	7,694.84	25.35	304.590	
2,700.00	2,409.14	1,270.00	1,242.17	21.84	5.94	91.60	-7,176.08	2,287.05	7,743.40	7,716.46	26.94	287.418	
2,800.00	2,482.09	1,528.10	1,483.98	23.31	7.76	92.42	-7,195.94	2,375.04	7,766.38	7,736.21	30.17	257.400	
2,900.00	2,555.05	1,575.14	1,527.95	24.78	8.11	92.57	-7,199.02	2,391.46	7,788.61	7,756.70	31.91	244.114	
3,000.00	2,628.01	1,619.51	1,569.35	26.27	8.43	92.70	-7,202.16	2,407.10	7,811.55	7,777.94	33.62	232.359	
3,100.00	2,700.96	1,730.40	1,672.56	27.75	9.26	93.04	-7,209.95	2,446.89	7,834.76	7,798.91	35.85	218.520	
3,200.00	2,773.92	1,810.34	1,746.89	29.24	9.86	93.28	-7,215.52	2,475.79	7,858.17	7,820.31	37.86	207.566	
3,300.00	2,846.88	1,901.06	1,831.20	30.73	10.55	93.54	-7,221.83	2,508.69	7,881.78	7,841.82	39.95	197.268	
3,400.00	2,919.83	1,968.00	1,893.34	32.23	11.06	93.74	-7,226.49	2,533.14	7,905.64	7,863.78	41.86	188.838	
3,500.00	2,992.79	2,023.46	1,944.77	33.72	11.49	93.90	-7,230.54	2,553.48	7,930.01	7,886.33	43.68	181.537	
3,600.00	3,065.75	2,084.09	2,000.96	35.22	11.96	94.07	-7,235.30	2,575.75	7,955.02	7,909.48	45.54	174.680	
3,700.00	3,138.71	2,170.95	2,081.54	36.72	12.63	94.33	-7,242.25	2,607.42	7,980.32	7,932.71	47.61	167.611	
3,800.00	3,211.66	2,230.00	2,136.46	38.22	13.09	94.50	-7,247.08	2,628.59	8,005.89	7,956.45	49.45	161.907	
3,900.00	3,284.62	2,282.08	2,184.92	39.72	13.48	94.65	-7,251.58	2,647.13	8,032.03	7,980.81	51.22	156.820	
4,000.00	3,357.58	2,386.57	2,282.01	41.22	14.29	94.96	-7,261.16	2,684.56	8,058.84	8,005.41	53.43	150.836	
4,100.00	3,430.53	2,490.23	2,378.19	42.73	15.09	95.25	-7,270.01	2,722.16	8,085.28	8,029.64	55.64	145.313	
4,200.00	3,503.49	2,525.76	2,411.17	44.23	15.37	95.36	-7,273.15	2,735.03	8,112.18	8,054.91	57.27	141.659	
4,300.00	3,576.45	2,579.00	2,460.68	45.74	15.78	95.51	-7,278.39	2,753.89	8,139.90	8,080.86	59.03	137.883	
4,400.00	3,649.40	4,400.00	2,527.23	47.25	29.73	95.72	-7,285.53	2,779.05	8,167.99	8,094.38	73.61	110.966	
4,500.00	3,722.36	2,738.73	2,609.26	48.75	17.01	95.97	-7,294.15	2,810.34	8,196.13	8,133.12	63.01	130.070	
4,600.00	3,795.32	2,852.74	2,714.94	50.26	17.90	96.29	-7,305.22	2,851.67	8,224.49	8,159.18	65.32	125.919	
4,700.00	3,868.27	2,933.99	2,790.05	51.77	18.55	96.52	-7,312.93	2,881.68	8,252.88	8,185.55	67.34	122.560	
4,800.00	3,941.23	3,064.43	2,911.23	53.28	19.56	96.88	-7,325.26	2,928.36	8,281.30	8,211.52	69.78	118.675	
4,900.00	4,014.19	3,159.82	2,999.61	54.79	20.31	97.14	-7,333.78	2,963.21	8,309.48	8,237.55	71.92	115.530	
5,000.00	4,087.15	3,254.62	3,087.20	56.30	21.07	97.39	-7,342.23	2,998.46	8,337.88	8,263.81	74.07	112.569	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,160.10	3,330.92	3,157.98	57.81	21.67	97.60	-7,349.08	3,026.13	8,366.38	8,290.35	76.04	110.027	
5,200.00	4,233.06	3,386.73	3,209.54	59.32	22.12	97.75	-7,354.18	3,046.85	8,395.29	8,317.47	77.82	107.882	
5,300.00	4,306.02	3,430.10	3,249.62	60.83	22.46	97.86	-7,358.37	3,062.91	8,424.80	8,345.32	79.48	106.000	
5,400.00	4,378.97	3,475.01	3,291.14	62.34	22.82	97.98	-7,362.97	3,079.39	8,454.92	8,373.78	81.14	104.197	
5,500.00	4,451.93	5,500.00	3,375.95	63.85	39.02	98.23	-7,372.82	3,112.79	8,485.64	8,387.62	98.02	86.568	
5,600.00	4,524.89	3,759.13	3,553.60	65.36	25.10	98.72	-7,391.14	3,184.45	8,515.18	8,428.87	86.31	98.654	
5,700.00	4,597.84	3,802.00	3,593.04	66.88	25.45	98.83	-7,395.14	3,200.76	8,545.07	8,457.11	87.96	97.144	
5,800.00	4,670.80	3,802.00	3,593.04	68.39	25.45	98.83	-7,395.14	3,200.76	8,575.82	8,486.64	89.18	96.161	
5,900.00	4,743.76	3,855.41	3,642.16	69.90	25.89	98.96	-7,400.65	3,221.00	8,607.04	8,516.13	90.91	94.673	
6,000.00	4,816.71	6,000.00	3,806.43	71.41	42.55	99.43	-7,420.38	3,285.19	8,639.13	8,530.67	108.46	79.650	
6,100.00	4,889.67	4,830.20	4,568.26	72.93	32.34	101.84	-7,469.84	3,509.96	8,663.24	8,562.10	101.14	85.656	
6,200.00	4,962.63	4,881.30	4,618.36	74.44	32.58	102.02	-7,471.49	3,519.91	8,687.68	8,584.96	102.72	84.576	
6,300.00	5,035.59	5,137.01	4,870.20	75.95	33.69	102.95	-7,478.54	3,563.41	8,712.34	8,607.02	105.32	82.720	
6,400.00	5,108.54	5,214.24	4,946.66	77.47	33.99	103.24	-7,479.86	3,574.22	8,735.96	8,628.99	106.97	81.669	
6,500.00	5,181.50	5,308.16	5,039.90	78.98	34.32	103.60	-7,481.34	3,585.35	8,759.74	8,651.09	108.65	80.624	
6,600.00	5,254.46	5,356.05	5,087.54	80.49	34.48	103.79	-7,482.20	3,590.16	8,784.05	8,673.93	110.11	79.772	
6,700.00	5,327.41	5,400.06	5,131.36	82.01	34.62	103.96	-7,483.17	3,594.12	8,809.02	8,697.47	111.54	78.974	
6,800.00	5,400.37	5,441.51	5,172.67	83.52	34.75	104.13	-7,484.25	3,597.36	8,834.67	8,721.73	112.95	78.221	
6,900.00	5,473.33	5,591.13	5,322.08	85.04	35.13	104.76	-7,487.97	3,604.03	8,860.68	8,746.03	114.65	77.282	
7,000.00	5,546.28	5,712.51	5,443.42	86.55	35.39	105.29	-7,490.04	3,606.00	8,886.49	8,770.28	116.21	76.468	
7,100.00	5,619.24	5,801.23	5,532.13	88.06	35.57	105.68	-7,491.23	3,606.61	8,912.48	8,794.82	117.66	75.748	
7,200.00	5,692.20	5,887.22	5,618.11	89.58	35.75	106.05	-7,492.24	3,607.13	8,938.80	8,819.72	119.09	75.060	
7,300.00	5,765.15	6,008.46	5,739.35	91.09	35.99	106.58	-7,493.28	3,607.67	8,965.34	8,844.75	120.59	74.344	
7,400.00	5,838.11	6,106.30	5,837.19	92.61	36.19	107.00	-7,493.64	3,607.90	8,991.95	8,869.92	122.03	73.689	
7,500.00	5,911.07	6,176.20	5,907.09	94.12	36.32	107.30	-7,493.84	3,607.81	9,018.96	8,895.58	123.38	73.100	
7,600.00	5,984.03	6,245.68	5,976.56	95.64	36.45	107.60	-7,494.05	3,607.50	9,046.44	8,921.73	124.72	72.536	
7,700.00	6,056.98	7,700.00	6,110.19	97.15	39.22	108.18	-7,493.59	3,606.91	9,073.68	8,944.95	128.73	70.484	
7,800.00	6,129.94	6,534.69	6,265.56	98.67	37.01	108.84	-7,492.16	3,606.42	9,101.03	8,973.33	127.70	71.266	
7,900.00	6,202.90	6,629.25	6,360.12	100.18	37.20	109.24	-7,490.88	3,606.18	9,128.60	8,999.53	129.08	70.722	
8,000.00	6,275.85	6,733.89	6,464.75	101.70	37.42	109.68	-7,489.17	3,606.14	9,156.37	9,025.91	130.47	70.181	
8,100.00	6,348.81	6,846.37	6,577.20	103.21	37.66	110.15	-7,486.92	3,606.36	9,184.29	9,052.42	131.87	69.647	
8,200.00	6,421.77	6,963.09	6,693.88	104.73	37.91	110.64	-7,484.07	3,606.69	9,212.28	9,079.01	133.27	69.124	
8,300.00	6,494.72	7,028.71	6,759.49	106.24	38.05	110.91	-7,482.40	3,607.09	9,240.58	9,106.02	134.56	68.675	
8,400.00	6,567.68	7,102.07	6,832.81	107.76	38.22	111.21	-7,480.55	3,607.82	9,269.28	9,133.43	135.85	68.234	
8,500.00	6,640.64	7,178.58	6,909.29	109.27	38.40	111.52	-7,478.65	3,608.82	9,298.37	9,161.22	137.14	67.801	
8,600.00	6,713.59	7,256.08	6,986.76	110.79	38.58	111.83	-7,476.71	3,609.94	9,327.82	9,189.39	138.43	67.382	
8,700.00	6,786.55	7,320.68	7,051.34	112.30	38.73	112.09	-7,475.11	3,610.96	9,357.66	9,217.98	139.68	66.993	
8,800.00	6,859.51	7,372.91	7,103.55	113.82	38.86	112.30	-7,473.93	3,611.89	9,388.03	9,247.14	140.89	66.633	
8,900.00	6,932.46	7,425.24	7,155.86	115.33	38.99	112.51	-7,472.90	3,612.93	9,418.95	9,276.86	142.09	66.289	
9,000.00	7,005.42	7,468.00	7,198.60	116.85	39.10	112.68	-7,472.16	3,613.86	9,450.42	9,307.17	143.25	65.972	
9,104.89	7,081.95	7,534.65	7,265.21	118.44	39.27	112.94	-7,471.18	3,615.48	9,483.98	9,339.46	144.53	65.621	
9,150.00	7,115.15	7,559.27	7,289.83	119.12	39.34	108.09	-7,470.87	3,616.12	9,496.92	9,351.85	145.07	65.465	
9,200.00	7,152.46	7,586.95	7,317.49	119.86	39.41	102.51	-7,470.56	3,616.88	9,507.40	9,361.71	145.69	65.258	
9,250.00	7,190.04	7,614.83	7,345.37	120.57	39.48	96.84	-7,470.28	3,617.67	9,513.75	9,367.43	146.32	65.019	
9,300.00	7,227.59	7,643.00	7,373.52	121.25	39.56	91.25	-7,470.04	3,618.51	9,515.95	9,368.99	146.96	64.751	
9,350.00	7,264.83	7,669.46	7,399.97	121.89	39.63	85.86	-7,469.85	3,619.31	9,513.98	9,366.38	147.60	64.460	
9,400.00	7,301.48	7,695.75	7,426.25	122.48	39.70	80.83	-7,469.69	3,620.11	9,507.85	9,359.63	148.22	64.148	
9,450.00	7,337.26	7,721.42	7,451.90	123.01	39.77	76.24	-7,469.56	3,620.88	9,497.61	9,348.79	148.82	63.819	
9,500.00	7,371.90	7,746.27	7,476.74	123.49	39.84	72.17	-7,469.46	3,621.63	9,483.33	9,333.93	149.40	63.477	
9,550.00	7,405.13	7,770.13	7,500.59	123.91	39.90	68.64	-7,469.40	3,622.34	9,465.13	9,315.18	149.95	63.123	
9,600.00	7,436.70	7,792.82	7,523.27	124.27	39.96	65.66	-7,469.36	3,623.02	9,443.11	9,292.65	150.46	62.762	
9,650.00	7,466.36	7,817.00	7,547.44	124.57	40.03	63.25	-7,469.34	3,623.74	9,417.44	9,266.50	150.94	62.391	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,700.00	7,493.91	7,846.42	7,576.85	124.81	40.11	61.44	-7,469.33	3,624.59	9,388.29	9,236.88	151.41	62.007	
9,750.00	7,519.11	7,877.67	7,608.08	125.00	40.19	60.21	-7,469.29	3,625.46	9,355.83	9,203.99	151.84	61.617	
9,800.00	7,541.79	7,905.64	7,636.04	125.12	40.27	59.58	-7,469.22	3,626.20	9,320.31	9,168.08	152.22	61.228	
9,850.00	7,561.77	7,930.14	7,660.54	125.20	40.33	59.60	-7,469.15	3,626.82	9,281.98	9,129.42	152.56	60.843	
9,900.00	7,578.90	7,951.02	7,681.41	125.23	40.39	60.38	-7,469.08	3,627.33	9,241.13	9,088.29	152.84	60.462	
9,950.00	7,593.04	7,968.14	7,698.53	125.22	40.44	62.14	-7,469.01	3,627.73	9,198.07	9,044.99	153.08	60.087	
10,000.00	7,604.09	7,981.40	7,711.79	125.17	40.47	65.26	-7,468.95	3,628.03	9,153.10	8,999.82	153.27	59.718	
10,050.00	7,611.97	7,990.74	7,721.12	125.08	40.50	70.47	-7,468.91	3,628.24	9,106.55	8,953.13	153.42	59.356	
10,100.00	7,616.61	8,016.34	7,746.71	124.97	40.57	79.68	-7,468.76	3,628.82	9,058.77	8,905.17	153.60	58.976	
10,145.95	7,618.00	8,023.84	7,754.22	124.84	40.59	93.47	-7,468.70	3,629.00	9,014.07	8,860.38	153.69	58.650	
10,200.00	7,618.00	8,021.04	7,751.42	124.69	40.58	93.38	-7,468.72	3,628.93	8,961.19	8,807.44	153.75	58.284	
10,300.00	7,618.00	8,016.30	7,746.67	124.41	40.57	93.24	-7,468.76	3,628.82	8,863.38	8,709.51	153.86	57.606	
10,400.00	7,618.00	8,012.05	7,742.42	124.14	40.55	93.11	-7,468.79	3,628.72	8,765.61	8,611.64	153.98	56.928	
10,500.00	7,618.00	8,008.22	7,738.59	123.88	40.54	92.99	-7,468.81	3,628.64	8,667.90	8,513.80	154.10	56.250	
10,600.00	7,618.00	8,004.75	7,735.12	123.63	40.53	92.88	-7,468.83	3,628.56	8,570.24	8,416.02	154.22	55.571	
10,700.00	7,618.00	8,001.59	7,731.97	123.40	40.53	92.78	-7,468.85	3,628.48	8,472.64	8,318.29	154.35	54.893	
10,800.00	7,618.00	7,998.70	7,729.08	123.18	40.52	92.69	-7,468.87	3,628.42	8,375.09	8,220.60	154.48	54.214	
10,900.00	7,618.00	7,996.06	7,726.43	122.96	40.51	92.61	-7,468.88	3,628.36	8,277.60	8,122.98	154.62	53.535	
11,000.00	7,618.00	7,993.62	7,724.00	122.76	40.50	92.54	-7,468.90	3,628.31	8,180.17	8,025.40	154.76	52.857	
11,100.00	7,618.00	7,991.83	7,722.21	122.57	40.50	92.48	-7,468.90	3,628.27	8,082.80	7,927.89	154.91	52.178	
11,200.00	7,618.00	7,991.26	7,721.64	122.39	40.50	92.46	-7,468.91	3,628.25	7,985.49	7,830.43	155.07	51.498	
11,300.00	7,618.00	7,990.69	7,721.07	122.23	40.50	92.45	-7,468.91	3,628.24	7,888.26	7,733.03	155.23	50.818	
11,400.00	7,618.00	7,990.12	7,720.50	122.07	40.49	92.43	-7,468.91	3,628.23	7,791.09	7,635.70	155.39	50.139	
11,500.00	7,618.00	7,989.56	7,719.94	121.93	40.49	92.41	-7,468.92	3,628.22	7,694.00	7,538.44	155.56	49.460	
11,600.00	7,618.00	7,989.00	7,719.38	121.79	40.49	92.39	-7,468.92	3,628.20	7,596.98	7,441.25	155.73	48.782	
11,700.00	7,618.00	7,988.44	7,718.82	121.67	40.49	92.38	-7,468.92	3,628.19	7,500.04	7,344.13	155.91	48.104	
11,800.00	7,618.00	7,987.89	7,718.27	121.56	40.49	92.36	-7,468.92	3,628.18	7,403.19	7,247.09	156.10	47.427	
11,900.00	7,618.00	7,987.34	7,717.72	121.46	40.49	92.34	-7,468.93	3,628.17	7,306.41	7,150.13	156.29	46.750	
12,000.00	7,618.00	7,986.79	7,717.17	121.38	40.49	92.32	-7,468.93	3,628.15	7,209.73	7,053.25	156.48	46.074	
12,100.00	7,618.00	7,986.25	7,716.63	121.30	40.48	92.31	-7,468.93	3,628.14	7,113.14	6,956.46	156.68	45.399	
12,200.00	7,618.00	7,985.71	7,716.09	121.24	40.48	92.29	-7,468.93	3,628.13	7,016.64	6,859.75	156.89	44.725	
12,300.00	7,618.00	7,985.17	7,715.55	121.19	40.48	92.27	-7,468.94	3,628.12	6,920.24	6,763.14	157.10	44.051	
12,400.00	7,618.00	7,984.64	7,715.02	121.16	40.48	92.26	-7,468.94	3,628.11	6,823.94	6,666.63	157.31	43.378	
12,500.00	7,618.00	7,984.11	7,714.49	121.14	40.48	92.24	-7,468.94	3,628.09	6,727.76	6,570.22	157.54	42.706	
12,600.00	7,618.00	7,983.58	7,713.96	121.13	40.48	92.23	-7,468.94	3,628.08	6,631.68	6,473.91	157.77	42.034	
12,700.00	7,618.00	7,983.06	7,713.44	121.13	40.48	92.21	-7,468.95	3,628.07	6,535.73	6,377.72	158.01	41.364	
12,800.00	7,618.00	7,982.54	7,712.92	121.15	40.47	92.19	-7,468.95	3,628.06	6,439.89	6,281.64	158.25	40.694	
12,900.00	7,618.00	7,982.02	7,712.40	121.18	40.47	92.18	-7,468.95	3,628.05	6,344.19	6,185.69	158.50	40.026	
13,000.00	7,618.00	7,981.51	7,711.89	121.23	40.47	92.16	-7,468.95	3,628.04	6,248.62	6,089.86	158.76	39.359	
13,100.00	7,618.00	7,981.00	7,711.38	121.29	40.47	92.15	-7,468.96	3,628.02	6,153.19	5,994.16	159.03	38.692	
13,200.00	7,618.00	7,980.49	7,710.87	121.37	40.47	92.13	-7,468.96	3,628.01	6,057.91	5,898.60	159.30	38.027	
13,300.00	7,618.00	7,979.98	7,710.37	121.46	40.47	92.11	-7,468.96	3,628.00	5,962.78	5,803.19	159.59	37.363	
13,400.00	7,618.00	7,979.48	7,709.86	121.57	40.47	92.10	-7,468.96	3,627.99	5,867.81	5,707.93	159.88	36.701	
13,500.00	7,618.00	7,978.98	7,709.36	121.70	40.46	92.08	-7,468.96	3,627.98	5,773.02	5,612.83	160.19	36.040	
13,600.00	7,618.00	7,978.48	7,708.87	121.84	40.46	92.07	-7,468.97	3,627.97	5,678.40	5,517.90	160.50	35.380	
13,700.00	7,618.00	7,977.99	7,708.38	122.01	40.46	92.05	-7,468.97	3,627.96	5,583.97	5,423.15	160.82	34.722	
13,800.00	7,618.00	7,977.50	7,707.88	122.19	40.46	92.04	-7,468.97	3,627.94	5,489.74	5,328.58	161.15	34.065	
13,900.00	7,618.00	7,977.01	7,707.40	122.39	40.46	92.02	-7,468.97	3,627.93	5,395.71	5,234.22	161.50	33.411	
14,000.00	7,618.00	7,976.53	7,706.91	122.62	40.46	92.01	-7,468.98	3,627.92	5,301.91	5,140.05	161.85	32.758	
14,100.00	7,618.00	7,976.05	7,706.43	122.86	40.46	91.99	-7,468.98	3,627.91	5,208.33	5,046.11	162.22	32.107	
14,200.00	7,618.00	7,975.57	7,705.95	123.12	40.46	91.98	-7,468.98	3,627.90	5,115.00	4,952.40	162.60	31.458	
14,300.00	7,618.00	7,975.09	7,705.48	123.41	40.45	91.96	-7,468.98	3,627.89	5,021.92	4,858.93	162.99	30.811	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,400.00	7,618.00	7,974.62	7,705.00	123.72	40.45	91.95	-7,468.98	3,627.88	4,929.12	4,765.72	163.40	30.167	
14,500.00	7,618.00	7,974.15	7,704.53	124.06	40.45	91.93	-7,468.99	3,627.87	4,836.60	4,672.78	163.82	29.525	
14,600.00	7,618.00	7,973.68	7,704.06	124.42	40.45	91.92	-7,468.99	3,627.86	4,744.38	4,580.13	164.25	28.885	
14,700.00	7,618.00	7,973.21	7,703.60	124.80	40.45	91.90	-7,468.99	3,627.85	4,652.49	4,487.79	164.70	28.248	
14,800.00	7,618.00	7,972.75	7,703.13	125.21	40.45	91.89	-7,468.99	3,627.84	4,560.94	4,395.78	165.16	27.615	
14,900.00	7,618.00	7,972.29	7,702.67	125.65	40.45	91.88	-7,468.99	3,627.82	4,469.75	4,304.11	165.64	26.984	
15,000.00	7,618.00	7,971.83	7,702.22	126.11	40.45	91.86	-7,469.00	3,627.81	4,378.94	4,212.80	166.14	26.357	
15,100.00	7,618.00	7,971.37	7,701.76	126.61	40.44	91.85	-7,469.00	3,627.80	4,288.55	4,121.89	166.66	25.733	
15,200.00	7,618.00	7,970.92	7,701.31	127.13	40.44	91.83	-7,469.00	3,627.79	4,198.59	4,031.40	167.19	25.113	
15,300.00	7,618.00	7,970.47	7,700.86	127.68	40.44	91.82	-7,469.00	3,627.78	4,109.09	3,941.35	167.74	24.497	
15,400.00	7,618.00	7,970.02	7,700.41	128.26	40.44	91.81	-7,469.00	3,627.77	4,020.09	3,851.78	168.31	23.885	
15,500.00	7,618.00	7,969.58	7,699.96	128.87	40.44	91.79	-7,469.01	3,627.76	3,931.62	3,762.72	168.90	23.278	
15,600.00	7,618.00	7,969.14	7,699.52	129.51	40.44	91.78	-7,469.01	3,627.75	3,843.71	3,674.20	169.50	22.676	
15,700.00	7,618.00	7,968.70	7,699.08	130.18	40.44	91.77	-7,469.01	3,627.74	3,756.41	3,586.27	170.13	22.079	
15,800.00	7,618.00	7,968.26	7,698.64	130.88	40.44	91.75	-7,469.01	3,627.73	3,669.75	3,498.97	170.78	21.488	
15,900.00	7,618.00	7,967.82	7,698.21	131.61	40.43	91.74	-7,469.01	3,627.72	3,583.79	3,412.34	171.45	20.903	
16,000.00	7,618.00	7,967.39	7,697.77	132.37	40.43	91.72	-7,469.02	3,627.71	3,498.58	3,326.44	172.14	20.324	
16,100.00	7,618.00	7,966.96	7,697.34	133.17	40.43	91.71	-7,469.02	3,627.70	3,414.17	3,241.31	172.85	19.752	
16,200.00	7,618.00	7,966.53	7,696.92	133.99	40.43	91.70	-7,469.02	3,627.69	3,330.62	3,157.04	173.58	19.187	
16,300.00	7,618.00	7,966.10	7,696.49	134.84	40.43	91.69	-7,469.02	3,627.68	3,248.00	3,073.67	174.33	18.631	
16,400.00	7,618.00	7,965.68	7,696.07	135.72	40.43	91.67	-7,469.02	3,627.67	3,166.39	2,991.28	175.10	18.083	
16,500.00	7,618.00	7,965.26	7,695.64	136.63	40.43	91.66	-7,469.02	3,627.66	3,085.85	2,909.97	175.89	17.545	
16,600.00	7,618.00	7,964.84	7,695.23	137.57	40.43	91.65	-7,469.03	3,627.65	3,006.49	2,829.80	176.69	17.016	
16,700.00	7,618.00	7,964.42	7,694.81	138.54	40.43	91.63	-7,469.03	3,627.64	2,928.39	2,750.89	177.50	16.498	
16,800.00	7,618.00	7,964.01	7,694.39	139.53	40.42	91.62	-7,469.03	3,627.63	2,851.66	2,673.34	178.32	15.992	
16,900.00	7,618.00	7,963.59	7,693.98	140.55	40.42	91.61	-7,469.03	3,627.62	2,776.41	2,597.27	179.14	15.499	
17,000.00	7,618.00	7,963.18	7,693.57	141.60	40.42	91.59	-7,469.03	3,627.61	2,702.76	2,522.80	179.96	15.019	
17,100.00	7,618.00	7,962.78	7,693.16	142.67	40.42	91.58	-7,469.03	3,627.60	2,630.86	2,450.08	180.78	14.553	
17,200.00	7,618.00	7,962.37	7,692.76	143.77	40.42	91.57	-7,469.04	3,627.59	2,560.84	2,379.26	181.58	14.103	
17,300.00	7,618.00	7,961.97	7,692.35	144.88	40.42	91.56	-7,469.04	3,627.59	2,492.86	2,310.51	182.35	13.671	
17,400.00	7,618.00	7,961.56	7,691.95	146.02	40.42	91.54	-7,469.04	3,627.58	2,427.11	2,244.02	183.09	13.257	
17,500.00	7,618.00	7,961.16	7,691.55	147.19	40.42	91.53	-7,469.04	3,627.57	2,363.76	2,179.98	183.78	12.862	
17,600.00	7,618.00	7,960.77	7,691.15	148.37	40.42	91.52	-7,469.04	3,627.56	2,303.00	2,118.60	184.41	12.489	
17,700.00	7,618.00	7,960.37	7,690.76	149.57	40.41	91.51	-7,469.04	3,627.55	2,245.06	2,060.11	184.95	12.139	
17,800.00	7,618.00	7,959.98	7,690.37	150.79	40.41	91.50	-7,469.05	3,627.54	2,190.16	2,004.75	185.41	11.813	
17,900.00	7,618.00	7,959.59	7,689.97	152.03	40.41	91.48	-7,469.05	3,627.53	2,138.52	1,952.78	185.74	11.513	
18,000.00	7,618.00	7,959.20	7,689.59	153.29	40.41	91.47	-7,469.05	3,627.52	2,090.39	1,904.46	185.94	11.242	
18,100.00	7,618.00	7,958.81	7,689.20	154.57	40.41	91.46	-7,469.05	3,627.51	2,046.03	1,860.05	185.98	11.001	
18,200.00	7,618.00	7,958.42	7,688.81	155.86	40.41	91.45	-7,469.05	3,627.50	2,005.67	1,819.83	185.84	10.792	
18,300.00	7,618.00	7,958.04	7,688.43	157.17	40.41	91.44	-7,469.05	3,627.49	1,969.57	1,784.05	185.51	10.617	
18,400.00	7,618.00	7,957.66	7,688.05	158.49	40.41	91.42	-7,469.06	3,627.48	1,937.96	1,752.99	184.97	10.477	
18,500.00	7,618.00	7,957.28	7,687.67	159.82	40.41	91.41	-7,469.06	3,627.47	1,911.06	1,726.86	184.20	10.375	
18,600.00	7,618.00	7,956.90	7,687.29	161.17	40.40	91.40	-7,469.06	3,627.47	1,889.08	1,705.88	183.21	10.311	
18,700.00	7,618.00	7,956.53	7,686.92	162.54	40.40	91.39	-7,469.06	3,627.46	1,872.19	1,690.21	181.98	10.288	SF
18,800.00	7,618.00	7,956.15	7,686.54	163.91	40.40	91.38	-7,469.06	3,627.45	1,860.54	1,680.00	180.53	10.306	
18,900.00	7,618.00	7,955.78	7,686.17	165.30	40.40	91.37	-7,469.06	3,627.44	1,854.20	1,675.33	178.88	10.366	
18,967.61	7,618.00	7,955.53	7,685.92	166.24	40.40	91.36	-7,469.06	3,627.43	1,852.97	1,675.32	177.65	10.430	CC, ES
19,000.00	7,618.00	7,955.41	7,685.80	166.70	40.40	91.35	-7,469.06	3,627.43	1,853.25	1,676.22	177.03	10.468	
19,100.00	7,618.00	7,955.04	7,685.43	168.10	40.40	91.34	-7,469.07	3,627.42	1,857.69	1,682.66	175.03	10.614	
19,200.00	7,618.00	7,954.68	7,685.07	169.52	40.40	91.33	-7,469.07	3,627.41	1,867.49	1,694.59	172.90	10.801	
19,300.00	7,618.00	7,954.31	7,684.70	170.95	40.40	91.32	-7,469.07	3,627.40	1,882.55	1,711.88	170.67	11.031	
19,400.00	7,618.00	7,953.95	7,684.34	172.39	40.40	91.31	-7,469.07	3,627.40	1,902.75	1,734.37	168.38	11.300	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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

Survey Program: 74-MWD OWSG

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
19,500.00	7,618.00	7,953.59	7,683.98	173.84	40.40	91.30	-7,469.07	3,627.39	1,927.94	1,761.87	166.06	11.610	
19,600.00	7,618.00	7,953.23	7,683.62	175.30	40.40	91.29	-7,469.07	3,627.38	1,957.91	1,794.16	163.75	11.957	
19,700.00	7,618.00	7,952.87	7,683.26	176.76	40.39	91.28	-7,469.07	3,627.37	1,992.46	1,830.99	161.47	12.339	
19,800.00	7,618.00	7,952.52	7,682.91	178.24	40.39	91.27	-7,469.08	3,627.36	2,031.35	1,872.10	159.25	12.756	
19,896.19	7,618.00	7,952.18	7,682.57	179.66	40.39	91.25	-7,469.08	3,627.35	2,072.62	1,915.43	157.19	13.186	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	162.74	-5,369.55	1,668.34	5,622.77				
100.00	100.00	51.40	51.39	0.13	0.08	162.74	-5,369.80	1,668.21	5,623.12	5,622.90	0.22	N/A	
200.00	200.00	160.24	160.22	0.49	0.39	162.76	-5,371.26	1,667.20	5,624.16	5,623.27	0.88	6,372.420	
300.00	299.98	253.77	253.74	0.85	0.73	93.46	-5,372.16	1,665.98	5,624.80	5,623.23	1.57	3,577.436	
400.00	399.84	347.72	347.67	1.21	1.06	93.50	-5,373.33	1,664.75	5,625.92	5,623.65	2.27	2,479.534	
500.00	499.45	409.81	409.75	1.58	1.29	93.53	-5,374.35	1,663.66	5,627.56	5,624.69	2.87	1,963.890	
600.00	598.70	456.00	455.90	1.97	1.46	93.55	-5,375.64	1,662.34	5,630.23	5,626.81	3.42	1,644.662	
700.00	697.47	508.79	508.60	2.38	1.65	93.59	-5,377.75	1,660.30	5,634.03	5,629.99	4.03	1,397.374	
800.00	795.62	549.00	548.72	2.83	1.80	93.59	-5,379.85	1,658.41	5,639.03	5,634.41	4.62	1,219.563	
900.00	893.06	594.88	594.44	3.31	1.98	93.60	-5,382.77	1,655.96	5,645.28	5,640.01	5.27	1,070.232	
1,000.00	989.64	640.00	639.35	3.83	2.15	93.60	-5,386.22	1,653.31	5,652.84	5,646.88	5.96	947.995	
1,100.00	1,085.27	675.11	674.25	4.40	2.29	93.56	-5,389.29	1,651.09	5,661.71	5,655.05	6.66	850.042	
1,200.00	1,179.82	732.00	730.72	5.02	2.51	93.59	-5,395.00	1,647.14	5,671.97	5,664.48	7.49	757.197	
1,300.00	1,273.17	732.00	730.72	5.70	2.51	93.36	-5,395.00	1,647.14	5,683.52	5,675.37	8.15	697.274	
1,400.00	1,365.21	786.77	784.95	6.43	2.74	93.37	-5,401.36	1,642.90	5,696.37	5,687.29	9.08	627.016	
1,500.00	1,455.84	825.00	822.72	7.23	2.89	93.28	-5,406.34	1,639.66	5,710.70	5,700.69	10.01	570.548	
1,600.00	1,544.94	856.83	854.10	8.09	3.03	93.15	-5,410.80	1,636.77	5,726.43	5,715.46	10.97	521.992	
1,700.00	1,632.39	891.44	888.16	9.01	3.18	93.01	-5,415.97	1,633.37	5,743.55	5,731.55	12.00	478.510	
1,800.00	1,718.11	919.00	915.21	10.00	3.30	92.81	-5,420.32	1,630.48	5,762.09	5,749.02	13.07	440.998	
1,900.00	1,801.97	964.95	960.23	11.07	3.52	92.71	-5,427.95	1,625.31	5,781.97	5,767.69	14.28	404.976	
2,000.00	1,883.88	1,012.00	1,006.19	12.20	3.74	92.61	-5,436.18	1,619.56	5,803.22	5,787.66	15.56	373.075	
2,100.00	1,963.74	1,012.00	1,006.19	13.41	3.74	92.14	-5,436.18	1,619.56	5,825.90	5,809.22	16.68	349.268	
2,200.00	2,041.45	1,056.68	1,049.69	14.69	3.96	91.99	-5,444.49	1,613.62	5,849.91	5,831.83	18.08	323.578	
2,300.00	2,116.92	1,080.39	1,072.69	16.05	4.07	91.65	-5,449.14	1,610.25	5,875.45	5,856.02	19.43	302.347	
2,357.48	2,159.25	1,106.00	1,097.48	16.86	4.20	91.54	-5,454.36	1,606.44	5,890.83	5,870.54	20.30	290.259	
2,400.00	2,190.27	1,106.00	1,097.48	17.47	4.20	91.54	-5,454.36	1,606.44	5,902.45	5,881.60	20.85	283.128	
2,500.00	2,263.22	1,169.15	1,158.48	18.92	4.53	92.06	-5,467.38	1,596.62	5,930.63	5,908.17	22.47	263.989	
2,600.00	2,336.18	1,200.00	1,188.27	20.37	4.69	92.31	-5,473.69	1,591.68	5,959.79	5,935.88	23.92	249.180	
2,700.00	2,409.14	1,232.00	1,219.14	21.84	4.86	92.57	-5,480.41	1,586.57	5,990.24	5,964.87	25.37	236.121	
2,800.00	2,482.09	1,257.49	1,243.71	23.31	5.00	92.78	-5,485.93	1,582.65	6,022.01	5,995.23	26.78	224.895	
2,900.00	2,555.05	1,296.53	1,281.39	24.78	5.21	93.10	-5,494.46	1,577.02	6,054.92	6,026.68	28.25	214.370	
3,000.00	2,628.01	1,430.03	1,410.69	26.27	5.92	94.16	-5,522.79	1,559.67	6,088.42	6,058.23	30.19	201.639	
3,100.00	2,700.96	1,500.02	1,478.56	27.75	6.29	94.72	-5,537.19	1,550.43	6,122.49	6,090.69	31.80	192.512	
3,200.00	2,773.92	1,529.62	1,507.22	29.24	6.46	94.95	-5,543.34	1,546.35	6,157.56	6,124.37	33.19	185.518	
3,300.00	2,846.88	1,563.61	1,540.09	30.73	6.64	95.22	-5,550.51	1,541.52	6,193.73	6,159.15	34.59	179.076	
3,400.00	2,919.83	1,584.00	1,559.79	32.23	6.75	95.38	-5,554.87	1,538.54	6,231.02	6,195.12	35.89	173.593	
3,500.00	2,992.79	1,626.67	1,600.96	33.72	6.99	95.72	-5,564.16	1,532.26	6,269.36	6,232.05	37.31	168.036	
3,600.00	3,065.75	1,657.11	1,630.29	35.22	7.16	95.96	-5,570.93	1,527.78	6,308.80	6,270.16	38.64	163.265	
3,700.00	3,138.71	1,704.56	1,675.99	36.72	7.43	96.33	-5,581.65	1,520.80	6,349.28	6,309.23	40.05	158.524	
3,800.00	3,211.66	1,937.84	1,901.53	38.22	8.72	98.14	-5,631.43	1,488.11	6,390.06	6,347.58	42.48	150.427	
3,900.00	3,284.62	2,114.41	2,073.25	39.72	9.67	99.48	-5,664.59	1,463.87	6,429.70	6,385.14	44.56	144.288	
4,000.00	3,357.58	2,147.00	2,104.99	41.22	9.84	99.72	-5,670.46	1,459.39	6,469.98	6,424.13	45.85	141.100	
4,100.00	3,430.53	2,189.29	2,146.14	42.73	10.06	100.04	-5,678.20	1,453.46	6,511.19	6,464.00	47.18	137.996	
4,200.00	3,503.49	2,216.20	2,172.28	44.23	10.21	100.24	-5,683.27	1,449.61	6,553.46	6,505.05	48.41	135.366	
4,300.00	3,576.45	2,240.00	2,195.38	45.74	10.34	100.42	-5,687.86	1,446.14	6,596.75	6,547.15	49.61	132.979	
4,400.00	3,649.40	2,285.22	2,239.25	47.25	10.58	100.76	-5,696.74	1,439.73	6,640.96	6,590.06	50.90	130.462	
4,500.00	3,722.36	2,326.94	2,279.75	48.75	10.81	101.07	-5,705.08	1,434.21	6,686.02	6,633.86	52.17	128.170	
4,600.00	3,795.32	2,407.26	2,357.77	50.26	11.24	101.65	-5,721.16	1,423.79	6,731.77	6,678.14	53.63	125.526	
4,700.00	3,868.27	4,700.00	2,455.83	51.77	23.53	102.39	-5,740.60	1,410.44	6,777.69	6,713.20	64.49	105.103	
4,800.00	3,941.23	2,566.44	2,512.58	53.28	12.10	102.80	-5,751.66	1,402.83	6,824.16	6,767.66	56.50	120.776	
4,900.00	4,014.19	2,598.15	2,543.40	54.79	12.27	103.03	-5,757.79	1,398.63	6,871.52	6,813.87	57.65	119.198	
5,000.00	4,087.15	2,640.73	2,584.76	56.30	12.50	103.34	-5,766.16	1,392.89	6,919.71	6,860.87	58.84	117.602	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,160.10	5,100.00	2,901.00	57.81	24.91	105.61	-5,824.78	1,350.74	6,968.10	6,897.73	70.37	99.020	
5,200.00	4,233.06	3,086.89	3,020.36	59.32	14.80	106.44	-5,843.82	1,336.23	7,014.95	6,951.77	63.18	111.034	
5,300.00	4,306.02	3,084.00	3,017.53	60.83	14.79	106.42	-5,843.38	1,336.57	7,062.52	6,998.43	64.09	110.195	
5,400.00	4,378.97	3,124.51	3,057.24	62.34	14.99	106.69	-5,849.84	1,331.86	7,110.82	7,045.60	65.22	109.026	
5,500.00	4,451.93	3,144.23	3,076.55	63.85	15.09	106.82	-5,853.15	1,329.57	7,160.12	7,093.90	66.22	108.122	
5,600.00	4,524.89	3,178.00	3,109.56	65.36	15.26	107.05	-5,859.08	1,325.64	7,210.35	7,143.07	67.29	107.160	
5,700.00	4,597.84	3,178.00	3,109.56	66.88	15.26	107.05	-5,859.08	1,325.64	7,261.38	7,193.23	68.14	106.561	
5,800.00	4,670.80	3,219.77	3,150.33	68.39	15.48	107.32	-5,866.71	1,320.75	7,313.19	7,243.97	69.22	105.648	
5,900.00	4,743.76	3,252.35	3,182.11	69.90	15.65	107.54	-5,872.78	1,316.87	7,365.75	7,295.52	70.23	104.874	
6,000.00	4,816.71	3,286.18	3,215.07	71.41	15.83	107.76	-5,879.19	1,312.78	7,419.02	7,347.78	71.24	104.141	
6,100.00	4,889.67	3,321.72	3,249.66	72.93	16.02	108.00	-5,885.97	1,308.25	7,472.98	7,400.73	72.24	103.443	
6,200.00	4,962.63	3,365.00	3,291.73	74.44	16.25	108.28	-5,894.28	1,302.36	7,527.61	7,454.34	73.28	102.730	
6,300.00	5,035.59	3,389.52	3,315.54	75.95	16.38	108.44	-5,899.03	1,298.91	7,582.90	7,508.71	74.18	102.217	
6,400.00	5,108.54	3,422.00	3,347.06	77.47	16.56	108.66	-5,905.43	1,294.38	7,638.86	7,563.73	75.13	101.679	
6,500.00	5,181.50	3,459.00	3,382.94	78.98	16.76	108.90	-5,912.86	1,289.26	7,695.47	7,619.39	76.08	101.143	
6,600.00	5,254.46	3,459.00	3,382.94	80.49	16.76	108.90	-5,912.86	1,289.26	7,752.81	7,676.01	76.80	100.947	
6,700.00	5,327.41	3,492.49	3,415.37	82.01	16.95	109.12	-5,919.83	1,284.70	7,810.77	7,733.06	77.71	100.511	
6,800.00	5,400.37	5,580.70	5,473.05	83.52	25.30	120.58	-6,136.61	1,149.40	7,864.69	7,776.17	88.52	88.846	
6,900.00	5,473.33	5,664.23	5,556.57	85.04	25.50	120.97	-6,135.79	1,149.74	7,906.75	7,817.08	89.67	88.175	
7,000.00	5,546.28	5,759.18	5,651.52	86.55	25.73	121.42	-6,134.63	1,149.98	7,949.05	7,858.20	90.85	87.497	
7,100.00	5,619.24	5,851.99	5,744.32	88.06	25.95	121.85	-6,133.23	1,150.33	7,991.45	7,899.44	92.01	86.850	
7,200.00	5,692.20	5,934.88	5,827.19	89.58	26.16	122.23	-6,131.81	1,150.52	8,034.10	7,940.97	93.14	86.261	
7,300.00	5,765.15	6,011.78	5,904.08	91.09	26.35	122.58	-6,130.36	1,150.58	8,077.02	7,982.79	94.23	85.713	
7,400.00	5,838.11	6,077.38	5,969.67	92.61	26.51	122.88	-6,129.11	1,150.49	8,120.32	8,025.04	95.28	85.222	
7,500.00	5,911.07	6,155.99	6,048.26	94.12	26.71	123.24	-6,127.58	1,150.23	8,163.97	8,067.60	96.37	84.715	
7,600.00	5,984.03	6,243.25	6,135.50	95.64	26.93	123.63	-6,125.75	1,149.89	8,207.87	8,110.40	97.48	84.205	
7,700.00	6,056.98	6,319.26	6,211.49	97.15	27.13	123.97	-6,124.05	1,149.63	8,252.00	8,153.46	98.54	83.746	
7,800.00	6,129.94	6,399.18	6,291.40	98.67	27.34	124.33	-6,122.25	1,149.29	8,296.46	8,196.86	99.60	83.297	
7,900.00	6,202.90	6,499.68	6,391.86	100.18	27.60	124.77	-6,119.71	1,148.84	8,341.06	8,240.33	100.73	82.808	
8,000.00	6,275.85	6,589.26	6,481.41	101.70	27.83	125.16	-6,117.26	1,148.66	8,385.75	8,283.95	101.81	82.367	
8,100.00	6,348.81	6,661.56	6,553.68	103.21	28.02	125.48	-6,115.36	1,148.87	8,430.70	8,327.88	102.83	81.990	
8,200.00	6,421.77	6,718.63	6,610.73	104.73	28.16	125.72	-6,113.99	1,149.13	8,476.05	8,372.26	103.78	81.670	
8,300.00	6,494.72	6,786.41	6,678.49	106.24	28.34	126.01	-6,112.47	1,149.45	8,521.80	8,417.03	104.77	81.337	
8,400.00	6,567.68	6,853.44	6,745.51	107.76	28.52	126.29	-6,110.99	1,149.78	8,567.86	8,462.11	105.75	81.021	
8,500.00	6,640.64	6,907.45	6,799.50	109.27	28.66	126.51	-6,109.88	1,149.97	8,614.33	8,507.66	106.67	80.755	
8,600.00	6,713.59	7,003.92	6,895.95	110.79	28.92	126.91	-6,107.97	1,150.35	8,661.14	8,553.40	107.74	80.389	
8,700.00	6,786.55	7,085.75	6,977.77	112.30	29.14	127.25	-6,106.23	1,151.00	8,707.99	8,599.24	108.75	80.073	
8,800.00	6,859.51	7,168.27	7,060.26	113.82	29.36	127.58	-6,104.48	1,151.71	8,755.09	8,645.33	109.76	79.768	
8,900.00	6,932.46	7,243.89	7,135.86	115.33	29.56	127.88	-6,102.80	1,152.42	8,802.36	8,691.62	110.73	79.492	
9,000.00	7,005.42	7,308.50	7,200.45	116.85	29.73	128.14	-6,101.48	1,153.12	8,849.95	8,738.29	111.66	79.258	
9,104.89	7,081.95	7,442.91	7,334.82	118.44	30.09	128.67	-6,098.52	1,154.87	8,899.99	8,787.12	112.87	78.848	
9,150.00	7,115.15	7,516.76	7,408.63	119.12	30.29	123.32	-6,096.59	1,156.22	8,919.91	8,806.45	113.47	78.614	
9,200.00	7,152.46	7,575.56	7,467.39	119.86	30.45	117.24	-6,094.99	1,157.59	8,938.45	8,824.39	114.06	78.365	
9,250.00	7,190.04	7,630.00	7,521.79	120.57	30.59	111.20	-6,093.51	1,159.12	8,953.18	8,838.52	114.66	78.082	
9,300.00	7,227.59	7,683.14	7,574.89	121.25	30.74	105.33	-6,092.07	1,160.83	8,964.03	8,848.75	115.28	77.760	
9,350.00	7,264.83	7,727.88	7,619.59	121.89	30.85	99.74	-6,090.83	1,162.34	8,970.94	8,855.07	115.87	77.422	
9,400.00	7,301.48	7,771.52	7,663.18	122.48	30.97	94.60	-6,089.57	1,163.76	8,973.90	8,857.44	116.46	77.056	
9,450.00	7,337.26	7,776.00	7,667.66	123.01	30.98	89.82	-6,089.43	1,163.90	8,972.97	8,856.07	116.90	76.758	
9,500.00	7,371.90	7,803.84	7,695.47	123.49	31.06	85.73	-6,088.64	1,164.72	8,968.16	8,850.75	117.42	76.380	
9,550.00	7,405.13	7,817.58	7,709.21	123.91	31.10	82.20	-6,088.27	1,165.07	8,959.59	8,841.73	117.86	76.017	
9,600.00	7,436.70	8,137.23	8,028.39	124.27	31.95	80.87	-6,075.99	1,175.94	8,947.02	8,827.64	119.39	74.942	
9,650.00	7,466.36	8,156.00	8,047.11	124.57	32.00	78.71	-6,075.06	1,176.83	8,930.06	8,810.25	119.81	74.534	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,700.00	7,493.91	8,156.00	8,047.11	124.81	32.00	77.07	-6,075.06	1,176.83	8,909.65	8,789.51	120.14	74.158	
9,750.00	7,519.11	8,156.00	8,047.11	125.00	32.00	76.06	-6,075.06	1,176.83	8,885.95	8,765.51	120.45	73.776	
9,800.00	7,541.79	8,156.00	8,047.11	125.12	32.00	75.67	-6,075.06	1,176.83	8,859.12	8,738.41	120.72	73.389	
9,850.00	7,561.77	8,188.38	8,079.42	125.20	32.08	76.19	-6,073.53	1,178.24	8,829.18	8,708.11	121.07	72.927	
9,900.00	7,578.90	8,194.04	8,085.08	125.23	32.10	77.25	-6,073.27	1,178.46	8,796.57	8,675.28	121.29	72.522	
9,950.00	7,593.04	8,198.57	8,089.59	125.22	32.11	79.09	-6,073.06	1,178.63	8,761.44	8,639.95	121.49	72.119	
10,000.00	7,604.09	8,201.92	8,092.94	125.17	32.12	81.82	-6,072.91	1,178.75	8,724.02	8,602.37	121.65	71.717	
10,050.00	7,611.97	8,204.08	8,095.09	125.08	32.13	85.60	-6,072.82	1,178.83	8,684.56	8,562.79	121.77	71.317	
10,100.00	7,616.61	8,205.01	8,096.03	124.97	32.13	90.59	-6,072.78	1,178.86	8,643.36	8,521.49	121.87	70.920	
10,145.95	7,618.00	8,204.79	8,095.81	124.84	32.13	96.41	-6,072.79	1,178.86	8,604.20	8,482.25	121.95	70.557	
10,200.00	7,618.00	8,203.92	8,094.94	124.69	32.13	96.40	-6,072.83	1,178.82	8,557.55	8,435.53	122.02	70.133	
10,300.00	7,618.00	8,202.29	8,093.31	124.41	32.12	96.38	-6,072.90	1,178.77	8,471.46	8,349.30	122.16	69.348	
10,400.00	7,618.00	8,200.65	8,091.68	124.14	32.12	96.36	-6,072.97	1,178.71	8,385.69	8,263.38	122.30	68.564	
10,500.00	7,618.00	8,199.00	8,090.03	123.88	32.11	96.33	-6,073.04	1,178.64	8,300.23	8,177.77	122.45	67.782	
10,600.00	7,618.00	8,197.34	8,088.37	123.63	32.11	96.31	-6,073.12	1,178.58	8,215.09	8,092.48	122.61	67.001	
10,700.00	7,618.00	8,195.67	8,086.70	123.40	32.10	96.29	-6,073.19	1,178.52	8,130.30	8,007.52	122.78	66.221	
10,800.00	7,618.00	8,193.98	8,085.01	123.18	32.10	96.27	-6,073.27	1,178.45	8,045.85	7,922.91	122.95	65.442	
10,900.00	7,618.00	8,192.28	8,083.32	122.96	32.10	96.25	-6,073.35	1,178.39	7,961.77	7,838.64	123.12	64.664	
11,000.00	7,618.00	8,190.57	8,081.61	122.76	32.09	96.22	-6,073.43	1,178.32	7,878.05	7,754.74	123.31	63.889	
11,100.00	7,618.00	8,188.84	8,079.88	122.57	32.09	96.20	-6,073.50	1,178.25	7,794.72	7,671.22	123.50	63.114	
11,200.00	7,618.00	8,187.10	8,078.15	122.39	32.08	96.18	-6,073.58	1,178.19	7,711.78	7,588.08	123.70	62.342	
11,300.00	7,618.00	8,185.35	8,076.40	122.23	32.08	96.15	-6,073.66	1,178.11	7,629.25	7,505.34	123.91	61.571	
11,400.00	7,618.00	8,183.59	8,074.64	122.07	32.07	96.13	-6,073.75	1,178.04	7,547.15	7,423.02	124.13	60.802	
11,500.00	7,618.00	8,181.81	8,072.86	121.93	32.07	96.11	-6,073.83	1,177.97	7,465.47	7,341.12	124.35	60.035	
11,600.00	7,618.00	8,156.00	8,047.11	121.79	32.00	95.77	-6,075.06	1,176.83	7,384.35	7,259.87	124.49	59.319	
11,700.00	7,618.00	8,156.00	8,047.11	121.67	32.00	95.77	-6,075.06	1,176.83	7,303.58	7,178.85	124.73	58.553	
11,800.00	7,618.00	8,156.00	8,047.11	121.56	32.00	95.77	-6,075.06	1,176.83	7,223.29	7,098.29	124.99	57.789	
11,900.00	7,618.00	8,156.00	8,047.11	121.46	32.00	95.77	-6,075.06	1,176.83	7,143.50	7,018.23	125.26	57.028	
12,000.00	7,618.00	8,156.00	8,047.11	121.38	32.00	95.77	-6,075.06	1,176.83	7,064.22	6,938.67	125.54	56.269	
12,100.00	7,618.00	8,156.00	8,047.11	121.30	32.00	95.77	-6,075.06	1,176.83	6,985.47	6,859.64	125.83	55.514	
12,200.00	7,618.00	8,156.00	8,047.11	121.24	32.00	95.77	-6,075.06	1,176.83	6,907.27	6,781.14	126.13	54.761	
12,300.00	7,618.00	8,156.00	8,047.11	121.19	32.00	95.77	-6,075.06	1,176.83	6,829.64	6,703.20	126.45	54.012	
12,400.00	7,618.00	8,156.00	8,047.11	121.16	32.00	95.77	-6,075.06	1,176.83	6,752.60	6,625.83	126.77	53.266	
12,500.00	7,618.00	8,156.00	8,047.11	121.14	32.00	95.77	-6,075.06	1,176.83	6,676.17	6,549.07	127.11	52.524	
12,600.00	7,618.00	8,156.00	8,047.11	121.13	32.00	95.77	-6,075.06	1,176.83	6,600.37	6,472.92	127.45	51.786	
12,700.00	7,618.00	8,156.00	8,047.11	121.13	32.00	95.77	-6,075.06	1,176.83	6,525.22	6,397.41	127.82	51.052	
12,800.00	7,618.00	8,156.00	8,047.11	121.15	32.00	95.77	-6,075.06	1,176.83	6,450.75	6,322.56	128.19	50.322	
12,900.00	7,618.00	8,156.00	8,047.11	121.18	32.00	95.77	-6,075.06	1,176.83	6,376.97	6,248.40	128.58	49.597	
13,000.00	7,618.00	8,156.00	8,047.11	121.23	32.00	95.77	-6,075.06	1,176.83	6,303.92	6,174.95	128.98	48.877	
13,100.00	7,618.00	8,156.00	8,047.11	121.29	32.00	95.77	-6,075.06	1,176.83	6,231.62	6,102.23	129.39	48.162	
13,200.00	7,618.00	8,144.82	8,035.96	121.37	31.97	95.62	-6,075.61	1,176.30	6,160.07	6,030.31	129.76	47.472	
13,300.00	7,618.00	8,141.36	8,032.51	121.46	31.96	95.57	-6,075.79	1,176.14	6,089.33	5,959.15	130.19	46.774	
13,400.00	7,618.00	8,137.87	8,029.03	121.57	31.95	95.53	-6,075.96	1,175.97	6,019.42	5,888.80	130.62	46.082	
13,500.00	7,618.00	8,134.35	8,025.51	121.70	31.94	95.48	-6,076.14	1,175.80	5,950.37	5,819.29	131.08	45.396	
13,600.00	7,618.00	8,130.80	8,021.97	121.84	31.93	95.44	-6,076.32	1,175.63	5,882.20	5,750.66	131.54	44.716	
13,700.00	7,618.00	8,127.21	8,018.39	122.01	31.92	95.39	-6,076.50	1,175.46	5,814.95	5,682.92	132.03	44.044	
13,800.00	7,618.00	8,123.60	8,014.78	122.19	31.91	95.34	-6,076.68	1,175.28	5,748.65	5,616.13	132.52	43.379	
13,900.00	7,618.00	8,119.94	8,011.14	122.39	31.90	95.29	-6,076.87	1,175.11	5,683.33	5,550.30	133.03	42.721	
14,000.00	7,618.00	8,116.26	8,007.46	122.62	31.89	95.24	-6,077.06	1,174.93	5,619.03	5,485.47	133.56	42.072	
14,100.00	7,618.00	8,112.54	8,003.75	122.86	31.88	95.19	-6,077.25	1,174.75	5,555.78	5,421.68	134.10	41.430	
14,200.00	7,618.00	8,108.78	8,000.01	123.12	31.88	95.14	-6,077.45	1,174.56	5,493.62	5,358.96	134.65	40.798	
14,300.00	7,618.00	8,104.99	7,996.22	123.41	31.87	95.09	-6,077.65	1,174.38	5,432.58	5,297.36	135.22	40.175	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,400.00	7,618.00	8,101.16	7,992.41	123.72	31.86	95.04	-6,077.85	1,174.19	5,372.71	5,236.91	135.81	39.561	
14,500.00	7,618.00	8,097.30	7,988.55	124.06	31.85	94.99	-6,078.05	1,174.00	5,314.05	5,177.64	136.41	38.958	
14,600.00	7,618.00	8,093.40	7,984.66	124.42	31.84	94.94	-6,078.26	1,173.80	5,256.63	5,119.61	137.02	38.365	
14,700.00	7,618.00	7,872.00	7,763.60	124.80	31.24	92.01	-6,086.97	1,166.15	5,200.53	5,064.23	136.30	38.154	
14,800.00	7,618.00	7,872.00	7,763.60	125.21	31.24	92.01	-6,086.97	1,166.15	5,145.56	5,008.61	136.95	37.572	
14,900.00	7,618.00	7,872.00	7,763.60	125.65	31.24	92.01	-6,086.97	1,166.15	5,091.96	4,954.34	137.62	37.001	
15,000.00	7,618.00	7,872.00	7,763.60	126.11	31.24	92.01	-6,086.97	1,166.15	5,039.77	4,901.48	138.29	36.444	
15,100.00	7,618.00	7,872.00	7,763.60	126.61	31.24	92.01	-6,086.97	1,166.15	4,989.04	4,850.06	138.98	35.899	
15,200.00	7,618.00	7,872.00	7,763.60	127.13	31.24	92.01	-6,086.97	1,166.15	4,939.81	4,800.14	139.67	35.367	
15,300.00	7,618.00	7,852.77	7,744.37	127.68	31.19	91.76	-6,087.40	1,165.83	4,892.06	4,751.81	140.25	34.882	
15,400.00	7,618.00	7,851.58	7,743.18	128.26	31.19	91.74	-6,087.43	1,165.80	4,845.97	4,705.01	140.95	34.380	
15,500.00	7,618.00	7,850.38	7,741.98	128.87	31.19	91.72	-6,087.46	1,165.78	4,801.51	4,659.85	141.66	33.894	
15,600.00	7,618.00	7,849.16	7,740.77	129.51	31.18	91.71	-6,087.48	1,165.76	4,758.75	4,616.36	142.38	33.422	
15,700.00	7,618.00	7,847.94	7,739.55	130.18	31.18	91.69	-6,087.51	1,165.74	4,717.71	4,574.60	143.11	32.967	
15,800.00	7,618.00	7,846.71	7,738.31	130.88	31.18	91.68	-6,087.54	1,165.71	4,678.45	4,534.62	143.83	32.527	
15,900.00	7,618.00	7,845.46	7,737.07	131.61	31.17	91.66	-6,087.57	1,165.69	4,641.02	4,496.46	144.56	32.105	
16,000.00	7,618.00	7,844.20	7,735.81	132.37	31.17	91.64	-6,087.60	1,165.66	4,605.45	4,460.16	145.29	31.699	
16,100.00	7,618.00	7,842.93	7,734.54	133.17	31.17	91.63	-6,087.63	1,165.64	4,571.79	4,425.78	146.01	31.312	
16,200.00	7,618.00	7,841.65	7,733.26	133.99	31.16	91.61	-6,087.66	1,165.61	4,540.08	4,393.36	146.73	30.942	
16,300.00	7,618.00	7,840.36	7,731.97	134.84	31.16	91.59	-6,087.69	1,165.58	4,510.37	4,362.93	147.44	30.591	
16,400.00	7,618.00	7,839.05	7,730.66	135.72	31.15	91.57	-6,087.73	1,165.56	4,482.69	4,334.55	148.15	30.259	
16,500.00	7,618.00	7,837.73	7,729.35	136.63	31.15	91.56	-6,087.76	1,165.53	4,457.09	4,308.25	148.84	29.946	
16,600.00	7,618.00	7,836.40	7,728.02	137.57	31.15	91.54	-6,087.79	1,165.50	4,433.59	4,284.07	149.52	29.652	
16,700.00	7,618.00	7,835.06	7,726.67	138.54	31.14	91.52	-6,087.82	1,165.47	4,412.23	4,262.04	150.19	29.379	
16,800.00	7,618.00	7,833.70	7,725.32	139.53	31.14	91.50	-6,087.86	1,165.44	4,393.04	4,242.21	150.83	29.125	
16,900.00	7,618.00	7,832.33	7,723.95	140.55	31.14	91.48	-6,087.89	1,165.41	4,376.06	4,224.60	151.46	28.892	
17,000.00	7,618.00	7,830.95	7,722.56	141.60	31.13	91.47	-6,087.93	1,165.38	4,361.30	4,209.23	152.07	28.680	
17,100.00	7,618.00	7,829.55	7,721.17	142.67	31.13	91.45	-6,087.96	1,165.35	4,348.79	4,196.14	152.65	28.488	
17,200.00	7,618.00	7,828.14	7,719.76	143.77	31.12	91.43	-6,088.00	1,165.32	4,338.55	4,185.34	153.21	28.317	
17,300.00	7,618.00	7,826.71	7,718.33	144.88	31.12	91.41	-6,088.03	1,165.29	4,330.59	4,176.85	153.74	28.167	
17,400.00	7,618.00	7,825.28	7,716.89	146.02	31.12	91.39	-6,088.07	1,165.25	4,324.94	4,170.69	154.25	28.039	
17,500.00	7,618.00	7,823.82	7,715.44	147.19	31.11	91.37	-6,088.11	1,165.22	4,321.58	4,166.86	154.72	27.932	
17,594.99	7,618.00	7,822.43	7,714.05	148.31	31.11	91.35	-6,088.14	1,165.19	4,320.54	4,165.40	155.14	27.849 CC	
17,600.00	7,618.00	7,822.35	7,713.97	148.37	31.11	91.35	-6,088.14	1,165.19	4,320.54	4,165.38	155.16	27.845 ES	
17,700.00	7,618.00	7,820.87	7,712.49	149.57	31.11	91.33	-6,088.18	1,165.15	4,321.82	4,166.25	155.57	27.781	
17,800.00	7,618.00	7,819.37	7,710.99	150.79	31.10	91.31	-6,088.22	1,165.11	4,325.40	4,169.45	155.94	27.737	
17,900.00	7,618.00	7,817.86	7,709.48	152.03	31.10	91.29	-6,088.26	1,165.08	4,331.29	4,175.00	156.28	27.714	
18,000.00	7,618.00	7,816.33	7,707.95	153.29	31.09	91.27	-6,088.30	1,165.04	4,339.47	4,182.88	156.59	27.712 SF	
18,100.00	7,618.00	7,814.78	7,706.41	154.57	31.09	91.25	-6,088.34	1,165.00	4,349.94	4,193.08	156.86	27.732	
18,200.00	7,618.00	7,813.22	7,704.85	155.86	31.08	91.23	-6,088.38	1,164.96	4,362.68	4,205.58	157.09	27.771	
18,300.00	7,618.00	7,811.64	7,703.27	157.17	31.08	91.21	-6,088.42	1,164.92	4,377.66	4,220.37	157.29	27.831	
18,400.00	7,618.00	7,810.05	7,701.68	158.49	31.08	91.19	-6,088.47	1,164.88	4,394.87	4,237.41	157.46	27.912	
18,500.00	7,618.00	7,808.44	7,700.07	159.82	31.07	91.17	-6,088.51	1,164.84	4,414.27	4,256.69	157.58	28.012	
18,600.00	7,618.00	7,806.81	7,698.44	161.17	31.07	91.15	-6,088.56	1,164.80	4,435.84	4,278.16	157.68	28.132	
18,700.00	7,618.00	7,805.16	7,696.79	162.54	31.06	91.12	-6,088.60	1,164.75	4,459.55	4,301.81	157.74	28.272	
18,800.00	7,618.00	7,803.50	7,695.13	163.91	31.06	91.10	-6,088.65	1,164.71	4,485.37	4,327.60	157.77	28.430	
18,900.00	7,618.00	7,801.81	7,693.45	165.30	31.05	91.08	-6,088.69	1,164.66	4,513.25	4,355.48	157.77	28.607	
19,000.00	7,618.00	7,800.11	7,691.75	166.70	31.05	91.06	-6,088.74	1,164.62	4,543.16	4,385.43	157.73	28.803	
19,100.00	7,618.00	7,798.40	7,690.03	168.10	31.04	91.03	-6,088.79	1,164.57	4,575.06	4,417.39	157.67	29.016	
19,200.00	7,618.00	7,796.66	7,688.30	169.52	31.04	91.01	-6,088.84	1,164.52	4,608.91	4,451.33	157.58	29.248	
19,300.00	7,618.00	7,794.90	7,686.54	170.95	31.03	90.99	-6,088.88	1,164.47	4,644.66	4,487.20	157.47	29.496	
19,400.00	7,618.00	7,793.13	7,684.77	172.39	31.03	90.96	-6,088.93	1,164.42	4,682.28	4,524.95	157.33	29.761	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,500.00	7,618.00	7,791.33	7,682.97	173.84	31.02	90.94	-6,088.99	1,164.37	4,721.72	4,564.55	157.16	30.043	
19,600.00	7,618.00	7,789.51	7,681.16	175.30	31.02	90.92	-6,089.04	1,164.31	4,762.92	4,605.94	156.98	30.341	
19,700.00	7,618.00	7,787.68	7,679.32	176.76	31.01	90.89	-6,089.09	1,164.26	4,805.86	4,649.08	156.77	30.655	
19,800.00	7,618.00	7,776.00	7,667.66	178.24	30.98	90.74	-6,089.43	1,163.90	4,850.48	4,693.99	156.49	30.996	
19,896.19	7,618.00	7,776.00	7,667.66	179.66	30.98	90.74	-6,089.43	1,163.90	4,894.94	4,738.67	156.27	31.324	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	162.77	-5,380.48	1,668.34	5,633.20				
100.00	100.00	110.19	110.19	0.13	0.21	162.77	-5,380.27	1,668.27	5,633.00	5,632.66	0.34	N/A	
177.86	177.86	172.86	172.86	0.41	0.43	162.77	-5,380.14	1,668.40	5,632.89	5,632.06	0.84	6,711.114	
200.00	200.00	185.00	185.00	0.49	0.47	162.77	-5,380.13	1,668.46	5,632.91	5,631.95	0.96	5,859.121	
300.00	299.98	228.07	228.06	0.85	0.62	93.44	-5,380.26	1,668.95	5,633.67	5,632.20	1.47	3,837.353	
400.00	399.84	274.00	273.98	1.21	0.78	93.42	-5,380.77	1,670.08	5,635.71	5,633.72	1.99	2,834.220	
500.00	499.45	308.42	308.37	1.58	0.91	93.37	-5,381.40	1,671.37	5,639.00	5,636.52	2.48	2,269.747	
600.00	598.70	365.00	364.84	1.97	1.11	93.33	-5,382.84	1,674.45	5,643.63	5,640.56	3.08	1,834.672	
700.00	697.47	365.00	364.84	2.38	1.11	93.21	-5,382.84	1,674.45	5,649.52	5,646.03	3.49	1,618.294	
800.00	795.62	422.92	422.58	2.83	1.32	93.14	-5,385.01	1,678.56	5,656.57	5,652.42	4.15	1,364.482	
900.00	893.06	456.00	455.51	3.31	1.45	93.03	-5,386.62	1,681.23	5,665.04	5,660.30	4.74	1,194.219	
1,000.00	989.64	501.32	500.55	3.83	1.62	92.92	-5,389.14	1,685.52	5,674.76	5,669.33	5.43	1,044.574	
1,100.00	1,085.27	549.00	547.82	4.40	1.81	92.80	-5,392.01	1,691.09	5,685.69	5,679.52	6.17	920.936	
1,200.00	1,179.82	580.09	578.57	5.02	1.94	92.62	-5,394.08	1,695.17	5,697.84	5,690.93	6.91	825.063	
1,300.00	1,273.17	640.00	637.70	5.70	2.19	92.51	-5,398.70	1,703.64	5,711.39	5,703.59	7.80	731.801	
1,400.00	1,365.21	640.00	637.70	6.43	2.19	92.21	-5,398.70	1,703.64	5,725.98	5,717.46	8.52	672.333	
1,500.00	1,455.84	690.09	686.99	7.23	2.42	92.05	-5,403.20	1,711.30	5,741.85	5,732.36	9.50	604.676	
1,600.00	1,544.94	732.00	728.14	8.09	2.60	91.84	-5,407.37	1,718.08	5,758.98	5,748.48	10.50	548.506	
1,700.00	1,632.39	760.08	755.64	9.01	2.74	91.57	-5,410.39	1,722.87	5,777.32	5,765.81	11.51	501.897	
1,800.00	1,718.11	792.16	786.99	10.00	2.89	91.30	-5,414.06	1,728.67	5,796.93	5,784.33	12.60	460.004	
1,900.00	1,801.97	825.00	818.97	11.07	3.05	91.01	-5,418.06	1,734.95	5,817.77	5,804.01	13.76	422.845	
2,000.00	1,883.88	860.15	853.10	12.20	3.23	90.71	-5,422.60	1,742.00	5,839.79	5,824.80	15.00	389.351	
2,100.00	1,963.74	919.00	910.05	13.41	3.54	90.51	-5,430.71	1,754.41	5,863.06	5,846.64	16.42	357.074	
2,200.00	2,041.45	938.70	929.06	14.69	3.65	90.11	-5,433.55	1,758.72	5,887.20	5,869.48	17.72	332.317	
2,300.00	2,116.92	993.87	982.24	16.05	3.95	89.88	-5,441.62	1,771.01	5,912.32	5,893.06	19.26	306.984	
2,357.48	2,159.25	1,013.00	1,000.65	16.86	4.05	89.67	-5,444.46	1,775.35	5,927.15	5,907.04	20.11	294.776	
2,400.00	2,190.27	1,043.16	1,029.66	17.47	4.23	89.84	-5,449.01	1,782.22	5,938.28	5,917.45	20.83	285.075	
2,500.00	2,263.22	1,089.39	1,074.10	18.92	4.49	90.09	-5,456.21	1,792.76	5,965.16	5,942.76	22.41	266.201	
2,600.00	2,336.18	1,138.89	1,121.63	20.37	4.77	90.36	-5,464.21	1,804.02	5,992.96	5,968.95	24.01	249.603	
2,700.00	2,409.14	1,200.00	1,180.27	21.84	5.13	90.69	-5,474.43	1,817.84	6,021.62	5,995.94	25.68	234.493	
2,800.00	2,482.09	1,234.79	1,213.64	23.31	5.34	90.87	-5,480.46	1,825.63	6,051.14	6,023.94	27.19	222.526	
2,900.00	2,555.05	2,900.00	1,370.59	24.78	14.99	91.76	-5,507.76	1,860.32	6,080.28	6,043.47	36.81	165.184	
3,000.00	2,628.01	1,446.66	1,417.74	26.27	6.56	92.03	-5,515.89	1,870.06	6,109.96	6,078.91	31.05	196.774	
3,100.00	2,700.96	1,490.00	1,459.56	27.75	6.81	92.27	-5,523.50	1,878.53	6,140.67	6,108.07	32.60	188.344	
3,200.00	2,773.92	1,517.09	1,485.67	29.24	6.96	92.42	-5,528.45	1,883.73	6,172.39	6,138.34	34.05	181.280	
3,300.00	2,846.88	1,548.76	1,516.18	30.73	7.14	92.60	-5,534.47	1,889.72	6,205.16	6,169.65	35.51	174.738	
3,400.00	2,919.83	1,584.00	1,550.10	32.23	7.35	92.79	-5,541.46	1,896.28	6,238.97	6,201.98	36.98	168.690	
3,500.00	2,992.79	1,620.35	1,585.04	33.72	7.56	93.00	-5,548.92	1,902.97	6,273.75	6,235.30	38.45	163.151	
3,600.00	3,065.75	1,678.00	1,640.39	35.22	7.90	93.32	-5,561.11	1,913.53	6,309.47	6,269.42	40.05	157.549	
3,700.00	3,138.71	1,721.68	1,682.30	36.72	8.16	93.56	-5,570.53	1,921.44	6,345.91	6,304.37	41.54	152.754	
3,800.00	3,211.66	2,147.00	2,093.98	38.22	10.51	95.94	-5,653.40	1,988.21	6,382.46	6,337.12	45.35	140.746	
3,900.00	3,284.62	2,193.70	2,139.61	39.72	10.75	96.21	-5,661.15	1,994.47	6,415.84	6,368.98	46.86	136.926	
4,000.00	3,357.58	2,240.00	2,184.76	41.22	10.99	96.47	-5,669.24	2,000.75	6,450.24	6,401.89	48.35	133.399	
4,100.00	3,430.53	2,312.61	2,255.52	42.73	11.37	96.87	-5,682.09	2,010.75	6,485.37	6,435.37	50.00	129.713	
4,200.00	3,503.49	2,367.05	2,308.58	44.23	11.65	97.17	-5,691.65	2,018.31	6,520.88	6,469.36	51.53	126.554	
4,300.00	3,576.45	2,407.35	2,347.84	45.74	11.86	97.40	-5,698.95	2,023.76	6,557.25	6,504.29	52.96	123.818	
4,400.00	3,649.40	2,497.80	2,435.94	47.25	12.34	97.90	-5,715.62	2,035.62	6,594.34	6,539.65	54.68	120.589	
4,500.00	3,722.36	2,568.80	2,505.15	48.75	12.71	98.29	-5,728.47	2,044.94	6,631.59	6,575.31	56.29	117.817	
4,600.00	3,795.32	2,615.00	2,550.12	50.26	12.95	98.53	-5,736.94	2,051.30	6,669.50	6,611.77	57.73	115.533	
4,700.00	3,868.27	2,660.08	2,593.91	51.77	13.20	98.77	-5,745.39	2,057.83	6,708.18	6,649.02	59.16	113.392	
4,800.00	3,941.23	4,800.00	2,682.75	53.28	25.30	99.25	-5,762.97	2,072.53	6,747.57	6,676.85	70.72	95.412	
4,900.00	4,014.19	2,860.48	2,787.94	54.79	14.32	99.80	-5,783.05	2,090.84	6,786.74	6,723.98	62.76	108.133	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,087.15	2,913.82	2,839.65	56.30	14.62	100.07	-5,792.96	2,099.44	6,826.41	6,762.17	64.24	106.270	
5,100.00	4,160.10	2,980.95	2,904.71	57.81	14.99	100.41	-5,805.57	2,110.13	6,866.61	6,800.82	65.79	104.366	
5,200.00	4,233.06	3,063.65	2,984.87	59.32	15.45	100.82	-5,821.12	2,123.21	6,907.22	6,839.77	67.45	102.404	
5,300.00	4,306.02	3,127.04	3,046.36	60.83	15.80	101.14	-5,833.03	2,132.98	6,948.18	6,879.22	68.96	100.755	
5,400.00	4,378.97	3,178.00	3,095.83	62.34	16.08	101.39	-5,842.72	2,140.43	6,989.72	6,919.35	70.37	99.323	
5,500.00	4,451.93	3,233.97	3,150.15	63.85	16.39	101.67	-5,853.53	2,148.54	7,031.86	6,960.05	71.81	97.923	
5,600.00	4,524.89	3,284.65	3,199.26	65.36	16.67	101.92	-5,863.52	2,156.12	7,074.62	7,001.42	73.20	96.647	
5,700.00	4,597.84	3,332.82	3,245.89	66.88	16.94	102.16	-5,873.18	2,163.35	7,118.00	7,043.44	74.56	95.461	
5,800.00	4,670.80	5,800.00	3,340.05	68.39	30.84	102.63	-5,892.74	2,178.09	7,161.74	7,074.11	87.63	81.725	
5,900.00	4,743.76	3,523.35	3,430.28	69.90	18.02	103.08	-5,911.13	2,192.69	7,205.47	7,127.50	77.97	92.408	
6,000.00	4,816.71	3,553.00	3,458.93	71.41	18.18	103.22	-5,917.03	2,197.52	7,249.75	7,170.56	79.18	91.560	
6,100.00	4,889.67	3,596.50	3,500.91	72.93	18.44	103.42	-5,925.92	2,204.68	7,294.70	7,214.22	80.48	90.635	
6,200.00	4,962.63	3,647.00	3,549.53	74.44	18.73	103.65	-5,936.74	2,212.96	7,340.56	7,258.73	81.83	89.703	
6,300.00	5,035.59	3,679.49	3,580.76	75.95	18.93	103.80	-5,943.86	2,218.41	7,386.99	7,303.96	83.03	88.966	
6,400.00	5,108.54	3,776.71	3,673.98	77.47	19.52	104.23	-5,965.05	2,236.11	7,433.63	7,348.87	84.76	87.701	
6,500.00	5,181.50	5,475.41	5,345.17	78.98	26.65	112.23	-6,136.37	2,397.37	7,476.83	7,381.66	95.17	78.561	
6,600.00	5,254.46	5,563.98	5,433.71	80.49	26.84	112.69	-6,134.09	2,396.61	7,507.60	7,411.08	96.53	77.778	
6,700.00	5,327.41	5,629.26	5,498.96	82.01	26.98	113.02	-6,132.38	2,395.76	7,538.89	7,441.08	97.81	77.078	
6,800.00	5,400.37	5,690.27	5,559.94	83.52	27.11	113.34	-6,130.85	2,394.81	7,570.77	7,471.71	99.07	76.421	
6,900.00	5,473.33	5,782.49	5,652.13	85.04	27.30	113.81	-6,128.51	2,393.31	7,603.15	7,502.76	100.39	75.739	
7,000.00	5,546.28	5,854.31	5,723.90	86.55	27.46	114.18	-6,126.54	2,392.26	7,635.84	7,534.20	101.65	75.121	
7,100.00	5,619.24	5,932.84	5,802.40	88.06	27.63	114.57	-6,124.46	2,391.13	7,669.07	7,566.16	102.91	74.521	
7,200.00	5,692.20	6,031.34	5,900.85	89.58	27.85	115.07	-6,121.56	2,389.74	7,702.54	7,598.32	104.21	73.911	
7,300.00	5,765.15	6,122.57	5,992.03	91.09	28.06	115.53	-6,118.65	2,388.48	7,736.30	7,630.82	105.49	73.339	
7,400.00	5,838.11	6,223.63	6,093.02	92.61	28.28	116.03	-6,115.14	2,387.26	7,770.30	7,663.53	106.78	72.773	
7,500.00	5,911.07	6,304.36	6,173.68	94.12	28.47	116.42	-6,112.10	2,386.34	7,804.52	7,696.52	108.00	72.263	
7,600.00	5,984.03	6,365.00	6,234.28	95.64	28.61	116.72	-6,109.89	2,385.73	7,839.26	7,730.10	109.17	71.810	
7,700.00	6,056.98	6,442.55	6,311.78	97.15	28.79	117.10	-6,107.17	2,385.19	7,874.48	7,764.11	110.37	71.348	
7,800.00	6,129.94	6,516.95	6,386.13	98.67	28.97	117.45	-6,104.62	2,385.07	7,910.09	7,798.54	111.55	70.908	
7,900.00	6,202.90	6,579.45	6,448.60	100.18	29.13	117.75	-6,102.58	2,385.32	7,946.15	7,833.44	112.70	70.506	
8,000.00	6,275.85	6,631.16	6,500.28	101.70	29.26	117.99	-6,101.06	2,385.66	7,982.79	7,868.98	113.81	70.142	
8,100.00	6,348.81	6,698.36	6,567.47	103.21	29.44	118.30	-6,099.24	2,386.17	8,019.98	7,905.03	114.95	69.768	
8,200.00	6,421.77	6,779.14	6,648.20	104.73	29.64	118.68	-6,097.00	2,386.55	8,057.55	7,941.43	116.12	69.389	
8,300.00	6,494.72	6,866.50	6,735.53	106.24	29.86	119.08	-6,094.21	2,386.17	8,095.41	7,978.12	117.29	69.022	
8,400.00	6,567.68	6,943.79	6,812.77	107.76	30.05	119.45	-6,091.49	2,385.29	8,133.55	8,015.15	118.41	68.692	
8,500.00	6,640.64	7,001.64	6,870.57	109.27	30.19	119.72	-6,089.44	2,384.35	8,172.16	8,052.71	119.45	68.412	
8,600.00	6,713.59	7,069.56	6,938.43	110.79	30.36	120.04	-6,087.07	2,383.06	8,211.27	8,090.75	120.52	68.133	
8,700.00	6,786.55	7,137.75	7,006.58	112.30	30.53	120.35	-6,084.72	2,381.86	8,250.77	8,129.20	121.57	67.867	
8,800.00	6,859.51	7,195.18	7,063.96	113.82	30.67	120.62	-6,082.83	2,380.84	8,290.76	8,168.18	122.59	67.633	
8,900.00	6,932.46	7,282.28	7,151.01	115.33	30.89	121.02	-6,080.04	2,379.41	8,331.16	8,207.49	123.67	67.363	
9,000.00	7,005.42	7,349.59	7,218.28	116.85	31.06	121.32	-6,077.86	2,378.56	8,371.82	8,247.12	124.70	67.136	
9,104.89	7,081.95	7,409.55	7,278.20	118.44	31.21	121.59	-6,076.02	2,377.76	8,415.00	8,289.27	125.73	66.928	
9,150.00	7,115.15	7,435.44	7,304.08	119.12	31.28	116.43	-6,075.26	2,377.39	8,432.16	8,305.98	126.18	66.824	
9,200.00	7,152.46	7,464.42	7,333.04	119.86	31.35	110.57	-6,074.43	2,376.97	8,447.57	8,320.86	126.71	66.670	
9,250.00	7,190.04	7,495.00	7,363.61	120.57	31.43	104.71	-6,073.58	2,376.50	8,459.07	8,331.81	127.25	66.474	
9,300.00	7,227.59	7,522.16	7,390.76	121.25	31.50	98.96	-6,072.84	2,376.07	8,466.59	8,338.79	127.80	66.249	
9,350.00	7,264.83	7,550.47	7,419.05	121.89	31.58	93.49	-6,072.09	2,375.60	8,470.10	8,341.75	128.35	65.990	
9,400.00	7,301.48	7,578.19	7,446.76	122.48	31.65	88.41	-6,071.38	2,375.10	8,469.58	8,340.68	128.90	65.705	
9,450.00	7,337.26	7,605.61	7,474.17	123.01	31.72	83.83	-6,070.69	2,374.59	8,465.04	8,335.59	129.44	65.396	
9,500.00	7,371.90	7,632.47	7,501.01	123.49	31.79	79.81	-6,070.06	2,374.13	8,456.51	8,326.54	129.97	65.067	
9,550.00	7,405.13	7,658.26	7,526.80	123.91	31.86	76.38	-6,069.49	2,373.73	8,444.05	8,313.59	130.47	64.721	
9,600.00	7,436.70	9,600.00	7,652.22	124.27	37.48	74.10	-6,066.74	2,374.94	8,427.17	8,290.36	136.81	61.598	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	7,940.87	7,809.21	124.57	32.67	72.69	-6,062.99	2,379.28	8,406.85	8,274.59	132.25	63.567	
9,700.00	7,493.91	7,984.99	7,853.27	124.81	32.81	71.30	-6,061.68	2,381.09	8,382.48	8,249.71	132.76	63.138	
9,750.00	7,519.11	8,002.56	7,870.83	125.00	32.86	70.38	-6,061.14	2,381.74	8,354.76	8,221.62	133.14	62.751	
9,800.00	7,541.79	8,024.22	7,892.46	125.12	32.92	70.16	-6,060.45	2,382.51	8,323.88	8,190.38	133.50	62.351	
9,850.00	7,561.77	8,042.92	7,911.14	125.20	32.98	70.64	-6,059.83	2,383.13	8,290.08	8,156.27	133.81	61.952	
9,900.00	7,578.90	8,058.58	7,926.79	125.23	33.03	71.90	-6,059.31	2,383.62	8,253.60	8,119.52	134.08	61.555	
9,950.00	7,593.04	8,069.30	7,937.49	125.22	33.06	74.05	-6,058.95	2,383.94	8,214.70	8,080.39	134.30	61.165	
10,000.00	7,604.09	8,076.99	7,945.18	125.17	33.08	77.31	-6,058.68	2,384.16	8,173.65	8,039.17	134.48	60.778	
10,050.00	7,611.97	8,082.07	7,950.24	125.08	33.10	81.95	-6,058.51	2,384.30	8,130.76	7,996.13	134.63	60.394	
10,100.00	7,616.61	8,084.49	7,952.66	124.97	33.10	88.38	-6,058.43	2,384.37	8,086.33	7,951.59	134.74	60.015	
10,145.95	7,618.00	8,084.36	7,952.54	124.84	33.10	96.25	-6,058.43	2,384.37	8,044.40	7,909.59	134.81	59.670	
10,200.00	7,618.00	8,082.90	7,951.07	124.69	33.10	96.22	-6,058.48	2,384.33	7,994.61	7,859.72	134.89	59.268	
10,300.00	7,618.00	8,080.18	7,948.37	124.41	33.09	96.17	-6,058.57	2,384.25	7,902.63	7,767.60	135.03	58.525	
10,400.00	7,618.00	8,077.48	7,945.66	124.14	33.08	96.12	-6,058.67	2,384.17	7,810.84	7,675.66	135.18	57.783	
10,500.00	7,618.00	8,074.78	7,942.96	123.88	33.08	96.07	-6,058.76	2,384.10	7,719.26	7,583.93	135.33	57.042	
10,600.00	7,618.00	8,072.08	7,940.27	123.63	33.07	96.03	-6,058.85	2,384.02	7,627.88	7,492.40	135.48	56.302	
10,700.00	7,618.00	8,069.39	7,937.58	123.40	33.06	95.98	-6,058.94	2,383.94	7,536.73	7,401.09	135.64	55.564	
10,800.00	7,618.00	8,066.70	7,934.90	123.18	33.05	95.93	-6,059.03	2,383.86	7,445.80	7,310.00	135.81	54.827	
10,900.00	7,618.00	8,064.57	7,932.77	122.96	33.05	95.89	-6,059.11	2,383.80	7,355.11	7,219.13	135.98	54.091	
11,000.00	7,618.00	8,061.40	7,929.60	122.76	33.04	95.83	-6,059.21	2,383.71	7,264.65	7,128.50	136.15	53.358	
11,100.00	7,618.00	8,058.26	7,926.46	122.57	33.03	95.77	-6,059.32	2,383.61	7,174.45	7,038.13	136.33	52.626	
11,200.00	7,618.00	8,055.14	7,923.34	122.39	33.02	95.71	-6,059.43	2,383.51	7,084.52	6,948.00	136.51	51.897	
11,300.00	7,618.00	8,052.04	7,920.25	122.23	33.01	95.66	-6,059.53	2,383.42	6,994.85	6,858.15	136.70	51.169	
11,400.00	7,618.00	8,048.96	7,917.18	122.07	33.00	95.60	-6,059.63	2,383.32	6,905.47	6,768.57	136.90	50.443	
11,500.00	7,618.00	8,045.91	7,914.13	121.93	32.99	95.55	-6,059.73	2,383.23	6,816.38	6,679.28	137.10	49.719	
11,600.00	7,618.00	8,042.89	7,911.11	121.79	32.98	95.49	-6,059.83	2,383.13	6,727.59	6,590.28	137.31	48.997	
11,700.00	7,618.00	8,039.88	7,908.11	121.67	32.97	95.44	-6,059.93	2,383.03	6,639.12	6,501.60	137.52	48.277	
11,800.00	7,618.00	8,036.90	7,905.13	121.56	32.96	95.38	-6,060.03	2,382.93	6,550.99	6,413.24	137.74	47.560	
11,900.00	7,618.00	8,033.94	7,902.17	121.46	32.95	95.33	-6,060.13	2,382.84	6,463.19	6,325.22	137.97	46.845	
12,000.00	7,618.00	8,031.01	7,899.24	121.38	32.95	95.27	-6,060.23	2,382.74	6,375.76	6,237.55	138.21	46.132	
12,100.00	7,618.00	8,028.09	7,896.33	121.30	32.94	95.22	-6,060.32	2,382.64	6,288.69	6,150.24	138.45	45.423	
12,200.00	7,618.00	8,025.20	7,893.44	121.24	32.93	95.17	-6,060.41	2,382.54	6,202.02	6,063.32	138.70	44.716	
12,300.00	7,618.00	8,022.33	7,890.57	121.19	32.92	95.11	-6,060.51	2,382.44	6,115.75	5,976.79	138.96	44.012	
12,400.00	7,618.00	8,019.48	7,887.72	121.16	32.91	95.06	-6,060.60	2,382.35	6,029.90	5,890.68	139.22	43.311	
12,500.00	7,618.00	8,016.65	7,884.89	121.14	32.90	95.01	-6,060.69	2,382.25	5,944.50	5,805.00	139.50	42.614	
12,600.00	7,618.00	8,013.84	7,882.09	121.13	32.89	94.96	-6,060.78	2,382.15	5,859.55	5,719.77	139.78	41.920	
12,700.00	7,618.00	8,011.05	7,879.30	121.13	32.89	94.91	-6,060.87	2,382.05	5,775.09	5,635.02	140.07	41.230	
12,800.00	7,618.00	8,008.28	7,876.54	121.15	32.88	94.85	-6,060.96	2,381.95	5,691.13	5,550.75	140.37	40.544	
12,900.00	7,618.00	8,005.53	7,873.79	121.18	32.87	94.80	-6,061.04	2,381.85	5,607.69	5,467.01	140.68	39.861	
13,000.00	7,618.00	8,002.80	7,871.07	121.23	32.86	94.75	-6,061.13	2,381.75	5,524.80	5,383.80	141.00	39.183	
13,100.00	7,618.00	8,000.09	7,868.36	121.29	32.85	94.70	-6,061.21	2,381.65	5,442.48	5,301.16	141.33	38.510	
13,200.00	7,618.00	7,997.40	7,865.67	121.37	32.84	94.66	-6,061.30	2,381.55	5,360.77	5,219.10	141.66	37.842	
13,300.00	7,618.00	7,994.73	7,863.01	121.46	32.84	94.61	-6,061.38	2,381.45	5,279.68	5,137.67	142.01	37.178	
13,400.00	7,618.00	7,992.08	7,860.36	121.57	32.83	94.56	-6,061.46	2,381.35	5,199.25	5,056.88	142.37	36.520	
13,500.00	7,618.00	7,989.45	7,857.73	121.70	32.82	94.51	-6,061.55	2,381.25	5,119.50	4,976.77	142.73	35.867	
13,600.00	7,618.00	7,986.83	7,855.12	121.84	32.81	94.46	-6,061.63	2,381.15	5,040.48	4,897.37	143.11	35.221	
13,700.00	7,618.00	7,984.24	7,852.52	122.01	32.81	94.41	-6,061.71	2,381.05	4,962.21	4,818.71	143.50	34.580	
13,800.00	7,618.00	7,981.66	7,849.95	122.19	32.80	94.37	-6,061.79	2,380.95	4,884.74	4,740.84	143.90	33.946	
13,900.00	7,618.00	7,983.26	7,851.55	122.39	32.80	94.40	-6,061.73	2,381.02	4,808.08	4,663.75	144.33	33.313	
14,000.00	7,618.00	7,979.80	7,848.09	122.62	32.79	94.33	-6,061.84	2,380.88	4,732.31	4,587.57	144.74	32.695	
14,100.00	7,618.00	7,976.39	7,844.68	122.86	32.78	94.27	-6,061.95	2,380.74	4,657.45	4,512.29	145.16	32.084	
14,200.00	7,618.00	7,973.02	7,841.32	123.12	32.77	94.21	-6,062.05	2,380.61	4,583.55	4,437.95	145.60	31.481	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	7,969.70	7,838.00	123.41	32.76	94.15	-6,062.15	2,380.47	4,510.65	4,364.61	146.04	30.887	
14,400.00	7,618.00	7,966.43	7,834.74	123.72	32.75	94.09	-6,062.25	2,380.34	4,438.80	4,292.31	146.49	30.302	
14,500.00	7,618.00	7,963.20	7,831.51	124.06	32.74	94.03	-6,062.34	2,380.21	4,368.06	4,221.11	146.94	29.726	
14,600.00	7,618.00	7,960.01	7,828.33	124.42	32.73	93.97	-6,062.44	2,380.08	4,298.48	4,151.06	147.41	29.160	
14,700.00	7,618.00	7,956.87	7,825.19	124.80	32.72	93.91	-6,062.53	2,379.95	4,230.11	4,082.23	147.88	28.604	
14,800.00	7,618.00	7,953.77	7,822.09	125.21	32.71	93.85	-6,062.62	2,379.82	4,163.02	4,014.66	148.36	28.060	
14,900.00	7,618.00	7,950.71	7,819.04	125.65	32.70	93.80	-6,062.71	2,379.69	4,097.28	3,948.43	148.85	27.527	
15,000.00	7,618.00	7,947.69	7,816.02	126.11	32.70	93.74	-6,062.80	2,379.57	4,032.94	3,883.60	149.33	27.006	
15,100.00	7,618.00	7,944.71	7,813.05	126.61	32.69	93.69	-6,062.88	2,379.44	3,970.07	3,820.25	149.83	26.498	
15,200.00	7,618.00	7,941.77	7,810.11	127.13	32.68	93.63	-6,062.96	2,379.32	3,908.75	3,758.43	150.32	26.003	
15,300.00	7,618.00	7,938.87	7,807.21	127.68	32.67	93.58	-6,063.05	2,379.20	3,849.05	3,698.24	150.81	25.523	
15,400.00	7,618.00	7,936.00	7,804.35	128.26	32.66	93.53	-6,063.13	2,379.08	3,791.04	3,639.75	151.30	25.057	
15,500.00	7,618.00	7,933.17	7,801.52	128.87	32.65	93.47	-6,063.21	2,378.96	3,734.81	3,583.03	151.78	24.607	
15,600.00	7,618.00	7,930.38	7,798.73	129.51	32.64	93.42	-6,063.28	2,378.84	3,680.44	3,528.18	152.25	24.173	
15,700.00	7,618.00	7,927.62	7,795.98	130.18	32.63	93.37	-6,063.36	2,378.73	3,628.00	3,475.28	152.72	23.756	
15,800.00	7,618.00	7,924.90	7,793.26	130.88	32.63	93.32	-6,063.43	2,378.61	3,577.59	3,424.42	153.17	23.357	
15,900.00	7,618.00	7,922.21	7,790.57	131.61	32.62	93.27	-6,063.51	2,378.50	3,529.30	3,375.69	153.61	22.976	
16,000.00	7,618.00	7,919.55	7,787.92	132.37	32.61	93.22	-6,063.58	2,378.38	3,483.20	3,329.17	154.03	22.614	
16,100.00	7,618.00	7,916.93	7,785.30	133.17	32.60	93.17	-6,063.65	2,378.27	3,439.39	3,284.97	154.42	22.273	
16,200.00	7,618.00	7,914.34	7,782.71	133.99	32.59	93.13	-6,063.72	2,378.16	3,397.96	3,243.17	154.79	21.952	
16,300.00	7,618.00	7,911.78	7,780.16	134.84	32.59	93.08	-6,063.79	2,378.05	3,358.99	3,203.86	155.13	21.653	
16,400.00	7,618.00	7,909.25	7,777.63	135.72	32.58	93.03	-6,063.85	2,377.94	3,322.57	3,167.14	155.44	21.376	
16,500.00	7,618.00	7,906.75	7,775.14	136.63	32.57	92.99	-6,063.92	2,377.83	3,288.79	3,133.09	155.70	21.122	
16,600.00	7,618.00	7,904.28	7,772.67	137.57	32.56	92.94	-6,063.98	2,377.73	3,257.73	3,101.80	155.93	20.892	
16,700.00	7,618.00	7,901.84	7,770.24	138.54	32.55	92.90	-6,064.05	2,377.62	3,229.47	3,073.35	156.12	20.686	
16,800.00	7,618.00	7,899.43	7,767.83	139.53	32.55	92.85	-6,064.11	2,377.52	3,204.08	3,047.82	156.25	20.505	
16,900.00	7,618.00	7,897.05	7,765.45	140.55	32.54	92.81	-6,064.17	2,377.41	3,181.62	3,025.28	156.34	20.350	
17,000.00	7,618.00	7,894.70	7,763.10	141.60	32.53	92.77	-6,064.23	2,377.31	3,162.17	3,005.79	156.38	20.221	
17,100.00	7,618.00	7,892.37	7,760.77	142.67	32.53	92.72	-6,064.29	2,377.21	3,145.78	2,989.42	156.36	20.119	
17,200.00	7,618.00	7,890.07	7,758.47	143.77	32.52	92.68	-6,064.35	2,377.11	3,132.49	2,976.21	156.28	20.044	
17,300.00	7,618.00	7,887.80	7,756.20	144.88	32.51	92.64	-6,064.40	2,377.01	3,122.35	2,966.20	156.15	19.996	
17,400.00	7,618.00	7,885.55	7,753.96	146.02	32.51	92.60	-6,064.46	2,376.91	3,115.39	2,959.42	155.96	19.975 SF	
17,500.00	7,618.00	7,883.32	7,751.74	147.19	32.50	92.56	-6,064.51	2,376.81	3,111.62	2,955.90	155.72	19.982	
17,567.32	7,618.00	7,881.84	7,750.26	147.98	32.49	92.53	-6,064.55	2,376.74	3,110.89	2,955.37	155.52	20.003 CC, ES	
17,600.00	7,618.00	7,881.13	7,749.54	148.37	32.49	92.52	-6,064.57	2,376.71	3,111.07	2,955.65	155.42	20.017	
17,700.00	7,618.00	7,878.95	7,747.37	149.57	32.49	92.48	-6,064.62	2,376.62	3,113.72	2,958.66	155.06	20.080	
17,800.00	7,618.00	7,876.80	7,745.23	150.79	32.48	92.44	-6,064.67	2,376.52	3,119.58	2,964.92	154.66	20.171	
17,900.00	7,618.00	7,874.68	7,743.10	152.03	32.47	92.40	-6,064.72	2,376.43	3,128.62	2,974.42	154.20	20.289	
18,000.00	7,618.00	7,872.58	7,741.01	153.29	32.47	92.36	-6,064.77	2,376.33	3,140.82	2,987.12	153.70	20.435	
18,100.00	7,618.00	7,839.10	7,707.57	154.57	32.37	91.74	-6,065.56	2,375.01	3,156.14	3,003.30	152.84	20.650	
18,200.00	7,618.00	7,796.47	7,664.97	155.86	32.25	90.96	-6,066.54	2,373.82	3,174.50	3,022.66	151.84	20.907	
18,300.00	7,618.00	7,756.85	7,625.36	157.17	32.13	90.23	-6,067.42	2,373.21	3,195.86	3,045.03	150.83	21.189	
18,400.00	7,618.00	7,719.95	7,588.46	158.49	32.03	89.55	-6,068.20	2,373.09	3,220.15	3,070.34	149.81	21.494	
18,500.00	7,618.00	7,685.49	7,554.02	159.82	31.93	88.91	-6,068.92	2,373.34	3,247.32	3,098.52	148.80	21.824	
18,600.00	7,618.00	7,680.58	7,549.11	161.17	31.92	88.82	-6,069.02	2,373.41	3,277.31	3,129.21	148.10	22.129	
18,700.00	7,618.00	7,677.93	7,546.46	162.54	31.91	88.77	-6,069.07	2,373.45	3,310.04	3,162.64	147.41	22.455	
18,800.00	7,618.00	7,675.25	7,543.77	163.91	31.90	88.73	-6,069.13	2,373.48	3,345.45	3,198.74	146.71	22.804	
18,900.00	7,618.00	7,672.53	7,541.05	165.30	31.89	88.68	-6,069.18	2,373.52	3,383.43	3,237.43	146.00	23.174	
19,000.00	7,618.00	7,669.77	7,538.30	166.70	31.89	88.62	-6,069.24	2,373.56	3,423.92	3,278.63	145.29	23.566	
19,100.00	7,618.00	7,666.97	7,535.50	168.10	31.88	88.57	-6,069.30	2,373.60	3,466.82	3,322.23	144.59	23.977	
19,200.00	7,618.00	7,664.14	7,532.67	169.52	31.87	88.52	-6,069.36	2,373.64	3,512.04	3,368.15	143.88	24.409	
19,300.00	7,618.00	7,661.26	7,529.79	170.95	31.86	88.47	-6,069.42	2,373.69	3,559.49	3,416.30	143.19	24.859	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	7,658.35	7,526.88	172.39	31.86	88.41	-6,069.48	2,373.73	3,609.09	3,466.58	142.50	25.326	
19,500.00	7,618.00	7,655.39	7,523.92	173.84	31.85	88.36	-6,069.55	2,373.77	3,660.75	3,518.91	141.83	25.811	
19,600.00	7,618.00	7,652.39	7,520.92	175.30	31.84	88.30	-6,069.61	2,373.82	3,714.38	3,573.20	141.17	26.311	
19,700.00	7,618.00	7,649.35	7,517.88	176.76	31.83	88.25	-6,069.68	2,373.87	3,769.89	3,629.37	140.53	26.827	
19,800.00	7,618.00	7,646.26	7,514.79	178.24	31.83	88.19	-6,069.75	2,373.91	3,827.22	3,687.32	139.90	27.357	
19,896.19	7,618.00	7,643.25	7,511.78	179.66	31.82	88.14	-6,069.82	2,373.96	3,883.99	3,744.67	139.31	27.879	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	149.37	-5,442.26	3,222.70	6,324.91				
100.00	100.00	60.58	60.58	0.13	0.09	149.37	-5,442.41	3,222.61	6,324.97	6,324.75	0.22	N/A	
200.00	200.00	165.00	164.99	0.49	0.44	149.38	-5,442.98	3,221.55	6,324.92	6,323.99	0.93	6,802.998	
227.03	227.03	194.75	194.74	0.59	0.54	80.07	-5,443.21	3,221.06	6,324.84	6,323.71	1.13	5,588.100	
227.03	227.03	194.75	194.74	0.59	0.54	80.07	-5,443.21	3,221.06	6,324.84	6,323.71	1.13	5,588.093	
300.00	299.98	224.67	224.65	0.85	0.65	80.08	-5,443.59	3,220.72	6,324.93	6,323.43	1.50	4,223.838	
400.00	399.84	255.00	254.98	1.21	0.76	80.09	-5,444.13	3,220.51	6,325.36	6,323.39	1.96	3,219.843	
500.00	499.45	301.35	301.31	1.58	0.92	80.11	-5,445.30	3,220.49	6,326.13	6,323.63	2.50	2,530.544	
600.00	598.70	349.00	348.93	1.97	1.10	80.15	-5,446.97	3,220.87	6,327.35	6,324.30	3.06	2,069.367	
700.00	697.47	385.36	385.25	2.38	1.23	80.17	-5,448.50	3,221.37	6,328.88	6,325.28	3.60	1,758.650	
800.00	795.62	441.00	440.82	2.83	1.43	80.24	-5,451.10	3,222.41	6,330.62	6,326.38	4.24	1,494.039	
900.00	893.06	478.97	478.73	3.31	1.57	80.28	-5,453.14	3,223.28	6,332.61	6,327.76	4.85	1,305.965	
1,000.00	989.64	536.00	535.62	3.83	1.77	80.37	-5,456.76	3,224.77	6,335.02	6,329.45	5.57	1,137.434	
1,100.00	1,085.27	536.00	535.62	4.40	1.77	80.31	-5,456.76	3,224.77	6,337.81	6,331.68	6.13	1,033.927	
1,200.00	1,179.82	584.02	583.48	5.02	1.95	80.39	-5,460.47	3,226.25	6,341.03	6,334.11	6.91	917.086	
1,300.00	1,273.17	623.00	622.27	5.70	2.10	80.44	-5,464.01	3,227.66	6,344.89	6,337.17	7.72	822.099	
1,400.00	1,365.21	654.06	653.15	6.43	2.22	80.47	-5,467.10	3,228.89	6,349.22	6,340.67	8.55	742.518	
1,500.00	1,455.84	711.00	709.72	7.23	2.44	80.60	-5,473.13	3,231.28	6,353.96	6,344.42	9.54	666.076	
1,600.00	1,544.94	711.00	709.72	8.09	2.44	80.50	-5,473.13	3,231.28	6,359.18	6,348.80	10.38	612.803	
1,700.00	1,632.39	764.89	763.18	9.01	2.66	80.62	-5,479.30	3,234.07	6,364.75	6,353.27	11.48	554.267	
1,800.00	1,718.11	798.00	795.98	10.00	2.79	80.65	-5,483.31	3,236.25	6,371.02	6,358.45	12.58	506.595	
1,900.00	1,801.97	830.04	827.67	11.07	2.93	80.67	-5,487.37	3,238.58	6,377.86	6,364.12	13.73	464.369	
2,000.00	1,883.88	885.00	881.96	12.20	3.16	80.80	-5,494.78	3,242.85	6,385.31	6,370.26	15.05	424.253	
2,100.00	1,963.74	885.00	881.96	13.41	3.16	80.65	-5,494.78	3,242.85	6,393.20	6,376.98	16.22	394.145	
2,200.00	2,041.45	920.53	916.99	14.69	3.31	80.67	-5,499.90	3,245.88	6,401.78	6,384.17	17.60	363.687	
2,300.00	2,116.92	945.48	941.54	16.05	3.42	80.63	-5,503.67	3,248.21	6,411.05	6,392.04	19.01	337.246	
2,357.48	2,159.25	973.00	968.58	16.86	3.54	80.68	-5,507.99	3,250.95	6,416.74	6,396.84	19.90	322.398	
2,400.00	2,190.27	973.00	968.58	17.47	3.54	80.68	-5,507.99	3,250.95	6,421.08	6,400.59	20.49	313.394	
2,500.00	2,263.22	1,028.84	1,023.40	18.92	3.79	81.02	-5,517.00	3,256.70	6,432.08	6,409.97	22.11	290.916	
2,600.00	2,336.18	1,080.78	1,074.36	20.37	4.03	81.33	-5,525.49	3,262.02	6,443.93	6,420.20	23.73	271.600	
2,700.00	2,409.14	1,129.00	1,121.62	21.84	4.25	81.61	-5,533.62	3,267.04	6,456.81	6,431.48	25.33	254.914	
2,800.00	2,482.09	1,232.65	1,223.22	23.31	4.74	82.23	-5,551.02	3,277.92	6,470.40	6,443.22	27.19	238.008	
2,900.00	2,555.05	1,369.69	1,357.85	24.78	5.38	83.04	-5,572.55	3,291.77	6,483.55	6,454.35	29.20	222.042	
3,000.00	2,628.01	1,420.00	1,407.26	26.27	5.61	83.34	-5,580.66	3,296.63	6,497.69	6,466.86	30.83	210.772	
3,100.00	2,700.96	1,459.95	1,446.47	27.75	5.80	83.57	-5,587.29	3,300.45	6,512.80	6,480.40	32.41	200.960	
3,200.00	2,773.92	1,508.00	1,493.61	29.24	6.03	83.86	-5,595.38	3,305.01	6,528.81	6,494.79	34.02	191.889	
3,300.00	2,846.88	1,551.60	1,536.35	30.73	6.24	84.12	-5,602.90	3,309.18	6,545.80	6,510.18	35.62	183.789	
3,400.00	2,919.83	1,595.00	1,578.85	32.23	6.45	84.37	-5,610.65	3,313.39	6,563.85	6,526.65	37.20	176.436	
3,500.00	2,992.79	1,633.21	1,616.23	33.72	6.64	84.60	-5,617.67	3,317.09	6,582.92	6,544.16	38.76	169.843	
3,600.00	3,065.75	1,682.00	1,663.92	35.22	6.88	84.89	-5,626.86	3,321.74	6,602.95	6,562.59	40.36	163.593	
3,700.00	3,138.71	1,744.81	1,725.28	36.72	7.20	85.26	-5,638.85	3,327.77	6,623.83	6,581.80	42.03	157.591	
3,800.00	3,211.66	1,883.07	1,860.44	38.22	7.89	86.07	-5,664.53	3,341.40	6,645.08	6,600.99	44.08	150.734	
3,900.00	3,284.62	2,164.96	2,137.22	39.72	9.24	87.69	-5,709.79	3,369.52	6,664.39	6,617.54	46.85	142.235	
4,000.00	3,357.58	2,206.00	2,177.60	41.22	9.43	87.93	-5,716.04	3,373.40	6,684.33	6,635.91	48.42	138.052	
4,100.00	3,430.53	2,249.90	2,220.76	42.73	9.64	88.18	-5,722.95	3,377.46	6,705.23	6,655.24	49.99	134.133	
4,200.00	3,503.49	2,293.00	2,263.10	44.23	9.85	88.43	-5,729.91	3,381.52	6,727.07	6,675.52	51.55	130.501	
4,300.00	3,576.45	2,343.05	2,312.23	45.74	10.09	88.71	-5,738.16	3,386.41	6,749.80	6,696.67	53.14	127.030	
4,400.00	3,649.40	2,496.68	2,463.07	47.25	10.83	89.57	-5,762.69	3,402.07	6,772.81	6,717.55	55.26	122.556	
4,500.00	3,722.36	2,533.09	2,498.85	48.75	11.01	89.78	-5,768.41	3,405.69	6,796.20	6,739.43	56.77	119.714	
4,600.00	3,795.32	2,555.00	2,520.36	50.26	11.11	89.90	-5,771.96	3,407.85	6,820.60	6,762.41	58.19	117.216	
4,700.00	3,868.27	2,586.84	2,551.58	51.77	11.27	90.08	-5,777.34	3,410.98	6,846.07	6,786.42	59.65	114.774	
4,800.00	3,941.23	2,609.49	2,573.76	53.28	11.38	90.21	-5,781.36	3,413.22	6,872.68	6,811.63	61.04	112.586	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
4,900.00	4,014.19	2,643.00	2,606.51	54.79	11.55	90.39	-5,787.62	3,416.54	6,900.41	6,837.93	62.49	110.428	
5,000.00	4,087.15	5,000.00	2,761.97	56.30	23.28	91.28	-5,816.30	3,432.48	6,928.36	6,854.95	73.41	94.382	
5,100.00	4,160.10	2,880.02	2,838.49	57.81	12.74	91.71	-5,829.71	3,440.78	6,956.26	6,889.92	66.34	104.862	
5,200.00	4,233.06	2,930.51	2,887.90	59.32	12.99	91.98	-5,838.49	3,446.37	6,984.93	6,917.07	67.86	102.927	
5,300.00	4,306.02	2,979.01	2,935.32	60.83	13.23	92.24	-5,847.10	3,451.73	7,014.39	6,945.02	69.37	101.118	
5,400.00	4,378.97	3,058.47	3,013.05	62.34	13.63	92.67	-5,861.44	3,459.91	7,044.52	6,973.47	71.05	99.154	
5,500.00	4,451.93	3,184.46	3,136.55	63.85	14.26	93.37	-5,883.81	3,470.93	7,074.79	7,001.80	72.99	96.935	
5,600.00	4,524.89	3,250.64	3,201.44	65.36	14.58	93.73	-5,895.35	3,476.90	7,105.39	7,030.82	74.57	95.289	
5,700.00	4,597.84	3,347.11	3,296.02	66.88	15.06	94.24	-5,912.02	3,485.98	7,136.44	7,060.11	76.32	93.502	
5,800.00	4,670.80	3,400.71	3,348.61	68.39	15.32	94.53	-5,921.31	3,490.58	7,167.98	7,090.17	77.81	92.119	
5,900.00	4,743.76	5,900.00	3,441.86	69.90	27.50	95.05	-5,937.74	3,498.44	7,199.96	7,110.86	89.10	80.803	
6,000.00	4,816.71	3,600.20	3,544.36	71.41	16.29	95.60	-5,955.20	3,508.67	7,232.08	7,150.76	81.33	88.924	
6,100.00	4,889.67	6,100.00	3,675.54	72.93	28.26	96.30	-5,977.15	3,521.27	7,264.60	7,171.85	92.75	78.326	
6,200.00	4,962.63	3,871.24	3,810.86	74.44	17.59	97.02	-5,998.20	3,532.76	7,296.52	7,211.28	85.24	85.599	
6,300.00	5,035.59	3,963.45	3,901.73	75.95	18.01	97.50	-6,011.98	3,540.17	7,328.74	7,241.82	86.92	84.316	
6,400.00	5,108.54	4,007.66	3,945.25	77.47	18.22	97.72	-6,018.63	3,544.21	7,361.52	7,273.21	88.32	83.355	
6,500.00	5,181.50	4,075.93	4,012.40	78.98	18.55	98.07	-6,029.04	3,550.86	7,394.98	7,305.13	89.85	82.307	
6,600.00	5,254.46	4,127.00	4,062.63	80.49	18.79	98.33	-6,036.77	3,555.82	7,428.85	7,337.59	91.26	81.400	
6,700.00	5,327.41	4,170.45	4,105.38	82.01	19.00	98.55	-6,043.50	3,559.76	7,463.46	7,370.84	92.62	80.583	
6,800.00	5,400.37	5,126.50	5,053.98	83.52	22.86	103.47	-6,143.27	3,605.88	7,497.17	7,398.53	98.65	76.001	
6,900.00	5,473.33	5,290.82	5,218.16	85.04	23.40	104.32	-6,149.48	3,608.80	7,524.07	7,423.57	100.50	74.868	
7,000.00	5,546.28	5,441.03	5,368.32	86.55	23.86	105.10	-6,153.16	3,608.74	7,550.36	7,448.12	102.24	73.849	
7,100.00	5,619.24	5,549.07	5,476.34	88.06	24.18	105.67	-6,155.14	3,607.64	7,576.87	7,473.07	103.80	72.993	
7,200.00	5,692.20	5,672.00	5,599.23	89.58	24.52	106.32	-6,156.63	3,605.14	7,603.49	7,498.11	105.38	72.150	
7,300.00	5,765.15	5,943.85	5,870.96	91.09	25.21	107.74	-6,154.75	3,597.75	7,628.88	7,521.51	107.36	71.058	
7,400.00	5,838.11	6,024.14	5,951.22	92.61	25.41	108.16	-6,153.28	3,595.82	7,654.45	7,545.69	108.76	70.377	
7,500.00	5,911.07	6,109.12	6,036.15	94.12	25.63	108.60	-6,151.63	3,593.95	7,680.47	7,570.31	110.17	69.715	
7,600.00	5,984.03	6,196.28	6,123.28	95.64	25.85	109.05	-6,149.78	3,592.30	7,706.90	7,595.33	111.57	69.077	
7,700.00	6,056.98	6,286.09	6,213.05	97.15	26.08	109.50	-6,147.71	3,590.82	7,733.70	7,620.73	112.97	68.459	
7,800.00	6,129.94	6,376.94	6,303.87	98.67	26.31	109.96	-6,145.40	3,589.35	7,760.85	7,646.49	114.36	67.865	
7,900.00	6,202.90	6,443.95	6,370.85	100.18	26.48	110.30	-6,143.62	3,588.35	7,788.43	7,672.76	115.67	67.333	
8,000.00	6,275.85	6,504.88	6,431.75	101.70	26.64	110.60	-6,142.12	3,587.65	7,816.62	7,699.67	116.95	66.835	
8,100.00	6,348.81	6,566.10	6,492.95	103.21	26.80	110.90	-6,140.72	3,587.15	7,845.42	7,727.19	118.23	66.359	
8,200.00	6,421.77	6,648.73	6,575.56	104.73	27.03	111.31	-6,138.89	3,586.86	7,874.72	7,755.16	119.56	65.865	
8,300.00	6,494.72	6,734.17	6,660.98	106.24	27.26	111.72	-6,136.93	3,587.13	7,904.39	7,783.50	120.89	65.385	
8,400.00	6,567.68	6,808.23	6,735.02	107.76	27.47	112.08	-6,135.22	3,587.68	7,934.46	7,812.28	122.18	64.940	
8,500.00	6,640.64	6,880.48	6,807.25	109.27	27.67	112.42	-6,133.56	3,588.30	7,965.00	7,841.55	123.45	64.517	
8,600.00	6,713.59	6,952.64	6,879.38	110.79	27.87	112.76	-6,131.94	3,588.99	7,996.00	7,871.29	124.72	64.113	
8,700.00	6,786.55	7,024.62	6,951.35	112.30	28.08	113.10	-6,130.35	3,589.73	8,027.47	7,901.50	125.97	63.725	
8,800.00	6,859.51	7,096.70	7,023.40	113.82	28.28	113.44	-6,128.78	3,590.54	8,059.39	7,932.18	127.21	63.354	
8,900.00	6,932.46	7,168.03	7,094.71	115.33	28.49	113.77	-6,127.27	3,591.39	8,091.76	7,963.32	128.44	62.999	
9,000.00	7,005.42	7,239.46	7,166.12	116.85	28.69	114.10	-6,125.78	3,592.31	8,124.58	7,994.92	129.66	62.660	
9,104.89	7,081.95	7,312.66	7,239.30	118.44	28.91	114.44	-6,124.29	3,593.22	8,159.49	8,028.57	130.92	62.324	
9,150.00	7,115.15	7,343.70	7,270.33	119.12	29.00	109.59	-6,123.65	3,593.51	8,173.00	8,041.53	131.47	62.169	
9,200.00	7,152.46	7,378.35	7,304.97	119.86	29.10	104.02	-6,122.93	3,593.73	8,184.13	8,052.04	132.09	61.960	
9,250.00	7,190.04	7,413.01	7,339.62	120.57	29.20	98.38	-6,122.22	3,593.87	8,191.16	8,058.44	132.72	61.717	
9,300.00	7,227.59	7,447.40	7,374.01	121.25	29.29	92.82	-6,121.50	3,593.91	8,194.04	8,060.68	133.36	61.444	
9,350.00	7,264.83	7,480.63	7,407.23	121.89	29.39	87.48	-6,120.81	3,593.91	8,192.77	8,058.78	133.99	61.146	
9,400.00	7,301.48	7,513.29	7,439.88	122.48	29.48	82.51	-6,120.14	3,593.89	8,187.36	8,052.75	134.61	60.824	
9,450.00	7,337.26	7,545.07	7,471.65	123.01	29.57	77.99	-6,119.51	3,593.85	8,177.85	8,042.64	135.21	60.484	
9,500.00	7,371.90	7,575.73	7,502.31	123.49	29.66	74.00	-6,118.90	3,593.80	8,164.31	8,028.53	135.78	60.128	
9,550.00	7,405.13	7,605.06	7,531.63	123.91	29.75	70.57	-6,118.34	3,593.74	8,146.85	8,010.52	136.33	59.759	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,600.00	7,436.70	7,634.03	7,560.60	124.27	29.83	67.71	-6,117.79	3,593.67	8,125.58	7,988.73	136.84	59.379	
9,650.00	7,466.36	7,662.36	7,588.92	124.57	29.91	65.44	-6,117.26	3,593.62	8,100.65	7,963.33	137.32	58.989	
9,700.00	7,493.91	7,688.62	7,615.18	124.81	29.99	63.75	-6,116.77	3,593.60	8,072.24	7,934.48	137.76	58.595	
9,750.00	7,519.11	7,712.60	7,639.15	125.00	30.06	62.64	-6,116.34	3,593.61	8,040.56	7,902.40	138.16	58.198	
9,800.00	7,541.79	7,734.11	7,660.66	125.12	30.12	62.15	-6,115.95	3,593.63	8,005.82	7,867.31	138.51	57.800	
9,850.00	7,561.77	7,752.97	7,679.52	125.20	30.18	62.34	-6,115.62	3,593.66	7,968.28	7,829.46	138.81	57.402	
9,900.00	7,578.90	7,769.03	7,695.58	125.23	30.22	63.33	-6,115.34	3,593.70	7,928.20	7,789.12	139.08	57.006	
9,950.00	7,593.04	7,782.16	7,708.70	125.22	30.26	65.31	-6,115.11	3,593.73	7,885.86	7,746.57	139.29	56.613	
10,000.00	7,604.09	7,792.23	7,718.78	125.17	30.29	68.64	-6,114.94	3,593.77	7,841.59	7,702.11	139.47	56.224	
10,050.00	7,611.97	7,799.28	7,725.83	125.08	30.31	73.92	-6,114.82	3,593.79	7,795.68	7,656.07	139.61	55.839	
10,100.00	7,616.61	7,803.09	7,729.63	124.97	30.32	82.24	-6,114.75	3,593.80	7,748.48	7,608.76	139.71	55.460	
10,145.95	7,618.00	7,803.70	7,730.24	124.84	30.33	94.06	-6,114.74	3,593.80	7,704.25	7,564.47	139.78	55.118	
10,200.00	7,618.00	7,802.77	7,729.31	124.69	30.32	94.03	-6,114.76	3,593.80	7,651.87	7,512.03	139.84	54.718	
10,300.00	7,618.00	7,801.05	7,727.60	124.41	30.32	93.98	-6,114.79	3,593.80	7,555.03	7,415.07	139.96	53.980	
10,400.00	7,618.00	7,799.34	7,725.88	124.14	30.31	93.93	-6,114.82	3,593.79	7,458.27	7,318.19	140.08	53.243	
10,500.00	7,618.00	7,797.63	7,724.17	123.88	30.31	93.88	-6,114.85	3,593.78	7,361.60	7,221.39	140.21	52.506	
10,600.00	7,618.00	7,795.91	7,722.45	123.63	30.30	93.83	-6,114.88	3,593.78	7,265.01	7,124.68	140.33	51.769	
10,700.00	7,618.00	7,794.20	7,720.74	123.40	30.30	93.77	-6,114.91	3,593.77	7,168.52	7,028.05	140.47	51.033	
10,800.00	7,618.00	7,792.49	7,719.03	123.18	30.29	93.72	-6,114.94	3,593.77	7,072.12	6,931.52	140.60	50.298	
10,900.00	7,618.00	7,790.79	7,717.33	122.96	30.29	93.67	-6,114.96	3,593.76	6,975.83	6,835.09	140.75	49.563	
11,000.00	7,618.00	7,789.08	7,715.62	122.76	30.28	93.62	-6,114.99	3,593.76	6,879.64	6,738.75	140.89	48.830	
11,100.00	7,618.00	7,787.37	7,713.92	122.57	30.28	93.57	-6,115.02	3,593.75	6,783.57	6,642.53	141.04	48.097	
11,200.00	7,618.00	7,785.66	7,712.20	122.39	30.27	93.52	-6,115.05	3,593.74	6,687.60	6,546.41	141.20	47.364	
11,300.00	7,618.00	7,783.94	7,710.49	122.23	30.27	93.47	-6,115.08	3,593.74	6,591.76	6,450.40	141.35	46.633	
11,400.00	7,618.00	7,782.22	7,708.77	122.07	30.26	93.41	-6,115.11	3,593.73	6,496.04	6,354.52	141.52	45.902	
11,500.00	7,618.00	7,780.50	7,707.04	121.93	30.26	93.36	-6,115.14	3,593.73	6,400.45	6,258.76	141.69	45.173	
11,600.00	7,618.00	7,778.77	7,705.32	121.79	30.25	93.31	-6,115.17	3,593.72	6,305.00	6,163.14	141.86	44.445	
11,700.00	7,618.00	7,777.04	7,703.59	121.67	30.25	93.26	-6,115.20	3,593.72	6,209.69	6,067.65	142.04	43.717	
11,800.00	7,618.00	7,775.31	7,701.85	121.56	30.24	93.20	-6,115.23	3,593.71	6,114.53	5,972.30	142.23	42.991	
11,900.00	7,618.00	7,773.57	7,700.11	121.46	30.24	93.15	-6,115.26	3,593.71	6,019.52	5,877.10	142.42	42.266	
12,000.00	7,618.00	7,771.83	7,698.37	121.38	30.23	93.10	-6,115.29	3,593.71	5,924.68	5,782.07	142.62	41.542	
12,100.00	7,618.00	7,770.08	7,696.62	121.30	30.23	93.05	-6,115.32	3,593.70	5,830.02	5,687.19	142.82	40.820	
12,200.00	7,618.00	7,768.33	7,694.88	121.24	30.22	92.99	-6,115.35	3,593.70	5,735.53	5,592.50	143.03	40.099	
12,300.00	7,618.00	7,766.58	7,693.12	121.19	30.22	92.94	-6,115.38	3,593.69	5,641.23	5,497.98	143.25	39.380	
12,400.00	7,618.00	7,764.82	7,691.36	121.16	30.21	92.89	-6,115.41	3,593.69	5,547.13	5,403.65	143.48	38.662	
12,500.00	7,618.00	7,763.06	7,689.60	121.14	30.21	92.83	-6,115.44	3,593.68	5,453.24	5,309.53	143.71	37.946	
12,600.00	7,618.00	7,761.29	7,687.84	121.13	30.20	92.78	-6,115.47	3,593.68	5,359.57	5,215.62	143.95	37.232	
12,700.00	7,618.00	7,759.52	7,686.07	121.13	30.20	92.73	-6,115.51	3,593.68	5,266.14	5,121.94	144.20	36.520	
12,800.00	7,618.00	7,757.75	7,684.30	121.15	30.19	92.67	-6,115.54	3,593.67	5,172.94	5,028.49	144.46	35.810	
12,900.00	7,618.00	7,755.97	7,682.52	121.18	30.19	92.62	-6,115.57	3,593.67	5,080.01	4,935.29	144.72	35.102	
13,000.00	7,618.00	7,754.19	7,680.74	121.23	30.18	92.57	-6,115.60	3,593.66	4,987.35	4,842.35	145.00	34.396	
13,100.00	7,618.00	7,752.41	7,678.96	121.29	30.18	92.51	-6,115.63	3,593.66	4,894.98	4,749.69	145.28	33.693	
13,200.00	7,618.00	7,750.62	7,677.17	121.37	30.17	92.46	-6,115.66	3,593.66	4,802.91	4,657.33	145.58	32.992	
13,300.00	7,618.00	7,748.83	7,675.38	121.46	30.17	92.40	-6,115.69	3,593.65	4,711.17	4,565.28	145.88	32.294	
13,400.00	7,618.00	7,747.03	7,673.58	121.57	30.16	92.35	-6,115.73	3,593.65	4,619.76	4,473.56	146.20	31.599	
13,500.00	7,618.00	7,745.23	7,671.78	121.70	30.15	92.30	-6,115.76	3,593.65	4,528.72	4,382.20	146.53	30.907	
13,600.00	7,618.00	7,743.42	7,669.97	121.84	30.15	92.24	-6,115.79	3,593.64	4,438.07	4,291.20	146.87	30.219	
13,700.00	7,618.00	7,741.62	7,668.17	122.01	30.14	92.19	-6,115.82	3,593.64	4,347.82	4,200.60	147.22	29.534	
13,800.00	7,618.00	7,739.80	7,666.35	122.19	30.14	92.13	-6,115.85	3,593.64	4,258.01	4,110.43	147.58	28.853	
13,900.00	7,618.00	7,737.99	7,664.54	122.39	30.13	92.08	-6,115.89	3,593.64	4,168.66	4,020.71	147.95	28.176	
14,000.00	7,618.00	7,736.17	7,662.72	122.62	30.13	92.02	-6,115.92	3,593.63	4,079.81	3,931.46	148.34	27.503	
14,100.00	7,618.00	7,734.34	7,660.90	122.86	30.12	91.97	-6,115.95	3,593.63	3,991.48	3,842.74	148.74	26.835	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,200.00	7,618.00	7,732.52	7,659.07	123.12	30.12	91.91	-6,115.98	3,593.63	3,903.71	3,754.55	149.16	26.172	
14,300.00	7,618.00	7,730.68	7,657.23	123.41	30.11	91.85	-6,116.01	3,593.63	3,816.55	3,666.96	149.59	25.514	
14,400.00	7,618.00	7,728.85	7,655.40	123.72	30.11	91.80	-6,116.05	3,593.62	3,730.03	3,580.00	150.03	24.862	
14,500.00	7,618.00	7,727.01	7,653.56	124.06	30.10	91.74	-6,116.08	3,593.62	3,644.19	3,493.71	150.49	24.216	
14,600.00	7,618.00	7,725.16	7,651.71	124.42	30.10	91.69	-6,116.11	3,593.62	3,559.10	3,408.14	150.96	23.576	
14,700.00	7,618.00	7,723.31	7,649.87	124.80	30.09	91.63	-6,116.15	3,593.62	3,474.80	3,323.35	151.45	22.944	
14,800.00	7,618.00	7,721.46	7,648.01	125.21	30.09	91.58	-6,116.18	3,593.62	3,391.35	3,239.41	151.95	22.319	
14,900.00	7,618.00	7,719.60	7,646.16	125.65	30.08	91.52	-6,116.21	3,593.61	3,308.82	3,156.36	152.46	21.703	
15,000.00	7,618.00	7,717.74	7,644.30	126.11	30.07	91.46	-6,116.25	3,593.61	3,227.28	3,074.29	152.99	21.095	
15,100.00	7,618.00	7,715.88	7,642.43	126.61	30.07	91.41	-6,116.28	3,593.61	3,146.80	2,993.27	153.53	20.497	
15,200.00	7,618.00	7,714.01	7,640.56	127.13	30.06	91.35	-6,116.31	3,593.61	3,067.47	2,913.39	154.08	19.909	
15,300.00	7,618.00	7,712.13	7,638.69	127.68	30.06	91.29	-6,116.35	3,593.61	2,989.37	2,834.74	154.63	19.332	
15,400.00	7,618.00	7,710.26	7,636.81	128.26	30.05	91.24	-6,116.38	3,593.61	2,912.62	2,757.42	155.20	18.767	
15,500.00	7,618.00	7,708.37	7,634.93	128.87	30.05	91.18	-6,116.41	3,593.61	2,837.31	2,681.54	155.77	18.215	
15,600.00	7,618.00	7,706.49	7,633.04	129.51	30.04	91.12	-6,116.45	3,593.61	2,763.57	2,607.23	156.34	17.677	
15,700.00	7,618.00	7,704.60	7,631.15	130.18	30.04	91.07	-6,116.48	3,593.61	2,691.52	2,534.62	156.90	17.154	
15,800.00	7,618.00	7,702.70	7,629.26	130.88	30.03	91.01	-6,116.52	3,593.61	2,621.31	2,463.85	157.46	16.647	
15,900.00	7,618.00	7,700.80	7,627.36	131.61	30.03	90.95	-6,116.55	3,593.60	2,553.08	2,395.07	158.00	16.158	
16,000.00	7,618.00	7,698.90	7,625.46	132.37	30.02	90.89	-6,116.59	3,593.60	2,487.00	2,328.47	158.52	15.688	
16,100.00	7,618.00	7,696.99	7,623.55	133.17	30.01	90.83	-6,116.62	3,593.60	2,423.24	2,264.23	159.01	15.239	
16,200.00	7,618.00	7,695.08	7,621.64	133.99	30.01	90.78	-6,116.66	3,593.60	2,362.00	2,202.54	159.46	14.812	
16,300.00	7,618.00	7,693.16	7,619.72	134.84	30.00	90.72	-6,116.69	3,593.60	2,303.47	2,143.61	159.86	14.409	
16,400.00	7,618.00	7,691.24	7,617.80	135.72	30.00	90.66	-6,116.73	3,593.60	2,247.87	2,087.67	160.20	14.032	
16,500.00	7,618.00	7,689.32	7,615.88	136.63	29.99	90.60	-6,116.76	3,593.60	2,195.41	2,034.95	160.46	13.682	
16,600.00	7,618.00	7,687.39	7,613.95	137.57	29.99	90.54	-6,116.80	3,593.61	2,146.33	1,985.71	160.62	13.363	
16,700.00	7,618.00	7,685.45	7,612.01	138.54	29.98	90.49	-6,116.83	3,593.61	2,100.87	1,940.19	160.68	13.075	
16,800.00	7,618.00	7,683.51	7,610.07	139.53	29.98	90.43	-6,116.87	3,593.61	2,059.26	1,898.64	160.62	12.821	
16,900.00	7,618.00	7,681.57	7,608.13	140.55	29.97	90.37	-6,116.90	3,593.61	2,021.74	1,861.32	160.42	12.603	
17,000.00	7,618.00	7,679.62	7,606.19	141.60	29.96	90.31	-6,116.94	3,593.61	1,988.54	1,828.47	160.07	12.423	
17,100.00	7,618.00	7,677.67	7,604.23	142.67	29.96	90.25	-6,116.97	3,593.61	1,959.89	1,800.33	159.56	12.283	
17,200.00	7,618.00	7,675.72	7,602.28	143.77	29.95	90.19	-6,117.01	3,593.61	1,935.99	1,777.10	158.89	12.185	
17,300.00	7,618.00	7,673.76	7,600.32	144.88	29.95	90.13	-6,117.05	3,593.61	1,917.01	1,758.97	158.04	12.130	
17,400.00	7,618.00	7,671.79	7,598.35	146.02	29.94	90.07	-6,117.08	3,593.61	1,903.10	1,746.08	157.02	12.120	SF
17,500.00	7,618.00	7,669.82	7,596.38	147.19	29.94	90.01	-6,117.12	3,593.61	1,894.36	1,738.54	155.83	12.157	
17,600.00	7,618.00	7,667.85	7,594.41	148.37	29.93	89.95	-6,117.16	3,593.62	1,890.89	1,736.40	154.49	12.240	ES
17,615.83	7,618.00	7,667.53	7,594.10	148.56	29.93	89.94	-6,117.16	3,593.62	1,890.82	1,736.56	154.26	12.257	CC
17,700.00	7,618.00	7,665.87	7,592.43	149.57	29.92	89.89	-6,117.19	3,593.62	1,892.69	1,739.68	153.01	12.370	
17,800.00	7,618.00	7,663.89	7,590.45	150.79	29.92	89.83	-6,117.23	3,593.62	1,899.77	1,748.35	151.42	12.546	
17,900.00	7,618.00	7,661.90	7,588.46	152.03	29.91	89.77	-6,117.27	3,593.62	1,912.05	1,762.31	149.74	12.769	
18,000.00	7,618.00	7,659.91	7,586.47	153.29	29.91	89.71	-6,117.30	3,593.63	1,929.44	1,781.44	148.00	13.037	
18,100.00	7,618.00	7,657.91	7,584.47	154.57	29.90	89.65	-6,117.34	3,593.63	1,951.81	1,805.59	146.22	13.349	
18,200.00	7,618.00	7,655.91	7,582.47	155.86	29.89	89.59	-6,117.38	3,593.63	1,978.97	1,834.54	144.43	13.702	
18,300.00	7,618.00	7,653.90	7,580.47	157.17	29.89	89.53	-6,117.41	3,593.63	2,010.75	1,868.09	142.67	14.094	
18,400.00	7,618.00	7,651.89	7,578.45	158.49	29.88	89.47	-6,117.45	3,593.64	2,046.93	1,905.99	140.94	14.523	
18,500.00	7,618.00	7,649.87	7,576.44	159.82	29.88	89.41	-6,117.49	3,593.64	2,087.27	1,947.99	139.27	14.987	
18,600.00	7,618.00	7,647.85	7,574.42	161.17	29.87	89.35	-6,117.53	3,593.64	2,131.54	1,993.85	137.68	15.481	
18,700.00	7,618.00	7,645.83	7,572.39	162.54	29.87	89.28	-6,117.56	3,593.65	2,179.50	2,043.31	136.18	16.004	
18,800.00	7,618.00	7,643.80	7,570.37	163.91	29.86	89.22	-6,117.60	3,593.65	2,230.91	2,096.13	134.78	16.553	
18,900.00	7,618.00	7,641.76	7,568.33	165.30	29.85	89.16	-6,117.64	3,593.65	2,285.54	2,152.07	133.47	17.124	
19,000.00	7,618.00	7,639.72	7,566.29	166.70	29.85	89.10	-6,117.68	3,593.66	2,343.17	2,210.90	132.27	17.715	
19,100.00	7,618.00	7,637.68	7,564.25	168.10	29.84	89.04	-6,117.72	3,593.66	2,403.57	2,272.40	131.17	18.324	
19,200.00	7,618.00	7,635.63	7,562.20	169.52	29.84	88.98	-6,117.76	3,593.66	2,466.55	2,336.38	130.17	18.949	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,300.00	7,618.00	7,633.58	7,560.15	170.95	29.83	88.91	-6,117.80	3,593.67	2,531.91	2,402.65	129.27	19.587	
19,400.00	7,618.00	7,631.52	7,558.09	172.39	29.82	88.85	-6,117.83	3,593.67	2,599.48	2,471.03	128.45	20.237	
19,500.00	7,618.00	7,629.46	7,556.03	173.84	29.82	88.79	-6,117.87	3,593.68	2,669.08	2,541.35	127.73	20.897	
19,600.00	7,618.00	7,627.39	7,553.96	175.30	29.81	88.73	-6,117.91	3,593.68	2,740.56	2,613.48	127.08	21.565	
19,700.00	7,618.00	7,625.32	7,551.89	176.76	29.81	88.66	-6,117.95	3,593.69	2,813.78	2,687.27	126.51	22.241	
19,800.00	7,618.00	7,623.24	7,549.81	178.24	29.80	88.60	-6,117.99	3,593.69	2,888.60	2,762.60	126.01	22.924	
19,896.19	7,618.00	7,621.23	7,547.80	179.66	29.79	88.54	-6,118.03	3,593.70	2,961.98	2,836.39	125.58	23.586	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	162.08	-5,370.28	1,736.95	5,644.21				
100.00	100.00	67.27	67.27	0.13	0.11	162.08	-5,370.41	1,736.90	5,644.33	5,644.09	0.24	N/A	
200.00	200.00	175.30	175.30	0.49	0.42	162.08	-5,370.87	1,736.76	5,644.70	5,643.79	0.92	6,150.356	
300.00	299.98	316.03	316.02	0.85	0.91	92.79	-5,370.63	1,736.65	5,644.60	5,642.84	1.76	3,208.323	
400.00	399.84	422.15	422.14	1.21	1.28	92.85	-5,369.97	1,736.66	5,644.26	5,641.78	2.48	2,271.615	
500.00	499.45	577.47	577.46	1.58	1.83	92.99	-5,368.28	1,737.26	5,643.91	5,640.51	3.40	1,658.335	
600.00	598.70	669.88	669.85	1.97	2.15	93.11	-5,366.39	1,737.98	5,642.85	5,638.72	4.12	1,369.095	
700.00	697.47	754.73	754.67	2.38	2.46	93.25	-5,364.97	1,738.68	5,642.36	5,637.52	4.84	1,166.125	
771.60	767.82	819.47	819.40	2.70	2.69	93.36	-5,363.97	1,739.22	5,642.25	5,636.86	5.39	1,047.194	
800.00	795.62	844.65	844.58	2.83	2.78	93.41	-5,363.60	1,739.46	5,642.27	5,636.67	5.60	1,006.723	
900.00	893.06	921.76	921.68	3.31	3.05	93.57	-5,362.51	1,740.31	5,642.65	5,636.29	6.36	887.061	
1,000.00	989.64	979.60	979.52	3.83	3.26	93.68	-5,362.02	1,741.12	5,643.92	5,636.83	7.09	796.090	
1,100.00	1,085.27	1,052.07	1,051.97	4.40	3.51	93.84	-5,361.80	1,742.36	5,646.12	5,638.21	7.92	713.327	
1,200.00	1,179.82	1,144.46	1,144.34	5.02	3.84	94.07	-5,361.67	1,744.19	5,648.94	5,640.08	8.86	637.449	
1,300.00	1,273.17	1,255.51	1,255.38	5.70	4.23	94.40	-5,361.51	1,745.68	5,652.02	5,642.09	9.93	569.190	
1,400.00	1,365.21	1,347.76	1,347.64	6.43	4.56	94.69	-5,361.37	1,746.16	5,655.40	5,644.41	10.99	514.804	
1,500.00	1,455.84	1,434.69	1,434.56	7.23	4.86	94.98	-5,361.48	1,746.25	5,659.48	5,647.40	12.08	468.642	
1,600.00	1,544.94	1,541.69	1,541.57	8.09	5.22	95.38	-5,361.49	1,746.16	5,664.07	5,650.77	13.30	425.999	
1,700.00	1,632.39	1,640.56	1,640.43	9.01	5.57	95.77	-5,361.17	1,746.04	5,669.06	5,654.51	14.56	389.423	
1,800.00	1,718.11	1,721.40	1,721.27	10.00	5.85	96.07	-5,360.92	1,745.84	5,674.84	5,659.02	15.82	358.629	
1,900.00	1,801.97	1,796.70	1,796.56	11.07	6.11	96.35	-5,360.86	1,745.37	5,681.58	5,664.45	17.13	331.586	
2,000.00	1,883.88	1,926.35	1,926.20	12.20	6.56	96.96	-5,360.33	1,743.68	5,688.83	5,670.13	18.70	304.185	
2,100.00	1,963.74	1,992.62	1,992.47	13.41	6.79	97.21	-5,359.97	1,742.63	5,697.01	5,676.89	20.12	283.185	
2,200.00	2,041.45	2,066.54	2,066.37	14.69	7.04	97.50	-5,359.70	1,741.34	5,706.42	5,684.79	21.63	263.858	
2,300.00	2,116.92	2,141.87	2,141.69	16.05	7.31	97.79	-5,359.48	1,739.80	5,717.03	5,693.82	23.21	246.347	
2,357.48	2,159.25	2,185.43	2,185.24	16.86	7.46	97.96	-5,359.34	1,738.90	5,723.68	5,699.53	24.14	237.056	
2,400.00	2,190.27	2,216.77	2,216.57	17.47	7.57	98.18	-5,359.23	1,738.25	5,728.82	5,703.98	24.84	230.596	
2,500.00	2,263.22	2,289.29	2,289.07	18.92	7.82	98.68	-5,358.97	1,736.76	5,741.49	5,715.00	26.49	216.748	
2,600.00	2,336.18	2,366.62	2,366.38	20.37	8.09	99.22	-5,358.66	1,735.10	5,754.94	5,726.79	28.15	204.404	
2,700.00	2,409.14	2,452.82	2,452.56	21.84	8.39	99.82	-5,358.22	1,732.97	5,769.10	5,739.25	29.85	193.257	
2,800.00	2,482.09	2,526.11	2,525.82	23.31	8.65	100.33	-5,357.74	1,730.63	5,783.89	5,752.39	31.50	183.611	
2,900.00	2,555.05	2,580.52	2,580.20	24.78	8.84	100.71	-5,357.46	1,729.14	5,799.64	5,766.56	33.08	175.330	
3,000.00	2,628.01	2,628.81	2,628.48	26.27	9.01	101.04	-5,357.33	1,728.10	5,816.42	5,781.80	34.63	167.972	
3,100.00	2,700.96	2,673.49	2,673.15	27.75	9.17	101.34	-5,357.41	1,727.23	5,834.32	5,798.16	36.16	161.367	
3,200.00	2,773.92	2,743.98	2,743.63	29.24	9.42	101.82	-5,357.79	1,726.01	5,853.25	5,815.48	37.77	154.972	
3,300.00	2,846.88	2,966.59	2,966.20	30.73	10.21	103.32	-5,355.96	1,723.13	5,872.12	5,832.19	39.93	147.061	
3,400.00	2,919.83	3,051.58	3,051.17	32.23	10.51	103.89	-5,353.87	1,722.46	5,890.43	5,848.85	41.58	141.651	
3,500.00	2,992.79	3,111.33	3,110.90	33.72	10.72	104.28	-5,352.49	1,721.75	5,909.58	5,866.45	43.14	136.992	
3,600.00	3,065.75	3,160.49	3,160.04	35.22	10.89	104.61	-5,351.52	1,721.01	5,929.71	5,885.07	44.64	132.823	
3,700.00	3,138.71	3,200.00	3,199.54	36.72	11.03	104.87	-5,350.88	1,720.33	5,950.86	5,904.76	46.10	129.081	
3,800.00	3,211.66	3,249.81	3,249.33	38.22	11.21	105.21	-5,350.31	1,719.21	5,973.06	5,925.48	47.58	125.526	
3,900.00	3,284.62	3,300.00	3,299.50	39.72	11.39	105.54	-5,350.05	1,717.66	5,996.38	5,947.32	49.05	122.239	
4,000.00	3,357.58	3,388.54	3,387.98	41.22	11.70	106.14	-5,349.61	1,714.42	6,020.50	5,969.85	50.65	118.857	
4,100.00	3,430.53	3,451.74	3,451.13	42.73	11.93	106.56	-5,349.13	1,712.00	6,045.15	5,993.00	52.15	115.927	
4,200.00	3,503.49	3,514.55	3,513.89	44.23	12.15	106.98	-5,348.79	1,709.62	6,070.66	6,017.04	53.62	113.207	
4,300.00	3,576.45	3,605.87	3,605.16	45.74	12.48	107.59	-5,348.17	1,706.48	6,096.80	6,041.60	55.20	110.455	
4,400.00	3,649.40	3,688.58	3,687.83	47.25	12.78	108.13	-5,347.42	1,704.24	6,123.44	6,066.72	56.73	107.948	
4,500.00	3,722.36	3,760.68	3,759.91	48.75	13.03	108.59	-5,346.71	1,702.70	6,150.68	6,092.48	58.20	105.677	
4,600.00	3,795.32	3,834.11	3,833.33	50.26	13.29	109.06	-5,346.01	1,701.38	6,178.60	6,118.93	59.67	103.546	
4,700.00	3,868.27	3,914.92	3,914.14	51.77	13.58	109.57	-5,345.30	1,701.46	6,207.09	6,145.94	61.15	101.501	
4,800.00	3,941.23	4,002.61	4,001.82	53.28	13.88	110.11	-5,344.39	1,702.01	6,236.06	6,173.41	62.65	99.540	
4,900.00	4,014.19	4,065.03	4,064.23	54.79	14.10	110.49	-5,343.71	1,702.10	6,265.61	6,201.57	64.04	97.843	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,087.15	4,138.33	4,137.53	56.30	14.36	110.94	-5,342.96	1,701.78	6,295.85	6,230.40	65.45	96.187	
5,100.00	4,160.10	4,232.27	4,231.46	57.81	14.70	111.52	-5,341.78	1,701.06	6,326.56	6,259.63	66.94	94.514	
5,200.00	4,233.06	5,200.00	4,367.84	59.32	18.16	112.36	-5,338.76	1,698.40	6,357.23	6,285.69	71.54	88.866	
5,300.00	4,306.02	4,480.11	4,479.17	60.83	15.58	113.04	-5,335.41	1,696.74	6,387.88	6,317.80	70.08	91.152	
5,400.00	4,378.97	4,572.99	4,572.01	62.34	15.91	113.60	-5,332.50	1,696.36	6,418.97	6,347.46	71.52	89.756	
5,500.00	4,451.93	4,733.20	4,732.08	63.85	16.48	114.54	-5,326.12	1,696.21	6,449.95	6,376.76	73.18	88.135	
5,600.00	4,524.89	4,815.20	4,813.99	65.36	16.77	115.03	-5,322.12	1,695.59	6,480.93	6,406.38	74.55	86.935	
5,700.00	4,597.84	4,867.60	4,866.32	66.88	16.96	115.34	-5,319.62	1,695.00	6,512.59	6,436.79	75.80	85.922	
5,800.00	4,670.80	4,918.38	4,917.04	68.39	17.14	115.64	-5,317.34	1,694.34	6,545.04	6,468.02	77.02	84.976	
5,900.00	4,743.76	4,966.68	4,965.30	69.90	17.32	115.92	-5,315.35	1,693.64	6,578.31	6,500.08	78.22	84.095	
6,000.00	4,816.71	5,000.00	4,998.59	71.41	17.43	116.12	-5,314.07	1,693.11	6,612.41	6,533.06	79.35	83.327	
6,100.00	4,889.67	5,035.76	5,034.33	72.93	17.56	116.32	-5,312.89	1,692.50	6,647.47	6,566.99	80.48	82.601	
6,200.00	4,962.63	5,062.89	5,061.44	74.44	17.66	116.48	-5,312.21	1,691.98	6,683.55	6,602.00	81.55	81.957	
6,300.00	5,035.59	5,100.00	5,098.54	75.95	17.79	116.70	-5,311.57	1,691.20	6,720.66	6,638.02	82.64	81.322	
6,400.00	5,108.54	5,139.46	5,137.99	77.47	17.93	116.93	-5,311.08	1,690.36	6,758.64	6,674.91	83.73	80.720	
6,500.00	5,181.50	5,203.61	5,202.12	78.98	18.16	117.29	-5,310.40	1,689.16	6,797.26	6,712.36	84.90	80.059	
6,600.00	5,254.46	5,275.34	5,273.85	80.49	18.41	117.70	-5,309.89	1,688.60	6,836.40	6,750.31	86.09	79.406	
6,700.00	5,327.41	5,366.54	5,365.04	82.01	18.73	118.19	-5,309.51	1,689.24	6,875.94	6,788.58	87.36	78.710	
6,800.00	5,400.37	5,444.22	5,442.72	83.52	19.00	118.61	-5,309.03	1,689.94	6,915.73	6,827.17	88.56	78.095	
6,900.00	5,473.33	5,513.45	5,511.95	85.04	19.24	118.99	-5,308.48	1,689.95	6,956.01	6,866.30	89.70	77.544	
7,000.00	5,546.28	5,604.38	5,602.86	86.55	19.57	119.48	-5,307.42	1,689.19	6,996.63	6,905.70	90.93	76.943	
7,100.00	5,619.24	5,648.62	5,647.10	88.06	19.73	119.72	-5,306.85	1,688.47	7,037.75	6,945.80	91.95	76.539	
7,200.00	5,692.20	5,700.00	5,698.46	89.58	19.91	120.01	-5,306.27	1,687.28	7,079.59	6,986.61	92.98	76.140	
7,300.00	5,765.15	5,800.86	5,799.28	91.09	20.27	120.56	-5,305.03	1,684.79	7,121.85	7,027.64	94.21	75.598	
7,400.00	5,838.11	5,854.30	5,852.70	92.61	20.46	120.84	-5,304.33	1,683.58	7,164.42	7,069.20	95.22	75.238	
7,500.00	5,911.07	5,918.60	5,916.99	94.12	20.69	121.19	-5,303.65	1,682.11	7,207.58	7,111.31	96.27	74.865	
7,600.00	5,984.03	6,094.79	6,093.14	95.64	21.32	122.11	-5,301.34	1,680.24	7,250.79	7,153.00	97.79	74.143	
7,700.00	6,056.98	6,222.09	6,220.41	97.15	21.77	122.75	-5,298.33	1,680.29	7,293.21	7,194.12	99.10	73.597	
7,800.00	6,129.94	6,264.54	6,262.85	98.67	21.92	122.97	-5,297.32	1,680.26	7,336.12	7,236.08	100.03	73.336	
7,900.00	6,202.90	6,335.83	6,334.12	100.18	22.18	123.33	-5,295.83	1,679.97	7,379.69	7,278.61	101.08	73.009	
8,000.00	6,275.85	6,453.89	6,452.13	101.70	22.60	123.92	-5,292.68	1,679.63	7,423.14	7,320.83	102.31	72.556	
8,100.00	6,348.81	6,518.00	6,516.23	103.21	22.82	124.23	-5,291.16	1,680.24	7,466.90	7,363.59	103.31	72.278	
8,200.00	6,421.77	6,563.50	6,561.72	104.73	22.98	124.44	-5,290.33	1,680.91	7,511.22	7,407.00	104.22	72.072	
8,300.00	6,494.72	6,700.00	6,698.17	106.24	23.45	125.08	-5,288.12	1,683.72	7,555.98	7,450.47	105.51	71.612	
8,400.00	6,567.68	6,737.57	6,735.72	107.76	23.59	125.26	-5,287.35	1,684.52	7,600.64	7,494.27	106.37	71.453	
8,500.00	6,640.64	6,768.88	6,767.02	109.27	23.70	125.40	-5,286.81	1,684.95	7,646.04	7,538.85	107.19	71.331	
8,600.00	6,713.59	6,800.00	6,798.14	110.79	23.80	125.55	-5,286.37	1,685.16	7,692.17	7,584.18	107.99	71.227	
8,700.00	6,786.55	6,862.84	6,860.98	112.30	24.03	125.84	-5,285.67	1,685.44	7,738.88	7,629.95	108.93	71.046	
8,800.00	6,859.51	6,971.53	6,969.66	113.82	24.41	126.34	-5,284.59	1,686.39	7,785.90	7,675.84	110.06	70.742	
8,900.00	6,932.46	7,066.40	7,064.51	115.33	24.74	126.77	-5,283.33	1,687.72	7,832.77	7,721.65	111.12	70.487	
9,000.00	7,005.42	7,137.48	7,135.57	116.85	24.99	127.09	-5,282.44	1,688.97	7,879.89	7,767.82	112.07	70.310	
9,104.89	7,081.95	7,200.00	7,198.08	118.44	25.20	127.36	-5,281.60	1,689.81	7,929.72	7,816.71	113.01	70.171	
9,150.00	7,115.15	7,225.29	7,223.37	119.12	25.29	121.88	-5,281.28	1,690.09	7,949.82	7,836.41	113.41	70.101	
9,200.00	7,152.46	7,249.52	7,247.59	119.86	25.38	115.71	-5,281.01	1,690.33	7,968.72	7,854.86	113.85	69.991	
9,250.00	7,190.04	7,273.86	7,271.92	120.57	25.46	109.58	-5,280.77	1,690.57	7,983.94	7,869.62	114.32	69.837	
9,300.00	7,227.59	7,300.00	7,298.07	121.25	25.55	103.63	-5,280.56	1,690.81	7,995.39	7,880.58	114.81	69.640	
9,350.00	7,264.83	7,334.01	7,332.07	121.89	25.67	98.02	-5,280.32	1,691.10	8,002.97	7,887.63	115.34	69.385	
9,400.00	7,301.48	7,370.20	7,368.26	122.48	25.80	92.85	-5,280.05	1,691.38	8,006.61	7,890.72	115.88	69.092	
9,450.00	7,337.26	7,405.44	7,403.50	123.01	25.92	88.20	-5,279.77	1,691.62	8,006.29	7,889.88	116.42	68.774	
9,500.00	7,371.90	7,439.18	7,437.24	123.49	26.04	84.13	-5,279.52	1,691.86	8,002.04	7,885.11	116.93	68.435	
9,550.00	7,405.13	7,471.64	7,469.69	123.91	26.15	80.67	-5,279.29	1,692.12	7,993.90	7,876.48	117.42	68.079	
9,600.00	7,436.70	7,502.62	7,500.68	124.27	26.26	77.82	-5,279.09	1,692.40	7,981.93	7,864.04	117.89	67.709	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	7,532.95	7,531.00	124.57	26.37	75.59	-5,278.91	1,692.69	7,966.22	7,847.90	118.32	67.326	
9,700.00	7,493.91	7,561.10	7,559.15	124.81	26.47	73.97	-5,278.74	1,692.98	7,946.91	7,828.18	118.72	66.936	
9,750.00	7,519.11	7,586.86	7,584.91	125.00	26.56	72.94	-5,278.60	1,693.25	7,924.12	7,805.03	119.09	66.541	
9,800.00	7,541.79	7,610.03	7,608.08	125.12	26.64	72.52	-5,278.47	1,693.51	7,898.03	7,778.62	119.41	66.144	
9,850.00	7,561.77	7,617.29	7,615.33	125.20	26.66	72.61	-5,278.44	1,693.58	7,868.86	7,749.24	119.62	65.781	
9,900.00	7,578.90	7,627.26	7,625.30	125.23	26.69	73.41	-5,278.41	1,693.69	7,836.80	7,716.97	119.82	65.403	
9,950.00	7,593.04	7,635.52	7,633.56	125.22	26.72	74.94	-5,278.39	1,693.78	7,802.07	7,682.08	119.99	65.024	
10,000.00	7,604.09	7,641.99	7,640.03	125.17	26.74	77.32	-5,278.38	1,693.85	7,764.92	7,644.80	120.12	64.644	
10,050.00	7,611.97	7,646.61	7,644.66	125.08	26.76	80.68	-5,278.37	1,693.90	7,725.60	7,605.38	120.22	64.263	
10,100.00	7,616.61	7,649.34	7,647.39	124.97	26.77	85.23	-5,278.37	1,693.93	7,684.39	7,564.10	120.29	63.881	
10,145.95	7,618.00	7,650.15	7,648.19	124.84	26.77	90.67	-5,278.37	1,693.93	7,645.09	7,524.76	120.34	63.531	
10,200.00	7,618.00	7,650.13	7,648.17	124.69	26.77	90.67	-5,278.37	1,693.93	7,598.21	7,477.84	120.38	63.119	
10,300.00	7,618.00	7,650.08	7,648.13	124.41	26.77	90.67	-5,278.37	1,693.93	7,511.74	7,391.28	120.46	62.360	
10,400.00	7,618.00	7,650.04	7,648.09	124.14	26.77	90.67	-5,278.37	1,693.93	7,425.60	7,305.06	120.54	61.602	
10,500.00	7,618.00	7,650.00	7,648.04	123.88	26.77	90.67	-5,278.37	1,693.93	7,339.81	7,219.18	120.63	60.846	
10,600.00	7,618.00	7,649.96	7,648.00	123.63	26.77	90.66	-5,278.37	1,693.93	7,254.39	7,133.67	120.72	60.093	
10,700.00	7,618.00	7,649.91	7,647.96	123.40	26.77	90.66	-5,278.37	1,693.93	7,169.34	7,048.52	120.82	59.341	
10,800.00	7,618.00	7,649.87	7,647.91	123.18	26.77	90.66	-5,278.37	1,693.93	7,084.68	6,963.77	120.92	58.592	
10,900.00	7,618.00	7,649.82	7,647.87	122.96	26.77	90.66	-5,278.37	1,693.93	7,000.43	6,879.41	121.02	57.845	
11,000.00	7,618.00	7,649.78	7,647.82	122.76	26.77	90.66	-5,278.37	1,693.93	6,916.60	6,795.47	121.13	57.101	
11,100.00	7,618.00	7,649.73	7,647.78	122.57	26.77	90.66	-5,278.37	1,693.93	6,833.20	6,711.96	121.24	56.359	
11,200.00	7,618.00	7,649.69	7,647.73	122.39	26.77	90.66	-5,278.37	1,693.93	6,750.26	6,628.89	121.36	55.620	
11,300.00	7,618.00	7,649.64	7,647.69	122.23	26.77	90.66	-5,278.37	1,693.93	6,667.78	6,546.29	121.49	54.883	
11,400.00	7,618.00	7,649.59	7,647.64	122.07	26.77	90.66	-5,278.37	1,693.93	6,585.79	6,464.17	121.62	54.150	
11,500.00	7,618.00	7,649.54	7,647.59	121.93	26.77	90.66	-5,278.37	1,693.93	6,504.30	6,382.54	121.76	53.420	
11,600.00	7,618.00	7,649.50	7,647.54	121.79	26.77	90.66	-5,278.37	1,693.93	6,423.34	6,301.43	121.90	52.693	
11,700.00	7,618.00	7,649.45	7,647.49	121.67	26.77	90.66	-5,278.37	1,693.93	6,342.91	6,220.86	122.05	51.969	
11,800.00	7,618.00	7,649.40	7,647.44	121.56	26.77	90.66	-5,278.37	1,693.93	6,263.06	6,140.85	122.21	51.250	
11,900.00	7,618.00	7,649.35	7,647.39	121.46	26.77	90.66	-5,278.37	1,693.93	6,183.78	6,061.41	122.37	50.533	
12,000.00	7,618.00	7,649.30	7,647.34	121.38	26.77	90.65	-5,278.37	1,693.93	6,105.12	5,982.58	122.54	49.821	
12,100.00	7,618.00	7,649.24	7,647.29	121.30	26.77	90.65	-5,278.37	1,693.93	6,027.09	5,904.37	122.72	49.114	
12,200.00	7,618.00	7,649.19	7,647.24	121.24	26.77	90.65	-5,278.37	1,693.92	5,949.72	5,826.81	122.90	48.410	
12,300.00	7,618.00	7,649.14	7,647.18	121.19	26.77	90.65	-5,278.37	1,693.92	5,873.03	5,749.93	123.10	47.711	
12,400.00	7,618.00	7,649.08	7,647.13	121.16	26.77	90.65	-5,278.37	1,693.92	5,797.05	5,673.75	123.30	47.017	
12,500.00	7,618.00	7,649.03	7,647.08	121.14	26.77	90.65	-5,278.37	1,693.92	5,721.81	5,598.30	123.51	46.328	
12,600.00	7,618.00	7,648.97	7,647.02	121.13	26.77	90.65	-5,278.37	1,693.92	5,647.33	5,523.61	123.72	45.645	
12,700.00	7,618.00	7,648.92	7,646.96	121.13	26.77	90.65	-5,278.37	1,693.92	5,573.66	5,449.71	123.95	44.967	
12,800.00	7,618.00	7,648.86	7,646.91	121.15	26.77	90.65	-5,278.37	1,693.92	5,500.82	5,376.63	124.19	44.295	
12,900.00	7,618.00	7,648.80	7,646.85	121.18	26.77	90.65	-5,278.37	1,693.92	5,428.84	5,304.41	124.43	43.629	
13,000.00	7,618.00	7,648.75	7,646.79	121.23	26.77	90.65	-5,278.37	1,693.92	5,357.76	5,233.08	124.69	42.970	
13,100.00	7,618.00	7,648.69	7,646.73	121.29	26.77	90.65	-5,278.37	1,693.92	5,287.62	5,162.67	124.95	42.318	
13,200.00	7,618.00	7,648.63	7,646.67	121.37	26.77	90.64	-5,278.37	1,693.92	5,218.45	5,093.23	125.22	41.673	
13,300.00	7,618.00	7,648.57	7,646.61	121.46	26.77	90.64	-5,278.37	1,693.92	5,150.30	5,024.79	125.51	41.036	
13,400.00	7,618.00	7,648.50	7,646.55	121.57	26.77	90.64	-5,278.37	1,693.92	5,083.19	4,957.39	125.80	40.406	
13,500.00	7,618.00	7,648.44	7,646.49	121.70	26.77	90.64	-5,278.37	1,693.92	5,017.19	4,891.08	126.11	39.785	
13,600.00	7,618.00	7,648.38	7,646.42	121.84	26.77	90.64	-5,278.37	1,693.92	4,952.32	4,825.90	126.42	39.173	
13,700.00	7,618.00	7,648.31	7,646.36	122.01	26.77	90.64	-5,278.37	1,693.92	4,888.64	4,761.89	126.75	38.570	
13,800.00	7,618.00	7,648.25	7,646.29	122.19	26.77	90.64	-5,278.37	1,693.91	4,826.19	4,699.11	127.08	37.977	
13,900.00	7,618.00	7,648.18	7,646.23	122.39	26.77	90.64	-5,278.37	1,693.91	4,765.02	4,637.59	127.43	37.393	
14,000.00	7,618.00	7,648.11	7,646.16	122.62	26.77	90.64	-5,278.37	1,693.91	4,705.18	4,577.40	127.79	36.821	
14,100.00	7,618.00	7,648.05	7,646.09	122.86	26.77	90.64	-5,278.37	1,693.91	4,646.72	4,518.57	128.15	36.260	
14,200.00	7,618.00	7,647.98	7,646.02	123.12	26.77	90.63	-5,278.37	1,693.91	4,589.70	4,461.17	128.53	35.710	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	7,647.91	7,645.95	123.41	26.77	90.63	-5,278.37	1,693.91	4,534.17	4,405.25	128.91	35.172	
14,400.00	7,618.00	7,647.84	7,645.88	123.72	26.76	90.63	-5,278.37	1,693.91	4,480.18	4,350.87	129.31	34.648	
14,500.00	7,618.00	7,647.76	7,645.81	124.06	26.76	90.63	-5,278.37	1,693.91	4,427.79	4,298.08	129.71	34.136	
14,600.00	7,618.00	7,647.69	7,645.74	124.42	26.76	90.63	-5,278.37	1,693.91	4,377.05	4,246.94	130.12	33.639	
14,700.00	7,618.00	7,647.62	7,645.66	124.80	26.76	90.63	-5,278.37	1,693.91	4,328.04	4,197.50	130.53	33.156	
14,800.00	7,618.00	7,647.54	7,645.58	125.21	26.76	90.63	-5,278.37	1,693.91	4,280.80	4,149.84	130.96	32.688	
14,900.00	7,618.00	7,647.46	7,645.51	125.65	26.76	90.63	-5,278.37	1,693.91	4,235.39	4,104.01	131.39	32.236	
15,000.00	7,618.00	7,647.38	7,645.43	126.11	26.76	90.63	-5,278.37	1,693.91	4,191.88	4,060.06	131.82	31.801	
15,100.00	7,618.00	7,647.30	7,645.35	126.61	26.76	90.62	-5,278.37	1,693.90	4,150.32	4,018.07	132.25	31.382	
15,200.00	7,618.00	7,647.22	7,645.27	127.13	26.76	90.62	-5,278.37	1,693.90	4,110.78	3,978.09	132.69	30.980	
15,300.00	7,618.00	7,647.14	7,645.19	127.68	26.76	90.62	-5,278.37	1,693.90	4,073.30	3,940.18	133.13	30.597	
15,400.00	7,618.00	7,647.06	7,645.10	128.26	26.76	90.62	-5,278.37	1,693.90	4,037.96	3,904.40	133.56	30.233	
15,500.00	7,618.00	7,646.97	7,645.02	128.87	26.76	90.62	-5,278.37	1,693.90	4,004.80	3,870.80	134.00	29.888	
15,600.00	7,618.00	7,646.89	7,644.93	129.51	26.76	90.62	-5,278.37	1,693.90	3,973.88	3,839.46	134.42	29.562	
15,700.00	7,618.00	7,646.80	7,644.84	130.18	26.76	90.62	-5,278.37	1,693.90	3,945.26	3,810.41	134.85	29.257	
15,800.00	7,618.00	7,646.71	7,644.75	130.88	26.76	90.62	-5,278.37	1,693.90	3,918.97	3,783.71	135.26	28.973	
15,900.00	7,618.00	7,646.62	7,644.66	131.61	26.76	90.61	-5,278.37	1,693.90	3,895.08	3,759.41	135.67	28.710	
16,000.00	7,618.00	7,646.53	7,644.57	132.37	26.76	90.61	-5,278.37	1,693.90	3,873.63	3,737.56	136.06	28.470	
16,100.00	7,618.00	7,646.43	7,644.48	133.17	26.76	90.61	-5,278.37	1,693.90	3,854.65	3,718.20	136.44	28.251	
16,200.00	7,618.00	7,646.34	7,644.38	133.99	26.76	90.61	-5,278.37	1,693.89	3,838.18	3,701.37	136.81	28.055	
16,300.00	7,618.00	7,646.24	7,644.28	134.84	26.76	90.61	-5,278.37	1,693.89	3,824.25	3,687.09	137.16	27.882	
16,400.00	7,618.00	7,646.14	7,644.19	135.72	26.76	90.61	-5,278.37	1,693.89	3,812.90	3,675.41	137.49	27.732	
16,500.00	7,618.00	7,646.04	7,644.08	136.63	26.76	90.61	-5,278.37	1,693.89	3,804.15	3,666.34	137.80	27.606	
16,600.00	7,618.00	7,645.94	7,643.98	137.57	26.76	90.60	-5,278.37	1,693.89	3,798.01	3,659.91	138.10	27.503	
16,700.00	7,618.00	7,645.83	7,643.88	138.54	26.76	90.60	-5,278.37	1,693.89	3,794.49	3,656.13	138.37	27.424	
16,783.44	7,618.00	7,645.74	7,643.79	139.37	26.76	90.60	-5,278.37	1,693.89	3,793.57	3,655.00	138.57	27.376	CC
16,800.00	7,618.00	7,645.72	7,643.77	139.53	26.76	90.60	-5,278.37	1,693.89	3,793.61	3,655.00	138.61	27.369	ES
16,900.00	7,618.00	7,645.62	7,643.66	140.55	26.76	90.60	-5,278.37	1,693.89	3,795.36	3,656.53	138.83	27.337	
17,000.00	7,618.00	7,645.51	7,643.55	141.60	26.76	90.60	-5,278.37	1,693.89	3,799.75	3,660.72	139.03	27.330	SF
17,100.00	7,618.00	7,645.39	7,643.44	142.67	26.76	90.60	-5,278.37	1,693.88	3,806.76	3,667.55	139.21	27.346	
17,200.00	7,618.00	7,645.28	7,643.32	143.77	26.76	90.59	-5,278.37	1,693.88	3,816.37	3,677.02	139.35	27.386	
17,300.00	7,618.00	7,645.16	7,643.21	144.88	26.76	90.59	-5,278.37	1,693.88	3,828.58	3,689.10	139.48	27.450	
17,400.00	7,618.00	7,645.04	7,643.09	146.02	26.76	90.59	-5,278.37	1,693.88	3,843.35	3,703.78	139.57	27.536	
17,500.00	7,618.00	7,644.92	7,642.96	147.19	26.75	90.59	-5,278.37	1,693.88	3,860.65	3,721.01	139.65	27.646	
17,600.00	7,618.00	7,644.79	7,642.84	148.37	26.75	90.59	-5,278.37	1,693.88	3,880.46	3,740.76	139.69	27.778	
17,700.00	7,618.00	7,644.67	7,642.71	149.57	26.75	90.58	-5,278.37	1,693.88	3,902.73	3,763.01	139.72	27.933	
17,800.00	7,618.00	7,644.54	7,642.58	150.79	26.75	90.58	-5,278.37	1,693.88	3,927.41	3,787.69	139.72	28.109	
17,900.00	7,618.00	7,644.41	7,642.45	152.03	26.75	90.58	-5,278.37	1,693.87	3,954.48	3,814.78	139.70	28.307	
18,000.00	7,618.00	7,644.27	7,642.32	153.29	26.75	90.58	-5,278.37	1,693.87	3,983.87	3,844.21	139.66	28.526	
18,100.00	7,618.00	7,644.13	7,642.18	154.57	26.75	90.58	-5,278.37	1,693.87	4,015.53	3,875.94	139.59	28.766	
18,200.00	7,618.00	7,643.99	7,642.04	155.86	26.75	90.57	-5,278.37	1,693.87	4,049.42	3,909.91	139.51	29.025	
18,300.00	7,618.00	7,643.85	7,641.89	157.17	26.75	90.57	-5,278.37	1,693.87	4,085.48	3,946.06	139.42	29.304	
18,400.00	7,618.00	7,643.70	7,641.75	158.49	26.75	90.57	-5,278.37	1,693.87	4,123.65	3,984.34	139.30	29.602	
18,500.00	7,618.00	7,643.55	7,641.60	159.82	26.75	90.57	-5,278.37	1,693.87	4,163.86	4,024.69	139.17	29.919	
18,600.00	7,618.00	7,643.40	7,641.44	161.17	26.75	90.57	-5,278.37	1,693.86	4,206.08	4,067.05	139.03	30.254	
18,700.00	7,618.00	7,643.24	7,641.29	162.54	26.75	90.56	-5,278.37	1,693.86	4,250.22	4,111.35	138.87	30.605	
18,800.00	7,618.00	7,643.08	7,641.13	163.91	26.75	90.56	-5,278.37	1,693.86	4,296.24	4,157.54	138.70	30.974	
18,900.00	7,618.00	7,642.92	7,640.96	165.30	26.75	90.56	-5,278.37	1,693.86	4,344.08	4,205.55	138.53	31.359	
19,000.00	7,618.00	7,642.75	7,640.79	166.70	26.75	90.56	-5,278.38	1,693.86	4,393.67	4,255.33	138.34	31.759	
19,100.00	7,618.00	7,642.58	7,640.62	168.10	26.75	90.55	-5,278.38	1,693.86	4,444.96	4,306.81	138.15	32.175	
19,200.00	7,618.00	7,642.40	7,640.45	169.52	26.75	90.55	-5,278.38	1,693.85	4,497.88	4,359.93	137.95	32.605	
19,300.00	7,618.00	7,642.22	7,640.27	170.95	26.75	90.55	-5,278.38	1,693.85	4,552.39	4,414.65	137.74	33.049	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	7,642.04	7,640.08	172.39	26.74	90.54	-5,278.38	1,693.85	4,608.42	4,470.89	137.54	33.507	
19,500.00	7,618.00	7,641.85	7,639.89	173.84	26.74	90.54	-5,278.38	1,693.85	4,665.93	4,528.61	137.32	33.978	
19,600.00	7,618.00	7,641.65	7,639.70	175.30	26.74	90.54	-5,278.38	1,693.85	4,724.85	4,587.74	137.11	34.461	
19,700.00	7,618.00	7,641.45	7,639.50	176.76	26.74	90.54	-5,278.38	1,693.84	4,785.13	4,648.24	136.89	34.956	
19,800.00	7,618.00	7,641.25	7,639.29	178.24	26.74	90.53	-5,278.38	1,693.84	4,846.73	4,710.06	136.67	35.463	
19,896.19	7,618.00	7,641.05	7,639.09	179.66	26.74	90.53	-5,278.38	1,693.84	4,907.18	4,770.72	136.46	35.961	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	134.86	-5,617.41	5,644.17	7,963.21				
100.00	100.00	73.00	73.00	0.13	0.56	134.86	-5,617.41	5,644.17	7,963.16	7,962.47	0.70	N/A	
200.00	200.00	173.00	173.00	0.49	2.04	134.86	-5,617.41	5,644.17	7,963.16	7,960.63	2.53	3,141.368	
300.00	299.98	272.98	272.98	0.85	3.79	65.57	-5,617.41	5,644.17	7,962.44	7,957.81	4.63	1,718.125	
400.00	399.84	372.84	372.84	1.21	5.53	65.65	-5,617.41	5,644.17	7,960.28	7,953.54	6.74	1,181.839	
500.00	499.45	472.45	472.45	1.58	7.27	65.77	-5,617.41	5,644.17	7,956.68	7,947.84	8.84	899.717	
600.00	598.70	571.70	571.70	1.97	9.00	65.94	-5,617.41	5,644.17	7,951.66	7,940.70	10.96	725.474	
700.00	697.47	670.47	670.47	2.38	10.72	66.16	-5,617.41	5,644.17	7,945.25	7,932.16	13.09	606.975	
800.00	795.62	768.62	768.62	2.83	12.44	66.43	-5,617.41	5,644.17	7,937.45	7,922.22	15.23	521.015	
900.00	893.06	866.06	866.06	3.31	14.14	66.74	-5,617.41	5,644.17	7,928.32	7,910.92	17.40	455.707	
1,000.00	989.64	962.64	962.64	3.83	15.82	67.10	-5,617.41	5,644.17	7,917.87	7,898.29	19.58	404.330	
1,100.00	1,085.27	1,058.27	1,058.27	4.40	17.49	67.51	-5,617.41	5,644.17	7,906.15	7,884.36	21.79	362.802	
1,200.00	1,179.82	1,152.82	1,152.82	5.02	19.14	67.96	-5,617.41	5,644.17	7,893.22	7,869.19	24.03	328.501	
1,300.00	1,273.17	1,246.17	1,246.17	5.70	20.77	68.45	-5,617.41	5,644.17	7,879.10	7,852.81	26.29	299.663	
1,400.00	1,365.21	1,338.21	1,338.21	6.43	22.38	68.98	-5,617.41	5,644.17	7,863.87	7,835.29	28.59	275.062	
1,500.00	1,455.84	1,428.84	1,428.84	7.23	23.96	69.56	-5,617.41	5,644.17	7,847.59	7,816.67	30.92	253.814	
1,600.00	1,544.94	1,517.94	1,517.94	8.09	25.52	70.17	-5,617.41	5,644.17	7,830.31	7,797.03	33.28	235.271	
1,700.00	1,632.39	1,605.39	1,605.39	9.01	27.04	70.81	-5,617.41	5,644.17	7,812.11	7,776.43	35.68	218.942	
1,800.00	1,718.11	1,708.89	1,691.11	10.00	28.85	71.49	-5,617.41	5,644.17	7,793.05	7,754.63	38.43	202.802	
1,900.00	1,801.97	1,774.97	1,774.97	11.07	30.00	72.21	-5,617.41	5,644.17	7,773.23	7,732.64	40.59	191.511	
2,000.00	1,883.88	1,856.88	1,856.88	12.20	31.43	72.94	-5,617.41	5,644.17	7,752.70	7,709.60	43.10	179.881	
2,100.00	1,963.74	1,936.74	1,936.74	13.41	32.83	73.71	-5,617.41	5,644.17	7,731.57	7,685.92	45.65	169.379	
2,200.00	2,041.45	2,014.45	2,014.45	14.69	34.18	74.49	-5,617.41	5,644.17	7,709.91	7,661.68	48.23	159.852	
2,300.00	2,116.92	2,089.92	2,089.92	16.05	35.50	75.29	-5,617.41	5,644.17	7,687.81	7,636.96	50.85	151.175	
2,357.48	2,159.25	2,132.25	2,132.25	16.86	36.24	75.76	-5,617.41	5,644.17	7,674.95	7,622.57	52.38	146.535	
2,400.00	2,190.27	2,163.27	2,163.27	17.47	36.78	75.92	-5,617.41	5,644.17	7,665.44	7,611.93	53.51	143.257	
2,500.00	2,263.22	2,236.22	2,236.22	18.92	38.05	76.29	-5,617.41	5,644.17	7,643.48	7,587.29	56.19	136.035	
2,600.00	2,336.18	2,309.18	2,309.18	20.37	39.33	76.66	-5,617.41	5,644.17	7,622.06	7,563.18	58.88	129.441	
2,700.00	2,409.14	2,382.14	2,382.14	21.84	40.60	77.04	-5,617.41	5,644.17	7,601.21	7,539.61	61.60	123.403	
2,800.00	2,482.09	2,455.09	2,455.09	23.31	41.87	77.41	-5,617.41	5,644.17	7,580.91	7,516.59	64.32	117.859	
2,900.00	2,555.05	2,528.05	2,528.05	24.78	43.15	77.79	-5,617.41	5,644.17	7,561.17	7,494.11	67.06	112.754	
3,000.00	2,628.01	2,601.01	2,601.01	26.27	44.42	78.16	-5,617.41	5,644.17	7,542.01	7,472.20	69.81	108.041	
3,100.00	2,700.96	2,673.96	2,673.96	27.75	45.69	78.54	-5,617.41	5,644.17	7,523.41	7,450.85	72.56	103.679	
3,200.00	2,773.92	2,746.92	2,746.92	29.24	46.97	78.92	-5,617.41	5,644.17	7,505.40	7,430.07	75.33	99.633	
3,300.00	2,846.88	2,819.88	2,819.88	30.73	48.24	79.30	-5,617.41	5,644.17	7,487.96	7,409.86	78.10	95.872	
3,400.00	2,919.83	2,907.17	2,892.83	32.23	49.76	79.68	-5,617.41	5,644.17	7,471.11	7,389.98	81.14	92.082	
3,500.00	2,992.79	2,965.79	2,965.79	33.72	50.79	80.07	-5,617.41	5,644.17	7,454.85	7,371.18	83.67	89.095	
3,600.00	3,065.75	3,038.75	3,038.75	35.22	52.06	80.45	-5,617.41	5,644.17	7,439.19	7,352.72	86.47	86.036	
3,700.00	3,138.71	3,111.71	3,111.71	36.72	53.33	80.83	-5,617.41	5,644.17	7,424.12	7,334.85	89.26	83.170	
3,800.00	3,211.66	3,184.66	3,184.66	38.22	54.61	81.22	-5,617.41	5,644.17	7,409.65	7,317.58	92.07	80.480	
3,900.00	3,284.62	3,257.62	3,257.62	39.72	55.88	81.60	-5,617.41	5,644.17	7,395.78	7,300.91	94.88	77.952	
4,000.00	3,357.58	3,330.58	3,330.58	41.22	57.15	81.99	-5,617.41	5,644.17	7,382.52	7,284.84	97.69	75.573	
4,100.00	3,430.53	3,403.53	3,403.53	42.73	58.43	82.38	-5,617.41	5,644.17	7,369.88	7,269.37	100.50	73.330	
4,200.00	3,503.49	3,476.49	3,476.49	44.23	59.70	82.76	-5,617.41	5,644.17	7,357.84	7,254.52	103.32	71.214	
4,300.00	3,576.45	3,549.45	3,549.45	45.74	60.97	83.15	-5,617.41	5,644.17	7,346.43	7,240.29	106.14	69.214	
4,400.00	3,649.40	3,622.40	3,622.40	47.25	62.25	83.54	-5,617.41	5,644.17	7,335.63	7,226.67	108.96	67.322	
4,500.00	3,722.36	3,704.64	3,695.36	48.75	63.68	83.93	-5,617.41	5,644.17	7,325.46	7,213.51	111.95	65.436	
4,600.00	3,795.32	3,768.32	3,768.32	50.26	64.79	84.32	-5,617.41	5,644.17	7,315.91	7,201.30	114.61	63.832	
4,700.00	3,868.27	3,841.27	3,841.27	51.77	66.07	84.71	-5,617.41	5,644.17	7,306.99	7,189.55	117.44	62.221	
4,800.00	3,941.23	3,914.23	3,914.23	53.28	67.34	85.10	-5,617.41	5,644.17	7,298.70	7,178.44	120.26	60.690	
4,900.00	4,014.19	3,987.19	3,987.19	54.79	68.61	85.50	-5,617.41	5,644.17	7,291.04	7,167.96	123.09	59.235	
5,000.00	4,087.15	4,060.15	4,060.15	56.30	69.89	85.89	-5,617.41	5,644.17	7,284.02	7,158.11	125.91	57.850	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,100.00	4,160.10	4,133.10	4,133.10	57.81	71.16	86.28	-5,617.41	5,644.17	7,277.63	7,148.89	128.74	56.532	
5,200.00	4,233.06	4,206.06	4,206.06	59.32	72.43	86.67	-5,617.41	5,644.17	7,271.88	7,140.32	131.56	55.275	
5,300.00	4,306.02	4,279.02	4,279.02	60.83	73.71	87.07	-5,617.41	5,644.17	7,266.77	7,132.39	134.38	54.077	
5,400.00	4,378.97	4,351.97	4,351.97	62.34	74.98	87.46	-5,617.41	5,644.17	7,262.30	7,125.10	137.20	52.934	
5,500.00	4,451.93	4,424.93	4,424.93	63.85	76.25	87.85	-5,617.41	5,644.17	7,258.47	7,118.46	140.01	51.842	
5,600.00	4,524.89	4,502.11	4,497.89	65.36	77.60	88.25	-5,617.41	5,644.17	7,255.28	7,112.39	142.90	50.773	
5,700.00	4,597.84	4,570.84	4,570.84	66.88	78.80	88.64	-5,617.41	5,644.17	7,252.74	7,107.11	145.63	49.802	
5,800.00	4,670.80	4,643.80	4,643.80	68.39	80.07	89.04	-5,617.41	5,644.17	7,250.84	7,102.40	148.43	48.849	
5,900.00	4,743.76	4,716.76	4,716.76	69.90	81.35	89.43	-5,617.41	5,644.17	7,249.58	7,098.35	151.23	47.936	
6,000.00	4,816.71	4,789.71	4,789.71	71.41	82.62	89.82	-5,617.41	5,644.17	7,248.98	7,094.95	154.03	47.062	
6,044.42	4,849.12	4,822.12	4,822.12	72.09	83.18	90.00	-5,617.41	5,644.17	7,248.91	7,093.64	155.27	46.686	
6,100.00	4,889.67	4,862.67	4,862.67	72.93	83.89	90.22	-5,617.41	5,644.17	7,249.01	7,092.19	156.82	46.225	
6,200.00	4,962.63	4,935.63	4,935.63	74.44	85.17	90.61	-5,617.41	5,644.17	7,249.69	7,090.09	159.60	45.423	
6,300.00	5,035.59	5,008.59	5,008.59	75.95	86.44	91.01	-5,617.41	5,644.17	7,251.02	7,088.64	162.38	44.654	
6,400.00	5,108.54	5,081.54	5,081.54	77.47	87.71	91.40	-5,617.41	5,644.17	7,252.99	7,087.84	165.15	43.917	
6,500.00	5,181.50	5,154.50	5,154.50	78.98	88.99	91.80	-5,617.41	5,644.17	7,255.60	7,087.69	167.92	43.209	
6,600.00	5,254.46	5,227.46	5,227.46	80.49	90.26	92.19	-5,617.41	5,644.17	7,258.86	7,088.19	170.68	42.530	
6,700.00	5,327.41	5,300.41	5,300.41	82.01	91.53	92.58	-5,617.41	5,644.17	7,262.76	7,089.34	173.43	41.877	
6,800.00	5,400.37	5,373.37	5,373.37	83.52	92.81	92.98	-5,617.41	5,644.17	7,267.31	7,091.13	176.17	41.251	
6,900.00	5,473.33	5,446.33	5,446.33	85.04	94.08	93.37	-5,617.41	5,644.17	7,272.49	7,093.58	178.91	40.649	
7,000.00	5,546.28	5,519.28	5,519.28	86.55	95.35	93.76	-5,617.41	5,644.17	7,278.31	7,096.68	181.63	40.071	
7,100.00	5,619.24	5,607.76	5,592.24	88.06	96.90	94.16	-5,617.41	5,644.17	7,284.77	7,100.15	184.62	39.457	
7,200.00	5,692.20	5,665.20	5,665.20	89.58	97.90	94.55	-5,617.41	5,644.17	7,291.87	7,104.80	187.06	38.981	
7,300.00	5,765.15	5,738.15	5,738.15	91.09	99.17	94.94	-5,617.41	5,644.17	7,299.60	7,109.83	189.76	38.467	
7,400.00	5,838.11	5,811.11	5,811.11	92.61	100.45	95.33	-5,617.41	5,644.17	7,307.96	7,115.50	192.45	37.973	
7,500.00	5,911.07	5,884.07	5,884.07	94.12	101.72	95.72	-5,617.41	5,644.17	7,316.95	7,121.81	195.13	37.497	
7,600.00	5,984.03	5,957.03	5,957.03	95.64	102.99	96.11	-5,617.41	5,644.17	7,326.56	7,128.76	197.80	37.040	
7,700.00	6,056.98	6,029.98	6,029.98	97.15	104.27	96.50	-5,617.41	5,644.17	7,336.81	7,136.34	200.46	36.599	
7,800.00	6,129.94	6,102.94	6,102.94	98.67	105.54	96.89	-5,617.41	5,644.17	7,347.67	7,144.56	203.11	36.175	
7,900.00	6,202.90	6,175.90	6,175.90	100.18	106.81	97.28	-5,617.41	5,644.17	7,359.16	7,153.40	205.75	35.767	
8,000.00	6,275.85	6,248.85	6,248.85	101.70	108.09	97.67	-5,617.41	5,644.17	7,371.26	7,162.88	208.38	35.374	
8,100.00	6,348.81	6,321.81	6,321.81	103.21	109.36	98.05	-5,617.41	5,644.17	7,383.97	7,172.98	211.00	34.996	
8,200.00	6,421.77	6,405.23	6,394.77	104.73	110.82	98.44	-5,617.41	5,644.17	7,397.30	7,183.52	213.78	34.602	
8,300.00	6,494.72	6,467.72	6,467.72	106.24	111.91	98.83	-5,617.41	5,644.17	7,411.23	7,195.04	216.20	34.280	
8,400.00	6,567.68	6,540.68	6,540.68	107.76	113.18	99.21	-5,617.41	5,644.17	7,425.77	7,206.99	218.78	33.942	
8,500.00	6,640.64	6,613.64	6,613.64	109.27	114.45	99.59	-5,617.41	5,644.17	7,440.91	7,219.56	221.35	33.617	
8,600.00	6,713.59	6,686.59	6,686.59	110.79	115.73	99.98	-5,617.41	5,644.17	7,456.64	7,232.73	223.90	33.303	
8,700.00	6,786.55	6,759.55	6,759.55	112.30	117.00	100.36	-5,617.41	5,644.17	7,472.96	7,246.52	226.45	33.001	
8,800.00	6,859.51	6,832.51	6,832.51	113.82	118.27	100.74	-5,617.41	5,644.17	7,489.88	7,260.90	228.98	32.710	
8,900.00	6,932.46	6,905.46	6,905.46	115.33	119.55	101.12	-5,617.41	5,644.17	7,507.38	7,275.88	231.50	32.429	
9,000.00	7,005.42	6,978.42	6,978.42	116.85	120.82	101.50	-5,617.41	5,644.17	7,525.46	7,291.45	234.01	32.159	
9,104.89	7,081.95	7,054.95	7,054.95	118.44	122.15	101.90	-5,617.41	5,644.17	7,545.05	7,308.42	236.63	31.886	
9,150.00	7,115.15	7,088.15	7,088.15	119.12	122.73	97.33	-5,617.41	5,644.17	7,551.91	7,314.16	237.76	31.763	
9,200.00	7,152.46	7,125.46	7,125.46	119.86	123.39	92.00	-5,617.41	5,644.17	7,555.55	7,316.53	239.02	31.610	
9,250.00	7,190.04	7,163.04	7,163.04	120.57	124.04	86.49	-5,617.41	5,644.17	7,554.98	7,314.69	240.29	31.441	
9,300.00	7,227.59	7,200.59	7,200.59	121.25	124.70	80.98	-5,617.41	5,644.17	7,550.20	7,308.65	241.55	31.257	
9,350.00	7,264.83	7,237.83	7,237.83	121.89	125.35	75.61	-5,617.41	5,644.17	7,541.25	7,298.47	242.79	31.061	
9,400.00	7,301.48	7,274.48	7,274.48	122.48	125.99	70.51	-5,617.41	5,644.17	7,528.19	7,284.20	243.99	30.855	
9,450.00	7,337.26	7,310.26	7,310.26	123.01	126.61	65.79	-5,617.41	5,644.17	7,511.10	7,265.95	245.14	30.640	
9,500.00	7,371.90	7,344.90	7,344.90	123.49	127.22	61.48	-5,617.41	5,644.17	7,490.10	7,243.85	246.24	30.417	
9,550.00	7,405.13	7,378.13	7,378.13	123.91	127.80	57.63	-5,617.41	5,644.17	7,465.33	7,218.05	247.28	30.190	
9,600.00	7,436.70	7,409.70	7,409.70	124.27	128.35	54.22	-5,617.41	5,644.17	7,436.98	7,188.73	248.25	29.958	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	7,439.36	7,439.36	124.57	128.86	51.22	-5,617.41	5,644.17	7,405.23	7,156.09	249.14	29.723	
9,700.00	7,493.91	7,466.91	7,466.91	124.81	129.34	48.61	-5,617.41	5,644.17	7,370.32	7,120.37	249.95	29.488	
9,750.00	7,519.11	7,507.89	7,492.11	125.00	130.06	46.34	-5,617.41	5,644.17	7,332.48	7,081.54	250.94	29.220	
9,800.00	7,541.79	7,514.79	7,514.79	125.12	130.18	44.37	-5,617.41	5,644.17	7,292.00	7,040.69	251.30	29.017	
9,850.00	7,561.77	7,534.77	7,534.77	125.20	130.53	42.63	-5,617.41	5,644.17	7,249.15	6,997.30	251.85	28.784	
9,900.00	7,578.90	7,551.90	7,551.90	125.23	130.83	41.05	-5,617.41	5,644.17	7,204.26	6,951.95	252.30	28.554	
9,950.00	7,593.04	7,566.04	7,566.04	125.22	131.07	39.53	-5,617.41	5,644.17	7,157.64	6,904.97	252.66	28.329	
10,000.00	7,604.09	7,577.09	7,577.09	125.17	131.27	37.80	-5,617.41	5,644.17	7,109.64	6,856.70	252.94	28.108	
10,050.00	7,611.97	7,584.97	7,584.97	125.08	131.41	35.07	-5,617.41	5,644.17	7,060.61	6,807.49	253.13	27.894	
10,100.00	7,616.61	7,589.61	7,589.61	124.97	131.49	26.61	-5,617.41	5,644.17	7,010.93	6,757.70	253.23	27.686	
10,145.95	7,618.00	7,609.00	7,591.00	124.84	131.82	-90.00	-5,617.41	5,644.17	6,965.02	6,711.45	253.57	27.468	
10,200.00	7,618.00	7,609.00	7,591.00	124.69	131.82	-90.00	-5,617.41	5,644.17	6,910.98	6,657.42	253.56	27.256	
10,300.00	7,618.00	7,609.00	7,591.00	124.41	131.82	-90.00	-5,617.41	5,644.17	6,811.01	6,557.47	253.54	26.864	
10,400.00	7,618.00	7,609.00	7,591.00	124.14	131.82	-90.00	-5,617.41	5,644.17	6,711.03	6,457.52	253.52	26.472	
10,500.00	7,618.00	7,609.00	7,591.00	123.88	131.82	-90.00	-5,617.41	5,644.17	6,611.06	6,357.57	253.50	26.080	
10,600.00	7,618.00	7,609.00	7,591.00	123.63	131.82	-90.00	-5,617.41	5,644.17	6,511.09	6,257.62	253.47	25.687	
10,700.00	7,618.00	7,609.00	7,591.00	123.40	131.82	-90.00	-5,617.41	5,644.17	6,411.12	6,157.67	253.45	25.295	
10,800.00	7,618.00	7,609.00	7,591.00	123.18	131.82	-90.00	-5,617.41	5,644.17	6,311.15	6,057.72	253.43	24.903	
10,900.00	7,618.00	7,609.00	7,591.00	122.96	131.82	-90.00	-5,617.41	5,644.17	6,211.18	5,957.78	253.41	24.511	
11,000.00	7,618.00	7,609.00	7,591.00	122.76	131.82	-90.00	-5,617.41	5,644.17	6,111.22	5,857.83	253.38	24.118	
11,100.00	7,618.00	7,609.00	7,591.00	122.57	131.82	-90.00	-5,617.41	5,644.17	6,011.25	5,757.89	253.36	23.726	
11,200.00	7,618.00	7,609.00	7,591.00	122.39	131.82	-90.00	-5,617.41	5,644.17	5,911.29	5,657.95	253.34	23.334	
11,300.00	7,618.00	7,609.00	7,591.00	122.23	131.82	-90.00	-5,617.41	5,644.17	5,811.32	5,558.01	253.31	22.941	
11,400.00	7,618.00	7,609.00	7,591.00	122.07	131.82	-90.00	-5,617.41	5,644.17	5,711.36	5,458.07	253.29	22.549	
11,500.00	7,618.00	7,609.00	7,591.00	121.93	131.82	-90.00	-5,617.41	5,644.17	5,611.40	5,358.14	253.26	22.157	
11,600.00	7,618.00	7,609.00	7,591.00	121.79	131.82	-90.00	-5,617.41	5,644.17	5,511.44	5,258.21	253.23	21.764	
11,700.00	7,618.00	7,609.00	7,591.00	121.67	131.82	-90.00	-5,617.41	5,644.17	5,411.48	5,158.28	253.20	21.372	
11,800.00	7,618.00	7,609.00	7,591.00	121.56	131.82	-90.00	-5,617.41	5,644.17	5,311.52	5,058.35	253.18	20.980	
11,900.00	7,618.00	7,609.00	7,591.00	121.46	131.82	-90.00	-5,617.41	5,644.17	5,211.57	4,958.42	253.15	20.587	
12,000.00	7,618.00	7,609.00	7,591.00	121.38	131.82	-90.00	-5,617.41	5,644.17	5,111.62	4,858.50	253.12	20.195	
12,100.00	7,618.00	7,609.00	7,591.00	121.30	131.82	-90.00	-5,617.41	5,644.17	5,011.67	4,758.58	253.08	19.802	
12,200.00	7,618.00	7,609.00	7,591.00	121.24	131.82	-90.00	-5,617.41	5,644.17	4,911.72	4,658.67	253.05	19.410	
12,300.00	7,618.00	7,609.00	7,591.00	121.19	131.82	-90.00	-5,617.41	5,644.17	4,811.77	4,558.75	253.02	19.018	
12,400.00	7,618.00	7,609.00	7,591.00	121.16	131.82	-90.00	-5,617.41	5,644.17	4,711.82	4,458.84	252.98	18.625	
12,500.00	7,618.00	7,609.00	7,591.00	121.14	131.82	-90.00	-5,617.41	5,644.17	4,611.88	4,358.94	252.94	18.233	
12,600.00	7,618.00	7,609.00	7,591.00	121.13	131.82	-90.00	-5,617.41	5,644.17	4,511.94	4,259.04	252.91	17.840	
12,700.00	7,618.00	7,609.00	7,591.00	121.13	131.82	-90.00	-5,617.41	5,644.17	4,412.00	4,159.14	252.87	17.448	
12,800.00	7,618.00	7,609.00	7,591.00	121.15	131.82	-90.00	-5,617.41	5,644.17	4,312.07	4,059.25	252.82	17.056	
12,900.00	7,618.00	7,609.00	7,591.00	121.18	131.82	-90.00	-5,617.41	5,644.17	4,212.14	3,959.36	252.78	16.663	
13,000.00	7,618.00	7,609.00	7,591.00	121.23	131.82	-90.00	-5,617.41	5,644.17	4,112.21	3,859.48	252.74	16.271	
13,100.00	7,618.00	7,609.00	7,591.00	121.29	131.82	-90.00	-5,617.41	5,644.17	4,012.29	3,759.60	252.69	15.878	
13,200.00	7,618.00	7,609.00	7,591.00	121.37	131.82	-90.00	-5,617.41	5,644.17	3,912.37	3,659.73	252.64	15.486	
13,300.00	7,618.00	7,609.00	7,591.00	121.46	131.82	-90.00	-5,617.41	5,644.17	3,812.45	3,559.87	252.58	15.094	
13,400.00	7,618.00	7,609.00	7,591.00	121.57	131.82	-90.00	-5,617.41	5,644.17	3,712.54	3,460.01	252.53	14.702	
13,500.00	7,618.00	7,609.00	7,591.00	121.70	131.82	-90.00	-5,617.41	5,644.17	3,612.63	3,360.16	252.47	14.309	
13,600.00	7,618.00	7,609.00	7,591.00	121.84	131.82	-90.00	-5,617.41	5,644.17	3,512.73	3,260.32	252.41	13.917	
13,700.00	7,618.00	7,609.00	7,591.00	122.01	131.82	-90.00	-5,617.41	5,644.17	3,412.83	3,160.49	252.34	13.525	
13,800.00	7,618.00	7,609.00	7,591.00	122.19	131.82	-90.00	-5,617.41	5,644.17	3,312.94	3,060.68	252.27	13.133	
13,900.00	7,618.00	7,609.00	7,591.00	122.39	131.82	-90.00	-5,617.41	5,644.17	3,213.06	2,960.87	252.19	12.740	
14,000.00	7,618.00	7,609.00	7,591.00	122.62	131.82	-90.00	-5,617.41	5,644.17	3,113.19	2,861.07	252.11	12.348	
14,100.00	7,618.00	7,609.00	7,591.00	122.86	131.82	-90.00	-5,617.41	5,644.17	3,013.32	2,761.29	252.03	11.956	
14,200.00	7,618.00	7,609.00	7,591.00	123.12	131.82	-90.00	-5,617.41	5,644.17	2,913.46	2,661.52	251.94	11.564	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	7,609.00	7,591.00	123.41	131.82	-90.00	-5,617.41	5,644.17	2,813.61	2,561.78	251.84	11.172	
14,400.00	7,618.00	7,609.00	7,591.00	123.72	131.82	-90.00	-5,617.41	5,644.17	2,713.78	2,462.05	251.73	10.780	
14,500.00	7,618.00	7,609.00	7,591.00	124.06	131.82	-90.00	-5,617.41	5,644.17	2,613.95	2,362.34	251.62	10.389	
14,600.00	7,618.00	7,609.00	7,591.00	124.42	131.82	-90.00	-5,617.41	5,644.17	2,514.14	2,262.65	251.50	9.997	
14,700.00	7,618.00	7,609.00	7,591.00	124.80	131.82	-90.00	-5,617.41	5,644.17	2,414.35	2,162.99	251.36	9.605	
14,800.00	7,618.00	7,609.00	7,591.00	125.21	131.82	-90.00	-5,617.41	5,644.17	2,314.57	2,063.36	251.21	9.214	
14,900.00	7,618.00	7,609.00	7,591.00	125.65	131.82	-90.00	-5,617.41	5,644.17	2,214.82	1,963.77	251.05	8.822	
15,000.00	7,618.00	7,609.00	7,591.00	126.11	131.82	-90.00	-5,617.41	5,644.17	2,115.09	1,864.21	250.88	8.431	
15,100.00	7,618.00	7,609.00	7,591.00	126.61	131.82	-90.00	-5,617.41	5,644.17	2,015.38	1,764.70	250.68	8.040	
15,200.00	7,618.00	7,609.00	7,591.00	127.13	131.82	-90.00	-5,617.41	5,644.17	1,915.70	1,665.24	250.47	7.649	
15,300.00	7,618.00	7,609.00	7,591.00	127.68	131.82	-90.00	-5,617.41	5,644.17	1,816.06	1,565.84	250.23	7.258	
15,400.00	7,618.00	7,609.00	7,591.00	128.26	131.82	-90.00	-5,617.41	5,644.17	1,716.46	1,466.51	249.96	6.867	
15,500.00	7,618.00	7,609.00	7,591.00	128.87	131.82	-90.00	-5,617.41	5,644.17	1,616.91	1,367.26	249.65	6.477	
15,600.00	7,618.00	7,609.00	7,591.00	129.51	131.82	-90.00	-5,617.41	5,644.17	1,517.42	1,268.12	249.31	6.087	
15,700.00	7,618.00	7,609.00	7,591.00	130.18	131.82	-90.00	-5,617.41	5,644.17	1,418.01	1,169.10	248.91	5.697	
15,800.00	7,618.00	7,609.00	7,591.00	130.88	131.82	-90.00	-5,617.41	5,644.17	1,318.68	1,070.23	248.45	5.308	
15,900.00	7,618.00	7,609.00	7,591.00	131.61	131.82	-90.00	-5,617.41	5,644.17	1,219.46	971.54	247.92	4.919	
16,000.00	7,618.00	7,609.00	7,591.00	132.37	131.82	-90.00	-5,617.41	5,644.17	1,120.37	873.09	247.28	4.531	
16,100.00	7,618.00	7,609.00	7,591.00	133.17	131.82	-90.00	-5,617.41	5,644.17	1,021.47	774.95	246.53	4.143	
16,200.00	7,618.00	7,609.00	7,591.00	133.99	131.82	-90.00	-5,617.41	5,644.17	922.81	677.20	245.60	3.757	
16,300.00	7,618.00	7,609.00	7,591.00	134.84	131.82	-90.00	-5,617.41	5,644.17	824.46	580.00	244.46	3.373	
16,400.00	7,618.00	7,609.00	7,591.00	135.72	131.82	-90.00	-5,617.41	5,644.17	726.57	483.57	243.00	2.990	
16,500.00	7,618.00	7,609.00	7,591.00	136.63	131.82	-90.00	-5,617.41	5,644.17	629.34	388.24	241.10	2.610	
16,600.00	7,618.00	7,609.00	7,591.00	137.57	131.82	-90.00	-5,617.41	5,644.17	533.13	294.60	238.54	2.235	
16,700.00	7,618.00	7,609.00	7,591.00	138.54	131.82	-90.00	-5,617.41	5,644.17	438.63	203.66	234.98	1.867	
16,800.00	7,618.00	7,609.00	7,591.00	139.53	131.82	-90.00	-5,617.41	5,644.17	347.22	117.27	229.95	1.510	
16,900.00	7,618.00	7,609.00	7,591.00	140.55	131.82	-90.00	-5,617.41	5,644.17	262.16	38.63	223.54	1.173	Level 2
17,000.00	7,618.00	7,609.00	7,591.00	141.60	131.82	-90.00	-5,617.41	5,644.17	192.08	-29.73	221.81	0.866	Level 1
17,100.00	7,618.00	7,609.00	7,591.00	142.67	131.82	-90.00	-5,617.41	5,644.17	158.30	-87.08	245.38	0.645	Level 1
17,109.17	7,618.00	7,609.00	7,591.00	142.77	131.82	-90.00	-5,617.41	5,644.17	158.04	-90.57	248.60	0.636	Level 1, CC, ES, SF
17,200.00	7,618.00	7,609.00	7,591.00	143.77	131.82	-90.00	-5,617.41	5,644.17	182.28	-89.57	271.85	0.671	Level 1
17,300.00	7,618.00	7,609.00	7,591.00	144.88	131.82	-90.00	-5,617.41	5,644.17	247.77	-28.66	276.44	0.896	Level 1
17,400.00	7,618.00	7,609.00	7,591.00	146.02	131.82	-90.00	-5,617.41	5,644.17	330.99	56.80	274.19	1.207	Level 2
17,500.00	7,618.00	7,609.00	7,591.00	147.19	131.82	-90.00	-5,617.41	5,644.17	421.57	150.18	271.39	1.553	
17,600.00	7,618.00	7,609.00	7,591.00	148.37	131.82	-90.00	-5,617.41	5,644.17	515.64	246.59	269.06	1.916	
17,700.00	7,618.00	7,609.00	7,591.00	149.57	131.82	-90.00	-5,617.41	5,644.17	611.60	344.37	267.23	2.289	
17,800.00	7,618.00	7,609.00	7,591.00	150.79	131.82	-90.00	-5,617.41	5,644.17	708.67	442.88	265.79	2.666	
17,900.00	7,618.00	7,609.00	7,591.00	152.03	131.82	-90.00	-5,617.41	5,644.17	806.46	541.81	264.65	3.047	
18,000.00	7,618.00	7,609.00	7,591.00	153.29	131.82	-90.00	-5,617.41	5,644.17	904.74	641.01	263.72	3.431	
18,100.00	7,618.00	7,609.00	7,591.00	154.57	131.82	-90.00	-5,617.41	5,644.17	1,003.35	740.39	262.96	3.816	
18,200.00	7,618.00	7,609.00	7,591.00	155.86	131.82	-90.00	-5,617.41	5,644.17	1,102.22	839.89	262.33	4.202	
18,300.00	7,618.00	7,609.00	7,591.00	157.17	131.82	-90.00	-5,617.41	5,644.17	1,201.27	939.48	261.79	4.589	
18,400.00	7,618.00	7,609.00	7,591.00	158.49	131.82	-90.00	-5,617.41	5,644.17	1,300.47	1,039.13	261.33	4.976	
18,500.00	7,618.00	7,609.00	7,591.00	159.82	131.82	-90.00	-5,617.41	5,644.17	1,399.78	1,138.84	260.94	5.364	
18,600.00	7,618.00	7,609.00	7,591.00	161.17	131.82	-90.00	-5,617.41	5,644.17	1,499.18	1,238.58	260.60	5.753	
18,700.00	7,618.00	7,609.00	7,591.00	162.54	131.82	-90.00	-5,617.41	5,644.17	1,598.66	1,338.36	260.29	6.142	
18,800.00	7,618.00	7,609.00	7,591.00	163.91	131.82	-90.00	-5,617.41	5,644.17	1,698.20	1,438.17	260.03	6.531	
18,900.00	7,618.00	7,609.00	7,591.00	165.30	131.82	-90.00	-5,617.41	5,644.17	1,797.79	1,537.99	259.79	6.920	
19,000.00	7,618.00	7,609.00	7,591.00	166.70	131.82	-90.00	-5,617.41	5,644.17	1,897.42	1,637.84	259.58	7.310	
19,100.00	7,618.00	7,609.00	7,591.00	168.10	131.82	-90.00	-5,617.41	5,644.17	1,997.09	1,737.70	259.39	7.699	
19,200.00	7,618.00	7,609.00	7,591.00	169.52	131.82	-90.00	-5,617.41	5,644.17	2,096.79	1,837.57	259.22	8.089	
19,300.00	7,618.00	7,609.00	7,591.00	170.95	131.82	-90.00	-5,617.41	5,644.17	2,196.52	1,937.45	259.07	8.478	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	7,609.00	7,591.00	172.39	131.82	-90.00	-5,617.41	5,644.17	2,296.27	2,037.34	258.93	8.868	
19,500.00	7,618.00	7,609.00	7,591.00	173.84	131.82	-90.00	-5,617.41	5,644.17	2,396.04	2,137.24	258.81	9.258	
19,600.00	7,618.00	7,609.00	7,591.00	175.30	131.82	-90.00	-5,617.41	5,644.17	2,495.84	2,237.14	258.69	9.648	
19,700.00	7,618.00	7,609.00	7,591.00	176.76	131.82	-90.00	-5,617.41	5,644.17	2,595.64	2,337.06	258.59	10.038	
19,800.00	7,618.00	7,609.00	7,591.00	178.24	131.82	-90.00	-5,617.41	5,644.17	2,695.46	2,436.97	258.49	10.428	
19,896.19	7,618.00	7,609.00	7,591.00	179.66	131.82	-90.00	-5,617.41	5,644.17	2,791.49	2,533.09	258.41	10.803	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	134.72	-4,823.43	4,870.75	6,855.06				
100.00	100.00	54.00	54.00	0.13	0.41	134.72	-4,823.43	4,870.75	6,854.90	6,854.35	0.55	N/A	
200.00	200.00	154.00	154.00	0.49	1.71	134.72	-4,823.43	4,870.75	6,854.90	6,852.70	2.20	3,111.167	
300.00	299.98	253.98	253.98	0.85	3.46	65.43	-4,823.43	4,870.75	6,854.18	6,849.87	4.30	1,592.970	
400.00	399.84	353.84	353.84	1.21	5.20	65.51	-4,823.43	4,870.75	6,852.00	6,845.60	6.40	1,069.975	
500.00	499.45	453.45	453.45	1.58	6.94	65.64	-4,823.43	4,870.75	6,848.39	6,839.87	8.51	804.566	
600.00	598.70	552.70	552.70	1.97	8.67	65.83	-4,823.43	4,870.75	6,843.35	6,832.72	10.63	643.838	
700.00	697.47	651.47	651.47	2.38	10.39	66.06	-4,823.43	4,870.75	6,836.90	6,824.14	12.76	535.883	
800.00	795.62	749.62	749.62	2.83	12.11	66.35	-4,823.43	4,870.75	6,829.08	6,814.18	14.90	458.241	
900.00	893.06	847.06	847.06	3.31	13.81	66.69	-4,823.43	4,870.75	6,819.92	6,802.86	17.07	399.619	
1,000.00	989.64	943.64	943.64	3.83	15.49	67.08	-4,823.43	4,870.75	6,809.46	6,790.21	19.25	353.721	
1,100.00	1,085.27	1,039.27	1,039.27	4.40	17.16	67.51	-4,823.43	4,870.75	6,797.74	6,776.28	21.46	316.758	
1,200.00	1,179.82	1,133.82	1,133.82	5.02	18.81	68.00	-4,823.43	4,870.75	6,784.81	6,761.12	23.70	286.318	
1,300.00	1,273.17	1,227.17	1,227.17	5.70	20.44	68.53	-4,823.43	4,870.75	6,770.74	6,744.77	25.96	260.787	
1,400.00	1,365.21	1,319.21	1,319.21	6.43	22.05	69.10	-4,823.43	4,870.75	6,755.57	6,727.31	28.26	239.050	
1,500.00	1,455.84	1,409.84	1,409.84	7.23	23.63	69.71	-4,823.43	4,870.75	6,739.39	6,708.79	30.59	220.308	
1,600.00	1,544.94	1,501.06	1,498.94	8.09	25.22	70.37	-4,823.43	4,870.75	6,722.25	6,689.26	32.99	203.745	
1,700.00	1,632.39	1,586.39	1,586.39	9.01	26.71	71.06	-4,823.43	4,870.75	6,704.24	6,668.89	35.36	189.610	
1,800.00	1,718.11	1,672.11	1,672.11	10.00	28.21	71.79	-4,823.43	4,870.75	6,685.45	6,647.65	37.80	176.877	
1,900.00	1,801.97	1,755.97	1,755.97	11.07	29.67	72.55	-4,823.43	4,870.75	6,665.94	6,625.67	40.27	165.514	
2,000.00	1,883.88	1,837.88	1,837.88	12.20	31.10	73.34	-4,823.43	4,870.75	6,645.83	6,603.04	42.79	155.314	
2,100.00	1,963.74	1,917.74	1,917.74	13.41	32.49	74.15	-4,823.43	4,870.75	6,625.18	6,579.84	45.34	146.110	
2,200.00	2,041.45	2,004.55	1,995.45	14.69	34.01	74.98	-4,823.43	4,870.75	6,604.12	6,556.02	48.10	137.312	
2,300.00	2,116.92	2,070.92	2,070.92	16.05	35.17	75.83	-4,823.43	4,870.75	6,582.73	6,532.16	50.57	130.176	
2,357.48	2,159.25	2,113.25	2,113.25	16.86	35.91	76.33	-4,823.43	4,870.75	6,570.32	6,518.22	52.10	126.119	
2,400.00	2,190.27	2,144.27	2,144.27	17.47	36.45	76.51	-4,823.43	4,870.75	6,561.18	6,507.95	53.23	123.254	
2,500.00	2,263.22	2,217.22	2,217.22	18.92	37.72	76.95	-4,823.43	4,870.75	6,540.14	6,484.22	55.92	116.948	
2,600.00	2,336.18	2,309.82	2,290.18	20.37	39.34	77.38	-4,823.43	4,870.75	6,519.75	6,460.78	58.97	110.551	
2,700.00	2,409.14	2,363.14	2,363.14	21.84	40.27	77.82	-4,823.43	4,870.75	6,500.02	6,438.66	61.36	105.939	
2,800.00	2,482.09	2,436.09	2,436.09	23.31	41.54	78.26	-4,823.43	4,870.75	6,480.95	6,416.85	64.09	101.115	
2,900.00	2,555.05	2,509.05	2,509.05	24.78	42.81	78.70	-4,823.43	4,870.75	6,462.54	6,395.70	66.84	96.680	
3,000.00	2,628.01	2,582.01	2,582.01	26.27	44.09	79.14	-4,823.43	4,870.75	6,444.81	6,375.21	69.61	92.590	
3,100.00	2,700.96	2,654.96	2,654.96	27.75	45.36	79.58	-4,823.43	4,870.75	6,427.76	6,355.38	72.38	88.810	
3,200.00	2,773.92	2,727.92	2,727.92	29.24	46.63	80.03	-4,823.43	4,870.75	6,411.39	6,336.24	75.16	85.308	
3,300.00	2,846.88	2,800.88	2,800.88	30.73	47.91	80.47	-4,823.43	4,870.75	6,395.71	6,317.77	77.94	82.057	
3,400.00	2,919.83	2,873.83	2,873.83	32.23	49.18	80.92	-4,823.43	4,870.75	6,380.73	6,299.99	80.74	79.032	
3,500.00	2,992.79	2,946.79	2,946.79	33.72	50.45	81.37	-4,823.43	4,870.75	6,366.45	6,282.91	83.54	76.213	
3,600.00	3,065.75	3,019.75	3,019.75	35.22	51.73	81.82	-4,823.43	4,870.75	6,352.87	6,266.53	86.34	73.580	
3,700.00	3,138.71	3,107.29	3,092.71	36.72	53.26	82.27	-4,823.43	4,870.75	6,339.99	6,250.59	89.40	70.914	
3,800.00	3,211.66	3,165.66	3,165.66	38.22	54.27	82.72	-4,823.43	4,870.75	6,327.84	6,235.87	91.96	68.809	
3,900.00	3,284.62	3,238.62	3,238.62	39.72	55.55	83.17	-4,823.43	4,870.75	6,316.39	6,221.62	94.78	66.644	
4,000.00	3,357.58	3,311.58	3,311.58	41.22	56.82	83.62	-4,823.43	4,870.75	6,305.67	6,208.08	97.60	64.609	
4,100.00	3,430.53	3,384.53	3,384.53	42.73	58.09	84.07	-4,823.43	4,870.75	6,295.68	6,195.26	100.42	62.695	
4,200.00	3,503.49	3,457.49	3,457.49	44.23	59.37	84.53	-4,823.43	4,870.75	6,286.41	6,183.17	103.24	60.891	
4,300.00	3,576.45	3,530.45	3,530.45	45.74	60.64	84.98	-4,823.43	4,870.75	6,277.87	6,171.81	106.06	59.190	
4,400.00	3,649.40	3,603.40	3,603.40	47.25	61.91	85.44	-4,823.43	4,870.75	6,270.07	6,161.19	108.89	57.584	
4,500.00	3,722.36	3,676.36	3,676.36	48.75	63.19	85.90	-4,823.43	4,870.75	6,263.01	6,151.30	111.71	56.066	
4,600.00	3,795.32	3,749.32	3,749.32	50.26	64.46	86.35	-4,823.43	4,870.75	6,256.68	6,142.16	114.53	54.630	
4,700.00	3,868.27	3,822.27	3,822.27	51.77	65.73	86.81	-4,823.43	4,870.75	6,251.10	6,133.75	117.35	53.270	
4,800.00	3,941.23	3,904.77	3,895.23	53.28	67.17	87.27	-4,823.43	4,870.75	6,246.26	6,125.93	120.33	51.909	
4,900.00	4,014.19	3,968.19	3,968.19	54.79	68.28	87.72	-4,823.43	4,870.75	6,242.17	6,119.19	122.98	50.758	
5,000.00	4,087.15	4,041.15	4,041.15	56.30	69.55	88.18	-4,823.43	4,870.75	6,238.82	6,113.03	125.79	49.597	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,100.00	4,160.10	4,114.10	4,114.10	57.81	70.83	88.64	-4,823.43	4,870.75	6,236.22	6,107.63	128.60	48.495	
5,200.00	4,233.06	4,187.06	4,187.06	59.32	72.10	89.10	-4,823.43	4,870.75	6,234.37	6,102.98	131.40	47.446	
5,300.00	4,306.02	4,260.02	4,260.02	60.83	73.37	89.56	-4,823.43	4,870.75	6,233.28	6,099.08	134.20	46.449	
5,396.49	4,376.41	4,330.41	4,330.41	62.29	74.60	90.00	-4,823.43	4,870.75	6,232.93	6,096.04	136.89	45.533	
5,400.00	4,378.97	4,332.97	4,332.97	62.34	74.65	90.02	-4,823.43	4,870.75	6,232.93	6,095.94	136.99	45.500	
5,500.00	4,451.93	4,405.93	4,405.93	63.85	75.92	90.47	-4,823.43	4,870.75	6,233.33	6,093.56	139.77	44.596	
5,600.00	4,524.89	4,478.89	4,478.89	65.36	77.19	90.93	-4,823.43	4,870.75	6,234.48	6,091.93	142.55	43.735	
5,700.00	4,597.84	4,551.84	4,551.84	66.88	78.47	91.39	-4,823.43	4,870.75	6,236.38	6,091.06	145.32	42.914	
5,800.00	4,670.80	4,624.80	4,624.80	68.39	79.74	91.85	-4,823.43	4,870.75	6,239.03	6,090.94	148.09	42.131	
5,900.00	4,743.76	4,702.24	4,697.76	69.90	81.09	92.31	-4,823.43	4,870.75	6,242.43	6,091.51	150.92	41.362	
6,000.00	4,816.71	4,770.71	4,770.71	71.41	82.29	92.77	-4,823.43	4,870.75	6,246.58	6,092.99	153.59	40.670	
6,100.00	4,889.67	4,843.67	4,843.67	72.93	83.56	93.22	-4,823.43	4,870.75	6,251.47	6,095.14	156.33	39.989	
6,200.00	4,962.63	4,916.63	4,916.63	74.44	84.83	93.68	-4,823.43	4,870.75	6,257.10	6,098.05	159.06	39.339	
6,300.00	5,035.59	4,989.59	4,989.59	75.95	86.11	94.14	-4,823.43	4,870.75	6,263.48	6,101.71	161.78	38.717	
6,400.00	5,108.54	5,062.54	5,062.54	77.47	87.38	94.59	-4,823.43	4,870.75	6,270.60	6,106.11	164.48	38.123	
6,500.00	5,181.50	5,135.50	5,135.50	78.98	88.65	95.05	-4,823.43	4,870.75	6,278.45	6,111.27	167.18	37.555	
6,600.00	5,254.46	5,208.46	5,208.46	80.49	89.93	95.50	-4,823.43	4,870.75	6,287.04	6,117.17	169.87	37.012	
6,700.00	5,327.41	5,281.41	5,281.41	82.01	91.20	95.96	-4,823.43	4,870.75	6,296.36	6,123.81	172.54	36.492	
6,800.00	5,400.37	5,354.37	5,354.37	83.52	92.47	96.41	-4,823.43	4,870.75	6,306.40	6,131.20	175.20	35.995	
6,900.00	5,473.33	5,427.33	5,427.33	85.04	93.75	96.86	-4,823.43	4,870.75	6,317.17	6,139.32	177.86	35.519	
7,000.00	5,546.28	5,500.28	5,500.28	86.55	95.02	97.31	-4,823.43	4,870.75	6,328.67	6,148.17	180.49	35.063	
7,100.00	5,619.24	5,573.24	5,573.24	88.06	96.29	97.77	-4,823.43	4,870.75	6,340.87	6,157.76	183.12	34.627	
7,200.00	5,692.20	5,646.20	5,646.20	89.58	97.57	98.22	-4,823.43	4,870.75	6,353.80	6,168.07	185.73	34.210	
7,300.00	5,765.15	5,719.15	5,719.15	91.09	98.84	98.66	-4,823.43	4,870.75	6,367.43	6,179.10	188.33	33.810	
7,400.00	5,838.11	5,807.89	5,792.11	92.61	100.39	99.11	-4,823.43	4,870.75	6,381.76	6,190.57	191.19	33.379	
7,500.00	5,911.07	5,865.07	5,865.07	94.12	101.39	99.56	-4,823.43	4,870.75	6,396.79	6,203.31	193.48	33.061	
7,600.00	5,984.03	5,938.03	5,938.03	95.64	102.66	100.00	-4,823.43	4,870.75	6,412.52	6,216.48	196.04	32.710	
7,700.00	6,056.98	6,010.98	6,010.98	97.15	103.93	100.45	-4,823.43	4,870.75	6,428.94	6,230.35	198.58	32.374	
7,800.00	6,129.94	6,083.94	6,083.94	98.67	105.21	100.89	-4,823.43	4,870.75	6,446.04	6,244.92	201.11	32.052	
7,900.00	6,202.90	6,156.90	6,156.90	100.18	106.48	101.33	-4,823.43	4,870.75	6,463.81	6,260.19	203.63	31.743	
8,000.00	6,275.85	6,229.85	6,229.85	101.70	107.75	101.77	-4,823.43	4,870.75	6,482.27	6,276.14	206.13	31.448	
8,100.00	6,348.81	6,302.81	6,302.81	103.21	109.03	102.21	-4,823.43	4,870.75	6,501.38	6,292.77	208.61	31.165	
8,200.00	6,421.77	6,375.77	6,375.77	104.73	110.30	102.65	-4,823.43	4,870.75	6,521.16	6,310.08	211.08	30.895	
8,300.00	6,494.72	6,448.72	6,448.72	106.24	111.57	103.09	-4,823.43	4,870.75	6,541.60	6,328.07	213.53	30.635	
8,400.00	6,567.68	6,521.68	6,521.68	107.76	112.85	103.52	-4,823.43	4,870.75	6,562.68	6,346.71	215.97	30.387	
8,500.00	6,640.64	6,605.36	6,594.64	109.27	114.31	103.95	-4,823.43	4,870.75	6,584.41	6,365.83	218.58	30.123	
8,600.00	6,713.59	6,667.59	6,667.59	110.79	115.39	104.38	-4,823.43	4,870.75	6,606.77	6,385.97	220.80	29.922	
8,700.00	6,786.55	6,740.55	6,740.55	112.30	116.67	104.81	-4,823.43	4,870.75	6,629.76	6,406.57	223.20	29.704	
8,800.00	6,859.51	6,813.51	6,813.51	113.82	117.94	105.24	-4,823.43	4,870.75	6,653.38	6,427.81	225.57	29.495	
8,900.00	6,932.46	6,886.46	6,886.46	115.33	119.21	105.67	-4,823.43	4,870.75	6,677.62	6,449.68	227.94	29.296	
9,000.00	7,005.42	6,959.42	6,959.42	116.85	120.49	106.09	-4,823.43	4,870.75	6,702.46	6,472.18	230.28	29.105	
9,104.89	7,081.95	7,035.95	7,035.95	118.44	121.82	106.53	-4,823.43	4,870.75	6,729.17	6,496.44	232.73	28.914	
9,150.00	7,115.15	7,069.15	7,069.15	119.12	122.40	101.93	-4,823.43	4,870.75	6,739.13	6,505.34	233.79	28.826	
9,200.00	7,152.46	7,106.46	7,106.46	119.86	123.05	96.58	-4,823.43	4,870.75	6,746.24	6,511.26	234.98	28.710	
9,250.00	7,190.04	7,144.04	7,144.04	120.57	123.71	91.09	-4,823.43	4,870.75	6,749.17	6,512.99	236.18	28.577	
9,300.00	7,227.59	7,181.59	7,181.59	121.25	124.36	85.63	-4,823.43	4,870.75	6,747.91	6,510.53	237.37	28.427	
9,350.00	7,264.83	7,218.83	7,218.83	121.89	125.02	80.35	-4,823.43	4,870.75	6,742.45	6,503.90	238.55	28.264	
9,400.00	7,301.48	7,255.48	7,255.48	122.48	125.65	75.37	-4,823.43	4,870.75	6,732.85	6,493.15	239.71	28.088	
9,450.00	7,337.26	7,308.74	7,291.26	123.01	126.58	70.81	-4,823.43	4,870.75	6,719.17	6,478.04	241.12	27.866	
9,500.00	7,371.90	7,325.90	7,325.90	123.49	126.88	66.72	-4,823.43	4,870.75	6,701.50	6,459.61	241.89	27.705	
9,550.00	7,405.13	7,359.13	7,359.13	123.91	127.46	63.13	-4,823.43	4,870.75	6,679.96	6,437.07	242.89	27.502	
9,600.00	7,436.70	7,409.30	7,390.70	124.27	128.34	60.06	-4,823.43	4,870.75	6,654.72	6,410.56	244.16	27.255	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	7,420.36	7,420.36	124.57	128.53	57.48	-4,823.43	4,870.75	6,625.94	6,381.23	244.71	27.076	
9,700.00	7,493.91	7,447.91	7,447.91	124.81	129.01	55.40	-4,823.43	4,870.75	6,593.82	6,348.31	245.51	26.858	
9,750.00	7,519.11	7,473.11	7,473.11	125.00	129.45	53.81	-4,823.43	4,870.75	6,558.59	6,312.37	246.23	26.636	
9,800.00	7,541.79	7,504.21	7,495.79	125.12	130.00	52.71	-4,823.43	4,870.75	6,520.51	6,273.50	247.01	26.398	
9,850.00	7,561.77	7,515.77	7,515.77	125.20	130.20	52.15	-4,823.43	4,870.75	6,479.83	6,232.41	247.41	26.190	
9,900.00	7,578.90	7,532.90	7,532.90	125.23	130.50	52.21	-4,823.43	4,870.75	6,436.84	6,188.97	247.88	25.968	
9,950.00	7,593.04	7,547.04	7,547.04	125.22	130.74	53.07	-4,823.43	4,870.75	6,391.87	6,143.61	248.26	25.747	
10,000.00	7,604.09	7,558.09	7,558.09	125.17	130.94	55.12	-4,823.43	4,870.75	6,345.22	6,096.67	248.55	25.529	
10,050.00	7,611.97	7,565.97	7,565.97	125.08	131.07	59.33	-4,823.43	4,870.75	6,297.24	6,048.47	248.76	25.314	
10,100.00	7,616.61	7,570.61	7,570.61	124.97	131.15	68.50	-4,823.43	4,870.75	6,248.27	5,999.38	248.90	25.104	
10,145.95	7,618.00	7,572.00	7,572.00	124.84	131.18	90.00	-4,823.43	4,870.75	6,202.72	5,953.77	248.95	24.916	
10,200.00	7,618.00	7,572.00	7,572.00	124.69	131.18	90.00	-4,823.43	4,870.75	6,148.94	5,899.96	248.98	24.697	
10,300.00	7,618.00	7,572.00	7,572.00	124.41	131.18	90.00	-4,823.43	4,870.75	6,049.45	5,800.43	249.03	24.292	
10,400.00	7,618.00	7,572.00	7,572.00	124.14	131.18	90.00	-4,823.43	4,870.75	5,949.99	5,700.91	249.08	23.888	
10,500.00	7,618.00	7,572.00	7,572.00	123.88	131.18	90.00	-4,823.43	4,870.75	5,850.54	5,601.40	249.13	23.484	
10,600.00	7,618.00	7,572.00	7,572.00	123.63	131.18	90.00	-4,823.43	4,870.75	5,751.11	5,501.92	249.19	23.079	
10,700.00	7,618.00	7,572.00	7,572.00	123.40	131.18	90.00	-4,823.43	4,870.75	5,651.69	5,402.45	249.25	22.675	
10,800.00	7,618.00	7,572.00	7,572.00	123.18	131.18	90.00	-4,823.43	4,870.75	5,552.31	5,303.00	249.31	22.271	
10,900.00	7,618.00	7,572.00	7,572.00	122.96	131.18	90.00	-4,823.43	4,870.75	5,452.94	5,203.57	249.37	21.867	
11,000.00	7,618.00	7,572.00	7,572.00	122.76	131.18	90.00	-4,823.43	4,870.75	5,353.59	5,104.16	249.44	21.463	
11,100.00	7,618.00	7,572.00	7,572.00	122.57	131.18	90.00	-4,823.43	4,870.75	5,254.28	5,004.77	249.50	21.059	
11,200.00	7,618.00	7,572.00	7,572.00	122.39	131.18	90.00	-4,823.43	4,870.75	5,154.98	4,905.41	249.57	20.655	
11,300.00	7,618.00	7,572.00	7,572.00	122.23	131.18	90.00	-4,823.43	4,870.75	5,055.72	4,806.07	249.65	20.251	
11,400.00	7,618.00	7,572.00	7,572.00	122.07	131.18	90.00	-4,823.43	4,870.75	4,956.48	4,706.76	249.72	19.848	
11,500.00	7,618.00	7,572.00	7,572.00	121.93	131.18	90.00	-4,823.43	4,870.75	4,857.28	4,607.48	249.80	19.444	
11,600.00	7,618.00	7,572.00	7,572.00	121.79	131.18	90.00	-4,823.43	4,870.75	4,758.11	4,508.22	249.89	19.041	
11,700.00	7,618.00	7,572.00	7,572.00	121.67	131.18	90.00	-4,823.43	4,870.75	4,658.98	4,409.00	249.97	18.638	
11,800.00	7,618.00	7,572.00	7,572.00	121.56	131.18	90.00	-4,823.43	4,870.75	4,559.88	4,309.82	250.06	18.235	
11,900.00	7,618.00	7,572.00	7,572.00	121.46	131.18	90.00	-4,823.43	4,870.75	4,460.82	4,210.67	250.15	17.832	
12,000.00	7,618.00	7,572.00	7,572.00	121.38	131.18	90.00	-4,823.43	4,870.75	4,361.81	4,111.56	250.25	17.430	
12,100.00	7,618.00	7,572.00	7,572.00	121.30	131.18	90.00	-4,823.43	4,870.75	4,262.84	4,012.49	250.35	17.027	
12,200.00	7,618.00	7,572.00	7,572.00	121.24	131.18	90.00	-4,823.43	4,870.75	4,163.92	3,913.46	250.46	16.625	
12,300.00	7,618.00	7,572.00	7,572.00	121.19	131.18	90.00	-4,823.43	4,870.75	4,065.06	3,814.49	250.57	16.223	
12,400.00	7,618.00	7,572.00	7,572.00	121.16	131.18	90.00	-4,823.43	4,870.75	3,966.25	3,715.57	250.68	15.822	
12,500.00	7,618.00	7,572.00	7,572.00	121.14	131.18	90.00	-4,823.43	4,870.75	3,867.50	3,616.70	250.80	15.420	
12,600.00	7,618.00	7,572.00	7,572.00	121.13	131.18	90.00	-4,823.43	4,870.75	3,768.82	3,517.89	250.93	15.019	
12,700.00	7,618.00	7,572.00	7,572.00	121.13	131.18	90.00	-4,823.43	4,870.75	3,670.21	3,419.15	251.06	14.619	
12,800.00	7,618.00	7,572.00	7,572.00	121.15	131.18	90.00	-4,823.43	4,870.75	3,571.68	3,320.48	251.20	14.218	
12,900.00	7,618.00	7,572.00	7,572.00	121.18	131.18	90.00	-4,823.43	4,870.75	3,473.23	3,221.88	251.35	13.818	
13,000.00	7,618.00	7,572.00	7,572.00	121.23	131.18	90.00	-4,823.43	4,870.75	3,374.87	3,123.37	251.50	13.419	
13,100.00	7,618.00	7,572.00	7,572.00	121.29	131.18	90.00	-4,823.43	4,870.75	3,276.62	3,024.96	251.66	13.020	
13,200.00	7,618.00	7,572.00	7,572.00	121.37	131.18	90.00	-4,823.43	4,870.75	3,178.47	2,926.64	251.83	12.622	
13,300.00	7,618.00	7,572.00	7,572.00	121.46	131.18	90.00	-4,823.43	4,870.75	3,080.44	2,828.43	252.01	12.224	
13,400.00	7,618.00	7,572.00	7,572.00	121.57	131.18	90.00	-4,823.43	4,870.75	2,982.54	2,730.35	252.19	11.826	
13,500.00	7,618.00	7,572.00	7,572.00	121.70	131.18	90.00	-4,823.43	4,870.75	2,884.78	2,632.40	252.39	11.430	
13,600.00	7,618.00	7,572.00	7,572.00	121.84	131.18	90.00	-4,823.43	4,870.75	2,787.19	2,534.59	252.60	11.034	
13,700.00	7,618.00	7,572.00	7,572.00	122.01	131.18	90.00	-4,823.43	4,870.75	2,689.77	2,436.95	252.81	10.639	
13,800.00	7,618.00	7,572.00	7,572.00	122.19	131.18	90.00	-4,823.43	4,870.75	2,592.55	2,339.50	253.05	10.245	
13,900.00	7,618.00	7,572.00	7,572.00	122.39	131.18	90.00	-4,823.43	4,870.75	2,495.54	2,242.25	253.29	9.853	
14,000.00	7,618.00	7,572.00	7,572.00	122.62	131.18	90.00	-4,823.43	4,870.75	2,398.79	2,145.24	253.55	9.461	
14,100.00	7,618.00	7,572.00	7,572.00	122.86	131.18	90.00	-4,823.43	4,870.75	2,302.31	2,048.49	253.82	9.071	
14,200.00	7,618.00	7,572.00	7,572.00	123.12	131.18	90.00	-4,823.43	4,870.75	2,206.14	1,952.03	254.11	8.682	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	7,572.00	7,572.00	123.41	131.18	90.00	-4,823.43	4,870.75	2,110.33	1,855.92	254.42	8.295	
14,400.00	7,618.00	7,572.00	7,572.00	123.72	131.18	90.00	-4,823.43	4,870.75	2,014.93	1,760.19	254.74	7.910	
14,500.00	7,618.00	7,572.00	7,572.00	124.06	131.18	90.00	-4,823.43	4,870.75	1,919.99	1,664.92	255.08	7.527	
14,600.00	7,618.00	7,572.00	7,572.00	124.42	131.18	90.00	-4,823.43	4,870.75	1,825.60	1,570.16	255.44	7.147	
14,700.00	7,618.00	7,572.00	7,572.00	124.80	131.18	90.00	-4,823.43	4,870.75	1,731.84	1,476.03	255.81	6.770	
14,800.00	7,618.00	7,572.00	7,572.00	125.21	131.18	90.00	-4,823.43	4,870.75	1,638.81	1,382.61	256.20	6.397	
14,900.00	7,618.00	7,572.00	7,572.00	125.65	131.18	90.00	-4,823.43	4,870.75	1,546.65	1,290.05	256.60	6.027	
15,000.00	7,618.00	7,572.00	7,572.00	126.11	131.18	90.00	-4,823.43	4,870.75	1,455.53	1,198.52	257.01	5.663	
15,100.00	7,618.00	7,572.00	7,572.00	126.61	131.18	90.00	-4,823.43	4,870.75	1,365.66	1,108.24	257.41	5.305	
15,200.00	7,618.00	7,572.00	7,572.00	127.13	131.18	90.00	-4,823.43	4,870.75	1,277.29	1,019.49	257.80	4.955	
15,300.00	7,618.00	7,572.00	7,572.00	127.68	131.18	90.00	-4,823.43	4,870.75	1,190.76	932.62	258.14	4.613	
15,400.00	7,618.00	7,572.00	7,572.00	128.26	131.18	90.00	-4,823.43	4,870.75	1,106.50	848.11	258.39	4.282	
15,500.00	7,618.00	7,572.00	7,572.00	128.87	131.18	90.00	-4,823.43	4,870.75	1,025.08	766.57	258.51	3.965	
15,600.00	7,618.00	7,572.00	7,572.00	129.51	131.18	90.00	-4,823.43	4,870.75	947.22	688.83	258.39	3.666	
15,700.00	7,618.00	7,572.00	7,572.00	130.18	131.18	90.00	-4,823.43	4,870.75	873.88	615.97	257.90	3.388	
15,800.00	7,618.00	7,572.00	7,572.00	130.88	131.18	90.00	-4,823.43	4,870.75	806.29	549.42	256.87	3.139	
15,900.00	7,618.00	7,572.00	7,572.00	131.61	131.18	90.00	-4,823.43	4,870.75	746.02	490.96	255.06	2.925	
16,000.00	7,618.00	7,572.00	7,572.00	132.37	131.18	90.00	-4,823.43	4,870.75	694.97	442.78	252.19	2.756	
16,100.00	7,618.00	7,572.00	7,572.00	133.17	131.18	90.00	-4,823.43	4,870.75	655.30	407.25	248.06	2.642	
16,200.00	7,618.00	7,572.00	7,572.00	133.99	131.18	90.00	-4,823.43	4,870.75	629.18	386.48	242.70	2.592	SF
16,300.00	7,618.00	7,572.00	7,572.00	134.84	131.18	90.00	-4,823.43	4,870.75	618.31	381.79	236.52	2.614	ES
16,317.80	7,618.00	7,572.00	7,572.00	135.00	131.18	90.00	-4,823.43	4,870.75	618.05	382.66	235.40	2.626	CC
16,400.00	7,618.00	7,572.00	7,572.00	135.72	131.18	90.00	-4,823.43	4,870.75	623.49	393.13	230.37	2.707	
16,500.00	7,618.00	7,572.00	7,572.00	136.63	131.18	90.00	-4,823.43	4,870.75	644.35	419.15	225.20	2.861	
16,600.00	7,618.00	7,572.00	7,572.00	137.57	131.18	90.00	-4,823.43	4,870.75	679.43	457.78	221.65	3.065	
16,700.00	7,618.00	7,572.00	7,572.00	138.54	131.18	90.00	-4,823.43	4,870.75	726.68	506.85	219.83	3.306	
16,800.00	7,618.00	7,572.00	7,572.00	139.53	131.18	90.00	-4,823.43	4,870.75	783.90	564.48	219.43	3.573	
16,900.00	7,618.00	7,572.00	7,572.00	140.55	131.18	90.00	-4,823.43	4,870.75	849.09	629.11	219.98	3.860	
17,000.00	7,618.00	7,572.00	7,572.00	141.60	131.18	90.00	-4,823.43	4,870.75	920.54	699.46	221.07	4.164	
17,100.00	7,618.00	7,572.00	7,572.00	142.67	131.18	90.00	-4,823.43	4,870.75	996.91	774.48	222.42	4.482	
17,200.00	7,618.00	7,572.00	7,572.00	143.77	131.18	90.00	-4,823.43	4,870.75	1,077.16	853.30	223.86	4.812	
17,300.00	7,618.00	7,572.00	7,572.00	144.88	131.18	90.00	-4,823.43	4,870.75	1,160.48	935.21	225.27	5.152	
17,400.00	7,618.00	7,572.00	7,572.00	146.02	131.18	90.00	-4,823.43	4,870.75	1,246.25	1,019.65	226.60	5.500	
17,500.00	7,618.00	7,572.00	7,572.00	147.19	131.18	90.00	-4,823.43	4,870.75	1,334.01	1,106.17	227.84	5.855	
17,600.00	7,618.00	7,572.00	7,572.00	148.37	131.18	90.00	-4,823.43	4,870.75	1,423.39	1,194.41	228.98	6.216	
17,700.00	7,618.00	7,572.00	7,572.00	149.57	131.18	90.00	-4,823.43	4,870.75	1,514.09	1,284.08	230.01	6.583	
17,800.00	7,618.00	7,572.00	7,572.00	150.79	131.18	90.00	-4,823.43	4,870.75	1,605.90	1,374.94	230.96	6.953	
17,900.00	7,618.00	7,572.00	7,572.00	152.03	131.18	90.00	-4,823.43	4,870.75	1,698.63	1,466.82	231.81	7.328	
18,000.00	7,618.00	7,572.00	7,572.00	153.29	131.18	90.00	-4,823.43	4,870.75	1,792.15	1,559.55	232.60	7.705	
18,100.00	7,618.00	7,572.00	7,572.00	154.57	131.18	90.00	-4,823.43	4,870.75	1,886.33	1,653.02	233.31	8.085	
18,200.00	7,618.00	7,572.00	7,572.00	155.86	131.18	90.00	-4,823.43	4,870.75	1,981.08	1,747.12	233.96	8.468	
18,300.00	7,618.00	7,572.00	7,572.00	157.17	131.18	90.00	-4,823.43	4,870.75	2,076.32	1,841.76	234.56	8.852	
18,400.00	7,618.00	7,572.00	7,572.00	158.49	131.18	90.00	-4,823.43	4,870.75	2,171.99	1,936.89	235.11	9.238	
18,500.00	7,618.00	7,572.00	7,572.00	159.82	131.18	90.00	-4,823.43	4,870.75	2,268.04	2,032.42	235.61	9.626	
18,600.00	7,618.00	7,572.00	7,572.00	161.17	131.18	90.00	-4,823.43	4,870.75	2,364.41	2,128.33	236.08	10.015	
18,700.00	7,618.00	7,572.00	7,572.00	162.54	131.18	90.00	-4,823.43	4,870.75	2,461.07	2,224.56	236.51	10.406	
18,800.00	7,618.00	7,572.00	7,572.00	163.91	131.18	90.00	-4,823.43	4,870.75	2,557.99	2,321.08	236.91	10.797	
18,900.00	7,618.00	7,572.00	7,572.00	165.30	131.18	90.00	-4,823.43	4,870.75	2,655.14	2,417.85	237.29	11.190	
19,000.00	7,618.00	7,572.00	7,572.00	166.70	131.18	90.00	-4,823.43	4,870.75	2,752.49	2,514.85	237.64	11.583	
19,100.00	7,618.00	7,572.00	7,572.00	168.10	131.18	90.00	-4,823.43	4,870.75	2,850.02	2,612.06	237.96	11.977	
19,200.00	7,618.00	7,572.00	7,572.00	169.52	131.18	90.00	-4,823.43	4,870.75	2,947.72	2,709.45	238.27	12.371	
19,300.00	7,618.00	7,572.00	7,572.00	170.95	131.18	90.00	-4,823.43	4,870.75	3,045.57	2,807.02	238.56	12.767	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	7,572.00	7,572.00	172.39	131.18	90.00	-4,823.43	4,870.75	3,143.56	2,904.73	238.83	13.162	
19,500.00	7,618.00	7,572.00	7,572.00	173.84	131.18	90.00	-4,823.43	4,870.75	3,241.67	3,002.58	239.08	13.559	
19,600.00	7,618.00	7,572.00	7,572.00	175.30	131.18	90.00	-4,823.43	4,870.75	3,339.89	3,100.56	239.32	13.955	
19,700.00	7,618.00	7,572.00	7,572.00	176.76	131.18	90.00	-4,823.43	4,870.75	3,438.21	3,198.65	239.55	14.353	
19,800.00	7,618.00	7,572.00	7,572.00	178.24	131.18	90.00	-4,823.43	4,870.75	3,536.62	3,296.85	239.77	14.750	
19,896.19	7,618.00	7,572.00	7,572.00	179.66	131.18	90.00	-4,823.43	4,870.75	3,631.37	3,391.40	239.97	15.133	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	143.27	-4,087.86	3,050.29	5,100.52				
100.00	100.00	79.00	79.00	0.13	0.61	143.27	-4,087.86	3,050.29	5,100.48	5,099.73	0.75	6,818.833	
200.00	200.00	179.00	179.00	0.49	2.16	143.27	-4,087.86	3,050.29	5,100.48	5,097.83	2.65	1,925.884	
300.00	299.98	278.98	278.98	0.85	3.90	73.98	-4,087.86	3,050.29	5,099.99	5,095.25	4.75	1,074.182	
400.00	399.84	378.84	378.84	1.21	5.64	74.07	-4,087.86	3,050.29	5,098.55	5,091.70	6.85	744.432	
500.00	499.45	478.45	478.45	1.58	7.38	74.21	-4,087.86	3,050.29	5,096.16	5,087.20	8.96	568.896	
600.00	598.70	577.70	577.70	1.97	9.11	74.40	-4,087.86	3,050.29	5,092.84	5,081.76	11.08	459.736	
700.00	697.47	676.47	676.47	2.38	10.84	74.65	-4,087.86	3,050.29	5,088.62	5,075.41	13.21	385.156	
800.00	795.62	774.62	774.62	2.83	12.55	74.95	-4,087.86	3,050.29	5,083.53	5,068.16	15.36	330.872	
900.00	893.06	872.06	872.06	3.31	14.25	75.31	-4,087.86	3,050.29	5,077.61	5,060.07	17.54	289.523	
1,000.00	989.64	968.64	968.64	3.83	15.94	75.71	-4,087.86	3,050.29	5,070.92	5,051.19	19.74	256.928	
1,100.00	1,085.27	1,064.27	1,064.27	4.40	17.61	76.16	-4,087.86	3,050.29	5,063.51	5,041.55	21.96	230.540	
1,200.00	1,179.82	1,158.82	1,158.82	5.02	19.26	76.66	-4,087.86	3,050.29	5,055.45	5,031.23	24.22	208.717	
1,300.00	1,273.17	1,252.17	1,252.17	5.70	20.89	77.20	-4,087.86	3,050.29	5,046.80	5,020.29	26.51	190.355	
1,400.00	1,365.21	1,344.21	1,344.21	6.43	22.49	77.78	-4,087.86	3,050.29	5,037.64	5,008.80	28.84	174.682	
1,500.00	1,455.84	1,434.84	1,434.84	7.23	24.07	78.40	-4,087.86	3,050.29	5,028.06	4,996.86	31.20	161.144	
1,600.00	1,544.94	1,523.94	1,523.94	8.09	25.63	79.05	-4,087.86	3,050.29	5,018.15	4,984.54	33.60	149.332	
1,700.00	1,632.39	1,611.39	1,611.39	9.01	27.16	79.73	-4,087.86	3,050.29	5,007.99	4,971.94	36.05	138.936	
1,800.00	1,718.11	1,702.89	1,697.11	10.00	28.75	80.43	-4,087.86	3,050.29	4,997.69	4,959.06	38.63	129.381	
1,900.00	1,801.97	1,780.97	1,780.97	11.07	30.12	81.16	-4,087.86	3,050.29	4,987.36	4,946.31	41.05	121.499	
2,000.00	1,883.88	1,862.88	1,862.88	12.20	31.54	81.90	-4,087.86	3,050.29	4,977.10	4,933.49	43.61	114.125	
2,100.00	1,963.74	1,942.74	1,942.74	13.41	32.94	82.65	-4,087.86	3,050.29	4,967.02	4,920.81	46.21	107.481	
2,200.00	2,041.45	2,020.45	2,020.45	14.69	34.29	83.41	-4,087.86	3,050.29	4,957.24	4,908.39	48.85	101.469	
2,300.00	2,116.92	2,104.08	2,095.92	16.05	35.75	84.17	-4,087.86	3,050.29	4,947.88	4,896.20	51.68	95.747	
2,357.48	2,159.25	2,138.25	2,138.25	16.86	36.35	84.60	-4,087.86	3,050.29	4,942.73	4,889.64	53.09	93.102	
2,400.00	2,190.27	2,169.27	2,169.27	17.47	36.89	84.85	-4,087.86	3,050.29	4,939.08	4,884.84	54.25	91.051	
2,500.00	2,263.22	2,242.22	2,242.22	18.92	38.17	85.43	-4,087.86	3,050.29	4,931.16	4,874.18	56.98	86.545	
2,600.00	2,336.18	2,315.18	2,315.18	20.37	39.44	86.01	-4,087.86	3,050.29	4,924.17	4,864.45	59.72	82.451	
2,700.00	2,409.14	2,388.14	2,388.14	21.84	40.71	86.59	-4,087.86	3,050.29	4,918.12	4,855.65	62.48	78.719	
2,800.00	2,482.09	2,461.09	2,461.09	23.31	41.99	87.17	-4,087.86	3,050.29	4,913.02	4,847.79	65.24	75.310	
2,900.00	2,555.05	2,534.05	2,534.05	24.78	43.26	87.75	-4,087.86	3,050.29	4,908.87	4,840.87	68.00	72.185	
3,000.00	2,628.01	2,607.01	2,607.01	26.27	44.53	88.33	-4,087.86	3,050.29	4,905.67	4,834.89	70.77	69.316	
3,100.00	2,700.96	2,679.96	2,679.96	27.75	45.81	88.91	-4,087.86	3,050.29	4,903.41	4,829.87	73.54	66.674	
3,200.00	2,773.92	2,752.92	2,752.92	29.24	47.08	89.50	-4,087.86	3,050.29	4,902.12	4,825.80	76.31	64.236	
3,286.10	2,836.74	2,815.74	2,815.74	30.52	48.18	90.00	-4,087.86	3,050.29	4,901.76	4,823.06	78.70	62.285	
3,300.00	2,846.88	2,825.88	2,825.88	30.73	48.35	90.08	-4,087.86	3,050.29	4,901.77	4,822.69	79.08	61.982	
3,400.00	2,919.83	2,901.17	2,898.83	32.23	49.67	90.66	-4,087.86	3,050.29	4,902.38	4,820.49	81.89	59.864	
3,500.00	2,992.79	2,971.79	2,971.79	33.72	50.90	91.25	-4,087.86	3,050.29	4,903.94	4,819.33	84.61	57.957	
3,600.00	3,065.75	3,044.75	3,044.75	35.22	52.17	91.83	-4,087.86	3,050.29	4,906.46	4,819.09	87.37	56.155	
3,700.00	3,138.71	3,117.71	3,117.71	36.72	53.45	92.41	-4,087.86	3,050.29	4,909.93	4,819.80	90.13	54.478	
3,800.00	3,211.66	3,209.34	3,190.66	38.22	55.04	92.99	-4,087.86	3,050.29	4,914.35	4,821.15	93.20	52.729	
3,900.00	3,284.62	3,263.62	3,263.62	39.72	55.99	93.58	-4,087.86	3,050.29	4,919.71	4,824.10	95.61	51.455	
4,000.00	3,357.58	3,336.58	3,336.58	41.22	57.27	94.16	-4,087.86	3,050.29	4,926.02	4,827.67	98.34	50.090	
4,100.00	3,430.53	3,409.53	3,409.53	42.73	58.54	94.74	-4,087.86	3,050.29	4,933.27	4,832.20	101.07	48.813	
4,200.00	3,503.49	3,482.49	3,482.49	44.23	59.81	95.31	-4,087.86	3,050.29	4,941.45	4,837.67	103.78	47.616	
4,300.00	3,576.45	3,555.45	3,555.45	45.74	61.09	95.89	-4,087.86	3,050.29	4,950.57	4,844.09	106.48	46.494	
4,400.00	3,649.40	3,628.40	3,628.40	47.25	62.36	96.47	-4,087.86	3,050.29	4,960.61	4,851.44	109.17	45.440	
4,500.00	3,722.36	3,701.36	3,701.36	48.75	63.63	97.04	-4,087.86	3,050.29	4,971.57	4,859.72	111.85	44.450	
4,600.00	3,795.32	3,774.32	3,774.32	50.26	64.91	97.62	-4,087.86	3,050.29	4,983.45	4,868.94	114.51	43.520	
4,700.00	3,868.27	3,847.27	3,847.27	51.77	66.18	98.19	-4,087.86	3,050.29	4,996.23	4,879.07	117.16	42.644	
4,800.00	3,941.23	3,920.23	3,920.23	53.28	67.45	98.76	-4,087.86	3,050.29	5,009.92	4,890.12	119.80	41.819	
4,900.00	4,014.19	4,006.81	3,993.19	54.79	68.96	99.33	-4,087.86	3,050.29	5,024.50	4,901.83	122.66	40.962	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,087.15	4,066.15	4,066.15	56.30	70.00	99.90	-4,087.86	3,050.29	5,039.96	4,914.93	125.03	40.309	
5,100.00	4,160.10	4,139.10	4,139.10	57.81	71.27	100.46	-4,087.86	3,050.29	5,056.30	4,928.68	127.63	39.618	
5,200.00	4,233.06	4,212.06	4,212.06	59.32	72.55	101.02	-4,087.86	3,050.29	5,073.52	4,943.31	130.20	38.966	
5,300.00	4,306.02	4,285.02	4,285.02	60.83	73.82	101.59	-4,087.86	3,050.29	5,091.59	4,958.82	132.77	38.350	
5,400.00	4,378.97	4,357.97	4,357.97	62.34	75.09	102.14	-4,087.86	3,050.29	5,110.51	4,975.20	135.31	37.769	
5,500.00	4,451.93	4,430.93	4,430.93	63.85	76.37	102.70	-4,087.86	3,050.29	5,130.28	4,992.44	137.84	37.219	
5,600.00	4,524.89	4,503.89	4,503.89	65.36	77.64	103.25	-4,087.86	3,050.29	5,150.88	5,010.53	140.35	36.700	
5,700.00	4,597.84	4,576.84	4,576.84	66.88	78.91	103.80	-4,087.86	3,050.29	5,172.30	5,029.45	142.85	36.209	
5,800.00	4,670.80	4,649.80	4,649.80	68.39	80.19	104.35	-4,087.86	3,050.29	5,194.53	5,049.21	145.33	35.744	
5,900.00	4,743.76	4,722.76	4,722.76	69.90	81.46	104.90	-4,087.86	3,050.29	5,217.57	5,069.78	147.79	35.305	
6,000.00	4,816.71	4,804.29	4,795.71	71.41	82.88	105.44	-4,087.86	3,050.29	5,241.39	5,091.02	150.38	34.855	
6,100.00	4,889.67	4,868.67	4,868.67	72.93	84.01	105.98	-4,087.86	3,050.29	5,266.00	5,113.35	152.65	34.496	
6,200.00	4,962.63	4,941.63	4,941.63	74.44	85.28	106.52	-4,087.86	3,050.29	5,291.38	5,136.32	155.06	34.124	
6,300.00	5,035.59	5,014.59	5,014.59	75.95	86.55	107.06	-4,087.86	3,050.29	5,317.51	5,160.06	157.45	33.772	
6,400.00	5,108.54	5,087.54	5,087.54	77.47	87.83	107.59	-4,087.86	3,050.29	5,344.39	5,184.57	159.82	33.439	
6,500.00	5,181.50	5,160.50	5,160.50	78.98	89.10	108.12	-4,087.86	3,050.29	5,372.01	5,209.84	162.18	33.124	
6,600.00	5,254.46	5,233.46	5,233.46	80.49	90.37	108.64	-4,087.86	3,050.29	5,400.36	5,235.84	164.51	32.826	
6,700.00	5,327.41	5,306.41	5,306.41	82.01	91.65	109.16	-4,087.86	3,050.29	5,429.41	5,262.58	166.83	32.544	
6,800.00	5,400.37	5,379.37	5,379.37	83.52	92.92	109.68	-4,087.86	3,050.29	5,459.17	5,290.04	169.13	32.277	
6,900.00	5,473.33	5,452.33	5,452.33	85.04	94.19	110.20	-4,087.86	3,050.29	5,489.62	5,318.20	171.42	32.025	
7,000.00	5,546.28	5,525.28	5,525.28	86.55	95.47	110.71	-4,087.86	3,050.29	5,520.75	5,347.07	173.69	31.786	
7,100.00	5,619.24	5,601.76	5,598.24	88.06	96.80	111.22	-4,087.86	3,050.29	5,552.55	5,376.55	176.00	31.549	
7,200.00	5,692.20	5,671.20	5,671.20	89.58	98.01	111.72	-4,087.86	3,050.29	5,585.00	5,406.83	178.17	31.347	
7,300.00	5,765.15	5,744.15	5,744.15	91.09	99.29	112.22	-4,087.86	3,050.29	5,618.10	5,437.72	180.38	31.145	
7,400.00	5,838.11	5,817.11	5,817.11	92.61	100.56	112.72	-4,087.86	3,050.29	5,651.83	5,469.25	182.58	30.955	
7,500.00	5,911.07	5,909.93	5,890.07	94.12	102.18	113.22	-4,087.86	3,050.29	5,686.19	5,501.07	185.11	30.717	
7,600.00	5,984.03	5,963.03	5,963.03	95.64	103.11	113.71	-4,087.86	3,050.29	5,721.15	5,534.22	186.93	30.605	
7,700.00	6,056.98	6,035.98	6,035.98	97.15	104.38	114.19	-4,087.86	3,050.29	5,756.72	5,567.63	189.09	30.445	
7,800.00	6,129.94	6,108.94	6,108.94	98.67	105.65	114.68	-4,087.86	3,050.29	5,792.87	5,601.65	191.22	30.294	
7,900.00	6,202.90	6,181.90	6,181.90	100.18	106.93	115.16	-4,087.86	3,050.29	5,829.61	5,636.27	193.34	30.152	
8,000.00	6,275.85	6,254.85	6,254.85	101.70	108.20	115.63	-4,087.86	3,050.29	5,866.91	5,671.46	195.45	30.018	
8,100.00	6,348.81	6,327.81	6,327.81	103.21	109.47	116.11	-4,087.86	3,050.29	5,904.77	5,707.23	197.54	29.892	
8,200.00	6,421.77	6,400.77	6,400.77	104.73	110.75	116.57	-4,087.86	3,050.29	5,943.17	5,743.56	199.61	29.774	
8,300.00	6,494.72	6,473.72	6,473.72	106.24	112.02	117.04	-4,087.86	3,050.29	5,982.11	5,780.43	201.67	29.662	
8,400.00	6,567.68	6,546.68	6,546.68	107.76	113.29	117.50	-4,087.86	3,050.29	6,021.57	5,817.85	203.72	29.558	
8,500.00	6,640.64	6,619.64	6,619.64	109.27	114.57	117.96	-4,087.86	3,050.29	6,061.55	5,855.79	205.75	29.460	
8,600.00	6,713.59	6,707.41	6,692.59	110.79	116.10	118.41	-4,087.86	3,050.29	6,102.03	5,894.00	208.03	29.332	
8,700.00	6,786.55	6,765.55	6,765.55	112.30	117.11	118.86	-4,087.86	3,050.29	6,143.01	5,933.23	209.78	29.283	
8,800.00	6,859.51	6,838.51	6,838.51	113.82	118.39	119.30	-4,087.86	3,050.29	6,184.47	5,972.70	211.78	29.203	
8,900.00	6,932.46	6,911.46	6,911.46	115.33	119.66	119.75	-4,087.86	3,050.29	6,226.41	6,012.65	213.76	29.128	
9,000.00	7,005.42	6,984.42	6,984.42	116.85	120.93	120.18	-4,087.86	3,050.29	6,268.81	6,053.09	215.73	29.059	
9,104.89	7,081.95	7,060.95	7,060.95	118.44	122.27	120.64	-4,087.86	3,050.29	6,313.78	6,096.00	217.78	28.992	
9,150.00	7,115.15	7,105.85	7,094.15	119.12	123.05	115.56	-4,087.86	3,050.29	6,331.71	6,112.83	218.88	28.928	
9,200.00	7,152.46	7,131.46	7,131.46	119.86	123.50	109.79	-4,087.86	3,050.29	6,347.96	6,128.27	219.69	28.895	
9,250.00	7,190.04	7,169.04	7,169.04	120.57	124.15	104.00	-4,087.86	3,050.29	6,360.30	6,139.58	220.72	28.816	
9,300.00	7,227.59	7,206.59	7,206.59	121.25	124.81	98.34	-4,087.86	3,050.29	6,368.67	6,146.91	221.76	28.719	
9,350.00	7,264.83	7,243.83	7,243.83	121.89	125.46	92.94	-4,087.86	3,050.29	6,373.02	6,150.22	222.79	28.605	
9,400.00	7,301.48	7,280.48	7,280.48	122.48	126.10	87.93	-4,087.86	3,050.29	6,373.33	6,149.51	223.81	28.476	
9,450.00	7,337.26	7,316.26	7,316.26	123.01	126.72	83.42	-4,087.86	3,050.29	6,369.61	6,144.80	224.80	28.334	
9,500.00	7,371.90	7,350.90	7,350.90	123.49	127.33	79.46	-4,087.86	3,050.29	6,361.90	6,136.14	225.76	28.181	
9,550.00	7,405.13	7,384.13	7,384.13	123.91	127.91	76.09	-4,087.86	3,050.29	6,350.26	6,123.60	226.66	28.016	
9,600.00	7,436.70	7,415.70	7,415.70	124.27	128.46	73.31	-4,087.86	3,050.29	6,334.79	6,107.28	227.51	27.844	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	7,445.36	7,445.36	124.57	128.98	71.13	-4,087.86	3,050.29	6,315.61	6,087.30	228.30	27.663	
9,700.00	7,493.91	7,472.91	7,472.91	124.81	129.46	69.54	-4,087.86	3,050.29	6,292.84	6,063.82	229.03	27.476	
9,750.00	7,519.11	7,501.89	7,498.11	125.00	129.96	68.54	-4,087.86	3,050.29	6,266.67	6,036.93	229.74	27.277	
9,800.00	7,541.79	7,520.79	7,520.79	125.12	130.29	68.15	-4,087.86	3,050.29	6,237.28	6,007.03	230.25	27.089	
9,850.00	7,561.77	7,540.77	7,540.77	125.20	130.64	68.41	-4,087.86	3,050.29	6,204.86	5,974.12	230.74	26.891	
9,900.00	7,578.90	7,557.90	7,557.90	125.23	130.94	69.37	-4,087.86	3,050.29	6,169.66	5,938.51	231.16	26.690	
9,950.00	7,593.04	7,572.04	7,572.04	125.22	131.19	71.13	-4,087.86	3,050.29	6,131.92	5,900.43	231.49	26.489	
10,000.00	7,604.09	7,583.09	7,583.09	125.17	131.38	73.86	-4,087.86	3,050.29	6,091.90	5,860.16	231.75	26.287	
10,050.00	7,611.97	7,609.03	7,590.97	125.08	131.83	77.79	-4,087.86	3,050.29	6,049.89	5,817.65	232.24	26.051	
10,100.00	7,616.61	7,604.39	7,595.61	124.97	131.75	83.25	-4,087.86	3,050.29	6,006.17	5,773.99	232.17	25.869	
10,145.95	7,618.00	7,603.00	7,597.00	124.84	131.73	90.00	-4,087.86	3,050.29	5,964.75	5,732.60	232.16	25.693	
10,200.00	7,618.00	7,603.00	7,597.00	124.69	131.73	90.00	-4,087.86	3,050.29	5,915.48	5,683.32	232.15	25.481	
10,300.00	7,618.00	7,603.00	7,597.00	124.41	131.73	90.00	-4,087.86	3,050.29	5,824.53	5,592.38	232.15	25.089	
10,400.00	7,618.00	7,603.00	7,597.00	124.14	131.73	90.00	-4,087.86	3,050.29	5,733.89	5,501.75	232.15	24.699	
10,500.00	7,618.00	7,603.00	7,597.00	123.88	131.73	90.00	-4,087.86	3,050.29	5,643.57	5,411.42	232.14	24.311	
10,600.00	7,618.00	7,603.00	7,597.00	123.63	131.73	90.00	-4,087.86	3,050.29	5,553.57	5,321.44	232.14	23.924	
10,700.00	7,618.00	7,603.00	7,597.00	123.40	131.73	90.00	-4,087.86	3,050.29	5,463.93	5,231.80	232.13	23.538	
10,800.00	7,618.00	7,603.00	7,597.00	123.18	131.73	90.00	-4,087.86	3,050.29	5,374.65	5,142.53	232.12	23.155	
10,900.00	7,618.00	7,603.00	7,597.00	122.96	131.73	90.00	-4,087.86	3,050.29	5,285.75	5,053.64	232.11	22.772	
11,000.00	7,618.00	7,603.00	7,597.00	122.76	131.73	90.00	-4,087.86	3,050.29	5,197.26	4,965.16	232.10	22.392	
11,100.00	7,618.00	7,603.00	7,597.00	122.57	131.73	90.00	-4,087.86	3,050.29	5,109.19	4,877.10	232.09	22.014	
11,200.00	7,618.00	7,603.00	7,597.00	122.39	131.73	90.00	-4,087.86	3,050.29	5,021.57	4,789.49	232.07	21.638	
11,300.00	7,618.00	7,603.00	7,597.00	122.23	131.73	90.00	-4,087.86	3,050.29	4,934.42	4,702.36	232.06	21.264	
11,400.00	7,618.00	7,603.00	7,597.00	122.07	131.73	90.00	-4,087.86	3,050.29	4,847.76	4,615.72	232.04	20.892	
11,500.00	7,618.00	7,603.00	7,597.00	121.93	131.73	90.00	-4,087.86	3,050.29	4,761.63	4,529.61	232.02	20.522	
11,600.00	7,618.00	7,603.00	7,597.00	121.79	131.73	90.00	-4,087.86	3,050.29	4,676.05	4,444.05	232.00	20.156	
11,700.00	7,618.00	7,603.00	7,597.00	121.67	131.73	90.00	-4,087.86	3,050.29	4,591.05	4,359.08	231.97	19.791	
11,800.00	7,618.00	7,603.00	7,597.00	121.56	131.73	90.00	-4,087.86	3,050.29	4,506.67	4,274.73	231.94	19.430	
11,900.00	7,618.00	7,603.00	7,597.00	121.46	131.73	90.00	-4,087.86	3,050.29	4,422.94	4,191.03	231.91	19.072	
12,000.00	7,618.00	7,603.00	7,597.00	121.38	131.73	90.00	-4,087.86	3,050.29	4,339.90	4,108.02	231.88	18.716	
12,100.00	7,618.00	7,603.00	7,597.00	121.30	131.73	90.00	-4,087.86	3,050.29	4,257.59	4,025.75	231.84	18.365	
12,200.00	7,618.00	7,603.00	7,597.00	121.24	131.73	90.00	-4,087.86	3,050.29	4,176.05	3,944.26	231.79	18.016	
12,300.00	7,618.00	7,603.00	7,597.00	121.19	131.73	90.00	-4,087.86	3,050.29	4,095.33	3,863.59	231.74	17.672	
12,400.00	7,618.00	7,603.00	7,597.00	121.16	131.73	90.00	-4,087.86	3,050.29	4,015.48	3,783.79	231.69	17.331	
12,500.00	7,618.00	7,603.00	7,597.00	121.14	131.73	90.00	-4,087.86	3,050.29	3,936.54	3,704.91	231.63	16.995	
12,600.00	7,618.00	7,603.00	7,597.00	121.13	131.73	90.00	-4,087.86	3,050.29	3,858.59	3,627.02	231.56	16.663	
12,700.00	7,618.00	7,603.00	7,597.00	121.13	131.73	90.00	-4,087.86	3,050.29	3,781.67	3,550.18	231.49	16.336	
12,800.00	7,618.00	7,603.00	7,597.00	121.15	131.73	90.00	-4,087.86	3,050.29	3,705.86	3,474.44	231.41	16.014	
12,900.00	7,618.00	7,603.00	7,597.00	121.18	131.73	90.00	-4,087.86	3,050.29	3,631.21	3,399.89	231.32	15.698	
13,000.00	7,618.00	7,603.00	7,597.00	121.23	131.73	90.00	-4,087.86	3,050.29	3,557.81	3,326.59	231.22	15.387	
13,100.00	7,618.00	7,603.00	7,597.00	121.29	131.73	90.00	-4,087.86	3,050.29	3,485.73	3,254.62	231.12	15.082	
13,200.00	7,618.00	7,603.00	7,597.00	121.37	131.73	90.00	-4,087.86	3,050.29	3,415.07	3,184.06	231.00	14.784	
13,300.00	7,618.00	7,603.00	7,597.00	121.46	131.73	90.00	-4,087.86	3,050.29	3,345.89	3,115.02	230.87	14.492	
13,400.00	7,618.00	7,603.00	7,597.00	121.57	131.73	90.00	-4,087.86	3,050.29	3,278.31	3,047.58	230.73	14.208	
13,500.00	7,618.00	7,603.00	7,597.00	121.70	131.73	90.00	-4,087.86	3,050.29	3,212.42	2,981.84	230.58	13.932	
13,600.00	7,618.00	7,603.00	7,597.00	121.84	131.73	90.00	-4,087.86	3,050.29	3,148.33	2,917.91	230.42	13.664	
13,700.00	7,618.00	7,603.00	7,597.00	122.01	131.73	90.00	-4,087.86	3,050.29	3,086.15	2,855.91	230.24	13.404	
13,800.00	7,618.00	7,603.00	7,597.00	122.19	131.73	90.00	-4,087.86	3,050.29	3,025.99	2,795.95	230.05	13.154	
13,900.00	7,618.00	7,603.00	7,597.00	122.39	131.73	90.00	-4,087.86	3,050.29	2,967.99	2,738.15	229.84	12.913	
14,000.00	7,618.00	7,603.00	7,597.00	122.62	131.73	90.00	-4,087.86	3,050.29	2,912.27	2,682.65	229.61	12.683	
14,100.00	7,618.00	7,603.00	7,597.00	122.86	131.73	90.00	-4,087.86	3,050.29	2,858.95	2,629.58	229.38	12.464	
14,200.00	7,618.00	7,603.00	7,597.00	123.12	131.73	90.00	-4,087.86	3,050.29	2,808.19	2,579.07	229.12	12.256	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	7,603.00	7,597.00	123.41	131.73	90.00	-4,087.86	3,050.29	2,760.12	2,531.27	228.85	12.061	
14,400.00	7,618.00	7,603.00	7,597.00	123.72	131.73	90.00	-4,087.86	3,050.29	2,714.88	2,486.32	228.57	11.878	
14,500.00	7,618.00	7,603.00	7,597.00	124.06	131.73	90.00	-4,087.86	3,050.29	2,672.62	2,444.35	228.27	11.708	
14,600.00	7,618.00	7,603.00	7,597.00	124.42	131.73	90.00	-4,087.86	3,050.29	2,633.49	2,405.53	227.96	11.552	
14,700.00	7,618.00	7,603.00	7,597.00	124.80	131.73	90.00	-4,087.86	3,050.29	2,597.61	2,369.97	227.64	11.411	
14,800.00	7,618.00	7,603.00	7,597.00	125.21	131.73	90.00	-4,087.86	3,050.29	2,565.13	2,337.83	227.31	11.285	
14,900.00	7,618.00	7,603.00	7,597.00	125.65	131.73	90.00	-4,087.86	3,050.29	2,536.18	2,309.22	226.97	11.174	
15,000.00	7,618.00	7,603.00	7,597.00	126.11	131.73	90.00	-4,087.86	3,050.29	2,510.89	2,284.26	226.63	11.079	
15,100.00	7,618.00	7,603.00	7,597.00	126.61	131.73	90.00	-4,087.86	3,050.29	2,489.35	2,263.07	226.29	11.001	
15,200.00	7,618.00	7,603.00	7,597.00	127.13	131.73	90.00	-4,087.86	3,050.29	2,471.68	2,245.74	225.95	10.939	
15,300.00	7,618.00	7,603.00	7,597.00	127.68	131.73	90.00	-4,087.86	3,050.29	2,457.95	2,232.34	225.61	10.894	
15,400.00	7,618.00	7,603.00	7,597.00	128.26	131.73	90.00	-4,087.86	3,050.29	2,448.24	2,222.95	225.29	10.867	
15,500.00	7,618.00	7,603.00	7,597.00	128.87	131.73	90.00	-4,087.86	3,050.29	2,442.58	2,217.60	224.98	10.857	SF
15,588.36	7,618.00	7,603.00	7,597.00	129.43	131.73	90.00	-4,087.86	3,050.29	2,440.98	2,216.25	224.73	10.862	CC, ES
15,600.00	7,618.00	7,603.00	7,597.00	129.51	131.73	90.00	-4,087.86	3,050.29	2,441.01	2,216.31	224.69	10.864	
15,700.00	7,618.00	7,603.00	7,597.00	130.18	131.73	90.00	-4,087.86	3,050.29	2,443.53	2,219.11	224.42	10.888	
15,800.00	7,618.00	7,603.00	7,597.00	130.88	131.73	90.00	-4,087.86	3,050.29	2,450.14	2,225.96	224.18	10.929	
15,900.00	7,618.00	7,603.00	7,597.00	131.61	131.73	90.00	-4,087.86	3,050.29	2,460.79	2,236.83	223.96	10.988	
16,000.00	7,618.00	7,603.00	7,597.00	132.37	131.73	90.00	-4,087.86	3,050.29	2,475.45	2,251.68	223.77	11.063	
16,100.00	7,618.00	7,603.00	7,597.00	133.17	131.73	90.00	-4,087.86	3,050.29	2,494.02	2,270.42	223.61	11.154	
16,200.00	7,618.00	7,603.00	7,597.00	133.99	131.73	90.00	-4,087.86	3,050.29	2,516.44	2,292.97	223.47	11.261	
16,300.00	7,618.00	7,603.00	7,597.00	134.84	131.73	90.00	-4,087.86	3,050.29	2,542.60	2,319.23	223.37	11.383	
16,400.00	7,618.00	7,603.00	7,597.00	135.72	131.73	90.00	-4,087.86	3,050.29	2,572.38	2,349.08	223.30	11.520	
16,500.00	7,618.00	7,603.00	7,597.00	136.63	131.73	90.00	-4,087.86	3,050.29	2,605.66	2,382.41	223.25	11.671	
16,600.00	7,618.00	7,603.00	7,597.00	137.57	131.73	90.00	-4,087.86	3,050.29	2,642.31	2,419.08	223.23	11.837	
16,700.00	7,618.00	7,603.00	7,597.00	138.54	131.73	90.00	-4,087.86	3,050.29	2,682.19	2,458.95	223.24	12.015	
16,800.00	7,618.00	7,603.00	7,597.00	139.53	131.73	90.00	-4,087.86	3,050.29	2,725.15	2,501.89	223.26	12.206	
16,900.00	7,618.00	7,603.00	7,597.00	140.55	131.73	90.00	-4,087.86	3,050.29	2,771.06	2,547.75	223.31	12.409	
17,000.00	7,618.00	7,603.00	7,597.00	141.60	131.73	90.00	-4,087.86	3,050.29	2,819.77	2,596.39	223.38	12.623	
17,100.00	7,618.00	7,603.00	7,597.00	142.67	131.73	90.00	-4,087.86	3,050.29	2,871.14	2,647.68	223.46	12.848	
17,200.00	7,618.00	7,603.00	7,597.00	143.77	131.73	90.00	-4,087.86	3,050.29	2,925.02	2,701.46	223.56	13.084	
17,300.00	7,618.00	7,603.00	7,597.00	144.88	131.73	90.00	-4,087.86	3,050.29	2,981.29	2,757.62	223.67	13.329	
17,400.00	7,618.00	7,603.00	7,597.00	146.02	131.73	90.00	-4,087.86	3,050.29	3,039.80	2,816.02	223.78	13.584	
17,500.00	7,618.00	7,603.00	7,597.00	147.19	131.73	90.00	-4,087.86	3,050.29	3,100.44	2,876.53	223.91	13.847	
17,600.00	7,618.00	7,603.00	7,597.00	148.37	131.73	90.00	-4,087.86	3,050.29	3,163.08	2,939.03	224.04	14.118	
17,700.00	7,618.00	7,603.00	7,597.00	149.57	131.73	90.00	-4,087.86	3,050.29	3,227.60	3,003.42	224.18	14.397	
17,800.00	7,618.00	7,603.00	7,597.00	150.79	131.73	90.00	-4,087.86	3,050.29	3,293.89	3,069.57	224.33	14.684	
17,900.00	7,618.00	7,603.00	7,597.00	152.03	131.73	90.00	-4,087.86	3,050.29	3,361.85	3,137.38	224.47	14.977	
18,000.00	7,618.00	7,603.00	7,597.00	153.29	131.73	90.00	-4,087.86	3,050.29	3,431.38	3,206.76	224.62	15.277	
18,100.00	7,618.00	7,603.00	7,597.00	154.57	131.73	90.00	-4,087.86	3,050.29	3,502.38	3,277.62	224.77	15.582	
18,200.00	7,618.00	7,603.00	7,597.00	155.86	131.73	90.00	-4,087.86	3,050.29	3,574.78	3,349.86	224.91	15.894	
18,300.00	7,618.00	7,603.00	7,597.00	157.17	131.73	90.00	-4,087.86	3,050.29	3,648.47	3,423.41	225.06	16.211	
18,400.00	7,618.00	7,603.00	7,597.00	158.49	131.73	90.00	-4,087.86	3,050.29	3,723.40	3,498.19	225.21	16.533	
18,500.00	7,618.00	7,603.00	7,597.00	159.82	131.73	90.00	-4,087.86	3,050.29	3,799.47	3,574.12	225.36	16.860	
18,600.00	7,618.00	7,603.00	7,597.00	161.17	131.73	90.00	-4,087.86	3,050.29	3,876.64	3,651.14	225.50	17.191	
18,700.00	7,618.00	7,603.00	7,597.00	162.54	131.73	90.00	-4,087.86	3,050.29	3,954.83	3,729.18	225.64	17.527	
18,800.00	7,618.00	7,603.00	7,597.00	163.91	131.73	90.00	-4,087.86	3,050.29	4,033.98	3,808.20	225.78	17.867	
18,900.00	7,618.00	7,603.00	7,597.00	165.30	131.73	90.00	-4,087.86	3,050.29	4,114.04	3,888.12	225.92	18.210	
19,000.00	7,618.00	7,603.00	7,597.00	166.70	131.73	90.00	-4,087.86	3,050.29	4,194.95	3,968.90	226.06	18.557	
19,100.00	7,618.00	7,603.00	7,597.00	168.10	131.73	90.00	-4,087.86	3,050.29	4,276.68	4,050.49	226.19	18.907	
19,200.00	7,618.00	7,603.00	7,597.00	169.52	131.73	90.00	-4,087.86	3,050.29	4,359.16	4,132.84	226.32	19.261	
19,300.00	7,618.00	7,603.00	7,597.00	170.95	131.73	90.00	-4,087.86	3,050.29	4,442.37	4,215.92	226.45	19.618	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	7,603.00	7,597.00	172.39	131.73	90.00	-4,087.86	3,050.29	4,526.25	4,299.68	226.57	19.977	
19,500.00	7,618.00	7,603.00	7,597.00	173.84	131.73	90.00	-4,087.86	3,050.29	4,610.78	4,384.08	226.70	20.339	
19,600.00	7,618.00	7,603.00	7,597.00	175.30	131.73	90.00	-4,087.86	3,050.29	4,695.91	4,469.10	226.82	20.704	
19,700.00	7,618.00	7,603.00	7,597.00	176.76	131.73	90.00	-4,087.86	3,050.29	4,781.62	4,554.69	226.93	21.070	
19,800.00	7,618.00	7,603.00	7,597.00	178.24	131.73	90.00	-4,087.86	3,050.29	4,867.88	4,640.83	227.05	21.440	
19,896.19	7,618.00	7,603.00	7,597.00	179.66	131.73	90.00	-4,087.86	3,050.29	4,951.34	4,724.18	227.16	21.797	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	145.93	-7,866.23	5,319.49	9,496.06				
100.00	100.00	76.00	76.00	0.13	0.58	145.93	-7,866.23	5,319.49	9,496.03	9,495.32	0.72	N/A	
200.00	200.00	176.00	176.00	0.49	2.09	145.93	-7,866.23	5,319.49	9,496.03	9,493.45	2.59	3,670.256	
300.00	299.98	275.98	275.98	0.85	3.84	76.63	-7,866.23	5,319.49	9,495.63	9,490.94	4.69	2,026.077	
400.00	399.84	375.84	375.84	1.21	5.58	76.69	-7,866.23	5,319.49	9,494.42	9,487.63	6.79	1,398.736	
500.00	499.45	475.45	475.45	1.58	7.32	76.78	-7,866.23	5,319.49	9,492.41	9,483.52	8.90	1,066.900	
600.00	598.70	574.70	574.70	1.97	9.05	76.90	-7,866.23	5,319.49	9,489.62	9,478.60	11.02	861.315	
700.00	697.47	673.47	673.47	2.38	10.78	77.06	-7,866.23	5,319.49	9,486.05	9,472.90	13.15	721.221	
800.00	795.62	771.62	771.62	2.83	12.49	77.26	-7,866.23	5,319.49	9,481.74	9,466.43	15.31	619.460	
900.00	893.06	869.06	869.06	3.31	14.19	77.49	-7,866.23	5,319.49	9,476.70	9,459.21	17.48	542.077	
1,000.00	989.64	965.64	965.64	3.83	15.88	77.75	-7,866.23	5,319.49	9,470.96	9,451.28	19.68	481.169	
1,100.00	1,085.27	1,061.27	1,061.27	4.40	17.55	78.04	-7,866.23	5,319.49	9,464.56	9,442.65	21.91	431.925	
1,200.00	1,179.82	1,155.82	1,155.82	5.02	19.20	78.36	-7,866.23	5,319.49	9,457.53	9,433.36	24.17	391.252	
1,300.00	1,273.17	1,249.17	1,249.17	5.70	20.82	78.71	-7,866.23	5,319.49	9,449.92	9,423.46	26.47	357.067	
1,400.00	1,365.21	1,341.21	1,341.21	6.43	22.43	79.08	-7,866.23	5,319.49	9,441.78	9,412.98	28.79	327.920	
1,500.00	1,455.84	1,431.84	1,431.84	7.23	24.01	79.48	-7,866.23	5,319.49	9,433.14	9,401.98	31.16	302.764	
1,600.00	1,544.94	1,520.94	1,520.94	8.09	25.57	79.90	-7,866.23	5,319.49	9,424.06	9,390.50	33.56	280.831	
1,700.00	1,632.39	1,608.39	1,608.39	9.01	27.09	80.35	-7,866.23	5,319.49	9,414.59	9,378.60	36.00	261.539	
1,800.00	1,718.11	1,705.89	1,694.11	10.00	28.80	80.81	-7,866.23	5,319.49	9,404.80	9,366.12	38.68	243.142	
1,900.00	1,801.97	1,777.97	1,777.97	11.07	30.05	81.28	-7,866.23	5,319.49	9,394.75	9,353.76	40.99	229.191	
2,000.00	1,883.88	1,859.88	1,859.88	12.20	31.48	81.77	-7,866.23	5,319.49	9,384.49	9,340.94	43.55	215.508	
2,100.00	1,963.74	1,939.74	1,939.74	13.41	32.88	82.27	-7,866.23	5,319.49	9,374.09	9,327.95	46.14	203.171	
2,200.00	2,041.45	2,017.45	2,017.45	14.69	34.23	82.78	-7,866.23	5,319.49	9,363.61	9,314.84	48.77	191.998	
2,300.00	2,116.92	2,107.08	2,092.92	16.05	35.80	83.29	-7,866.23	5,319.49	9,353.13	9,301.45	51.68	180.970	
2,357.48	2,159.25	2,135.25	2,135.25	16.86	36.29	83.59	-7,866.23	5,319.49	9,347.13	9,294.15	52.98	176.416	
2,400.00	2,190.27	2,166.27	2,166.27	17.47	36.83	83.72	-7,866.23	5,319.49	9,342.75	9,288.61	54.13	172.587	
2,500.00	2,263.22	2,239.22	2,239.22	18.92	38.10	84.02	-7,866.23	5,319.49	9,332.78	9,275.93	56.85	164.160	
2,600.00	2,336.18	2,312.18	2,312.18	20.37	39.38	84.33	-7,866.23	5,319.49	9,323.31	9,263.73	59.58	156.476	
2,700.00	2,409.14	2,385.14	2,385.14	21.84	40.65	84.63	-7,866.23	5,319.49	9,314.33	9,252.01	62.32	149.449	
2,800.00	2,482.09	2,458.09	2,458.09	23.31	41.92	84.94	-7,866.23	5,319.49	9,305.85	9,240.78	65.07	143.002	
2,900.00	2,555.05	2,531.05	2,531.05	24.78	43.20	85.25	-7,866.23	5,319.49	9,297.86	9,230.03	67.83	137.071	
3,000.00	2,628.01	2,604.01	2,604.01	26.27	44.47	85.56	-7,866.23	5,319.49	9,290.37	9,219.77	70.60	131.600	
3,100.00	2,700.96	2,676.96	2,676.96	27.75	45.74	85.86	-7,866.23	5,319.49	9,283.37	9,210.01	73.36	126.538	
3,200.00	2,773.92	2,749.92	2,749.92	29.24	47.02	86.17	-7,866.23	5,319.49	9,276.88	9,200.74	76.14	121.844	
3,300.00	2,846.88	2,822.88	2,822.88	30.73	48.29	86.48	-7,866.23	5,319.49	9,270.88	9,191.97	78.91	117.482	
3,400.00	2,919.83	2,904.17	2,895.83	32.23	49.71	86.79	-7,866.23	5,319.49	9,265.39	9,183.55	81.84	113.216	
3,500.00	2,992.79	2,968.79	2,968.79	33.72	50.84	87.10	-7,866.23	5,319.49	9,260.39	9,175.92	84.47	109.624	
3,600.00	3,065.75	3,041.75	3,041.75	35.22	52.11	87.41	-7,866.23	5,319.49	9,255.90	9,168.64	87.26	106.076	
3,700.00	3,138.71	3,114.71	3,114.71	36.72	53.38	87.71	-7,866.23	5,319.49	9,251.91	9,161.87	90.04	102.751	
3,800.00	3,211.66	3,187.66	3,187.66	38.22	54.66	88.02	-7,866.23	5,319.49	9,248.43	9,155.60	92.83	99.630	
3,900.00	3,284.62	3,260.62	3,260.62	39.72	55.93	88.33	-7,866.23	5,319.49	9,245.45	9,149.84	95.61	96.695	
4,000.00	3,357.58	3,333.58	3,333.58	41.22	57.20	88.64	-7,866.23	5,319.49	9,242.98	9,144.58	98.40	93.932	
4,100.00	3,430.53	3,406.53	3,406.53	42.73	58.48	88.95	-7,866.23	5,319.49	9,241.01	9,139.82	101.19	91.326	
4,200.00	3,503.49	3,479.49	3,479.49	44.23	59.75	89.26	-7,866.23	5,319.49	9,239.55	9,135.58	103.97	88.865	
4,300.00	3,576.45	3,552.45	3,552.45	45.74	61.02	89.57	-7,866.23	5,319.49	9,238.59	9,131.83	106.76	86.537	
4,400.00	3,649.40	3,625.40	3,625.40	47.25	62.30	89.88	-7,866.23	5,319.49	9,238.14	9,128.60	109.54	84.334	
4,438.86	3,677.76	3,653.76	3,653.76	47.83	62.79	90.00	-7,866.23	5,319.49	9,238.11	9,127.48	110.62	83.509	
4,500.00	3,722.36	3,701.64	3,698.36	48.75	63.63	90.19	-7,866.23	5,319.49	9,238.20	9,125.82	112.38	82.203	
4,600.00	3,795.32	3,771.32	3,771.32	50.26	64.84	90.50	-7,866.23	5,319.49	9,238.76	9,123.66	115.11	80.263	
4,700.00	3,868.27	3,844.27	3,844.27	51.77	66.12	90.81	-7,866.23	5,319.49	9,239.83	9,121.95	117.88	78.380	
4,800.00	3,941.23	3,917.23	3,917.23	53.28	67.39	91.12	-7,866.23	5,319.49	9,241.41	9,120.74	120.66	76.589	
4,900.00	4,014.19	4,009.81	3,990.19	54.79	69.01	91.43	-7,866.23	5,319.49	9,243.49	9,119.71	123.78	74.678	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,087.15	4,063.15	4,063.15	56.30	69.94	91.74	-7,866.23	5,319.49	9,246.07	9,119.87	126.21	73.261	
5,100.00	4,160.10	4,136.10	4,136.10	57.81	71.21	92.05	-7,866.23	5,319.49	9,249.16	9,120.19	128.98	71.713	
5,200.00	4,233.06	4,209.06	4,209.06	59.32	72.48	92.35	-7,866.23	5,319.49	9,252.76	9,121.02	131.74	70.235	
5,300.00	4,306.02	4,282.02	4,282.02	60.83	73.76	92.66	-7,866.23	5,319.49	9,256.86	9,122.36	134.50	68.823	
5,400.00	4,378.97	4,354.97	4,354.97	62.34	75.03	92.97	-7,866.23	5,319.49	9,261.46	9,124.20	137.26	67.474	
5,500.00	4,451.93	4,427.93	4,427.93	63.85	76.30	93.28	-7,866.23	5,319.49	9,266.57	9,126.55	140.01	66.183	
5,600.00	4,524.89	4,500.89	4,500.89	65.36	77.58	93.59	-7,866.23	5,319.49	9,272.17	9,129.41	142.76	64.948	
5,700.00	4,597.84	4,573.84	4,573.84	66.88	78.85	93.90	-7,866.23	5,319.49	9,278.28	9,132.77	145.51	63.764	
5,800.00	4,670.80	4,646.80	4,646.80	68.39	80.12	94.20	-7,866.23	5,319.49	9,284.89	9,136.64	148.25	62.630	
5,900.00	4,743.76	4,719.76	4,719.76	69.90	81.40	94.51	-7,866.23	5,319.49	9,291.99	9,141.01	150.99	61.542	
6,000.00	4,816.71	4,807.29	4,792.71	71.41	82.93	94.82	-7,866.23	5,319.49	9,299.60	9,145.63	153.97	60.399	
6,100.00	4,889.67	4,865.67	4,865.67	72.93	83.94	95.13	-7,866.23	5,319.49	9,307.70	9,151.26	156.44	59.496	
6,200.00	4,962.63	4,938.63	4,938.63	74.44	85.22	95.43	-7,866.23	5,319.49	9,316.29	9,157.13	159.16	58.534	
6,300.00	5,035.59	5,011.59	5,011.59	75.95	86.49	95.74	-7,866.23	5,319.49	9,325.38	9,163.51	161.88	57.608	
6,400.00	5,108.54	5,084.54	5,084.54	77.47	87.76	96.05	-7,866.23	5,319.49	9,334.96	9,170.38	164.58	56.719	
6,500.00	5,181.50	5,157.50	5,157.50	78.98	89.04	96.35	-7,866.23	5,319.49	9,345.03	9,177.75	167.29	55.863	
6,600.00	5,254.46	5,230.46	5,230.46	80.49	90.31	96.66	-7,866.23	5,319.49	9,355.59	9,185.61	169.98	55.039	
6,700.00	5,327.41	5,303.41	5,303.41	82.01	91.58	96.96	-7,866.23	5,319.49	9,366.64	9,193.97	172.67	54.245	
6,800.00	5,400.37	5,376.37	5,376.37	83.52	92.86	97.27	-7,866.23	5,319.49	9,378.17	9,202.82	175.36	53.481	
6,900.00	5,473.33	5,449.33	5,449.33	85.04	94.13	97.57	-7,866.23	5,319.49	9,390.19	9,212.16	178.03	52.744	
7,000.00	5,546.28	5,522.28	5,522.28	86.55	95.40	97.88	-7,866.23	5,319.49	9,402.69	9,221.99	180.70	52.034	
7,100.00	5,619.24	5,604.76	5,595.24	88.06	96.84	98.18	-7,866.23	5,319.49	9,415.67	9,232.14	183.53	51.303	
7,200.00	5,692.20	5,668.20	5,668.20	89.58	97.95	98.48	-7,866.23	5,319.49	9,429.13	9,243.11	186.02	50.689	
7,300.00	5,765.15	5,741.15	5,741.15	91.09	99.22	98.78	-7,866.23	5,319.49	9,443.06	9,254.40	188.67	50.051	
7,400.00	5,838.11	5,814.11	5,814.11	92.61	100.50	99.09	-7,866.23	5,319.49	9,457.47	9,266.17	191.31	49.436	
7,500.00	5,911.07	5,887.07	5,887.07	94.12	101.77	99.39	-7,866.23	5,319.49	9,472.35	9,278.41	193.94	48.841	
7,600.00	5,984.03	5,960.03	5,960.03	95.64	103.04	99.69	-7,866.23	5,319.49	9,487.70	9,291.14	196.57	48.267	
7,700.00	6,056.98	6,032.98	6,032.98	97.15	104.32	99.99	-7,866.23	5,319.49	9,503.52	9,304.34	199.18	47.712	
7,800.00	6,129.94	6,105.94	6,105.94	98.67	105.59	100.29	-7,866.23	5,319.49	9,519.80	9,318.01	201.79	47.176	
7,900.00	6,202.90	6,178.90	6,178.90	100.18	106.86	100.59	-7,866.23	5,319.49	9,536.55	9,332.15	204.39	46.657	
8,000.00	6,275.85	6,251.85	6,251.85	101.70	108.14	100.89	-7,866.23	5,319.49	9,553.75	9,346.76	206.99	46.156	
8,100.00	6,348.81	6,324.81	6,324.81	103.21	109.41	101.19	-7,866.23	5,319.49	9,571.42	9,361.84	209.57	45.671	
8,200.00	6,421.77	6,402.23	6,397.77	104.73	110.76	101.48	-7,866.23	5,319.49	9,589.53	9,377.31	212.23	45.185	
8,300.00	6,494.72	6,470.72	6,470.72	106.24	111.96	101.78	-7,866.23	5,319.49	9,608.10	9,393.39	214.72	44.748	
8,400.00	6,567.68	6,543.68	6,543.68	107.76	113.23	102.08	-7,866.23	5,319.49	9,627.13	9,409.85	217.28	44.308	
8,500.00	6,640.64	6,616.64	6,616.64	109.27	114.50	102.37	-7,866.23	5,319.49	9,646.59	9,426.77	219.83	43.882	
8,600.00	6,713.59	6,689.59	6,689.59	110.79	115.78	102.67	-7,866.23	5,319.49	9,666.51	9,444.14	222.37	43.470	
8,700.00	6,786.55	6,762.55	6,762.55	112.30	117.05	102.96	-7,866.23	5,319.49	9,686.86	9,461.96	224.90	43.071	
8,800.00	6,859.51	6,835.51	6,835.51	113.82	118.32	103.25	-7,866.23	5,319.49	9,707.66	9,480.23	227.43	42.684	
8,900.00	6,932.46	6,908.46	6,908.46	115.33	119.60	103.55	-7,866.23	5,319.49	9,728.89	9,498.94	229.94	42.310	
9,000.00	7,005.42	6,981.42	6,981.42	116.85	120.87	103.84	-7,866.23	5,319.49	9,750.55	9,518.10	232.45	41.947	
9,104.89	7,081.95	7,057.95	7,057.95	118.44	122.21	104.14	-7,866.23	5,319.49	9,773.74	9,538.66	235.07	41.578	
9,150.00	7,115.15	7,108.85	7,091.15	119.12	123.10	99.52	-7,866.23	5,319.49	9,782.11	9,545.60	236.51	41.359	
9,200.00	7,152.46	7,128.46	7,128.46	119.86	123.44	94.13	-7,866.23	5,319.49	9,787.40	9,549.92	237.48	41.213	
9,250.00	7,190.04	7,166.04	7,166.04	120.57	124.09	88.59	-7,866.23	5,319.49	9,788.45	9,549.68	238.76	40.996	
9,300.00	7,227.59	7,203.59	7,203.59	121.25	124.75	83.05	-7,866.23	5,319.49	9,785.24	9,545.20	240.04	40.765	
9,350.00	7,264.83	7,240.83	7,240.83	121.89	125.40	77.67	-7,866.23	5,319.49	9,777.81	9,536.52	241.29	40.522	
9,400.00	7,301.48	7,277.48	7,277.48	122.48	126.04	72.59	-7,866.23	5,319.49	9,766.21	9,523.69	242.52	40.270	
9,450.00	7,337.26	7,313.26	7,313.26	123.01	126.66	67.88	-7,866.23	5,319.49	9,750.52	9,506.81	243.70	40.010	
9,500.00	7,371.90	7,347.90	7,347.90	123.49	127.27	63.63	-7,866.23	5,319.49	9,730.84	9,486.01	244.83	39.745	
9,550.00	7,405.13	7,381.13	7,381.13	123.91	127.85	59.84	-7,866.23	5,319.49	9,707.32	9,461.42	245.90	39.477	
9,600.00	7,436.70	7,412.70	7,412.70	124.27	128.40	56.52	-7,866.23	5,319.49	9,680.13	9,433.23	246.90	39.207	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	7,442.36	7,442.36	124.57	128.92	53.65	-7,866.23	5,319.49	9,649.46	9,401.64	247.82	38.938	
9,700.00	7,493.91	7,469.91	7,469.91	124.81	129.40	51.21	-7,866.23	5,319.49	9,615.52	9,366.87	248.66	38.670	
9,750.00	7,519.11	7,504.89	7,495.11	125.00	130.01	49.17	-7,866.23	5,319.49	9,578.58	9,329.00	249.58	38.379	
9,800.00	7,541.79	7,517.79	7,517.79	125.12	130.23	47.50	-7,866.23	5,319.49	9,538.88	9,288.81	250.07	38.145	
9,850.00	7,561.77	7,537.77	7,537.77	125.20	130.58	46.20	-7,866.23	5,319.49	9,496.72	9,246.08	250.64	37.889	
9,900.00	7,578.90	7,554.90	7,554.90	125.23	130.88	45.27	-7,866.23	5,319.49	9,452.41	9,201.29	251.13	37.640	
9,950.00	7,593.04	7,569.04	7,569.04	125.22	131.13	44.74	-7,866.23	5,319.49	9,406.28	9,154.76	251.51	37.399	
10,000.00	7,604.09	7,580.09	7,580.09	125.17	131.32	44.73	-7,866.23	5,319.49	9,358.65	9,106.84	251.81	37.165	
10,050.00	7,611.97	7,587.97	7,587.97	125.08	131.46	45.62	-7,866.23	5,319.49	9,309.90	9,057.88	252.02	36.941	
10,100.00	7,616.61	7,607.39	7,592.61	124.97	131.80	49.30	-7,866.23	5,319.49	9,260.37	9,007.97	252.40	36.689	
10,145.95	7,618.00	7,606.00	7,594.00	124.84	131.77	90.00	-7,866.23	5,319.49	9,214.50	8,962.10	252.39	36.509	
10,200.00	7,618.00	7,606.00	7,594.00	124.69	131.77	90.00	-7,866.23	5,319.49	9,160.46	8,908.06	252.40	36.293	
10,300.00	7,618.00	7,606.00	7,594.00	124.41	131.77	90.00	-7,866.23	5,319.49	9,060.47	8,808.06	252.41	35.896	
10,400.00	7,618.00	7,606.00	7,594.00	124.14	131.77	90.00	-7,866.23	5,319.49	8,960.49	8,708.06	252.42	35.498	
10,500.00	7,618.00	7,606.00	7,594.00	123.88	131.77	90.00	-7,866.23	5,319.49	8,860.50	8,608.07	252.44	35.100	
10,600.00	7,618.00	7,606.00	7,594.00	123.63	131.77	90.00	-7,866.23	5,319.49	8,760.52	8,508.07	252.45	34.702	
10,700.00	7,618.00	7,606.00	7,594.00	123.40	131.77	90.00	-7,866.23	5,319.49	8,660.54	8,408.07	252.46	34.304	
10,800.00	7,618.00	7,606.00	7,594.00	123.18	131.77	90.00	-7,866.23	5,319.49	8,560.55	8,308.07	252.48	33.906	
10,900.00	7,618.00	7,606.00	7,594.00	122.96	131.77	90.00	-7,866.23	5,319.49	8,460.57	8,208.08	252.49	33.508	
11,000.00	7,618.00	7,606.00	7,594.00	122.76	131.77	90.00	-7,866.23	5,319.49	8,360.59	8,108.08	252.51	33.110	
11,100.00	7,618.00	7,606.00	7,594.00	122.57	131.77	90.00	-7,866.23	5,319.49	8,260.61	8,008.08	252.53	32.712	
11,200.00	7,618.00	7,606.00	7,594.00	122.39	131.77	90.00	-7,866.23	5,319.49	8,160.63	7,908.08	252.54	32.314	
11,300.00	7,618.00	7,606.00	7,594.00	122.23	131.77	90.00	-7,866.23	5,319.49	8,060.64	7,808.08	252.56	31.916	
11,400.00	7,618.00	7,606.00	7,594.00	122.07	131.77	90.00	-7,866.23	5,319.49	7,960.66	7,708.09	252.58	31.518	
11,500.00	7,618.00	7,606.00	7,594.00	121.93	131.77	90.00	-7,866.23	5,319.49	7,860.68	7,608.09	252.60	31.119	
11,600.00	7,618.00	7,606.00	7,594.00	121.79	131.77	90.00	-7,866.23	5,319.49	7,760.71	7,508.09	252.62	30.721	
11,700.00	7,618.00	7,606.00	7,594.00	121.67	131.77	90.00	-7,866.23	5,319.49	7,660.73	7,408.09	252.64	30.323	
11,800.00	7,618.00	7,606.00	7,594.00	121.56	131.77	90.00	-7,866.23	5,319.49	7,560.75	7,308.09	252.66	29.925	
11,900.00	7,618.00	7,606.00	7,594.00	121.46	131.77	90.00	-7,866.23	5,319.49	7,460.77	7,208.09	252.68	29.526	
12,000.00	7,618.00	7,606.00	7,594.00	121.38	131.77	90.00	-7,866.23	5,319.49	7,360.79	7,108.09	252.70	29.128	
12,100.00	7,618.00	7,606.00	7,594.00	121.30	131.77	90.00	-7,866.23	5,319.49	7,260.82	7,008.09	252.73	28.730	
12,200.00	7,618.00	7,606.00	7,594.00	121.24	131.77	90.00	-7,866.23	5,319.49	7,160.84	6,908.09	252.75	28.331	
12,300.00	7,618.00	7,606.00	7,594.00	121.19	131.77	90.00	-7,866.23	5,319.49	7,060.87	6,808.09	252.78	27.933	
12,400.00	7,618.00	7,606.00	7,594.00	121.16	131.77	90.00	-7,866.23	5,319.49	6,960.89	6,708.09	252.80	27.535	
12,500.00	7,618.00	7,606.00	7,594.00	121.14	131.77	90.00	-7,866.23	5,319.49	6,860.92	6,608.09	252.83	27.136	
12,600.00	7,618.00	7,606.00	7,594.00	121.13	131.77	90.00	-7,866.23	5,319.49	6,760.95	6,508.09	252.86	26.738	
12,700.00	7,618.00	7,606.00	7,594.00	121.13	131.77	90.00	-7,866.23	5,319.49	6,660.97	6,408.09	252.89	26.340	
12,800.00	7,618.00	7,606.00	7,594.00	121.15	131.77	90.00	-7,866.23	5,319.49	6,561.00	6,308.08	252.92	25.941	
12,900.00	7,618.00	7,606.00	7,594.00	121.18	131.77	90.00	-7,866.23	5,319.49	6,461.03	6,208.08	252.95	25.543	
13,000.00	7,618.00	7,606.00	7,594.00	121.23	131.77	90.00	-7,866.23	5,319.49	6,361.06	6,108.08	252.98	25.144	
13,100.00	7,618.00	7,606.00	7,594.00	121.29	131.77	90.00	-7,866.23	5,319.49	6,261.10	6,008.08	253.02	24.746	
13,200.00	7,618.00	7,606.00	7,594.00	121.37	131.77	90.00	-7,866.23	5,319.49	6,161.13	5,908.08	253.05	24.347	
13,300.00	7,618.00	7,606.00	7,594.00	121.46	131.77	90.00	-7,866.23	5,319.49	6,061.16	5,808.08	253.09	23.949	
13,400.00	7,618.00	7,606.00	7,594.00	121.57	131.77	90.00	-7,866.23	5,319.49	5,961.20	5,708.07	253.12	23.551	
13,500.00	7,618.00	7,606.00	7,594.00	121.70	131.77	90.00	-7,866.23	5,319.49	5,861.23	5,608.07	253.16	23.152	
13,600.00	7,618.00	7,606.00	7,594.00	121.84	131.77	90.00	-7,866.23	5,319.49	5,761.27	5,508.07	253.20	22.754	
13,700.00	7,618.00	7,606.00	7,594.00	122.01	131.77	90.00	-7,866.23	5,319.49	5,661.31	5,408.07	253.24	22.355	
13,800.00	7,618.00	7,606.00	7,594.00	122.19	131.77	90.00	-7,866.23	5,319.49	5,561.35	5,308.06	253.29	21.957	
13,900.00	7,618.00	7,606.00	7,594.00	122.39	131.77	90.00	-7,866.23	5,319.49	5,461.39	5,208.06	253.33	21.558	
14,000.00	7,618.00	7,606.00	7,594.00	122.62	131.77	90.00	-7,866.23	5,319.49	5,361.43	5,108.06	253.38	21.160	
14,100.00	7,618.00	7,606.00	7,594.00	122.86	131.77	90.00	-7,866.23	5,319.49	5,261.48	5,008.06	253.42	20.762	
14,200.00	7,618.00	7,606.00	7,594.00	123.12	131.77	90.00	-7,866.23	5,319.49	5,161.53	4,908.05	253.47	20.363	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	7,606.00	7,594.00	123.41	131.77	90.00	-7,866.23	5,319.49	5,061.57	4,808.05	253.53	19.965	
14,400.00	7,618.00	7,606.00	7,594.00	123.72	131.77	90.00	-7,866.23	5,319.49	4,961.63	4,708.05	253.58	19.566	
14,500.00	7,618.00	7,606.00	7,594.00	124.06	131.77	90.00	-7,866.23	5,319.49	4,861.68	4,608.04	253.64	19.168	
14,600.00	7,618.00	7,606.00	7,594.00	124.42	131.77	90.00	-7,866.23	5,319.49	4,761.73	4,508.04	253.69	18.770	
14,700.00	7,618.00	7,606.00	7,594.00	124.80	131.77	90.00	-7,866.23	5,319.49	4,661.79	4,408.04	253.75	18.371	
14,800.00	7,618.00	7,606.00	7,594.00	125.21	131.77	90.00	-7,866.23	5,319.49	4,561.85	4,308.03	253.82	17.973	
14,900.00	7,618.00	7,606.00	7,594.00	125.65	131.77	90.00	-7,866.23	5,319.49	4,461.91	4,208.03	253.88	17.575	
15,000.00	7,618.00	7,606.00	7,594.00	126.11	131.77	90.00	-7,866.23	5,319.49	4,361.98	4,108.02	253.95	17.176	
15,100.00	7,618.00	7,606.00	7,594.00	126.61	131.77	90.00	-7,866.23	5,319.49	4,262.04	4,008.02	254.02	16.778	
15,200.00	7,618.00	7,606.00	7,594.00	127.13	131.77	90.00	-7,866.23	5,319.49	4,162.12	3,908.02	254.10	16.380	
15,300.00	7,618.00	7,606.00	7,594.00	127.68	131.77	90.00	-7,866.23	5,319.49	4,062.19	3,808.01	254.18	15.982	
15,400.00	7,618.00	7,606.00	7,594.00	128.26	131.77	90.00	-7,866.23	5,319.49	3,962.27	3,708.01	254.26	15.583	
15,500.00	7,618.00	7,606.00	7,594.00	128.87	131.77	90.00	-7,866.23	5,319.49	3,862.35	3,608.00	254.35	15.185	
15,600.00	7,618.00	7,606.00	7,594.00	129.51	131.77	90.00	-7,866.23	5,319.49	3,762.44	3,508.00	254.44	14.787	
15,700.00	7,618.00	7,606.00	7,594.00	130.18	131.77	90.00	-7,866.23	5,319.49	3,662.53	3,408.00	254.53	14.389	
15,800.00	7,618.00	7,606.00	7,594.00	130.88	131.77	90.00	-7,866.23	5,319.49	3,562.63	3,307.99	254.63	13.991	
15,900.00	7,618.00	7,606.00	7,594.00	131.61	131.77	90.00	-7,866.23	5,319.49	3,462.73	3,207.99	254.74	13.593	
16,000.00	7,618.00	7,606.00	7,594.00	132.37	131.77	90.00	-7,866.23	5,319.49	3,362.84	3,107.99	254.85	13.195	
16,100.00	7,618.00	7,606.00	7,594.00	133.17	131.77	90.00	-7,866.23	5,319.49	3,262.95	3,007.98	254.97	12.797	
16,200.00	7,618.00	7,606.00	7,594.00	133.99	131.77	90.00	-7,866.23	5,319.49	3,163.08	2,907.98	255.10	12.399	
16,300.00	7,618.00	7,606.00	7,594.00	134.84	131.77	90.00	-7,866.23	5,319.49	3,063.21	2,807.98	255.23	12.002	
16,400.00	7,618.00	7,606.00	7,594.00	135.72	131.77	90.00	-7,866.23	5,319.49	2,963.35	2,707.97	255.37	11.604	
16,500.00	7,618.00	7,606.00	7,594.00	136.63	131.77	90.00	-7,866.23	5,319.49	2,863.50	2,607.97	255.53	11.206	
16,600.00	7,618.00	7,606.00	7,594.00	137.57	131.77	90.00	-7,866.23	5,319.49	2,763.66	2,507.97	255.69	10.809	
16,700.00	7,618.00	7,606.00	7,594.00	138.54	131.77	90.00	-7,866.23	5,319.49	2,663.83	2,407.97	255.86	10.411	
16,800.00	7,618.00	7,606.00	7,594.00	139.53	131.77	90.00	-7,866.23	5,319.49	2,564.01	2,307.96	256.05	10.014	
16,900.00	7,618.00	7,606.00	7,594.00	140.55	131.77	90.00	-7,866.23	5,319.49	2,464.21	2,207.96	256.25	9.616	
17,000.00	7,618.00	7,606.00	7,594.00	141.60	131.77	90.00	-7,866.23	5,319.49	2,364.43	2,107.96	256.47	9.219	
17,100.00	7,618.00	7,606.00	7,594.00	142.67	131.77	90.00	-7,866.23	5,319.49	2,264.67	2,007.96	256.70	8.822	
17,200.00	7,618.00	7,606.00	7,594.00	143.77	131.77	90.00	-7,866.23	5,319.49	2,164.93	1,907.97	256.96	8.425	
17,300.00	7,618.00	7,606.00	7,594.00	144.88	131.77	90.00	-7,866.23	5,319.49	2,065.21	1,807.97	257.24	8.028	
17,400.00	7,618.00	7,606.00	7,594.00	146.02	131.77	90.00	-7,866.23	5,319.49	1,965.52	1,707.97	257.55	7.632	
17,500.00	7,618.00	7,606.00	7,594.00	147.19	131.77	90.00	-7,866.23	5,319.49	1,865.87	1,607.98	257.89	7.235	
17,600.00	7,618.00	7,606.00	7,594.00	148.37	131.77	90.00	-7,866.23	5,319.49	1,766.25	1,507.99	258.26	6.839	
17,700.00	7,618.00	7,606.00	7,594.00	149.57	131.77	90.00	-7,866.23	5,319.49	1,666.68	1,408.00	258.69	6.443	
17,800.00	7,618.00	7,606.00	7,594.00	150.79	131.77	90.00	-7,866.23	5,319.49	1,567.17	1,308.01	259.16	6.047	
17,900.00	7,618.00	7,606.00	7,594.00	152.03	131.77	90.00	-7,866.23	5,319.49	1,467.72	1,208.03	259.69	5.652	
18,000.00	7,618.00	7,606.00	7,594.00	153.29	131.77	90.00	-7,866.23	5,319.49	1,368.35	1,108.05	260.30	5.257	
18,100.00	7,618.00	7,606.00	7,594.00	154.57	131.77	90.00	-7,866.23	5,319.49	1,269.08	1,008.08	261.01	4.862	
18,200.00	7,618.00	7,606.00	7,594.00	155.86	131.77	90.00	-7,866.23	5,319.49	1,169.94	908.11	261.83	4.468	
18,300.00	7,618.00	7,606.00	7,594.00	157.17	131.77	90.00	-7,866.23	5,319.49	1,070.95	808.16	262.79	4.075	
18,400.00	7,618.00	7,606.00	7,594.00	158.49	131.77	90.00	-7,866.23	5,319.49	972.18	708.22	263.95	3.683	
18,500.00	7,618.00	7,606.00	7,594.00	159.82	131.77	90.00	-7,866.23	5,319.49	873.68	608.31	265.36	3.292	
18,600.00	7,618.00	7,606.00	7,594.00	161.17	131.77	90.00	-7,866.23	5,319.49	775.56	508.45	267.11	2.903	
18,700.00	7,618.00	7,606.00	7,594.00	162.54	131.77	90.00	-7,866.23	5,319.49	678.00	408.65	269.34	2.517	
18,800.00	7,618.00	7,606.00	7,594.00	163.91	131.77	90.00	-7,866.23	5,319.49	581.26	309.00	272.26	2.135	
18,900.00	7,618.00	7,606.00	7,594.00	165.30	131.77	90.00	-7,866.23	5,319.49	485.85	209.66	276.19	1.759	
19,000.00	7,618.00	7,606.00	7,594.00	166.70	131.77	90.00	-7,866.23	5,319.49	392.73	111.06	281.67	1.394	Level 3
19,100.00	7,618.00	7,606.00	7,594.00	168.10	131.77	90.00	-7,866.23	5,319.49	304.01	14.67	289.34	1.051	Level 2
19,200.00	7,618.00	7,606.00	7,594.00	169.52	131.77	90.00	-7,866.23	5,319.49	224.96	-73.81	298.77	0.753	Level 1
19,300.00	7,618.00	7,606.00	7,594.00	170.95	131.77	90.00	-7,866.23	5,319.49	169.68	-130.40	300.07	0.565	Level 1, ES
19,359.07	7,618.00	7,606.00	7,594.00	171.80	131.77	90.00	-7,866.23	5,319.49	159.06	-126.56	285.62	0.557	Level 1, CC, 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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	7,606.00	7,594.00	172.39	131.77	90.00	-7,866.23	5,319.49	164.24	-104.71	268.95	0.611	Level 1
19,500.00	7,618.00	7,606.00	7,594.00	173.84	131.77	90.00	-7,866.23	5,319.49	212.51	-23.20	235.71	0.902	Level 1
19,600.00	7,618.00	7,606.00	7,594.00	175.30	131.77	90.00	-7,866.23	5,319.49	288.70	61.65	227.04	1.272	Level 3
19,700.00	7,618.00	7,606.00	7,594.00	176.76	131.77	90.00	-7,866.23	5,319.49	376.21	148.09	228.12	1.649	
19,800.00	7,618.00	7,606.00	7,594.00	178.24	131.77	90.00	-7,866.23	5,319.49	468.74	237.82	230.92	2.030	
19,896.19	7,618.00	7,606.00	7,594.00	179.66	131.77	90.00	-7,866.23	5,319.49	560.17	326.68	233.49	2.399	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	149.32	-5,431.33	3,222.70	6,315.50				
100.00	100.00	79.00	79.00	0.13	0.60	149.32	-5,431.33	3,222.70	6,315.47	6,314.73	0.73	8,601.714	
200.00	200.00	179.00	179.00	0.49	2.14	149.32	-5,431.33	3,222.70	6,315.47	6,312.83	2.63	2,400.471	
300.00	299.98	278.98	278.98	0.85	3.88	80.02	-5,431.33	3,222.70	6,315.16	6,310.43	4.73	1,335.031	
400.00	399.84	378.84	378.84	1.21	5.63	80.09	-5,431.33	3,222.70	6,314.26	6,307.43	6.83	924.280	
500.00	499.45	478.45	478.45	1.58	7.36	80.19	-5,431.33	3,222.70	6,312.76	6,303.82	8.94	706.029	
600.00	598.70	577.70	577.70	1.97	9.10	80.34	-5,431.33	3,222.70	6,310.68	6,299.62	11.06	570.462	
700.00	697.47	676.47	676.47	2.38	10.82	80.53	-5,431.33	3,222.70	6,308.05	6,294.86	13.20	477.922	
800.00	795.62	774.62	774.62	2.83	12.53	80.76	-5,431.33	3,222.70	6,304.90	6,289.54	15.35	410.618	
900.00	893.06	872.06	872.06	3.31	14.23	81.03	-5,431.33	3,222.70	6,301.25	6,283.71	17.53	359.389	
1,000.00	989.64	968.64	968.64	3.83	15.92	81.34	-5,431.33	3,222.70	6,297.14	6,277.41	19.74	319.036	
1,100.00	1,085.27	1,064.27	1,064.27	4.40	17.59	81.68	-5,431.33	3,222.70	6,292.64	6,270.66	21.97	286.393	
1,200.00	1,179.82	1,158.82	1,158.82	5.02	19.24	82.05	-5,431.33	3,222.70	6,287.77	6,263.53	24.24	259.421	
1,300.00	1,273.17	1,252.17	1,252.17	5.70	20.87	82.46	-5,431.33	3,222.70	6,282.60	6,256.07	26.54	236.746	
1,400.00	1,365.21	1,344.21	1,344.21	6.43	22.47	82.89	-5,431.33	3,222.70	6,277.20	6,248.33	28.87	217.409	
1,500.00	1,455.84	1,434.84	1,434.84	7.23	24.06	83.35	-5,431.33	3,222.70	6,271.63	6,240.38	31.25	200.722	
1,600.00	1,544.94	1,523.94	1,523.94	8.09	25.61	83.83	-5,431.33	3,222.70	6,265.95	6,232.29	33.66	186.176	
1,700.00	1,632.39	1,611.39	1,611.39	9.01	27.14	84.33	-5,431.33	3,222.70	6,260.24	6,224.14	36.11	173.386	
1,800.00	1,718.11	1,702.89	1,697.11	10.00	28.73	84.85	-5,431.33	3,222.70	6,254.59	6,215.89	38.70	161.635	
1,900.00	1,801.97	1,780.97	1,780.97	11.07	30.10	85.38	-5,431.33	3,222.70	6,249.07	6,207.94	41.12	151.960	
2,000.00	1,883.88	1,862.88	1,862.88	12.20	31.53	85.91	-5,431.33	3,222.70	6,243.76	6,200.07	43.69	142.910	
2,100.00	1,963.74	1,942.74	1,942.74	13.41	32.92	86.45	-5,431.33	3,222.70	6,238.75	6,192.46	46.30	134.760	
2,200.00	2,041.45	2,020.45	2,020.45	14.69	34.28	86.99	-5,431.33	3,222.70	6,234.13	6,185.19	48.94	127.389	
2,300.00	2,116.92	2,104.08	2,095.92	16.05	35.74	87.53	-5,431.33	3,222.70	6,229.99	6,178.23	51.76	120.369	
2,357.48	2,159.25	2,138.25	2,138.25	16.86	36.33	87.84	-5,431.33	3,222.70	6,227.86	6,174.69	53.17	117.135	
2,400.00	2,190.27	2,169.27	2,169.27	17.47	36.87	88.03	-5,431.33	3,222.70	6,226.42	6,172.10	54.32	114.621	
2,500.00	2,263.22	2,242.22	2,242.22	18.92	38.15	88.49	-5,431.33	3,222.70	6,223.58	6,166.53	57.05	109.094	
2,600.00	2,336.18	2,315.18	2,315.18	20.37	39.42	88.95	-5,431.33	3,222.70	6,221.49	6,161.71	59.78	104.067	
2,700.00	2,409.14	2,388.14	2,388.14	21.84	40.69	89.41	-5,431.33	3,222.70	6,220.15	6,157.63	62.53	99.481	
2,800.00	2,482.09	2,461.09	2,461.09	23.31	41.97	89.87	-5,431.33	3,222.70	6,219.57	6,154.29	65.27	95.283	
2,828.09	2,502.59	2,481.59	2,481.59	23.72	42.33	90.00	-5,431.33	3,222.70	6,219.54	6,153.49	66.05	94.167	
2,900.00	2,555.05	2,534.05	2,534.05	24.78	43.24	90.33	-5,431.33	3,222.70	6,219.73	6,151.70	68.03	91.431	
3,000.00	2,628.01	2,607.01	2,607.01	26.27	44.51	90.79	-5,431.33	3,222.70	6,220.65	6,149.87	70.78	87.887	
3,100.00	2,700.96	2,679.96	2,679.96	27.75	45.79	91.25	-5,431.33	3,222.70	6,222.31	6,148.78	73.54	84.617	
3,200.00	2,773.92	2,752.92	2,752.92	29.24	47.06	91.71	-5,431.33	3,222.70	6,224.73	6,148.44	76.29	81.593	
3,300.00	2,846.88	2,825.88	2,825.88	30.73	48.33	92.17	-5,431.33	3,222.70	6,227.90	6,148.86	79.04	78.791	
3,400.00	2,919.83	2,901.17	2,898.83	32.23	49.65	92.63	-5,431.33	3,222.70	6,231.82	6,149.99	81.84	76.151	
3,500.00	2,992.79	2,971.79	2,971.79	33.72	50.88	93.09	-5,431.33	3,222.70	6,236.49	6,151.95	84.54	73.767	
3,600.00	3,065.75	3,044.75	3,044.75	35.22	52.15	93.54	-5,431.33	3,222.70	6,241.90	6,154.61	87.29	71.509	
3,700.00	3,138.71	3,117.71	3,117.71	36.72	53.43	94.00	-5,431.33	3,222.70	6,248.06	6,158.03	90.03	69.401	
3,800.00	3,211.66	3,209.34	3,190.66	38.22	55.03	94.46	-5,431.33	3,222.70	6,254.95	6,161.86	93.09	67.192	
3,900.00	3,284.62	3,263.62	3,263.62	39.72	55.97	94.91	-5,431.33	3,222.70	6,262.59	6,167.10	95.49	65.581	
4,000.00	3,357.58	3,336.58	3,336.58	41.22	57.25	95.37	-5,431.33	3,222.70	6,270.96	6,172.75	98.22	63.847	
4,100.00	3,430.53	3,409.53	3,409.53	42.73	58.52	95.83	-5,431.33	3,222.70	6,280.07	6,179.13	100.94	62.218	
4,200.00	3,503.49	3,482.49	3,482.49	44.23	59.79	96.28	-5,431.33	3,222.70	6,289.91	6,186.26	103.65	60.686	
4,300.00	3,576.45	3,555.45	3,555.45	45.74	61.07	96.73	-5,431.33	3,222.70	6,300.47	6,194.12	106.35	59.243	
4,400.00	3,649.40	3,628.40	3,628.40	47.25	62.34	97.19	-5,431.33	3,222.70	6,311.76	6,202.72	109.04	57.883	
4,500.00	3,722.36	3,701.36	3,701.36	48.75	63.61	97.64	-5,431.33	3,222.70	6,323.77	6,212.04	111.73	56.599	
4,600.00	3,795.32	3,774.32	3,774.32	50.26	64.89	98.09	-5,431.33	3,222.70	6,336.49	6,222.09	114.41	55.386	
4,700.00	3,868.27	3,847.27	3,847.27	51.77	66.16	98.54	-5,431.33	3,222.70	6,349.93	6,232.85	117.07	54.238	
4,800.00	3,941.23	3,920.23	3,920.23	53.28	67.43	98.99	-5,431.33	3,222.70	6,364.07	6,244.33	119.73	53.152	
4,900.00	4,014.19	4,006.81	3,993.19	54.79	68.95	99.44	-5,431.33	3,222.70	6,378.91	6,256.29	122.62	52.022	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,000.00	4,087.15	4,066.15	4,066.15	56.30	69.98	99.88	-5,431.33	3,222.70	6,394.45	6,269.43	125.02	51.148	
5,100.00	4,160.10	4,139.10	4,139.10	57.81	71.25	100.33	-5,431.33	3,222.70	6,410.68	6,283.04	127.65	50.223	
5,200.00	4,233.06	4,212.06	4,212.06	59.32	72.53	100.77	-5,431.33	3,222.70	6,427.60	6,297.34	130.26	49.344	
5,300.00	4,306.02	4,285.02	4,285.02	60.83	73.80	101.22	-5,431.33	3,222.70	6,445.20	6,312.33	132.87	48.509	
5,400.00	4,378.97	4,357.97	4,357.97	62.34	75.07	101.66	-5,431.33	3,222.70	6,463.48	6,328.02	135.46	47.715	
5,500.00	4,451.93	4,430.93	4,430.93	63.85	76.35	102.10	-5,431.33	3,222.70	6,482.42	6,344.38	138.04	46.960	
5,600.00	4,524.89	4,503.89	4,503.89	65.36	77.62	102.54	-5,431.33	3,222.70	6,502.03	6,361.42	140.61	46.242	
5,700.00	4,597.84	4,576.84	4,576.84	66.88	78.89	102.97	-5,431.33	3,222.70	6,522.30	6,379.13	143.17	45.557	
5,800.00	4,670.80	4,649.80	4,649.80	68.39	80.17	103.41	-5,431.33	3,222.70	6,543.22	6,397.51	145.71	44.905	
5,900.00	4,743.76	4,722.76	4,722.76	69.90	81.44	103.84	-5,431.33	3,222.70	6,564.79	6,416.54	148.24	44.284	
6,000.00	4,816.71	4,804.29	4,795.71	71.41	82.86	104.28	-5,431.33	3,222.70	6,586.99	6,436.08	150.91	43.647	
6,100.00	4,889.67	4,868.67	4,868.67	72.93	83.99	104.71	-5,431.33	3,222.70	6,609.83	6,456.56	153.27	43.125	
6,200.00	4,962.63	4,941.63	4,941.63	74.44	85.26	105.14	-5,431.33	3,222.70	6,633.29	6,477.53	155.77	42.585	
6,300.00	5,035.59	5,014.59	5,014.59	75.95	86.53	105.56	-5,431.33	3,222.70	6,657.38	6,499.13	158.25	42.070	
6,400.00	5,108.54	5,087.54	5,087.54	77.47	87.81	105.99	-5,431.33	3,222.70	6,682.08	6,521.36	160.71	41.577	
6,500.00	5,181.50	5,160.50	5,160.50	78.98	89.08	106.41	-5,431.33	3,222.70	6,707.38	6,544.21	163.17	41.107	
6,600.00	5,254.46	5,233.46	5,233.46	80.49	90.35	106.84	-5,431.33	3,222.70	6,733.29	6,567.68	165.61	40.657	
6,700.00	5,327.41	5,306.41	5,306.41	82.01	91.63	107.26	-5,431.33	3,222.70	6,759.78	6,591.74	168.04	40.228	
6,800.00	5,400.37	5,379.37	5,379.37	83.52	92.90	107.67	-5,431.33	3,222.70	6,786.87	6,616.41	170.45	39.817	
6,900.00	5,473.33	5,452.33	5,452.33	85.04	94.17	108.09	-5,431.33	3,222.70	6,814.53	6,641.67	172.85	39.423	
7,000.00	5,546.28	5,525.28	5,525.28	86.55	95.45	108.50	-5,431.33	3,222.70	6,842.76	6,667.52	175.24	39.047	
7,100.00	5,619.24	5,601.76	5,598.24	88.06	96.78	108.92	-5,431.33	3,222.70	6,871.56	6,693.88	177.68	38.674	
7,200.00	5,692.20	5,671.20	5,671.20	89.58	97.99	109.33	-5,431.33	3,222.70	6,900.91	6,720.93	179.98	38.343	
7,300.00	5,765.15	5,744.15	5,744.15	91.09	99.27	109.74	-5,431.33	3,222.70	6,930.82	6,748.49	182.33	38.013	
7,400.00	5,838.11	5,817.11	5,817.11	92.61	100.54	110.14	-5,431.33	3,222.70	6,961.27	6,776.61	184.66	37.697	
7,500.00	5,911.07	5,909.93	5,890.07	94.12	102.16	110.55	-5,431.33	3,222.70	6,992.25	6,804.92	187.33	37.326	
7,600.00	5,984.03	5,963.03	5,963.03	95.64	103.09	110.95	-5,431.33	3,222.70	7,023.77	6,834.48	189.29	37.105	
7,700.00	6,056.98	6,035.98	6,035.98	97.15	104.36	111.35	-5,431.33	3,222.70	7,055.81	6,864.22	191.59	36.828	
7,800.00	6,129.94	6,108.94	6,108.94	98.67	105.63	111.75	-5,431.33	3,222.70	7,088.36	6,894.49	193.87	36.562	
7,900.00	6,202.90	6,181.90	6,181.90	100.18	106.91	112.14	-5,431.33	3,222.70	7,121.42	6,925.28	196.14	36.307	
8,000.00	6,275.85	6,254.85	6,254.85	101.70	108.18	112.53	-5,431.33	3,222.70	7,154.98	6,956.58	198.40	36.064	
8,100.00	6,348.81	6,327.81	6,327.81	103.21	109.46	112.93	-5,431.33	3,222.70	7,189.04	6,988.39	200.64	35.830	
8,200.00	6,421.77	6,400.77	6,400.77	104.73	110.73	113.31	-5,431.33	3,222.70	7,223.58	7,020.70	202.88	35.606	
8,300.00	6,494.72	6,473.72	6,473.72	106.24	112.00	113.70	-5,431.33	3,222.70	7,258.60	7,053.50	205.10	35.391	
8,400.00	6,567.68	6,546.68	6,546.68	107.76	113.28	114.08	-5,431.33	3,222.70	7,294.09	7,086.79	207.30	35.186	
8,500.00	6,640.64	6,619.64	6,619.64	109.27	114.55	114.47	-5,431.33	3,222.70	7,330.06	7,120.56	209.50	34.989	
8,600.00	6,713.59	6,707.41	6,692.59	110.79	116.08	114.85	-5,431.33	3,222.70	7,366.48	7,154.54	211.94	34.758	
8,700.00	6,786.55	6,765.55	6,765.55	112.30	117.10	115.22	-5,431.33	3,222.70	7,403.35	7,189.50	213.85	34.619	
8,800.00	6,859.51	6,838.51	6,838.51	113.82	118.37	115.60	-5,431.33	3,222.70	7,440.67	7,224.66	216.01	34.446	
8,900.00	6,932.46	6,911.46	6,911.46	115.33	119.64	115.97	-5,431.33	3,222.70	7,478.43	7,260.27	218.16	34.280	
9,000.00	7,005.42	6,984.42	6,984.42	116.85	120.92	116.34	-5,431.33	3,222.70	7,516.62	7,296.33	220.29	34.121	
9,104.89	7,081.95	7,060.95	7,060.95	118.44	122.25	116.73	-5,431.33	3,222.70	7,557.14	7,334.62	222.52	33.961	
9,150.00	7,115.15	7,105.85	7,094.15	119.12	123.03	111.79	-5,431.33	3,222.70	7,573.08	7,349.39	223.69	33.855	
9,200.00	7,152.46	7,131.46	7,131.46	119.86	123.48	106.15	-5,431.33	3,222.70	7,587.01	7,362.41	224.59	33.781	
9,250.00	7,190.04	7,169.04	7,169.04	120.57	124.14	100.46	-5,431.33	3,222.70	7,596.90	7,371.18	225.71	33.657	
9,300.00	7,227.59	7,206.59	7,206.59	121.25	124.79	94.86	-5,431.33	3,222.70	7,602.69	7,375.85	226.84	33.516	
9,350.00	7,264.83	7,243.83	7,243.83	121.89	125.44	89.50	-5,431.33	3,222.70	7,604.36	7,376.40	227.96	33.358	
9,400.00	7,301.48	7,280.48	7,280.48	122.48	126.08	84.51	-5,431.33	3,222.70	7,601.90	7,372.83	229.07	33.186	
9,450.00	7,337.26	7,316.26	7,316.26	123.01	126.71	80.00	-5,431.33	3,222.70	7,595.33	7,365.19	230.14	33.003	
9,500.00	7,371.90	7,350.90	7,350.90	123.49	127.31	76.02	-5,431.33	3,222.70	7,584.72	7,353.54	231.18	32.809	
9,550.00	7,405.13	7,384.13	7,384.13	123.91	127.89	72.62	-5,431.33	3,222.70	7,570.13	7,337.96	232.17	32.606	
9,600.00	7,436.70	7,415.70	7,415.70	124.27	128.44	69.79	-5,431.33	3,222.70	7,551.69	7,318.58	233.10	32.396	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	7,445.36	7,445.36	124.57	128.96	67.54	-5,431.33	3,222.70	7,529.52	7,295.54	233.98	32.181	
9,700.00	7,493.91	7,472.91	7,472.91	124.81	129.44	65.87	-5,431.33	3,222.70	7,503.78	7,269.00	234.78	31.962	
9,750.00	7,519.11	7,501.89	7,498.11	125.00	129.95	64.79	-5,431.33	3,222.70	7,474.66	7,239.09	235.57	31.731	
9,800.00	7,541.79	7,520.79	7,520.79	125.12	130.28	64.32	-5,431.33	3,222.70	7,442.37	7,206.22	236.15	31.516	
9,850.00	7,561.77	7,540.77	7,540.77	125.20	130.63	64.50	-5,431.33	3,222.70	7,407.14	7,170.42	236.71	31.292	
9,900.00	7,578.90	7,557.90	7,557.90	125.23	130.92	65.42	-5,431.33	3,222.70	7,369.21	7,132.02	237.20	31.068	
9,950.00	7,593.04	7,572.04	7,572.04	125.22	131.17	67.24	-5,431.33	3,222.70	7,328.86	7,091.27	237.59	30.846	
10,000.00	7,604.09	7,583.09	7,583.09	125.17	131.36	70.18	-5,431.33	3,222.70	7,286.38	7,048.47	237.91	30.627	
10,050.00	7,611.97	7,609.03	7,590.97	125.08	131.82	74.64	-5,431.33	3,222.70	7,242.06	7,003.60	238.46	30.370	
10,100.00	7,616.61	7,604.39	7,595.61	124.97	131.74	81.24	-5,431.33	3,222.70	7,196.23	6,957.78	238.45	30.179	
10,145.95	7,618.00	7,603.00	7,597.00	124.84	131.71	90.00	-5,431.33	3,222.70	7,153.05	6,914.58	238.48	29.995	
10,200.00	7,618.00	7,603.00	7,597.00	124.69	131.71	90.00	-5,431.33	3,222.70	7,101.81	6,863.28	238.53	29.773	
10,300.00	7,618.00	7,603.00	7,597.00	124.41	131.71	90.00	-5,431.33	3,222.70	7,007.10	6,768.47	238.63	29.364	
10,400.00	7,618.00	7,603.00	7,597.00	124.14	131.71	90.00	-5,431.33	3,222.70	6,912.53	6,673.81	238.72	28.956	
10,500.00	7,618.00	7,603.00	7,597.00	123.88	131.71	90.00	-5,431.33	3,222.70	6,818.13	6,579.30	238.83	28.548	
10,600.00	7,618.00	7,603.00	7,597.00	123.63	131.71	90.00	-5,431.33	3,222.70	6,723.89	6,484.95	238.93	28.141	
10,700.00	7,618.00	7,603.00	7,597.00	123.40	131.71	90.00	-5,431.33	3,222.70	6,629.81	6,390.77	239.04	27.735	
10,800.00	7,618.00	7,603.00	7,597.00	123.18	131.71	90.00	-5,431.33	3,222.70	6,535.91	6,296.76	239.15	27.330	
10,900.00	7,618.00	7,603.00	7,597.00	122.96	131.71	90.00	-5,431.33	3,222.70	6,442.20	6,202.93	239.27	26.925	
11,000.00	7,618.00	7,603.00	7,597.00	122.76	131.71	90.00	-5,431.33	3,222.70	6,348.67	6,109.29	239.39	26.521	
11,100.00	7,618.00	7,603.00	7,597.00	122.57	131.71	90.00	-5,431.33	3,222.70	6,255.35	6,015.84	239.51	26.118	
11,200.00	7,618.00	7,603.00	7,597.00	122.39	131.71	90.00	-5,431.33	3,222.70	6,162.23	5,922.60	239.63	25.715	
11,300.00	7,618.00	7,603.00	7,597.00	122.23	131.71	90.00	-5,431.33	3,222.70	6,069.34	5,829.58	239.76	25.314	
11,400.00	7,618.00	7,603.00	7,597.00	122.07	131.71	90.00	-5,431.33	3,222.70	5,976.67	5,736.78	239.90	24.914	
11,500.00	7,618.00	7,603.00	7,597.00	121.93	131.71	90.00	-5,431.33	3,222.70	5,884.25	5,644.22	240.03	24.514	
11,600.00	7,618.00	7,603.00	7,597.00	121.79	131.71	90.00	-5,431.33	3,222.70	5,792.08	5,551.90	240.18	24.116	
11,700.00	7,618.00	7,603.00	7,597.00	121.67	131.71	90.00	-5,431.33	3,222.70	5,700.17	5,459.84	240.32	23.719	
11,800.00	7,618.00	7,603.00	7,597.00	121.56	131.71	90.00	-5,431.33	3,222.70	5,608.53	5,368.06	240.47	23.323	
11,900.00	7,618.00	7,603.00	7,597.00	121.46	131.71	90.00	-5,431.33	3,222.70	5,517.19	5,276.56	240.63	22.928	
12,000.00	7,618.00	7,603.00	7,597.00	121.38	131.71	90.00	-5,431.33	3,222.70	5,426.15	5,185.37	240.79	22.535	
12,100.00	7,618.00	7,603.00	7,597.00	121.30	131.71	90.00	-5,431.33	3,222.70	5,335.44	5,094.48	240.95	22.143	
12,200.00	7,618.00	7,603.00	7,597.00	121.24	131.71	90.00	-5,431.33	3,222.70	5,245.06	5,003.94	241.12	21.753	
12,300.00	7,618.00	7,603.00	7,597.00	121.19	131.71	90.00	-5,431.33	3,222.70	5,155.04	4,913.74	241.30	21.364	
12,400.00	7,618.00	7,603.00	7,597.00	121.16	131.71	90.00	-5,431.33	3,222.70	5,065.39	4,823.91	241.48	20.976	
12,500.00	7,618.00	7,603.00	7,597.00	121.14	131.71	90.00	-5,431.33	3,222.70	4,976.13	4,734.47	241.67	20.591	
12,600.00	7,618.00	7,603.00	7,597.00	121.13	131.71	90.00	-5,431.33	3,222.70	4,887.29	4,645.44	241.86	20.207	
12,700.00	7,618.00	7,603.00	7,597.00	121.13	131.71	90.00	-5,431.33	3,222.70	4,798.90	4,556.84	242.05	19.826	
12,800.00	7,618.00	7,603.00	7,597.00	121.15	131.71	90.00	-5,431.33	3,222.70	4,710.96	4,468.70	242.26	19.446	
12,900.00	7,618.00	7,603.00	7,597.00	121.18	131.71	90.00	-5,431.33	3,222.70	4,623.52	4,381.05	242.47	19.069	
13,000.00	7,618.00	7,603.00	7,597.00	121.23	131.71	90.00	-5,431.33	3,222.70	4,536.59	4,293.91	242.68	18.694	
13,100.00	7,618.00	7,603.00	7,597.00	121.29	131.71	90.00	-5,431.33	3,222.70	4,450.21	4,207.31	242.90	18.321	
13,200.00	7,618.00	7,603.00	7,597.00	121.37	131.71	90.00	-5,431.33	3,222.70	4,364.42	4,121.29	243.13	17.951	
13,300.00	7,618.00	7,603.00	7,597.00	121.46	131.71	90.00	-5,431.33	3,222.70	4,279.24	4,035.87	243.37	17.584	
13,400.00	7,618.00	7,603.00	7,597.00	121.57	131.71	90.00	-5,431.33	3,222.70	4,194.72	3,951.11	243.61	17.219	
13,500.00	7,618.00	7,603.00	7,597.00	121.70	131.71	90.00	-5,431.33	3,222.70	4,110.89	3,867.04	243.85	16.858	
13,600.00	7,618.00	7,603.00	7,597.00	121.84	131.71	90.00	-5,431.33	3,222.70	4,027.80	3,783.69	244.10	16.500	
13,700.00	7,618.00	7,603.00	7,597.00	122.01	131.71	90.00	-5,431.33	3,222.70	3,945.49	3,701.13	244.36	16.146	
13,800.00	7,618.00	7,603.00	7,597.00	122.19	131.71	90.00	-5,431.33	3,222.70	3,864.02	3,619.39	244.63	15.796	
13,900.00	7,618.00	7,603.00	7,597.00	122.39	131.71	90.00	-5,431.33	3,222.70	3,783.44	3,538.54	244.90	15.449	
14,000.00	7,618.00	7,603.00	7,597.00	122.62	131.71	90.00	-5,431.33	3,222.70	3,703.80	3,458.63	245.17	15.107	
14,100.00	7,618.00	7,603.00	7,597.00	122.86	131.71	90.00	-5,431.33	3,222.70	3,625.18	3,379.73	245.45	14.770	
14,200.00	7,618.00	7,603.00	7,597.00	123.12	131.71	90.00	-5,431.33	3,222.70	3,547.63	3,301.89	245.73	14.437	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	7,603.00	7,597.00	123.41	131.71	90.00	-5,431.33	3,222.70	3,471.22	3,225.21	246.02	14.110	
14,400.00	7,618.00	7,603.00	7,597.00	123.72	131.71	90.00	-5,431.33	3,222.70	3,396.05	3,149.75	246.30	13.788	
14,500.00	7,618.00	7,603.00	7,597.00	124.06	131.71	90.00	-5,431.33	3,222.70	3,322.18	3,075.59	246.59	13.472	
14,600.00	7,618.00	7,603.00	7,597.00	124.42	131.71	90.00	-5,431.33	3,222.70	3,249.72	3,002.84	246.88	13.163	
14,700.00	7,618.00	7,603.00	7,597.00	124.80	131.71	90.00	-5,431.33	3,222.70	3,178.74	2,931.58	247.16	12.861	
14,800.00	7,618.00	7,603.00	7,597.00	125.21	131.71	90.00	-5,431.33	3,222.70	3,109.36	2,861.92	247.44	12.566	
14,900.00	7,618.00	7,603.00	7,597.00	125.65	131.71	90.00	-5,431.33	3,222.70	3,041.69	2,793.98	247.72	12.279	
15,000.00	7,618.00	7,603.00	7,597.00	126.11	131.71	90.00	-5,431.33	3,222.70	2,975.84	2,727.86	247.98	12.000	
15,100.00	7,618.00	7,603.00	7,597.00	126.61	131.71	90.00	-5,431.33	3,222.70	2,911.94	2,663.71	248.23	11.731	
15,200.00	7,618.00	7,603.00	7,597.00	127.13	131.71	90.00	-5,431.33	3,222.70	2,850.11	2,601.65	248.47	11.471	
15,300.00	7,618.00	7,603.00	7,597.00	127.68	131.71	90.00	-5,431.33	3,222.70	2,790.50	2,541.82	248.69	11.221	
15,400.00	7,618.00	7,603.00	7,597.00	128.26	131.71	90.00	-5,431.33	3,222.70	2,733.25	2,484.37	248.88	10.982	
15,500.00	7,618.00	7,603.00	7,597.00	128.87	131.71	90.00	-5,431.33	3,222.70	2,678.51	2,429.46	249.04	10.755	
15,600.00	7,618.00	7,603.00	7,597.00	129.51	131.71	90.00	-5,431.33	3,222.70	2,626.43	2,377.26	249.18	10.540	
15,700.00	7,618.00	7,603.00	7,597.00	130.18	131.71	90.00	-5,431.33	3,222.70	2,577.19	2,327.92	249.27	10.339	
15,800.00	7,618.00	7,603.00	7,597.00	130.88	131.71	90.00	-5,431.33	3,222.70	2,530.94	2,281.62	249.32	10.151	
15,900.00	7,618.00	7,603.00	7,597.00	131.61	131.71	90.00	-5,431.33	3,222.70	2,487.85	2,238.53	249.32	9.978	
16,000.00	7,618.00	7,603.00	7,597.00	132.37	131.71	90.00	-5,431.33	3,222.70	2,448.09	2,198.82	249.27	9.821	
16,100.00	7,618.00	7,603.00	7,597.00	133.17	131.71	90.00	-5,431.33	3,222.70	2,411.83	2,162.66	249.16	9.680	
16,200.00	7,618.00	7,603.00	7,597.00	133.99	131.71	90.00	-5,431.33	3,222.70	2,379.21	2,130.22	248.99	9.555	
16,300.00	7,618.00	7,603.00	7,597.00	134.84	131.71	90.00	-5,431.33	3,222.70	2,350.40	2,101.65	248.75	9.449	
16,400.00	7,618.00	7,603.00	7,597.00	135.72	131.71	90.00	-5,431.33	3,222.70	2,325.54	2,077.10	248.44	9.361	
16,500.00	7,618.00	7,603.00	7,597.00	136.63	131.71	90.00	-5,431.33	3,222.70	2,304.76	2,056.70	248.06	9.291	
16,600.00	7,618.00	7,603.00	7,597.00	137.57	131.71	90.00	-5,431.33	3,222.70	2,288.16	2,040.55	247.61	9.241	
16,700.00	7,618.00	7,603.00	7,597.00	138.54	131.71	90.00	-5,431.33	3,222.70	2,275.83	2,028.74	247.09	9.211	
16,800.00	7,618.00	7,603.00	7,597.00	139.53	131.71	90.00	-5,431.33	3,222.70	2,267.85	2,021.35	246.50	9.200	SF
16,900.00	7,618.00	7,603.00	7,597.00	140.55	131.71	90.00	-5,431.33	3,222.70	2,264.27	2,018.41	245.85	9.210	
16,931.25	7,618.00	7,603.00	7,597.00	140.88	131.71	90.00	-5,431.33	3,222.70	2,264.05	2,018.41	245.64	9.217	CC, ES
17,000.00	7,618.00	7,603.00	7,597.00	141.60	131.71	90.00	-5,431.33	3,222.70	2,265.09	2,019.95	245.15	9.240	
17,100.00	7,618.00	7,603.00	7,597.00	142.67	131.71	90.00	-5,431.33	3,222.70	2,270.33	2,025.94	244.40	9.290	
17,200.00	7,618.00	7,603.00	7,597.00	143.77	131.71	90.00	-5,431.33	3,222.70	2,279.95	2,036.34	243.60	9.359	
17,300.00	7,618.00	7,603.00	7,597.00	144.88	131.71	90.00	-5,431.33	3,222.70	2,293.88	2,051.10	242.78	9.448	
17,400.00	7,618.00	7,603.00	7,597.00	146.02	131.71	90.00	-5,431.33	3,222.70	2,312.07	2,070.13	241.94	9.556	
17,500.00	7,618.00	7,603.00	7,597.00	147.19	131.71	90.00	-5,431.33	3,222.70	2,334.40	2,093.31	241.08	9.683	
17,600.00	7,618.00	7,603.00	7,597.00	148.37	131.71	90.00	-5,431.33	3,222.70	2,360.75	2,120.53	240.23	9.827	
17,700.00	7,618.00	7,603.00	7,597.00	149.57	131.71	90.00	-5,431.33	3,222.70	2,391.01	2,151.62	239.38	9.988	
17,800.00	7,618.00	7,603.00	7,597.00	150.79	131.71	90.00	-5,431.33	3,222.70	2,425.01	2,186.46	238.55	10.166	
17,900.00	7,618.00	7,603.00	7,597.00	152.03	131.71	90.00	-5,431.33	3,222.70	2,462.60	2,224.86	237.74	10.358	
18,000.00	7,618.00	7,603.00	7,597.00	153.29	131.71	90.00	-5,431.33	3,222.70	2,503.63	2,266.67	236.96	10.566	
18,100.00	7,618.00	7,603.00	7,597.00	154.57	131.71	90.00	-5,431.33	3,222.70	2,547.92	2,311.71	236.21	10.787	
18,200.00	7,618.00	7,603.00	7,597.00	155.86	131.71	90.00	-5,431.33	3,222.70	2,595.31	2,359.81	235.50	11.020	
18,300.00	7,618.00	7,603.00	7,597.00	157.17	131.71	90.00	-5,431.33	3,222.70	2,645.64	2,410.81	234.83	11.266	
18,400.00	7,618.00	7,603.00	7,597.00	158.49	131.71	90.00	-5,431.33	3,222.70	2,698.73	2,464.53	234.20	11.523	
18,500.00	7,618.00	7,603.00	7,597.00	159.82	131.71	90.00	-5,431.33	3,222.70	2,754.43	2,520.82	233.61	11.791	
18,600.00	7,618.00	7,603.00	7,597.00	161.17	131.71	90.00	-5,431.33	3,222.70	2,812.59	2,579.52	233.07	12.068	
18,700.00	7,618.00	7,603.00	7,597.00	162.54	131.71	90.00	-5,431.33	3,222.70	2,873.05	2,640.48	232.56	12.354	
18,800.00	7,618.00	7,603.00	7,597.00	163.91	131.71	90.00	-5,431.33	3,222.70	2,935.67	2,703.57	232.10	12.648	
18,900.00	7,618.00	7,603.00	7,597.00	165.30	131.71	90.00	-5,431.33	3,222.70	3,000.32	2,768.64	231.68	12.950	
19,000.00	7,618.00	7,603.00	7,597.00	166.70	131.71	90.00	-5,431.33	3,222.70	3,066.86	2,835.57	231.29	13.260	
19,100.00	7,618.00	7,603.00	7,597.00	168.10	131.71	90.00	-5,431.33	3,222.70	3,135.19	2,904.25	230.94	13.576	
19,200.00	7,618.00	7,603.00	7,597.00	169.52	131.71	90.00	-5,431.33	3,222.70	3,205.18	2,974.55	230.63	13.898	
19,300.00	7,618.00	7,603.00	7,597.00	170.95	131.71	90.00	-5,431.33	3,222.70	3,276.72	3,046.38	230.34	14.226	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	7,603.00	7,597.00	172.39	131.71	90.00	-5,431.33	3,222.70	3,349.73	3,119.64	230.08	14.559	
19,500.00	7,618.00	7,603.00	7,597.00	173.84	131.71	90.00	-5,431.33	3,222.70	3,424.09	3,194.24	229.86	14.897	
19,600.00	7,618.00	7,603.00	7,597.00	175.30	131.71	90.00	-5,431.33	3,222.70	3,499.74	3,270.09	229.65	15.239	
19,700.00	7,618.00	7,603.00	7,597.00	176.76	131.71	90.00	-5,431.33	3,222.70	3,576.58	3,347.11	229.47	15.586	
19,800.00	7,618.00	7,603.00	7,597.00	178.24	131.71	90.00	-5,431.33	3,222.70	3,654.54	3,425.23	229.31	15.937	
19,896.19	7,618.00	7,603.00	7,597.00	179.66	131.71	90.00	-5,431.33	3,222.70	3,730.52	3,501.34	229.18	16.278	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	134.57	-5,559.12	5,644.16	7,922.23				
100.00	100.00	62.00	62.00	0.13	0.51	134.57	-5,559.12	5,644.16	7,922.14	7,921.49	0.65	N/A	
200.00	200.00	162.00	162.00	0.49	1.91	134.57	-5,559.12	5,644.16	7,922.14	7,919.74	2.40	3,295.352	
300.00	299.98	261.98	261.98	0.85	3.66	65.27	-5,559.12	5,644.16	7,921.41	7,916.91	4.50	1,758.954	
400.00	399.84	361.84	361.84	1.21	5.40	65.35	-5,559.12	5,644.16	7,919.22	7,912.62	6.60	1,199.046	
500.00	499.45	461.45	461.45	1.58	7.14	65.47	-5,559.12	5,644.16	7,915.58	7,906.87	8.71	908.522	
600.00	598.70	560.70	560.70	1.97	8.87	65.64	-5,559.12	5,644.16	7,910.51	7,899.68	10.83	730.452	
700.00	697.47	659.47	659.47	2.38	10.59	65.86	-5,559.12	5,644.16	7,904.02	7,891.06	12.96	609.940	
800.00	795.62	757.62	757.62	2.83	12.31	66.13	-5,559.12	5,644.16	7,896.14	7,881.03	15.10	522.817	
900.00	893.06	855.06	855.06	3.31	14.01	66.45	-5,559.12	5,644.16	7,886.89	7,869.63	17.27	456.790	
1,000.00	989.64	951.64	951.64	3.83	15.69	66.81	-5,559.12	5,644.16	7,876.32	7,856.87	19.45	404.948	
1,100.00	1,085.27	1,047.27	1,047.27	4.40	17.36	67.22	-5,559.12	5,644.16	7,864.47	7,842.81	21.66	363.108	
1,200.00	1,179.82	1,141.82	1,141.82	5.02	19.01	67.67	-5,559.12	5,644.16	7,851.38	7,827.48	23.89	328.592	
1,300.00	1,273.17	1,235.17	1,235.17	5.70	20.64	68.17	-5,559.12	5,644.16	7,837.10	7,810.94	26.16	299.603	
1,400.00	1,365.21	1,327.21	1,327.21	6.43	22.25	68.71	-5,559.12	5,644.16	7,821.68	7,793.23	28.45	274.893	
1,500.00	1,455.84	1,417.84	1,417.84	7.23	23.83	69.29	-5,559.12	5,644.16	7,805.20	7,774.41	30.78	253.568	
1,600.00	1,544.94	1,506.94	1,506.94	8.09	25.38	69.90	-5,559.12	5,644.16	7,787.70	7,754.56	33.14	234.968	
1,700.00	1,632.39	1,605.61	1,594.39	9.01	27.11	70.55	-5,559.12	5,644.16	7,769.27	7,733.54	35.74	217.402	
1,800.00	1,718.11	1,680.11	1,680.11	10.00	28.41	71.24	-5,559.12	5,644.16	7,749.98	7,712.00	37.98	204.081	
1,900.00	1,801.97	1,763.97	1,763.97	11.07	29.87	71.96	-5,559.12	5,644.16	7,729.89	7,689.45	40.45	191.117	
2,000.00	1,883.88	1,845.88	1,845.88	12.20	31.30	72.70	-5,559.12	5,644.16	7,709.10	7,666.15	42.95	179.472	
2,100.00	1,963.74	1,925.74	1,925.74	13.41	32.69	73.47	-5,559.12	5,644.16	7,687.69	7,642.19	45.50	168.960	
2,200.00	2,041.45	2,003.45	2,003.45	14.69	34.05	74.26	-5,559.12	5,644.16	7,665.73	7,617.65	48.08	159.426	
2,300.00	2,116.92	2,078.92	2,078.92	16.05	35.37	75.07	-5,559.12	5,644.16	7,643.33	7,592.63	50.70	150.745	
2,357.48	2,159.25	2,121.25	2,121.25	16.86	36.11	75.54	-5,559.12	5,644.16	7,630.29	7,578.06	52.23	146.103	
2,400.00	2,190.27	2,152.27	2,152.27	17.47	36.65	75.70	-5,559.12	5,644.16	7,620.65	7,567.29	53.36	142.825	
2,500.00	2,263.22	2,225.22	2,225.22	18.92	37.92	76.08	-5,559.12	5,644.16	7,598.37	7,542.34	56.03	135.602	
2,600.00	2,336.18	2,301.82	2,298.18	20.37	39.26	76.45	-5,559.12	5,644.16	7,576.64	7,517.85	58.79	128.869	
2,700.00	2,409.14	2,371.14	2,371.14	21.84	40.47	76.83	-5,559.12	5,644.16	7,555.47	7,494.03	61.44	122.972	
2,800.00	2,482.09	2,444.09	2,444.09	23.31	41.74	77.21	-5,559.12	5,644.16	7,534.86	7,470.70	64.16	117.430	
2,900.00	2,555.05	2,517.05	2,517.05	24.78	43.01	77.58	-5,559.12	5,644.16	7,514.82	7,447.92	66.90	112.328	
3,000.00	2,628.01	2,609.99	2,590.01	26.27	44.64	77.96	-5,559.12	5,644.16	7,495.35	7,425.35	70.00	107.081	
3,100.00	2,700.96	2,662.96	2,662.96	27.75	45.56	78.34	-5,559.12	5,644.16	7,476.45	7,404.05	72.40	103.259	
3,200.00	2,773.92	2,735.92	2,735.92	29.24	46.83	78.73	-5,559.12	5,644.16	7,458.13	7,382.96	75.17	99.217	
3,300.00	2,846.88	2,808.88	2,808.88	30.73	48.11	79.11	-5,559.12	5,644.16	7,440.40	7,362.46	77.94	95.459	
3,400.00	2,919.83	2,881.83	2,881.83	32.23	49.38	79.49	-5,559.12	5,644.16	7,423.25	7,342.53	80.72	91.958	
3,500.00	2,992.79	2,954.79	2,954.79	33.72	50.65	79.88	-5,559.12	5,644.16	7,406.70	7,323.19	83.51	88.691	
3,600.00	3,065.75	3,027.75	3,027.75	35.22	51.93	80.26	-5,559.12	5,644.16	7,390.74	7,304.43	86.30	85.635	
3,700.00	3,138.71	3,100.71	3,100.71	36.72	53.20	80.65	-5,559.12	5,644.16	7,375.38	7,286.27	89.10	82.773	
3,800.00	3,211.66	3,173.66	3,173.66	38.22	54.47	81.04	-5,559.12	5,644.16	7,360.62	7,268.71	91.91	80.087	
3,900.00	3,284.62	3,246.62	3,246.62	39.72	55.75	81.42	-5,559.12	5,644.16	7,346.47	7,251.76	94.72	77.563	
4,000.00	3,357.58	3,319.58	3,319.58	41.22	57.02	81.81	-5,559.12	5,644.16	7,332.93	7,235.41	97.53	75.188	
4,100.00	3,430.53	3,407.47	3,392.53	42.73	58.56	82.20	-5,559.12	5,644.16	7,320.01	7,219.41	100.60	72.761	
4,200.00	3,503.49	3,465.49	3,465.49	44.23	59.57	82.59	-5,559.12	5,644.16	7,307.70	7,204.54	103.16	70.837	
4,300.00	3,576.45	3,538.45	3,538.45	45.74	60.84	82.98	-5,559.12	5,644.16	7,296.01	7,190.03	105.98	68.841	
4,400.00	3,649.40	3,611.40	3,611.40	47.25	62.11	83.38	-5,559.12	5,644.16	7,284.95	7,176.15	108.81	66.954	
4,500.00	3,722.36	3,684.36	3,684.36	48.75	63.39	83.77	-5,559.12	5,644.16	7,274.51	7,162.88	111.63	65.166	
4,600.00	3,795.32	3,757.32	3,757.32	50.26	64.66	84.16	-5,559.12	5,644.16	7,264.70	7,150.25	114.46	63.471	
4,700.00	3,868.27	3,830.27	3,830.27	51.77	65.93	84.55	-5,559.12	5,644.16	7,255.53	7,138.24	117.28	61.863	
4,800.00	3,941.23	3,903.23	3,903.23	53.28	67.21	84.95	-5,559.12	5,644.16	7,246.98	7,126.87	120.11	60.336	
4,900.00	4,014.19	3,976.19	3,976.19	54.79	68.48	85.34	-5,559.12	5,644.16	7,239.08	7,116.14	122.94	58.885	
5,000.00	4,087.15	4,049.15	4,049.15	56.30	69.75	85.74	-5,559.12	5,644.16	7,231.81	7,106.04	125.76	57.504	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,100.00	4,160.10	4,122.10	4,122.10	57.81	71.03	86.13	-5,559.12	5,644.16	7,225.18	7,096.59	128.59	56.189	
5,200.00	4,233.06	4,204.94	4,195.06	59.32	72.47	86.53	-5,559.12	5,644.16	7,219.19	7,087.61	131.58	54.864	
5,300.00	4,306.02	4,268.02	4,268.02	60.83	73.57	86.93	-5,559.12	5,644.16	7,213.85	7,079.61	134.23	53.741	
5,400.00	4,378.97	4,340.97	4,340.97	62.34	74.85	87.32	-5,559.12	5,644.16	7,209.15	7,072.10	137.05	52.602	
5,500.00	4,451.93	4,413.93	4,413.93	63.85	76.12	87.72	-5,559.12	5,644.16	7,205.09	7,065.23	139.87	51.513	
5,600.00	4,524.89	4,486.89	4,486.89	65.36	77.39	88.12	-5,559.12	5,644.16	7,201.69	7,059.01	142.68	50.474	
5,700.00	4,597.84	4,559.84	4,559.84	66.88	78.67	88.51	-5,559.12	5,644.16	7,198.93	7,053.44	145.49	49.480	
5,800.00	4,670.80	4,632.80	4,632.80	68.39	79.94	88.91	-5,559.12	5,644.16	7,196.82	7,048.53	148.30	48.530	
5,900.00	4,743.76	4,705.76	4,705.76	69.90	81.21	89.31	-5,559.12	5,644.16	7,195.36	7,044.26	151.10	47.620	
6,000.00	4,816.71	4,778.71	4,778.71	71.41	82.49	89.70	-5,559.12	5,644.16	7,194.55	7,040.66	153.90	46.749	
6,074.51	4,871.07	4,833.07	4,833.07	72.54	83.44	90.00	-5,559.12	5,644.16	7,194.37	7,038.40	155.98	46.125	
6,100.00	4,889.67	4,851.67	4,851.67	72.93	83.76	90.10	-5,559.12	5,644.16	7,194.40	7,037.71	156.69	45.915	
6,200.00	4,962.63	4,924.63	4,924.63	74.44	85.03	90.50	-5,559.12	5,644.16	7,194.89	7,035.41	159.47	45.116	
6,300.00	5,035.59	5,002.41	4,997.59	75.95	86.39	90.90	-5,559.12	5,644.16	7,196.03	7,033.69	162.34	44.327	
6,400.00	5,108.54	5,070.54	5,070.54	77.47	87.58	91.29	-5,559.12	5,644.16	7,197.82	7,032.79	165.03	43.616	
6,500.00	5,181.50	5,143.50	5,143.50	78.98	88.85	91.69	-5,559.12	5,644.16	7,200.26	7,032.46	167.79	42.911	
6,600.00	5,254.46	5,216.46	5,216.46	80.49	90.13	92.09	-5,559.12	5,644.16	7,203.34	7,032.79	170.55	42.235	
6,700.00	5,327.41	5,289.41	5,289.41	82.01	91.40	92.48	-5,559.12	5,644.16	7,207.08	7,033.77	173.31	41.586	
6,800.00	5,400.37	5,362.37	5,362.37	83.52	92.67	92.88	-5,559.12	5,644.16	7,211.46	7,035.41	176.05	40.962	
6,900.00	5,473.33	5,425.00	5,425.00	85.04	93.77	93.22	-5,559.12	5,644.16	7,216.50	7,037.89	178.61	40.404	
7,000.00	5,546.28	5,425.00	5,425.00	86.55	93.77	93.22	-5,559.12	5,644.16	7,222.64	7,042.60	180.04	40.117	
7,100.00	5,619.24	5,425.00	5,425.00	88.06	93.77	93.22	-5,559.12	5,644.16	7,230.17	7,048.72	181.45	39.847	
7,200.00	5,692.20	5,425.00	5,425.00	89.58	93.77	93.22	-5,559.12	5,644.16	7,239.06	7,056.24	182.82	39.596	
7,300.00	5,765.15	5,425.00	5,425.00	91.09	93.77	93.22	-5,559.12	5,644.16	7,249.33	7,065.16	184.17	39.362	
7,400.00	5,838.11	5,425.00	5,425.00	92.61	93.77	93.22	-5,559.12	5,644.16	7,260.96	7,075.47	185.49	39.145	
7,500.00	5,911.07	5,425.00	5,425.00	94.12	93.77	93.22	-5,559.12	5,644.16	7,273.94	7,087.16	186.78	38.944	
7,600.00	5,984.03	5,425.00	5,425.00	95.64	93.77	93.22	-5,559.12	5,644.16	7,288.27	7,100.24	188.04	38.760	
7,700.00	6,056.98	5,425.00	5,425.00	97.15	93.77	93.22	-5,559.12	5,644.16	7,303.95	7,114.69	189.26	38.592	
7,800.00	6,129.94	5,425.00	5,425.00	98.67	93.77	93.22	-5,559.12	5,644.16	7,320.96	7,130.50	190.46	38.439	
7,900.00	6,202.90	5,425.00	5,425.00	100.18	93.77	93.22	-5,559.12	5,644.16	7,339.29	7,147.66	191.62	38.301	
8,000.00	6,275.85	5,425.00	5,425.00	101.70	93.77	93.22	-5,559.12	5,644.16	7,358.93	7,166.18	192.76	38.178	
8,100.00	6,348.81	5,425.00	5,425.00	103.21	93.77	93.22	-5,559.12	5,644.16	7,379.88	7,186.02	193.86	38.069	
8,200.00	6,421.77	5,425.00	5,425.00	104.73	93.77	93.22	-5,559.12	5,644.16	7,402.12	7,207.19	194.93	37.974	
8,300.00	6,494.72	5,425.00	5,425.00	106.24	93.77	93.22	-5,559.12	5,644.16	7,425.63	7,229.67	195.96	37.893	
8,400.00	6,567.68	5,425.00	5,425.00	107.76	93.77	93.22	-5,559.12	5,644.16	7,450.42	7,253.45	196.97	37.825	
8,500.00	6,640.64	5,425.00	5,425.00	109.27	93.77	93.22	-5,559.12	5,644.16	7,476.46	7,278.52	197.94	37.771	
8,600.00	6,713.59	5,425.00	5,425.00	110.79	93.77	93.22	-5,559.12	5,644.16	7,503.75	7,304.86	198.89	37.729	
8,700.00	6,786.55	5,425.00	5,425.00	112.30	93.77	93.22	-5,559.12	5,644.16	7,532.26	7,332.46	199.80	37.699	
8,800.00	6,859.51	5,425.00	5,425.00	113.82	93.77	93.22	-5,559.12	5,644.16	7,561.99	7,361.31	200.68	37.682	
8,900.00	6,932.46	5,425.00	5,425.00	115.33	93.77	93.22	-5,559.12	5,644.16	7,592.92	7,391.39	201.53	37.676	
9,000.00	7,005.42	5,425.00	5,425.00	116.85	93.77	93.22	-5,559.12	5,644.16	7,625.03	7,422.68	202.35	37.682	
9,104.89	7,081.95	5,425.00	5,425.00	118.44	93.77	93.22	-5,559.12	5,644.16	7,659.98	7,456.80	203.18	37.700	
9,150.00	7,115.15	5,425.00	5,425.00	119.12	93.77	88.75	-5,559.12	5,644.16	7,673.75	7,470.23	203.53	37.704	
9,200.00	7,152.46	5,425.00	5,425.00	119.86	93.77	83.45	-5,559.12	5,644.16	7,685.40	7,481.50	203.91	37.691	
9,250.00	7,190.04	5,425.00	5,425.00	120.57	93.77	77.92	-5,559.12	5,644.16	7,693.18	7,488.91	204.27	37.662	
9,300.00	7,227.59	5,425.00	5,425.00	121.25	93.77	72.32	-5,559.12	5,644.16	7,697.03	7,492.42	204.61	37.617	
9,350.00	7,264.83	5,425.00	5,425.00	121.89	93.77	66.81	-5,559.12	5,644.16	7,696.94	7,492.00	204.93	37.558	
9,400.00	7,301.48	5,425.00	5,425.00	122.48	93.77	61.51	-5,559.12	5,644.16	7,692.90	7,487.68	205.22	37.486	
9,450.00	7,337.26	5,425.00	5,425.00	123.01	93.77	56.51	-5,559.12	5,644.16	7,684.94	7,479.46	205.48	37.401	
9,500.00	7,371.90	5,425.00	5,425.00	123.49	93.77	51.87	-5,559.12	5,644.16	7,673.11	7,467.42	205.69	37.304	
9,550.00	7,405.13	5,425.00	5,425.00	123.91	93.77	47.59	-5,559.12	5,644.16	7,657.48	7,451.61	205.87	37.196	
9,600.00	7,436.70	5,425.00	5,425.00	124.27	93.77	43.67	-5,559.12	5,644.16	7,638.14	7,432.14	206.00	37.078	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	5,425.00	5,425.00	124.57	93.77	40.07	-5,559.12	5,644.16	7,615.22	7,409.13	206.09	36.951	
9,700.00	7,493.91	5,425.00	5,425.00	124.81	93.77	36.72	-5,559.12	5,644.16	7,588.86	7,382.72	206.14	36.813	
9,750.00	7,519.11	5,425.00	5,425.00	125.00	93.77	33.56	-5,559.12	5,644.16	7,559.22	7,353.07	206.16	36.667	
9,800.00	7,541.79	5,425.00	5,425.00	125.12	93.77	30.50	-5,559.12	5,644.16	7,526.50	7,320.36	206.14	36.512	
9,850.00	7,561.77	5,425.00	5,425.00	125.20	93.77	27.45	-5,559.12	5,644.16	7,490.90	7,284.82	206.08	36.349	
9,900.00	7,578.90	5,425.00	5,425.00	125.23	93.77	24.26	-5,559.12	5,644.16	7,452.65	7,246.65	206.00	36.178	
9,950.00	7,593.04	5,425.00	5,425.00	125.22	93.77	20.76	-5,559.12	5,644.16	7,412.02	7,206.12	205.90	35.999	
10,000.00	7,604.09	5,425.00	5,425.00	125.17	93.77	16.65	-5,559.12	5,644.16	7,369.26	7,163.48	205.78	35.812	
10,050.00	7,611.97	5,425.00	5,425.00	125.08	93.77	11.52	-5,559.12	5,644.16	7,324.67	7,119.03	205.64	35.618	
10,100.00	7,616.61	5,425.00	5,425.00	124.97	93.77	4.65	-5,559.12	5,644.16	7,278.56	7,073.06	205.50	35.418	
10,145.95	7,618.00	5,425.00	5,425.00	124.84	93.77	-4.19	-5,559.12	5,644.16	7,235.12	7,029.75	205.37	35.229	
10,200.00	7,618.00	5,425.00	5,425.00	124.69	93.77	-4.19	-5,559.12	5,644.16	7,183.56	6,978.34	205.22	35.004	
10,300.00	7,618.00	5,425.00	5,425.00	124.41	93.77	-4.19	-5,559.12	5,644.16	7,088.25	6,883.32	204.93	34.588	
10,400.00	7,618.00	5,425.00	5,425.00	124.14	93.77	-4.19	-5,559.12	5,644.16	6,993.08	6,788.45	204.63	34.174	
10,500.00	7,618.00	5,425.00	5,425.00	123.88	93.77	-4.19	-5,559.12	5,644.16	6,898.04	6,693.72	204.32	33.761	
10,600.00	7,618.00	5,425.00	5,425.00	123.63	93.77	-4.19	-5,559.12	5,644.16	6,803.15	6,599.15	204.00	33.349	
10,700.00	7,618.00	5,425.00	5,425.00	123.40	93.77	-4.19	-5,559.12	5,644.16	6,708.40	6,504.73	203.67	32.938	
10,800.00	7,618.00	5,425.00	5,425.00	123.18	93.77	-4.19	-5,559.12	5,644.16	6,613.81	6,410.49	203.32	32.528	
10,900.00	7,618.00	5,425.00	5,425.00	122.96	93.77	-4.19	-5,559.12	5,644.16	6,519.38	6,316.41	202.97	32.120	
11,000.00	7,618.00	5,425.00	5,425.00	122.76	93.77	-4.19	-5,559.12	5,644.16	6,425.12	6,222.52	202.60	31.714	
11,100.00	7,618.00	5,425.00	5,425.00	122.57	93.77	-4.19	-5,559.12	5,644.16	6,331.03	6,128.82	202.21	31.309	
11,200.00	7,618.00	5,425.00	5,425.00	122.39	93.77	-4.19	-5,559.12	5,644.16	6,237.13	6,035.31	201.81	30.905	
11,300.00	7,618.00	5,425.00	5,425.00	122.23	93.77	-4.19	-5,559.12	5,644.16	6,143.42	5,942.02	201.40	30.504	
11,400.00	7,618.00	5,425.00	5,425.00	122.07	93.77	-4.19	-5,559.12	5,644.16	6,049.91	5,848.94	200.97	30.104	
11,500.00	7,618.00	5,425.00	5,425.00	121.93	93.77	-4.19	-5,559.12	5,644.16	5,956.61	5,756.09	200.52	29.706	
11,600.00	7,618.00	5,425.00	5,425.00	121.79	93.77	-4.19	-5,559.12	5,644.16	5,863.54	5,663.48	200.05	29.310	
11,700.00	7,618.00	5,425.00	5,425.00	121.67	93.77	-4.19	-5,559.12	5,644.16	5,770.69	5,571.12	199.57	28.916	
11,800.00	7,618.00	5,425.00	5,425.00	121.56	93.77	-4.19	-5,559.12	5,644.16	5,678.09	5,479.03	199.06	28.524	
11,900.00	7,618.00	5,425.00	5,425.00	121.46	93.77	-4.19	-5,559.12	5,644.16	5,585.74	5,387.21	198.54	28.135	
12,000.00	7,618.00	5,425.00	5,425.00	121.38	93.77	-4.19	-5,559.12	5,644.16	5,493.66	5,295.68	197.99	27.748	
12,100.00	7,618.00	5,425.00	5,425.00	121.30	93.77	-4.19	-5,559.12	5,644.16	5,401.87	5,204.46	197.41	27.363	
12,200.00	7,618.00	5,425.00	5,425.00	121.24	93.77	-4.19	-5,559.12	5,644.16	5,310.37	5,113.55	196.81	26.982	
12,300.00	7,618.00	5,425.00	5,425.00	121.19	93.77	-4.19	-5,559.12	5,644.16	5,219.18	5,022.99	196.19	26.603	
12,400.00	7,618.00	5,425.00	5,425.00	121.16	93.77	-4.19	-5,559.12	5,644.16	5,128.32	4,932.79	195.53	26.227	
12,500.00	7,618.00	5,425.00	5,425.00	121.14	93.77	-4.19	-5,559.12	5,644.16	5,037.80	4,842.96	194.85	25.855	
12,600.00	7,618.00	5,425.00	5,425.00	121.13	93.77	-4.19	-5,559.12	5,644.16	4,947.66	4,753.52	194.13	25.486	
12,700.00	7,618.00	5,425.00	5,425.00	121.13	93.77	-4.19	-5,559.12	5,644.16	4,857.89	4,664.51	193.38	25.121	
12,800.00	7,618.00	5,425.00	5,425.00	121.15	93.77	-4.19	-5,559.12	5,644.16	4,768.54	4,575.94	192.60	24.759	
12,900.00	7,618.00	5,425.00	5,425.00	121.18	93.77	-4.19	-5,559.12	5,644.16	4,679.61	4,487.84	191.77	24.402	
13,000.00	7,618.00	5,425.00	5,425.00	121.23	93.77	-4.19	-5,559.12	5,644.16	4,591.14	4,400.24	190.91	24.049	
13,100.00	7,618.00	5,425.00	5,425.00	121.29	93.77	-4.19	-5,559.12	5,644.16	4,503.16	4,313.16	190.00	23.701	
13,200.00	7,618.00	5,425.00	5,425.00	121.37	93.77	-4.19	-5,559.12	5,644.16	4,415.68	4,226.64	189.04	23.358	
13,300.00	7,618.00	5,425.00	5,425.00	121.46	93.77	-4.19	-5,559.12	5,644.16	4,328.75	4,140.71	188.04	23.020	
13,400.00	7,618.00	5,425.00	5,425.00	121.57	93.77	-4.19	-5,559.12	5,644.16	4,242.39	4,055.40	186.99	22.688	
13,500.00	7,618.00	5,425.00	5,425.00	121.70	93.77	-4.19	-5,559.12	5,644.16	4,156.65	3,970.77	185.88	22.362	
13,600.00	7,618.00	5,425.00	5,425.00	121.84	93.77	-4.19	-5,559.12	5,644.16	4,071.55	3,886.84	184.71	22.043	
13,700.00	7,618.00	5,425.00	5,425.00	122.01	93.77	-4.19	-5,559.12	5,644.16	3,987.15	3,803.67	183.48	21.731	
13,800.00	7,618.00	5,425.00	5,425.00	122.19	93.77	-4.19	-5,559.12	5,644.16	3,903.48	3,721.30	182.19	21.426	
13,900.00	7,618.00	5,425.00	5,425.00	122.39	93.77	-4.19	-5,559.12	5,644.16	3,820.60	3,639.78	180.82	21.129	
14,000.00	7,618.00	5,425.00	5,425.00	122.62	93.77	-4.19	-5,559.12	5,644.16	3,738.56	3,559.18	179.38	20.841	
14,100.00	7,618.00	5,425.00	5,425.00	122.86	93.77	-4.19	-5,559.12	5,644.16	3,657.41	3,479.54	177.87	20.563	
14,200.00	7,618.00	5,425.00	5,425.00	123.12	93.77	-4.19	-5,559.12	5,644.16	3,577.22	3,400.95	176.27	20.294	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	5,425.00	5,425.00	123.41	93.77	-4.19	-5,559.12	5,644.16	3,498.04	3,323.46	174.58	20.037	
14,400.00	7,618.00	5,425.00	5,425.00	123.72	93.77	-4.19	-5,559.12	5,644.16	3,419.96	3,247.15	172.81	19.791	
14,500.00	7,618.00	5,425.00	5,425.00	124.06	93.77	-4.19	-5,559.12	5,644.16	3,343.04	3,172.11	170.93	19.558	
14,600.00	7,618.00	5,425.00	5,425.00	124.42	93.77	-4.19	-5,559.12	5,644.16	3,267.38	3,098.42	168.96	19.338	
14,700.00	7,618.00	5,425.00	5,425.00	124.80	93.77	-4.19	-5,559.12	5,644.16	3,193.05	3,026.17	166.88	19.134	
14,800.00	7,618.00	5,425.00	5,425.00	125.21	93.77	-4.19	-5,559.12	5,644.16	3,120.16	2,955.46	164.70	18.945	
14,900.00	7,618.00	5,425.00	5,425.00	125.65	93.77	-4.19	-5,559.12	5,644.16	3,048.81	2,886.41	162.40	18.773	
15,000.00	7,618.00	5,425.00	5,425.00	126.11	93.77	-4.19	-5,559.12	5,644.16	2,979.10	2,819.11	159.99	18.620	
15,100.00	7,618.00	5,425.00	5,425.00	126.61	93.77	-4.19	-5,559.12	5,644.16	2,911.16	2,753.69	157.47	18.487	
15,200.00	7,618.00	5,425.00	5,425.00	127.13	93.77	-4.19	-5,559.12	5,644.16	2,845.12	2,690.28	154.83	18.375	
15,300.00	7,618.00	5,425.00	5,425.00	127.68	93.77	-4.19	-5,559.12	5,644.16	2,781.10	2,629.02	152.09	18.286	
15,400.00	7,618.00	5,425.00	5,425.00	128.26	93.77	-4.19	-5,559.12	5,644.16	2,719.26	2,570.03	149.23	18.222	
15,500.00	7,618.00	5,425.00	5,425.00	128.87	93.77	-4.19	-5,559.12	5,644.16	2,659.73	2,513.46	146.27	18.184	
15,600.00	7,618.00	5,425.00	5,425.00	129.51	93.77	-4.19	-5,559.12	5,644.16	2,602.69	2,459.47	143.22	18.172	
15,700.00	7,618.00	5,425.00	5,425.00	130.18	93.77	-4.19	-5,559.12	5,644.16	2,548.30	2,408.20	140.09	18.190	
15,800.00	7,618.00	5,425.00	5,425.00	130.88	93.77	-4.19	-5,559.12	5,644.16	2,496.73	2,359.82	136.91	18.237	
15,900.00	7,618.00	5,425.00	5,425.00	131.61	93.77	-4.19	-5,559.12	5,644.16	2,448.16	2,314.48	133.68	18.314	
16,000.00	7,618.00	5,425.00	5,425.00	132.37	93.77	-4.19	-5,559.12	5,644.16	2,402.77	2,272.33	130.44	18.421	
16,100.00	7,618.00	5,425.00	5,425.00	133.17	93.77	-4.19	-5,559.12	5,644.16	2,360.74	2,233.53	127.22	18.557	
16,200.00	7,618.00	5,425.00	5,425.00	133.99	93.77	-4.19	-5,559.12	5,644.16	2,322.27	2,198.21	124.06	18.720	
16,300.00	7,618.00	5,425.00	5,425.00	134.84	93.77	-4.19	-5,559.12	5,644.16	2,287.52	2,166.52	121.00	18.905	
16,400.00	7,618.00	5,425.00	5,425.00	135.72	93.77	-4.19	-5,559.12	5,644.16	2,256.68	2,138.57	118.10	19.107	
16,500.00	7,618.00	5,425.00	5,425.00	136.63	93.77	-4.19	-5,559.12	5,644.16	2,229.89	2,114.45	115.44	19.316	
16,600.00	7,618.00	5,425.00	5,425.00	137.57	93.77	-4.19	-5,559.12	5,644.16	2,207.31	2,094.21	113.10	19.517	
16,700.00	7,618.00	5,425.00	5,425.00	138.54	93.77	-4.19	-5,559.12	5,644.16	2,189.08	2,077.88	111.19	19.687	
16,800.00	7,618.00	5,425.00	5,425.00	139.53	93.77	-4.19	-5,559.12	5,644.16	2,175.29	2,065.41	109.88	19.797	
16,900.00	7,618.00	5,425.00	5,425.00	140.55	93.77	-4.19	-5,559.12	5,644.16	2,166.03	2,056.68	109.35	19.808	
17,000.00	7,618.00	5,425.00	5,425.00	141.60	93.77	-4.19	-5,559.12	5,644.16	2,161.37	2,051.57	109.80	19.684	
17,050.88	7,618.00	5,425.00	5,425.00	142.14	93.77	-4.19	-5,559.12	5,644.16	2,160.77	2,050.32	110.46	19.562	CC
17,100.00	7,618.00	5,425.00	5,425.00	142.67	93.77	-4.19	-5,559.12	5,644.16	2,161.33	2,049.96	111.37	19.408	ES
17,200.00	7,618.00	5,425.00	5,425.00	143.77	93.77	-4.19	-5,559.12	5,644.16	2,165.91	2,051.90	114.01	18.997	
17,300.00	7,618.00	5,425.00	5,425.00	144.88	93.77	-4.19	-5,559.12	5,644.16	2,175.08	2,057.52	117.57	18.501	
17,400.00	7,618.00	5,425.00	5,425.00	146.02	93.77	-4.19	-5,559.12	5,644.16	2,188.79	2,067.01	121.78	17.973	
17,500.00	7,618.00	5,425.00	5,425.00	147.19	93.77	-4.19	-5,559.12	5,644.16	2,206.95	2,080.53	126.42	17.457	
17,600.00	7,618.00	5,425.00	5,425.00	148.37	93.77	-4.19	-5,559.12	5,644.16	2,229.45	2,098.16	131.29	16.981	
17,700.00	7,618.00	5,425.00	5,425.00	149.57	93.77	-4.19	-5,559.12	5,644.16	2,256.17	2,119.90	136.26	16.558	
17,800.00	7,618.00	5,425.00	5,425.00	150.79	93.77	-4.19	-5,559.12	5,644.16	2,286.94	2,145.72	141.22	16.194	
17,900.00	7,618.00	5,425.00	5,425.00	152.03	93.77	-4.19	-5,559.12	5,644.16	2,321.62	2,175.53	146.09	15.891	
18,000.00	7,618.00	5,425.00	5,425.00	153.29	93.77	-4.19	-5,559.12	5,644.16	2,360.03	2,209.20	150.83	15.647	
18,100.00	7,618.00	5,425.00	5,425.00	154.57	93.77	-4.19	-5,559.12	5,644.16	2,402.00	2,246.61	155.39	15.458	
18,200.00	7,618.00	5,425.00	5,425.00	155.86	93.77	-4.19	-5,559.12	5,644.16	2,447.33	2,287.58	159.74	15.320	
18,300.00	7,618.00	5,425.00	5,425.00	157.17	93.77	-4.19	-5,559.12	5,644.16	2,495.84	2,331.96	163.88	15.229	
18,400.00	7,618.00	5,425.00	5,425.00	158.49	93.77	-4.19	-5,559.12	5,644.16	2,547.36	2,379.57	167.79	15.182	
18,500.00	7,618.00	5,425.00	5,425.00	159.82	93.77	-4.19	-5,559.12	5,644.16	2,601.71	2,430.23	171.47	15.173	SF
18,600.00	7,618.00	5,425.00	5,425.00	161.17	93.77	-4.19	-5,559.12	5,644.16	2,658.70	2,483.77	174.93	15.199	
18,700.00	7,618.00	5,425.00	5,425.00	162.54	93.77	-4.19	-5,559.12	5,644.16	2,718.18	2,540.02	178.16	15.257	
18,800.00	7,618.00	5,425.00	5,425.00	163.91	93.77	-4.19	-5,559.12	5,644.16	2,779.99	2,598.81	181.18	15.344	
18,900.00	7,618.00	5,425.00	5,425.00	165.30	93.77	-4.19	-5,559.12	5,644.16	2,843.97	2,659.98	183.99	15.457	
19,000.00	7,618.00	5,425.00	5,425.00	166.70	93.77	-4.19	-5,559.12	5,644.16	2,909.98	2,723.38	186.60	15.595	
19,100.00	7,618.00	5,425.00	5,425.00	168.10	93.77	-4.19	-5,559.12	5,644.16	2,977.89	2,788.85	189.03	15.753	
19,200.00	7,618.00	5,425.00	5,425.00	169.52	93.77	-4.19	-5,559.12	5,644.16	3,047.56	2,856.27	191.29	15.931	
19,300.00	7,618.00	5,425.00	5,425.00	170.95	93.77	-4.19	-5,559.12	5,644.16	3,118.89	2,925.50	193.39	16.128	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	5,425.00	5,425.00	172.39	93.77	-4.19	-5,559.12	5,644.16	3,191.75	2,996.42	195.33	16.340	
19,500.00	7,618.00	5,425.00	5,425.00	173.84	93.77	-4.19	-5,559.12	5,644.16	3,266.05	3,068.92	197.14	16.567	
19,600.00	7,618.00	5,425.00	5,425.00	175.30	93.77	-4.19	-5,559.12	5,644.16	3,341.70	3,142.89	198.81	16.808	
19,700.00	7,618.00	5,425.00	5,425.00	176.76	93.77	-4.19	-5,559.12	5,644.16	3,418.59	3,218.23	200.36	17.062	
19,800.00	7,618.00	5,425.00	5,425.00	178.24	93.77	-4.19	-5,559.12	5,644.16	3,496.65	3,294.85	201.81	17.327	
19,896.19	7,618.00	5,425.00	5,425.00	179.66	93.77	-4.19	-5,559.12	5,644.16	3,572.77	3,369.68	203.10	17.592	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	134.41	-4,237.03	4,324.54	6,054.35				
100.00	100.00	66.00	66.00	0.13	0.52	134.41	-4,237.03	4,324.54	6,054.26	6,053.60	0.65	9,274.426	
200.00	200.00	166.00	166.00	0.49	1.94	134.41	-4,237.03	4,324.54	6,054.26	6,051.83	2.43	2,491.243	
300.00	299.98	265.98	265.98	0.85	3.68	65.13	-4,237.03	4,324.54	6,053.52	6,048.99	4.53	1,336.418	
400.00	399.84	365.84	365.84	1.21	5.43	65.21	-4,237.03	4,324.54	6,051.32	6,044.69	6.63	912.610	
500.00	499.45	465.45	465.45	1.58	7.16	65.35	-4,237.03	4,324.54	6,047.67	6,038.93	8.74	692.050	
600.00	598.70	564.70	564.70	1.97	8.90	65.55	-4,237.03	4,324.54	6,042.57	6,031.71	10.86	556.624	
700.00	697.47	663.47	663.47	2.38	10.62	65.80	-4,237.03	4,324.54	6,036.06	6,023.07	12.98	464.856	
800.00	795.62	761.62	761.62	2.83	12.33	66.11	-4,237.03	4,324.54	6,028.16	6,013.03	15.13	398.446	
900.00	893.06	859.06	859.06	3.31	14.03	66.47	-4,237.03	4,324.54	6,018.92	6,001.63	17.29	348.072	
1,000.00	989.64	955.64	955.64	3.83	15.72	66.89	-4,237.03	4,324.54	6,008.37	5,988.89	19.48	308.489	
1,100.00	1,085.27	1,051.27	1,051.27	4.40	17.39	67.35	-4,237.03	4,324.54	5,996.57	5,974.88	21.69	276.518	
1,200.00	1,179.82	1,145.82	1,145.82	5.02	19.04	67.87	-4,237.03	4,324.54	5,983.56	5,959.64	23.92	250.125	
1,300.00	1,273.17	1,239.17	1,239.17	5.70	20.67	68.44	-4,237.03	4,324.54	5,969.42	5,943.23	26.19	227.942	
1,400.00	1,365.21	1,331.21	1,331.21	6.43	22.27	69.05	-4,237.03	4,324.54	5,954.21	5,925.72	28.49	209.022	
1,500.00	1,455.84	1,421.84	1,421.84	7.23	23.86	69.71	-4,237.03	4,324.54	5,938.00	5,907.18	30.82	192.683	
1,600.00	1,544.94	1,510.94	1,510.94	8.09	25.41	70.41	-4,237.03	4,324.54	5,920.88	5,887.69	33.18	178.425	
1,700.00	1,632.39	1,601.61	1,598.39	9.01	26.99	71.14	-4,237.03	4,324.54	5,902.92	5,867.28	35.64	165.609	
1,800.00	1,718.11	1,684.11	1,684.11	10.00	28.43	71.92	-4,237.03	4,324.54	5,884.22	5,846.19	38.03	154.729	
1,900.00	1,801.97	1,767.97	1,767.97	11.07	29.90	72.73	-4,237.03	4,324.54	5,864.88	5,824.37	40.51	144.778	
2,000.00	1,883.88	1,849.88	1,849.88	12.20	31.33	73.57	-4,237.03	4,324.54	5,844.99	5,801.96	43.03	135.837	
2,100.00	1,963.74	1,929.74	1,929.74	13.41	32.72	74.43	-4,237.03	4,324.54	5,824.65	5,779.06	45.59	127.765	
2,200.00	2,041.45	2,007.45	2,007.45	14.69	34.08	75.31	-4,237.03	4,324.54	5,803.97	5,755.78	48.19	120.445	
2,300.00	2,116.92	2,082.92	2,082.92	16.05	35.39	76.21	-4,237.03	4,324.54	5,783.06	5,732.24	50.83	113.781	
2,357.48	2,159.25	2,125.25	2,125.25	16.86	36.13	76.73	-4,237.03	4,324.54	5,770.99	5,718.63	52.36	110.219	
2,400.00	2,190.27	2,156.27	2,156.27	17.47	36.67	76.94	-4,237.03	4,324.54	5,762.11	5,708.61	53.50	107.704	
2,500.00	2,263.22	2,229.22	2,229.22	18.92	37.95	77.44	-4,237.03	4,324.54	5,741.77	5,685.57	56.20	102.168	
2,600.00	2,336.18	2,302.18	2,302.18	20.37	39.22	77.94	-4,237.03	4,324.54	5,722.16	5,663.25	58.92	97.122	
2,700.00	2,409.14	2,375.14	2,375.14	21.84	40.49	78.43	-4,237.03	4,324.54	5,703.32	5,641.66	61.65	92.508	
2,800.00	2,482.09	2,448.09	2,448.09	23.31	41.77	78.94	-4,237.03	4,324.54	5,685.23	5,620.83	64.40	88.279	
2,900.00	2,555.05	2,521.05	2,521.05	24.78	43.04	79.44	-4,237.03	4,324.54	5,667.91	5,600.74	67.16	84.393	
3,000.00	2,628.01	2,605.99	2,594.01	26.27	44.52	79.94	-4,237.03	4,324.54	5,651.36	5,581.22	70.14	80.570	
3,100.00	2,700.96	2,666.96	2,666.96	27.75	45.59	80.45	-4,237.03	4,324.54	5,635.59	5,562.88	72.71	77.504	
3,200.00	2,773.92	2,739.92	2,739.92	29.24	46.86	80.95	-4,237.03	4,324.54	5,620.62	5,545.11	75.50	74.443	
3,300.00	2,846.88	2,812.88	2,812.88	30.73	48.13	81.46	-4,237.03	4,324.54	5,606.43	5,528.14	78.30	71.603	
3,400.00	2,919.83	2,885.83	2,885.83	32.23	49.41	81.97	-4,237.03	4,324.54	5,593.05	5,511.95	81.10	68.964	
3,500.00	2,992.79	2,958.79	2,958.79	33.72	50.68	82.48	-4,237.03	4,324.54	5,580.48	5,496.57	83.91	66.506	
3,600.00	3,065.75	3,031.75	3,031.75	35.22	51.95	83.00	-4,237.03	4,324.54	5,568.71	5,481.99	86.72	64.214	
3,700.00	3,138.71	3,104.71	3,104.71	36.72	53.23	83.51	-4,237.03	4,324.54	5,557.76	5,468.23	89.54	62.073	
3,800.00	3,211.66	3,177.66	3,177.66	38.22	54.50	84.02	-4,237.03	4,324.54	5,547.64	5,455.28	92.35	60.069	
3,900.00	3,284.62	3,250.62	3,250.62	39.72	55.77	84.54	-4,237.03	4,324.54	5,538.34	5,443.16	95.17	58.192	
4,000.00	3,357.58	3,323.58	3,323.58	41.22	57.05	85.06	-4,237.03	4,324.54	5,529.87	5,431.87	97.99	56.431	
4,100.00	3,430.53	3,403.47	3,396.53	42.73	58.44	85.57	-4,237.03	4,324.54	5,522.23	5,421.30	100.94	54.710	
4,200.00	3,503.49	3,469.49	3,469.49	44.23	59.59	86.09	-4,237.03	4,324.54	5,515.43	5,411.80	103.63	53.220	
4,300.00	3,576.45	3,542.45	3,542.45	45.74	60.87	86.61	-4,237.03	4,324.54	5,509.48	5,403.02	106.45	51.755	
4,400.00	3,649.40	3,615.40	3,615.40	47.25	62.14	87.13	-4,237.03	4,324.54	5,504.36	5,395.09	109.27	50.374	
4,500.00	3,722.36	3,688.36	3,688.36	48.75	63.41	87.65	-4,237.03	4,324.54	5,500.09	5,388.01	112.08	49.072	
4,600.00	3,795.32	3,761.32	3,761.32	50.26	64.69	88.17	-4,237.03	4,324.54	5,496.67	5,381.78	114.89	47.842	
4,700.00	3,868.27	3,834.27	3,834.27	51.77	65.96	88.69	-4,237.03	4,324.54	5,494.10	5,376.40	117.70	46.680	
4,800.00	3,941.23	3,907.23	3,907.23	53.28	67.23	89.21	-4,237.03	4,324.54	5,492.38	5,371.88	120.50	45.581	
4,900.00	4,014.19	3,980.19	3,980.19	54.79	68.51	89.73	-4,237.03	4,324.54	5,491.51	5,368.22	123.29	44.541	
4,952.15	4,052.24	4,018.24	4,018.24	55.58	69.17	90.00	-4,237.03	4,324.54	5,491.39	5,366.65	124.75	44.020	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,087.15	4,053.15	4,053.15	56.30	69.78	90.25	-4,237.03	4,324.54	5,491.49	5,365.41	126.08	43.556	
5,100.00	4,160.10	4,126.10	4,126.10	57.81	71.05	90.77	-4,237.03	4,324.54	5,492.32	5,363.46	128.86	42.623	
5,200.00	4,233.06	4,200.94	4,199.06	59.32	72.36	91.29	-4,237.03	4,324.54	5,494.01	5,362.34	131.66	41.727	
5,300.00	4,306.02	4,272.02	4,272.02	60.83	73.60	91.81	-4,237.03	4,324.54	5,496.54	5,362.15	134.40	40.898	
5,400.00	4,378.97	4,344.97	4,344.97	62.34	74.87	92.33	-4,237.03	4,324.54	5,499.93	5,362.78	137.15	40.101	
5,500.00	4,451.93	4,417.93	4,417.93	63.85	76.15	92.85	-4,237.03	4,324.54	5,504.16	5,364.26	139.90	39.345	
5,600.00	4,524.89	4,509.11	4,490.89	65.36	77.74	93.37	-4,237.03	4,324.54	5,509.24	5,366.29	142.95	38.540	
5,700.00	4,597.84	4,563.84	4,563.84	66.88	78.69	93.89	-4,237.03	4,324.54	5,515.16	5,369.81	145.35	37.943	
5,800.00	4,670.80	4,636.80	4,636.80	68.39	79.97	94.41	-4,237.03	4,324.54	5,521.92	5,373.86	148.06	37.294	
5,900.00	4,743.76	4,709.76	4,709.76	69.90	81.24	94.92	-4,237.03	4,324.54	5,529.52	5,378.76	150.76	36.676	
6,000.00	4,816.71	4,782.71	4,782.71	71.41	82.51	95.44	-4,237.03	4,324.54	5,537.96	5,384.50	153.45	36.089	
6,100.00	4,889.67	4,855.67	4,855.67	72.93	83.79	95.95	-4,237.03	4,324.54	5,547.22	5,391.09	156.13	35.530	
6,200.00	4,962.63	4,928.63	4,928.63	74.44	85.06	96.47	-4,237.03	4,324.54	5,557.31	5,398.52	158.79	34.999	
6,300.00	5,035.59	5,001.59	5,001.59	75.95	86.33	96.98	-4,237.03	4,324.54	5,568.22	5,406.79	161.43	34.492	
6,400.00	5,108.54	5,074.54	5,074.54	77.47	87.61	97.49	-4,237.03	4,324.54	5,579.95	5,415.89	164.07	34.010	
6,500.00	5,181.50	5,147.50	5,147.50	78.98	88.88	98.01	-4,237.03	4,324.54	5,592.49	5,425.81	166.68	33.552	
6,600.00	5,254.46	5,220.46	5,220.46	80.49	90.15	98.52	-4,237.03	4,324.54	5,605.84	5,436.56	169.29	33.115	
6,700.00	5,327.41	5,306.59	5,293.41	82.01	91.66	99.02	-4,237.03	4,324.54	5,619.99	5,447.89	172.10	32.655	
6,800.00	5,400.37	5,366.37	5,366.37	83.52	92.70	99.53	-4,237.03	4,324.54	5,634.93	5,460.49	174.44	32.302	
6,900.00	5,473.33	5,439.33	5,439.33	85.04	93.97	100.04	-4,237.03	4,324.54	5,650.66	5,473.66	177.00	31.925	
7,000.00	5,546.28	5,450.00	5,450.00	86.55	94.16	100.11	-4,237.03	4,324.54	5,667.52	5,489.10	178.42	31.765	
7,100.00	5,619.24	5,450.00	5,450.00	88.06	94.16	100.11	-4,237.03	4,324.54	5,686.07	5,506.47	179.60	31.660	
7,200.00	5,692.20	5,450.00	5,450.00	89.58	94.16	100.11	-4,237.03	4,324.54	5,706.32	5,525.59	180.73	31.573	
7,300.00	5,765.15	5,450.00	5,450.00	91.09	94.16	100.11	-4,237.03	4,324.54	5,728.24	5,546.42	181.82	31.505	
7,400.00	5,838.11	5,450.00	5,450.00	92.61	94.16	100.11	-4,237.03	4,324.54	5,751.82	5,568.96	182.86	31.455	
7,500.00	5,911.07	5,450.00	5,450.00	94.12	94.16	100.11	-4,237.03	4,324.54	5,777.03	5,593.18	183.85	31.422	
7,600.00	5,984.03	5,450.00	5,450.00	95.64	94.16	100.11	-4,237.03	4,324.54	5,803.85	5,619.06	184.80	31.407	
7,700.00	6,056.98	5,450.00	5,450.00	97.15	94.16	100.11	-4,237.03	4,324.54	5,832.27	5,646.58	185.69	31.408	
7,800.00	6,129.94	5,450.00	5,450.00	98.67	94.16	100.11	-4,237.03	4,324.54	5,862.25	5,675.71	186.55	31.425	
7,900.00	6,202.90	5,450.00	5,450.00	100.18	94.16	100.11	-4,237.03	4,324.54	5,893.78	5,706.43	187.35	31.458	
8,000.00	6,275.85	5,450.00	5,450.00	101.70	94.16	100.11	-4,237.03	4,324.54	5,926.83	5,738.71	188.12	31.506	
8,100.00	6,348.81	5,450.00	5,450.00	103.21	94.16	100.11	-4,237.03	4,324.54	5,961.37	5,772.54	188.84	31.569	
8,200.00	6,421.77	5,450.00	5,450.00	104.73	94.16	100.11	-4,237.03	4,324.54	5,997.39	5,807.87	189.51	31.646	
8,300.00	6,494.72	5,450.00	5,450.00	106.24	94.16	100.11	-4,237.03	4,324.54	6,034.84	5,844.69	190.15	31.737	
8,400.00	6,567.68	5,450.00	5,450.00	107.76	94.16	100.11	-4,237.03	4,324.54	6,073.71	5,882.97	190.74	31.842	
8,500.00	6,640.64	5,450.00	5,450.00	109.27	94.16	100.11	-4,237.03	4,324.54	6,113.97	5,922.67	191.30	31.960	
8,600.00	6,713.59	5,450.00	5,450.00	110.79	94.16	100.11	-4,237.03	4,324.54	6,155.59	5,963.77	191.82	32.091	
8,700.00	6,786.55	5,450.00	5,450.00	112.30	94.16	100.11	-4,237.03	4,324.54	6,198.54	6,006.25	192.30	32.234	
8,800.00	6,859.51	5,450.00	5,450.00	113.82	94.16	100.11	-4,237.03	4,324.54	6,242.80	6,050.06	192.74	32.390	
8,900.00	6,932.46	5,450.00	5,450.00	115.33	94.16	100.11	-4,237.03	4,324.54	6,288.34	6,095.19	193.15	32.557	
9,000.00	7,005.42	5,450.00	5,450.00	116.85	94.16	100.11	-4,237.03	4,324.54	6,335.13	6,141.61	193.52	32.736	
9,104.89	7,081.95	5,450.00	5,450.00	118.44	94.16	100.11	-4,237.03	4,324.54	6,385.53	6,191.64	193.88	32.935	
9,150.00	7,115.15	5,450.00	5,450.00	119.12	94.16	95.55	-4,237.03	4,324.54	6,406.04	6,212.01	194.03	33.016	
9,200.00	7,152.46	5,450.00	5,450.00	119.86	94.16	90.19	-4,237.03	4,324.54	6,425.34	6,231.16	194.19	33.089	
9,250.00	7,190.04	5,450.00	5,450.00	120.57	94.16	84.64	-4,237.03	4,324.54	6,440.91	6,246.57	194.34	33.143	
9,300.00	7,227.59	5,450.00	5,450.00	121.25	94.16	79.07	-4,237.03	4,324.54	6,452.66	6,258.19	194.47	33.180	
9,350.00	7,264.83	5,450.00	5,450.00	121.89	94.16	73.62	-4,237.03	4,324.54	6,460.52	6,265.93	194.59	33.201	
9,400.00	7,301.48	5,450.00	5,450.00	122.48	94.16	68.43	-4,237.03	4,324.54	6,464.44	6,269.76	194.68	33.205	
9,450.00	7,337.26	5,450.00	5,450.00	123.01	94.16	63.60	-4,237.03	4,324.54	6,464.41	6,269.66	194.75	33.193	
9,500.00	7,371.90	5,450.00	5,450.00	123.49	94.16	59.18	-4,237.03	4,324.54	6,460.42	6,265.63	194.79	33.166	
9,550.00	7,405.13	5,450.00	5,450.00	123.91	94.16	55.18	-4,237.03	4,324.54	6,452.50	6,257.70	194.80	33.124	
9,600.00	7,436.70	5,450.00	5,450.00	124.27	94.16	51.62	-4,237.03	4,324.54	6,440.69	6,245.91	194.77	33.068	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	5,450.00	5,450.00	124.57	94.16	48.46	-4,237.03	4,324.54	6,425.05	6,230.34	194.71	32.997	
9,700.00	7,493.91	5,450.00	5,450.00	124.81	94.16	45.66	-4,237.03	4,324.54	6,405.70	6,211.07	194.62	32.913	
9,750.00	7,519.11	5,450.00	5,450.00	125.00	94.16	43.19	-4,237.03	4,324.54	6,382.72	6,188.22	194.51	32.815	
9,800.00	7,541.79	5,450.00	5,450.00	125.12	94.16	41.00	-4,237.03	4,324.54	6,356.27	6,161.91	194.36	32.704	
9,850.00	7,561.77	5,450.00	5,450.00	125.20	94.16	39.05	-4,237.03	4,324.54	6,326.50	6,132.31	194.19	32.579	
9,900.00	7,578.90	5,450.00	5,450.00	125.23	94.16	37.28	-4,237.03	4,324.54	6,293.60	6,099.60	194.00	32.441	
9,950.00	7,593.04	5,450.00	5,450.00	125.22	94.16	35.64	-4,237.03	4,324.54	6,257.76	6,063.96	193.80	32.290	
10,000.00	7,604.09	5,450.00	5,450.00	125.17	94.16	34.07	-4,237.03	4,324.54	6,219.21	6,025.62	193.59	32.126	
10,050.00	7,611.97	5,450.00	5,450.00	125.08	94.16	32.46	-4,237.03	4,324.54	6,178.20	5,984.83	193.38	31.949	
10,100.00	7,616.61	5,450.00	5,450.00	124.97	94.16	30.67	-4,237.03	4,324.54	6,134.99	5,941.82	193.17	31.759	
10,145.95	7,618.00	5,450.00	5,450.00	124.84	94.16	28.66	-4,237.03	4,324.54	6,093.59	5,900.60	192.99	31.575	
10,200.00	7,618.00	5,450.00	5,450.00	124.69	94.16	28.66	-4,237.03	4,324.54	6,044.07	5,851.29	192.78	31.352	
10,300.00	7,618.00	5,450.00	5,450.00	124.41	94.16	28.66	-4,237.03	4,324.54	5,952.66	5,760.28	192.38	30.943	
10,400.00	7,618.00	5,450.00	5,450.00	124.14	94.16	28.66	-4,237.03	4,324.54	5,861.53	5,669.57	191.96	30.536	
10,500.00	7,618.00	5,450.00	5,450.00	123.88	94.16	28.66	-4,237.03	4,324.54	5,770.69	5,579.17	191.52	30.131	
10,600.00	7,618.00	5,450.00	5,450.00	123.63	94.16	28.66	-4,237.03	4,324.54	5,680.16	5,489.10	191.06	29.730	
10,700.00	7,618.00	5,450.00	5,450.00	123.40	94.16	28.66	-4,237.03	4,324.54	5,589.95	5,399.37	190.58	29.331	
10,800.00	7,618.00	5,450.00	5,450.00	123.18	94.16	28.66	-4,237.03	4,324.54	5,500.08	5,310.00	190.08	28.935	
10,900.00	7,618.00	5,450.00	5,450.00	122.96	94.16	28.66	-4,237.03	4,324.54	5,410.57	5,221.01	189.56	28.543	
11,000.00	7,618.00	5,450.00	5,450.00	122.76	94.16	28.66	-4,237.03	4,324.54	5,321.43	5,132.42	189.01	28.154	
11,100.00	7,618.00	5,450.00	5,450.00	122.57	94.16	28.66	-4,237.03	4,324.54	5,232.68	5,044.25	188.44	27.769	
11,200.00	7,618.00	5,450.00	5,450.00	122.39	94.16	28.66	-4,237.03	4,324.54	5,144.35	4,956.52	187.83	27.388	
11,300.00	7,618.00	5,450.00	5,450.00	122.23	94.16	28.66	-4,237.03	4,324.54	5,056.45	4,869.25	187.20	27.011	
11,400.00	7,618.00	5,450.00	5,450.00	122.07	94.16	28.66	-4,237.03	4,324.54	4,969.01	4,782.47	186.54	26.638	
11,500.00	7,618.00	5,450.00	5,450.00	121.93	94.16	28.66	-4,237.03	4,324.54	4,882.05	4,696.21	185.84	26.270	
11,600.00	7,618.00	5,450.00	5,450.00	121.79	94.16	28.66	-4,237.03	4,324.54	4,795.60	4,610.48	185.11	25.907	
11,700.00	7,618.00	5,450.00	5,450.00	121.67	94.16	28.66	-4,237.03	4,324.54	4,709.68	4,525.34	184.34	25.549	
11,800.00	7,618.00	5,450.00	5,450.00	121.56	94.16	28.66	-4,237.03	4,324.54	4,624.33	4,440.80	183.53	25.196	
11,900.00	7,618.00	5,450.00	5,450.00	121.46	94.16	28.66	-4,237.03	4,324.54	4,539.58	4,356.90	182.68	24.849	
12,000.00	7,618.00	5,450.00	5,450.00	121.38	94.16	28.66	-4,237.03	4,324.54	4,455.46	4,273.67	181.79	24.509	
12,100.00	7,618.00	5,450.00	5,450.00	121.30	94.16	28.66	-4,237.03	4,324.54	4,372.01	4,191.16	180.85	24.175	
12,200.00	7,618.00	5,450.00	5,450.00	121.24	94.16	28.66	-4,237.03	4,324.54	4,289.27	4,109.41	179.86	23.848	
12,300.00	7,618.00	5,450.00	5,450.00	121.19	94.16	28.66	-4,237.03	4,324.54	4,207.28	4,028.47	178.81	23.529	
12,400.00	7,618.00	5,450.00	5,450.00	121.16	94.16	28.66	-4,237.03	4,324.54	4,126.08	3,948.37	177.71	23.218	
12,500.00	7,618.00	5,450.00	5,450.00	121.14	94.16	28.66	-4,237.03	4,324.54	4,045.73	3,869.18	176.55	22.915	
12,600.00	7,618.00	5,450.00	5,450.00	121.13	94.16	28.66	-4,237.03	4,324.54	3,966.26	3,790.94	175.33	22.622	
12,700.00	7,618.00	5,450.00	5,450.00	121.13	94.16	28.66	-4,237.03	4,324.54	3,887.75	3,713.71	174.04	22.338	
12,800.00	7,618.00	5,450.00	5,450.00	121.15	94.16	28.66	-4,237.03	4,324.54	3,810.24	3,637.56	172.68	22.065	
12,900.00	7,618.00	5,450.00	5,450.00	121.18	94.16	28.66	-4,237.03	4,324.54	3,733.81	3,562.56	171.25	21.804	
13,000.00	7,618.00	5,450.00	5,450.00	121.23	94.16	28.66	-4,237.03	4,324.54	3,658.51	3,488.77	169.74	21.554	
13,100.00	7,618.00	5,450.00	5,450.00	121.29	94.16	28.66	-4,237.03	4,324.54	3,584.41	3,416.26	168.15	21.317	
13,200.00	7,618.00	5,450.00	5,450.00	121.37	94.16	28.66	-4,237.03	4,324.54	3,511.60	3,345.13	166.48	21.094	
13,300.00	7,618.00	5,450.00	5,450.00	121.46	94.16	28.66	-4,237.03	4,324.54	3,440.16	3,275.45	164.72	20.885	
13,400.00	7,618.00	5,450.00	5,450.00	121.57	94.16	28.66	-4,237.03	4,324.54	3,370.17	3,207.31	162.87	20.693	
13,500.00	7,618.00	5,450.00	5,450.00	121.70	94.16	28.66	-4,237.03	4,324.54	3,301.73	3,140.80	160.93	20.517	
13,600.00	7,618.00	5,450.00	5,450.00	121.84	94.16	28.66	-4,237.03	4,324.54	3,234.93	3,076.04	158.89	20.359	
13,700.00	7,618.00	5,450.00	5,450.00	122.01	94.16	28.66	-4,237.03	4,324.54	3,169.88	3,013.11	156.77	20.220	
13,800.00	7,618.00	5,450.00	5,450.00	122.19	94.16	28.66	-4,237.03	4,324.54	3,106.68	2,952.13	154.55	20.102	
13,900.00	7,618.00	5,450.00	5,450.00	122.39	94.16	28.66	-4,237.03	4,324.54	3,045.46	2,893.22	152.24	20.004	
14,000.00	7,618.00	5,450.00	5,450.00	122.62	94.16	28.66	-4,237.03	4,324.54	2,986.33	2,836.49	149.85	19.929	
14,100.00	7,618.00	5,450.00	5,450.00	122.86	94.16	28.66	-4,237.03	4,324.54	2,929.43	2,782.05	147.37	19.878	
14,200.00	7,618.00	5,450.00	5,450.00	123.12	94.16	28.66	-4,237.03	4,324.54	2,874.87	2,730.04	144.83	19.850	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	5,450.00	5,450.00	123.41	94.16	28.66	-4,237.03	4,324.54	2,822.81	2,680.58	142.23	19.847	
14,400.00	7,618.00	5,450.00	5,450.00	123.72	94.16	28.66	-4,237.03	4,324.54	2,773.37	2,633.79	139.59	19.869	
14,500.00	7,618.00	5,450.00	5,450.00	124.06	94.16	28.66	-4,237.03	4,324.54	2,726.71	2,589.79	136.92	19.914	
14,600.00	7,618.00	5,450.00	5,450.00	124.42	94.16	28.66	-4,237.03	4,324.54	2,682.96	2,548.70	134.26	19.983	
14,700.00	7,618.00	5,450.00	5,450.00	124.80	94.16	28.66	-4,237.03	4,324.54	2,642.28	2,510.64	131.64	20.073	
14,800.00	7,618.00	5,450.00	5,450.00	125.21	94.16	28.66	-4,237.03	4,324.54	2,604.80	2,475.73	129.08	20.180	
14,900.00	7,618.00	5,450.00	5,450.00	125.65	94.16	28.66	-4,237.03	4,324.54	2,570.67	2,444.05	126.63	20.301	
15,000.00	7,618.00	5,450.00	5,450.00	126.11	94.16	28.66	-4,237.03	4,324.54	2,540.02	2,415.70	124.32	20.431	
15,100.00	7,618.00	5,450.00	5,450.00	126.61	94.16	28.66	-4,237.03	4,324.54	2,512.98	2,390.76	122.22	20.561	
15,200.00	7,618.00	5,450.00	5,450.00	127.13	94.16	28.66	-4,237.03	4,324.54	2,489.66	2,369.30	120.36	20.686	
15,300.00	7,618.00	5,450.00	5,450.00	127.68	94.16	28.66	-4,237.03	4,324.54	2,470.17	2,351.39	118.79	20.795	
15,400.00	7,618.00	5,450.00	5,450.00	128.26	94.16	28.66	-4,237.03	4,324.54	2,454.61	2,337.06	117.55	20.881	
15,500.00	7,618.00	5,450.00	5,450.00	128.87	94.16	28.66	-4,237.03	4,324.54	2,443.04	2,326.35	116.69	20.936	
15,600.00	7,618.00	5,450.00	5,450.00	129.51	94.16	28.66	-4,237.03	4,324.54	2,435.53	2,319.30	116.24	20.953	
15,700.00	7,618.00	5,450.00	5,450.00	130.18	94.16	28.66	-4,237.03	4,324.54	2,432.11	2,315.91	116.20	20.930	
15,733.24	7,618.00	5,450.00	5,450.00	130.41	94.16	28.66	-4,237.03	4,324.54	2,431.89	2,315.60	116.29	20.913	CC, ES
15,800.00	7,618.00	5,450.00	5,450.00	130.88	94.16	28.66	-4,237.03	4,324.54	2,432.80	2,316.20	116.60	20.865	
15,900.00	7,618.00	5,450.00	5,450.00	131.61	94.16	28.66	-4,237.03	4,324.54	2,437.60	2,320.19	117.41	20.761	
16,000.00	7,618.00	5,450.00	5,450.00	132.37	94.16	28.66	-4,237.03	4,324.54	2,446.47	2,327.85	118.62	20.624	
16,100.00	7,618.00	5,450.00	5,450.00	133.17	94.16	28.66	-4,237.03	4,324.54	2,459.39	2,339.18	120.20	20.460	
16,200.00	7,618.00	5,450.00	5,450.00	133.99	94.16	28.66	-4,237.03	4,324.54	2,476.27	2,354.17	122.11	20.280	
16,300.00	7,618.00	5,450.00	5,450.00	134.84	94.16	28.66	-4,237.03	4,324.54	2,497.06	2,372.76	124.29	20.091	
16,400.00	7,618.00	5,450.00	5,450.00	135.72	94.16	28.66	-4,237.03	4,324.54	2,521.63	2,394.93	126.70	19.902	
16,500.00	7,618.00	5,450.00	5,450.00	136.63	94.16	28.66	-4,237.03	4,324.54	2,549.90	2,420.61	129.29	19.722	
16,600.00	7,618.00	5,450.00	5,450.00	137.57	94.16	28.66	-4,237.03	4,324.54	2,581.73	2,449.71	132.02	19.556	
16,700.00	7,618.00	5,450.00	5,450.00	138.54	94.16	28.66	-4,237.03	4,324.54	2,617.00	2,482.17	134.83	19.410	
16,800.00	7,618.00	5,450.00	5,450.00	139.53	94.16	28.66	-4,237.03	4,324.54	2,655.57	2,517.88	137.69	19.287	
16,900.00	7,618.00	5,450.00	5,450.00	140.55	94.16	28.66	-4,237.03	4,324.54	2,697.29	2,556.74	140.56	19.190	
17,000.00	7,618.00	5,450.00	5,450.00	141.60	94.16	28.66	-4,237.03	4,324.54	2,742.03	2,598.62	143.42	19.120	
17,100.00	7,618.00	5,450.00	5,450.00	142.67	94.16	28.66	-4,237.03	4,324.54	2,789.64	2,643.41	146.23	19.077	
17,200.00	7,618.00	5,450.00	5,450.00	143.77	94.16	28.66	-4,237.03	4,324.54	2,839.97	2,690.99	148.99	19.062	SF
17,300.00	7,618.00	5,450.00	5,450.00	144.88	94.16	28.66	-4,237.03	4,324.54	2,892.89	2,741.22	151.67	19.074	
17,400.00	7,618.00	5,450.00	5,450.00	146.02	94.16	28.66	-4,237.03	4,324.54	2,948.25	2,793.99	154.26	19.112	
17,500.00	7,618.00	5,450.00	5,450.00	147.19	94.16	28.66	-4,237.03	4,324.54	3,005.91	2,849.15	156.76	19.175	
17,600.00	7,618.00	5,450.00	5,450.00	148.37	94.16	28.66	-4,237.03	4,324.54	3,065.76	2,906.60	159.16	19.262	
17,700.00	7,618.00	5,450.00	5,450.00	149.57	94.16	28.66	-4,237.03	4,324.54	3,127.65	2,966.20	161.45	19.372	
17,800.00	7,618.00	5,450.00	5,450.00	150.79	94.16	28.66	-4,237.03	4,324.54	3,191.48	3,027.84	163.64	19.503	
17,900.00	7,618.00	5,450.00	5,450.00	152.03	94.16	28.66	-4,237.03	4,324.54	3,257.13	3,091.40	165.73	19.653	
18,000.00	7,618.00	5,450.00	5,450.00	153.29	94.16	28.66	-4,237.03	4,324.54	3,324.50	3,156.78	167.72	19.822	
18,100.00	7,618.00	5,450.00	5,450.00	154.57	94.16	28.66	-4,237.03	4,324.54	3,393.47	3,223.87	169.60	20.009	
18,200.00	7,618.00	5,450.00	5,450.00	155.86	94.16	28.66	-4,237.03	4,324.54	3,463.95	3,292.57	171.39	20.211	
18,300.00	7,618.00	5,450.00	5,450.00	157.17	94.16	28.66	-4,237.03	4,324.54	3,535.86	3,362.78	173.08	20.429	
18,400.00	7,618.00	5,450.00	5,450.00	158.49	94.16	28.66	-4,237.03	4,324.54	3,609.11	3,434.43	174.68	20.661	
18,500.00	7,618.00	5,450.00	5,450.00	159.82	94.16	28.66	-4,237.03	4,324.54	3,683.62	3,507.42	176.20	20.906	
18,600.00	7,618.00	5,450.00	5,450.00	161.17	94.16	28.66	-4,237.03	4,324.54	3,759.31	3,581.67	177.63	21.163	
18,700.00	7,618.00	5,450.00	5,450.00	162.54	94.16	28.66	-4,237.03	4,324.54	3,836.11	3,657.12	178.99	21.432	
18,800.00	7,618.00	5,450.00	5,450.00	163.91	94.16	28.66	-4,237.03	4,324.54	3,913.96	3,733.69	180.27	21.711	
18,900.00	7,618.00	5,450.00	5,450.00	165.30	94.16	28.66	-4,237.03	4,324.54	3,992.80	3,811.31	181.49	22.000	
19,000.00	7,618.00	5,450.00	5,450.00	166.70	94.16	28.66	-4,237.03	4,324.54	4,072.57	3,889.93	182.64	22.299	
19,100.00	7,618.00	5,450.00	5,450.00	168.10	94.16	28.66	-4,237.03	4,324.54	4,153.21	3,969.49	183.72	22.606	
19,200.00	7,618.00	5,450.00	5,450.00	169.52	94.16	28.66	-4,237.03	4,324.54	4,234.68	4,049.93	184.75	22.921	
19,300.00	7,618.00	5,450.00	5,450.00	170.95	94.16	28.66	-4,237.03	4,324.54	4,316.93	4,131.20	185.72	23.244	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	5,450.00	5,450.00	172.39	94.16	28.66	-4,237.03	4,324.54	4,399.91	4,213.26	186.65	23.574	
19,500.00	7,618.00	5,450.00	5,450.00	173.84	94.16	28.66	-4,237.03	4,324.54	4,483.59	4,296.07	187.52	23.910	
19,600.00	7,618.00	5,450.00	5,450.00	175.30	94.16	28.66	-4,237.03	4,324.54	4,567.92	4,379.57	188.35	24.253	
19,700.00	7,618.00	5,450.00	5,450.00	176.76	94.16	28.66	-4,237.03	4,324.54	4,652.88	4,463.74	189.13	24.601	
19,800.00	7,618.00	5,450.00	5,450.00	178.24	94.16	28.66	-4,237.03	4,324.54	4,738.42	4,548.54	189.88	24.955	
19,896.19	7,618.00	5,450.00	5,450.00	179.66	94.16	28.66	-4,237.03	4,324.54	4,821.22	4,630.67	190.56	25.300	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	142.12	-5,559.39	4,324.77	7,043.55				
100.00	100.00	67.00	67.00	0.13	0.53	142.12	-5,559.39	4,324.77	7,043.47	7,042.81	0.66	N/A	
200.00	200.00	167.00	167.00	0.49	1.95	142.12	-5,559.39	4,324.77	7,043.47	7,041.02	2.45	2,877.624	
300.00	299.98	266.98	266.98	0.85	3.70	72.83	-5,559.39	4,324.77	7,042.95	7,038.41	4.55	1,548.895	
400.00	399.84	366.84	366.84	1.21	5.44	72.90	-5,559.39	4,324.77	7,041.41	7,034.76	6.65	1,059.146	
500.00	499.45	466.45	466.45	1.58	7.18	73.01	-5,559.39	4,324.77	7,038.85	7,030.09	8.76	803.785	
600.00	598.70	565.70	565.70	1.97	8.91	73.18	-5,559.39	4,324.77	7,035.28	7,024.40	10.88	646.830	
700.00	697.47	664.47	664.47	2.38	10.64	73.38	-5,559.39	4,324.77	7,030.72	7,017.71	13.01	540.409	
800.00	795.62	762.62	762.62	2.83	12.35	73.64	-5,559.39	4,324.77	7,025.22	7,010.05	15.16	463.370	
900.00	893.06	860.06	860.06	3.31	14.05	73.93	-5,559.39	4,324.77	7,018.78	7,001.45	17.33	404.927	
1,000.00	989.64	956.64	956.64	3.83	15.74	74.27	-5,559.39	4,324.77	7,011.46	6,991.93	19.53	359.006	
1,100.00	1,085.27	1,052.27	1,052.27	4.40	17.41	74.65	-5,559.39	4,324.77	7,003.30	6,981.54	21.75	321.927	
1,200.00	1,179.82	1,146.82	1,146.82	5.02	19.06	75.07	-5,559.39	4,324.77	6,994.34	6,970.33	24.01	291.328	
1,300.00	1,273.17	1,240.17	1,240.17	5.70	20.69	75.52	-5,559.39	4,324.77	6,984.64	6,958.34	26.29	265.628	
1,400.00	1,365.21	1,332.21	1,332.21	6.43	22.29	76.01	-5,559.39	4,324.77	6,974.26	6,945.64	28.62	243.724	
1,500.00	1,455.84	1,422.84	1,422.84	7.23	23.87	76.54	-5,559.39	4,324.77	6,963.26	6,932.29	30.97	224.825	
1,600.00	1,544.94	1,511.94	1,511.94	8.09	25.43	77.09	-5,559.39	4,324.77	6,951.71	6,918.35	33.37	208.349	
1,700.00	1,632.39	1,600.61	1,599.39	9.01	26.98	77.67	-5,559.39	4,324.77	6,939.69	6,903.87	35.82	193.744	
1,800.00	1,718.11	1,685.11	1,685.11	10.00	28.45	78.27	-5,559.39	4,324.77	6,927.26	6,889.00	38.27	181.017	
1,900.00	1,801.97	1,768.97	1,768.97	11.07	29.91	78.90	-5,559.39	4,324.77	6,914.52	6,873.74	40.78	169.561	
2,000.00	1,883.88	1,850.88	1,850.88	12.20	31.34	79.54	-5,559.39	4,324.77	6,901.53	6,858.20	43.33	159.284	
2,100.00	1,963.74	1,930.74	1,930.74	13.41	32.74	80.20	-5,559.39	4,324.77	6,888.40	6,842.48	45.92	150.017	
2,200.00	2,041.45	2,008.45	2,008.45	14.69	34.09	80.87	-5,559.39	4,324.77	6,875.19	6,826.65	48.54	141.626	
2,300.00	2,116.92	2,083.92	2,083.92	16.05	35.41	81.54	-5,559.39	4,324.77	6,862.02	6,810.81	51.21	133.999	
2,357.48	2,159.25	2,126.25	2,126.25	16.86	36.15	81.93	-5,559.39	4,324.77	6,854.50	6,801.74	52.76	129.926	
2,400.00	2,190.27	2,157.27	2,157.27	17.47	36.69	82.11	-5,559.39	4,324.77	6,849.01	6,795.10	53.91	127.053	
2,500.00	2,263.22	2,230.22	2,230.22	18.92	37.96	82.52	-5,559.39	4,324.77	6,836.57	6,779.94	56.63	120.730	
2,600.00	2,336.18	2,303.18	2,303.18	20.37	39.24	82.94	-5,559.39	4,324.77	6,824.80	6,765.44	59.36	114.971	
2,700.00	2,409.14	2,376.14	2,376.14	21.84	40.51	83.36	-5,559.39	4,324.77	6,813.69	6,751.58	62.11	109.709	
2,800.00	2,482.09	2,449.09	2,449.09	23.31	41.78	83.78	-5,559.39	4,324.77	6,803.25	6,738.39	64.86	104.888	
2,900.00	2,555.05	2,522.05	2,522.05	24.78	43.06	84.20	-5,559.39	4,324.77	6,793.48	6,725.86	67.63	100.457	
3,000.00	2,628.01	2,604.99	2,595.01	26.27	44.51	84.62	-5,559.39	4,324.77	6,784.39	6,713.82	70.57	96.136	
3,100.00	2,700.96	2,667.96	2,667.96	27.75	45.60	85.04	-5,559.39	4,324.77	6,775.98	6,702.81	73.17	92.602	
3,200.00	2,773.92	2,740.92	2,740.92	29.24	46.88	85.47	-5,559.39	4,324.77	6,768.25	6,692.29	75.95	89.110	
3,300.00	2,846.88	2,813.88	2,813.88	30.73	48.15	85.89	-5,559.39	4,324.77	6,761.20	6,682.46	78.74	85.870	
3,400.00	2,919.83	2,886.83	2,886.83	32.23	49.42	86.31	-5,559.39	4,324.77	6,754.83	6,673.31	81.53	82.856	
3,500.00	2,992.79	2,959.79	2,959.79	33.72	50.70	86.73	-5,559.39	4,324.77	6,749.16	6,664.84	84.31	80.048	
3,600.00	3,065.75	3,032.75	3,032.75	35.22	51.97	87.16	-5,559.39	4,324.77	6,744.17	6,657.06	87.10	77.426	
3,700.00	3,138.71	3,105.71	3,105.71	36.72	53.24	87.58	-5,559.39	4,324.77	6,739.87	6,649.97	89.90	74.974	
3,800.00	3,211.66	3,178.66	3,178.66	38.22	54.52	88.01	-5,559.39	4,324.77	6,736.26	6,643.58	92.69	72.677	
3,900.00	3,284.62	3,251.62	3,251.62	39.72	55.79	88.43	-5,559.39	4,324.77	6,733.35	6,637.87	95.48	70.522	
4,000.00	3,357.58	3,324.58	3,324.58	41.22	57.06	88.86	-5,559.39	4,324.77	6,731.13	6,632.86	98.27	68.498	
4,100.00	3,430.53	3,402.47	3,397.53	42.73	58.42	89.28	-5,559.39	4,324.77	6,729.60	6,628.46	101.14	66.536	
4,200.00	3,503.49	3,470.49	3,470.49	44.23	59.61	89.70	-5,559.39	4,324.77	6,728.77	6,624.93	103.84	64.798	
4,269.52	3,554.21	3,521.21	3,521.21	45.28	60.50	90.00	-5,559.39	4,324.77	6,728.61	6,622.83	105.78	63.611	
4,300.00	3,576.45	3,543.45	3,543.45	45.74	60.88	90.13	-5,559.39	4,324.77	6,728.64	6,622.01	106.62	63.106	
4,400.00	3,649.40	3,616.40	3,616.40	47.25	62.16	90.55	-5,559.39	4,324.77	6,729.20	6,619.79	109.40	61.508	
4,500.00	3,722.36	3,689.36	3,689.36	48.75	63.43	90.98	-5,559.39	4,324.77	6,730.45	6,618.27	112.18	59.997	
4,600.00	3,795.32	3,762.32	3,762.32	50.26	64.70	91.40	-5,559.39	4,324.77	6,732.40	6,617.45	114.95	58.567	
4,700.00	3,868.27	3,835.27	3,835.27	51.77	65.98	91.83	-5,559.39	4,324.77	6,735.04	6,617.32	117.72	57.213	
4,800.00	3,941.23	3,908.23	3,908.23	53.28	67.25	92.25	-5,559.39	4,324.77	6,738.38	6,617.90	120.48	55.929	
4,900.00	4,014.19	3,981.19	3,981.19	54.79	68.52	92.68	-5,559.39	4,324.77	6,742.41	6,619.17	123.24	54.711	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,087.15	4,054.15	4,054.15	56.30	69.80	93.10	-5,559.39	4,324.77	6,747.13	6,621.14	125.99	53.554	
5,100.00	4,160.10	4,127.10	4,127.10	57.81	71.07	93.52	-5,559.39	4,324.77	6,752.53	6,623.80	128.73	52.455	
5,200.00	4,233.06	4,200.06	4,200.06	59.32	72.34	93.95	-5,559.39	4,324.77	6,758.63	6,627.16	131.47	51.410	
5,300.00	4,306.02	4,273.02	4,273.02	60.83	73.62	94.37	-5,559.39	4,324.77	6,765.41	6,631.22	134.20	50.414	
5,400.00	4,378.97	4,345.97	4,345.97	62.34	74.89	94.79	-5,559.39	4,324.77	6,772.88	6,635.96	136.92	49.467	
5,500.00	4,451.93	4,418.93	4,418.93	63.85	76.16	95.21	-5,559.39	4,324.77	6,781.03	6,641.39	139.63	48.564	
5,600.00	4,524.89	4,508.11	4,491.89	65.36	77.72	95.63	-5,559.39	4,324.77	6,789.85	6,647.23	142.62	47.608	
5,700.00	4,597.84	4,564.84	4,564.84	66.88	78.71	96.06	-5,559.39	4,324.77	6,799.36	6,654.32	145.03	46.882	
5,800.00	4,670.80	4,637.80	4,637.80	68.39	79.98	96.47	-5,559.39	4,324.77	6,809.53	6,661.81	147.72	46.098	
5,900.00	4,743.76	4,710.76	4,710.76	69.90	81.26	96.89	-5,559.39	4,324.77	6,820.38	6,669.98	150.40	45.349	
6,000.00	4,816.71	4,783.71	4,783.71	71.41	82.53	97.31	-5,559.39	4,324.77	6,831.89	6,678.83	153.07	44.634	
6,100.00	4,889.67	4,856.67	4,856.67	72.93	83.80	97.73	-5,559.39	4,324.77	6,844.07	6,688.35	155.72	43.950	
6,200.00	4,962.63	4,929.63	4,929.63	74.44	85.08	98.15	-5,559.39	4,324.77	6,856.91	6,698.54	158.37	43.296	
6,300.00	5,035.59	5,002.59	5,002.59	75.95	86.35	98.56	-5,559.39	4,324.77	6,870.41	6,709.40	161.01	42.671	
6,400.00	5,108.54	5,075.54	5,075.54	77.47	87.62	98.98	-5,559.39	4,324.77	6,884.56	6,720.92	163.64	42.073	
6,500.00	5,181.50	5,148.50	5,148.50	78.98	88.90	99.39	-5,559.39	4,324.77	6,899.36	6,733.10	166.25	41.500	
6,600.00	5,254.46	5,221.46	5,221.46	80.49	90.17	99.80	-5,559.39	4,324.77	6,914.80	6,745.94	168.85	40.951	
6,700.00	5,327.41	5,305.59	5,294.41	82.01	91.64	100.22	-5,559.39	4,324.77	6,930.88	6,759.24	171.64	40.380	
6,800.00	5,400.37	5,367.37	5,367.37	83.52	92.72	100.63	-5,559.39	4,324.77	6,947.60	6,773.57	174.03	39.922	
6,900.00	5,473.33	5,440.33	5,440.33	85.04	93.99	101.04	-5,559.39	4,324.77	6,964.95	6,788.35	176.60	39.440	
7,000.00	5,546.28	5,450.00	5,450.00	86.55	94.16	101.09	-5,559.39	4,324.77	6,983.22	6,805.19	178.02	39.227	
7,100.00	5,619.24	5,450.00	5,450.00	88.06	94.16	101.09	-5,559.39	4,324.77	7,002.85	6,823.61	179.24	39.069	
7,200.00	5,692.20	5,450.00	5,450.00	89.58	94.16	101.09	-5,559.39	4,324.77	7,023.86	6,843.43	180.43	38.929	
7,300.00	5,765.15	5,450.00	5,450.00	91.09	94.16	101.09	-5,559.39	4,324.77	7,046.22	6,864.64	181.58	38.804	
7,400.00	5,838.11	5,450.00	5,450.00	92.61	94.16	101.09	-5,559.39	4,324.77	7,069.93	6,887.23	182.70	38.696	
7,500.00	5,911.07	5,450.00	5,450.00	94.12	94.16	101.09	-5,559.39	4,324.77	7,094.97	6,911.18	183.79	38.603	
7,600.00	5,984.03	5,450.00	5,450.00	95.64	94.16	101.09	-5,559.39	4,324.77	7,121.32	6,936.48	184.85	38.526	
7,700.00	6,056.98	5,450.00	5,450.00	97.15	94.16	101.09	-5,559.39	4,324.77	7,148.98	6,963.11	185.87	38.462	
7,800.00	6,129.94	5,450.00	5,450.00	98.67	94.16	101.09	-5,559.39	4,324.77	7,177.92	6,991.06	186.86	38.414	
7,900.00	6,202.90	5,450.00	5,450.00	100.18	94.16	101.09	-5,559.39	4,324.77	7,208.14	7,020.32	187.81	38.379	
8,000.00	6,275.85	5,450.00	5,450.00	101.70	94.16	101.09	-5,559.39	4,324.77	7,239.61	7,050.87	188.74	38.358	
8,100.00	6,348.81	5,450.00	5,450.00	103.21	94.16	101.09	-5,559.39	4,324.77	7,272.31	7,082.68	189.63	38.350	
8,200.00	6,421.77	5,450.00	5,450.00	104.73	94.16	101.09	-5,559.39	4,324.77	7,306.24	7,115.75	190.49	38.355	
8,300.00	6,494.72	5,450.00	5,450.00	106.24	94.16	101.09	-5,559.39	4,324.77	7,341.38	7,150.06	191.32	38.372	
8,400.00	6,567.68	5,450.00	5,450.00	107.76	94.16	101.09	-5,559.39	4,324.77	7,377.70	7,185.59	192.12	38.402	
8,500.00	6,640.64	5,450.00	5,450.00	109.27	94.16	101.09	-5,559.39	4,324.77	7,415.20	7,222.31	192.89	38.443	
8,600.00	6,713.59	5,450.00	5,450.00	110.79	94.16	101.09	-5,559.39	4,324.77	7,453.85	7,260.22	193.62	38.496	
8,700.00	6,786.55	5,450.00	5,450.00	112.30	94.16	101.09	-5,559.39	4,324.77	7,493.63	7,299.30	194.33	38.561	
8,800.00	6,859.51	5,450.00	5,450.00	113.82	94.16	101.09	-5,559.39	4,324.77	7,534.53	7,339.52	195.01	38.636	
8,900.00	6,932.46	5,450.00	5,450.00	115.33	94.16	101.09	-5,559.39	4,324.77	7,576.53	7,380.87	195.66	38.722	
9,000.00	7,005.42	5,450.00	5,450.00	116.85	94.16	101.09	-5,559.39	4,324.77	7,619.61	7,423.32	196.29	38.818	
9,104.89	7,081.95	5,450.00	5,450.00	118.44	94.16	101.09	-5,559.39	4,324.77	7,665.94	7,469.03	196.91	38.930	
9,150.00	7,115.15	5,450.00	5,450.00	119.12	94.16	96.47	-5,559.39	4,324.77	7,684.62	7,487.44	197.18	38.973	
9,200.00	7,152.46	5,450.00	5,450.00	119.86	94.16	91.06	-5,559.39	4,324.77	7,701.76	7,504.29	197.47	39.001	
9,250.00	7,190.04	5,450.00	5,450.00	120.57	94.16	85.47	-5,559.39	4,324.77	7,715.05	7,517.28	197.77	39.011	
9,300.00	7,227.59	5,450.00	5,450.00	121.25	94.16	79.86	-5,559.39	4,324.77	7,724.41	7,526.36	198.05	39.002	
9,350.00	7,264.83	5,450.00	5,450.00	121.89	94.16	74.39	-5,559.39	4,324.77	7,729.79	7,531.47	198.32	38.976	
9,400.00	7,301.48	5,450.00	5,450.00	122.48	94.16	69.18	-5,559.39	4,324.77	7,731.15	7,532.57	198.58	38.933	
9,450.00	7,337.26	5,450.00	5,450.00	123.01	94.16	64.32	-5,559.39	4,324.77	7,728.48	7,529.67	198.80	38.875	
9,500.00	7,371.90	5,450.00	5,450.00	123.49	94.16	59.89	-5,559.39	4,324.77	7,721.80	7,522.79	199.00	38.802	
9,550.00	7,405.13	5,450.00	5,450.00	123.91	94.16	55.88	-5,559.39	4,324.77	7,711.14	7,511.97	199.17	38.716	
9,600.00	7,436.70	5,450.00	5,450.00	124.27	94.16	52.31	-5,559.39	4,324.77	7,696.59	7,497.28	199.31	38.616	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	5,450.00	5,450.00	124.57	94.16	49.14	-5,559.39	4,324.77	7,678.21	7,478.80	199.41	38.504	
9,700.00	7,493.91	5,450.00	5,450.00	124.81	94.16	46.34	-5,559.39	4,324.77	7,656.13	7,456.65	199.48	38.380	
9,750.00	7,519.11	5,450.00	5,450.00	125.00	94.16	43.87	-5,559.39	4,324.77	7,630.49	7,430.97	199.52	38.244	
9,800.00	7,541.79	5,450.00	5,450.00	125.12	94.16	41.68	-5,559.39	4,324.77	7,601.43	7,401.91	199.53	38.097	
9,850.00	7,561.77	5,450.00	5,450.00	125.20	94.16	39.72	-5,559.39	4,324.77	7,569.16	7,369.65	199.51	37.939	
9,900.00	7,578.90	5,450.00	5,450.00	125.23	94.16	37.94	-5,559.39	4,324.77	7,533.86	7,334.40	199.47	37.770	
9,950.00	7,593.04	5,450.00	5,450.00	125.22	94.16	36.28	-5,559.39	4,324.77	7,495.78	7,296.38	199.40	37.591	
10,000.00	7,604.09	5,450.00	5,450.00	125.17	94.16	34.66	-5,559.39	4,324.77	7,455.15	7,255.83	199.32	37.402	
10,050.00	7,611.97	5,450.00	5,450.00	125.08	94.16	32.95	-5,559.39	4,324.77	7,412.26	7,213.03	199.23	37.204	
10,100.00	7,616.61	5,450.00	5,450.00	124.97	94.16	30.96	-5,559.39	4,324.77	7,367.38	7,168.24	199.14	36.996	
10,145.95	7,618.00	5,450.00	5,450.00	124.84	94.16	28.55	-5,559.39	4,324.77	7,324.66	7,125.61	199.05	36.797	
10,200.00	7,618.00	5,450.00	5,450.00	124.69	94.16	28.55	-5,559.39	4,324.77	7,273.70	7,074.74	198.95	36.560	
10,300.00	7,618.00	5,450.00	5,450.00	124.41	94.16	28.55	-5,559.39	4,324.77	7,179.52	6,980.77	198.76	36.122	
10,400.00	7,618.00	5,450.00	5,450.00	124.14	94.16	28.55	-5,559.39	4,324.77	7,085.51	6,886.95	198.55	35.686	
10,500.00	7,618.00	5,450.00	5,450.00	123.88	94.16	28.55	-5,559.39	4,324.77	6,991.66	6,793.32	198.34	35.250	
10,600.00	7,618.00	5,450.00	5,450.00	123.63	94.16	28.55	-5,559.39	4,324.77	6,897.98	6,699.86	198.12	34.816	
10,700.00	7,618.00	5,450.00	5,450.00	123.40	94.16	28.55	-5,559.39	4,324.77	6,804.49	6,606.59	197.90	34.384	
10,800.00	7,618.00	5,450.00	5,450.00	123.18	94.16	28.55	-5,559.39	4,324.77	6,711.18	6,513.52	197.66	33.953	
10,900.00	7,618.00	5,450.00	5,450.00	122.96	94.16	28.55	-5,559.39	4,324.77	6,618.07	6,420.65	197.42	33.523	
11,000.00	7,618.00	5,450.00	5,450.00	122.76	94.16	28.55	-5,559.39	4,324.77	6,525.16	6,328.00	197.16	33.096	
11,100.00	7,618.00	5,450.00	5,450.00	122.57	94.16	28.55	-5,559.39	4,324.77	6,432.46	6,235.57	196.89	32.670	
11,200.00	7,618.00	5,450.00	5,450.00	122.39	94.16	28.55	-5,559.39	4,324.77	6,339.99	6,143.37	196.62	32.245	
11,300.00	7,618.00	5,450.00	5,450.00	122.23	94.16	28.55	-5,559.39	4,324.77	6,247.75	6,051.42	196.33	31.823	
11,400.00	7,618.00	5,450.00	5,450.00	122.07	94.16	28.55	-5,559.39	4,324.77	6,155.75	5,959.72	196.03	31.402	
11,500.00	7,618.00	5,450.00	5,450.00	121.93	94.16	28.55	-5,559.39	4,324.77	6,064.00	5,868.28	195.71	30.984	
11,600.00	7,618.00	5,450.00	5,450.00	121.79	94.16	28.55	-5,559.39	4,324.77	5,972.52	5,777.13	195.39	30.568	
11,700.00	7,618.00	5,450.00	5,450.00	121.67	94.16	28.55	-5,559.39	4,324.77	5,881.31	5,686.27	195.05	30.154	
11,800.00	7,618.00	5,450.00	5,450.00	121.56	94.16	28.55	-5,559.39	4,324.77	5,790.40	5,595.71	194.69	29.742	
11,900.00	7,618.00	5,450.00	5,450.00	121.46	94.16	28.55	-5,559.39	4,324.77	5,699.79	5,505.48	194.31	29.333	
12,000.00	7,618.00	5,450.00	5,450.00	121.38	94.16	28.55	-5,559.39	4,324.77	5,609.50	5,415.58	193.92	28.927	
12,100.00	7,618.00	5,450.00	5,450.00	121.30	94.16	28.55	-5,559.39	4,324.77	5,519.54	5,326.03	193.51	28.523	
12,200.00	7,618.00	5,450.00	5,450.00	121.24	94.16	28.55	-5,559.39	4,324.77	5,429.94	5,236.86	193.08	28.122	
12,300.00	7,618.00	5,450.00	5,450.00	121.19	94.16	28.55	-5,559.39	4,324.77	5,340.71	5,148.07	192.63	27.725	
12,400.00	7,618.00	5,450.00	5,450.00	121.16	94.16	28.55	-5,559.39	4,324.77	5,251.86	5,059.69	192.16	27.330	
12,500.00	7,618.00	5,450.00	5,450.00	121.14	94.16	28.55	-5,559.39	4,324.77	5,163.42	4,971.75	191.67	26.939	
12,600.00	7,618.00	5,450.00	5,450.00	121.13	94.16	28.55	-5,559.39	4,324.77	5,075.41	4,884.26	191.15	26.552	
12,700.00	7,618.00	5,450.00	5,450.00	121.13	94.16	28.55	-5,559.39	4,324.77	4,987.85	4,797.25	190.60	26.169	
12,800.00	7,618.00	5,450.00	5,450.00	121.15	94.16	28.55	-5,559.39	4,324.77	4,900.77	4,710.74	190.03	25.789	
12,900.00	7,618.00	5,450.00	5,450.00	121.18	94.16	28.55	-5,559.39	4,324.77	4,814.19	4,624.76	189.43	25.414	
13,000.00	7,618.00	5,450.00	5,450.00	121.23	94.16	28.55	-5,559.39	4,324.77	4,728.14	4,539.34	188.80	25.044	
13,100.00	7,618.00	5,450.00	5,450.00	121.29	94.16	28.55	-5,559.39	4,324.77	4,642.65	4,454.52	188.13	24.678	
13,200.00	7,618.00	5,450.00	5,450.00	121.37	94.16	28.55	-5,559.39	4,324.77	4,557.75	4,370.32	187.43	24.317	
13,300.00	7,618.00	5,450.00	5,450.00	121.46	94.16	28.55	-5,559.39	4,324.77	4,473.47	4,286.78	186.69	23.962	
13,400.00	7,618.00	5,450.00	5,450.00	121.57	94.16	28.55	-5,559.39	4,324.77	4,389.85	4,203.94	185.91	23.613	
13,500.00	7,618.00	5,450.00	5,450.00	121.70	94.16	28.55	-5,559.39	4,324.77	4,306.94	4,121.85	185.09	23.269	
13,600.00	7,618.00	5,450.00	5,450.00	121.84	94.16	28.55	-5,559.39	4,324.77	4,224.76	4,040.53	184.23	22.933	
13,700.00	7,618.00	5,450.00	5,450.00	122.01	94.16	28.55	-5,559.39	4,324.77	4,143.36	3,960.05	183.31	22.603	
13,800.00	7,618.00	5,450.00	5,450.00	122.19	94.16	28.55	-5,559.39	4,324.77	4,062.80	3,880.45	182.35	22.280	
13,900.00	7,618.00	5,450.00	5,450.00	122.39	94.16	28.55	-5,559.39	4,324.77	3,983.12	3,801.78	181.34	21.965	
14,000.00	7,618.00	5,450.00	5,450.00	122.62	94.16	28.55	-5,559.39	4,324.77	3,904.37	3,724.10	180.26	21.659	
14,100.00	7,618.00	5,450.00	5,450.00	122.86	94.16	28.55	-5,559.39	4,324.77	3,826.62	3,647.48	179.13	21.362	
14,200.00	7,618.00	5,450.00	5,450.00	123.12	94.16	28.55	-5,559.39	4,324.77	3,749.92	3,571.97	177.94	21.074	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	5,450.00	5,450.00	123.41	94.16	28.55	-5,559.39	4,324.77	3,674.34	3,497.65	176.69	20.796	
14,400.00	7,618.00	5,450.00	5,450.00	123.72	94.16	28.55	-5,559.39	4,324.77	3,599.95	3,424.59	175.36	20.529	
14,500.00	7,618.00	5,450.00	5,450.00	124.06	94.16	28.55	-5,559.39	4,324.77	3,526.83	3,352.86	173.97	20.273	
14,600.00	7,618.00	5,450.00	5,450.00	124.42	94.16	28.55	-5,559.39	4,324.77	3,455.05	3,282.56	172.50	20.030	
14,700.00	7,618.00	5,450.00	5,450.00	124.80	94.16	28.55	-5,559.39	4,324.77	3,384.71	3,213.76	170.95	19.799	
14,800.00	7,618.00	5,450.00	5,450.00	125.21	94.16	28.55	-5,559.39	4,324.77	3,315.89	3,146.57	169.33	19.583	
14,900.00	7,618.00	5,450.00	5,450.00	125.65	94.16	28.55	-5,559.39	4,324.77	3,248.70	3,081.07	167.62	19.381	
15,000.00	7,618.00	5,450.00	5,450.00	126.11	94.16	28.55	-5,559.39	4,324.77	3,183.22	3,017.38	165.84	19.195	
15,100.00	7,618.00	5,450.00	5,450.00	126.61	94.16	28.55	-5,559.39	4,324.77	3,119.58	2,955.61	163.97	19.025	
15,200.00	7,618.00	5,450.00	5,450.00	127.13	94.16	28.55	-5,559.39	4,324.77	3,057.89	2,895.86	162.03	18.872	
15,300.00	7,618.00	5,450.00	5,450.00	127.68	94.16	28.55	-5,559.39	4,324.77	2,998.26	2,838.25	160.01	18.738	
15,400.00	7,618.00	5,450.00	5,450.00	128.26	94.16	28.55	-5,559.39	4,324.77	2,940.82	2,782.90	157.92	18.622	
15,500.00	7,618.00	5,450.00	5,450.00	128.87	94.16	28.55	-5,559.39	4,324.77	2,885.71	2,729.94	155.76	18.526	
15,600.00	7,618.00	5,450.00	5,450.00	129.51	94.16	28.55	-5,559.39	4,324.77	2,833.05	2,679.50	153.55	18.450	
15,700.00	7,618.00	5,450.00	5,450.00	130.18	94.16	28.55	-5,559.39	4,324.77	2,783.00	2,631.70	151.30	18.394	
15,800.00	7,618.00	5,450.00	5,450.00	130.88	94.16	28.55	-5,559.39	4,324.77	2,735.68	2,586.67	149.01	18.358	
15,900.00	7,618.00	5,450.00	5,450.00	131.61	94.16	28.55	-5,559.39	4,324.77	2,691.25	2,544.53	146.72	18.343	
16,000.00	7,618.00	5,450.00	5,450.00	132.37	94.16	28.55	-5,559.39	4,324.77	2,649.85	2,505.41	144.44	18.345	
16,100.00	7,618.00	5,450.00	5,450.00	133.17	94.16	28.55	-5,559.39	4,324.77	2,611.63	2,469.42	142.20	18.366	
16,200.00	7,618.00	5,450.00	5,450.00	133.99	94.16	28.55	-5,559.39	4,324.77	2,576.72	2,436.68	140.03	18.401	
16,300.00	7,618.00	5,450.00	5,450.00	134.84	94.16	28.55	-5,559.39	4,324.77	2,545.26	2,407.29	137.97	18.448	
16,400.00	7,618.00	5,450.00	5,450.00	135.72	94.16	28.55	-5,559.39	4,324.77	2,517.39	2,381.34	136.05	18.503	
16,500.00	7,618.00	5,450.00	5,450.00	136.63	94.16	28.55	-5,559.39	4,324.77	2,493.21	2,358.90	134.31	18.563	
16,600.00	7,618.00	5,450.00	5,450.00	137.57	94.16	28.55	-5,559.39	4,324.77	2,472.85	2,340.06	132.79	18.622	
16,700.00	7,618.00	5,450.00	5,450.00	138.54	94.16	28.55	-5,559.39	4,324.77	2,456.40	2,324.86	131.54	18.674	
16,800.00	7,618.00	5,450.00	5,450.00	139.53	94.16	28.55	-5,559.39	4,324.77	2,443.92	2,313.34	130.58	18.716	
16,900.00	7,618.00	5,450.00	5,450.00	140.55	94.16	28.55	-5,559.39	4,324.77	2,435.50	2,305.55	129.94	18.743	
17,000.00	7,618.00	5,450.00	5,450.00	141.60	94.16	28.55	-5,559.39	4,324.77	2,431.16	2,301.50	129.65	18.751	
17,055.60	7,618.00	5,450.00	5,450.00	142.19	94.16	28.55	-5,559.39	4,324.77	2,430.52	2,300.88	129.64	18.748	CC, ES
17,100.00	7,618.00	5,450.00	5,450.00	142.67	94.16	28.55	-5,559.39	4,324.77	2,430.93	2,301.21	129.72	18.740	
17,200.00	7,618.00	5,450.00	5,450.00	143.77	94.16	28.55	-5,559.39	4,324.77	2,434.81	2,304.67	130.14	18.710	
17,300.00	7,618.00	5,450.00	5,450.00	144.88	94.16	28.55	-5,559.39	4,324.77	2,442.78	2,311.88	130.90	18.661	
17,400.00	7,618.00	5,450.00	5,450.00	146.02	94.16	28.55	-5,559.39	4,324.77	2,454.80	2,322.81	131.99	18.599	
17,500.00	7,618.00	5,450.00	5,450.00	147.19	94.16	28.55	-5,559.39	4,324.77	2,470.81	2,337.45	133.37	18.527	
17,600.00	7,618.00	5,450.00	5,450.00	148.37	94.16	28.55	-5,559.39	4,324.77	2,490.74	2,355.74	135.00	18.450	
17,700.00	7,618.00	5,450.00	5,450.00	149.57	94.16	28.55	-5,559.39	4,324.77	2,514.49	2,377.64	136.86	18.373	
17,800.00	7,618.00	5,450.00	5,450.00	150.79	94.16	28.55	-5,559.39	4,324.77	2,541.96	2,403.08	138.89	18.303	
17,900.00	7,618.00	5,450.00	5,450.00	152.03	94.16	28.55	-5,559.39	4,324.77	2,573.02	2,431.97	141.05	18.242	
18,000.00	7,618.00	5,450.00	5,450.00	153.29	94.16	28.55	-5,559.39	4,324.77	2,607.55	2,464.23	143.32	18.194	
18,100.00	7,618.00	5,450.00	5,450.00	154.57	94.16	28.55	-5,559.39	4,324.77	2,645.41	2,499.76	145.65	18.163	
18,200.00	7,618.00	5,450.00	5,450.00	155.86	94.16	28.55	-5,559.39	4,324.77	2,686.46	2,538.45	148.01	18.150	SF
18,300.00	7,618.00	5,450.00	5,450.00	157.17	94.16	28.55	-5,559.39	4,324.77	2,730.56	2,580.18	150.38	18.157	
18,400.00	7,618.00	5,450.00	5,450.00	158.49	94.16	28.55	-5,559.39	4,324.77	2,777.56	2,624.82	152.74	18.185	
18,500.00	7,618.00	5,450.00	5,450.00	159.82	94.16	28.55	-5,559.39	4,324.77	2,827.32	2,672.26	155.06	18.234	
18,600.00	7,618.00	5,450.00	5,450.00	161.17	94.16	28.55	-5,559.39	4,324.77	2,879.69	2,722.36	157.33	18.303	
18,700.00	7,618.00	5,450.00	5,450.00	162.54	94.16	28.55	-5,559.39	4,324.77	2,934.53	2,774.99	159.54	18.393	
18,800.00	7,618.00	5,450.00	5,450.00	163.91	94.16	28.55	-5,559.39	4,324.77	2,991.72	2,830.03	161.68	18.503	
18,900.00	7,618.00	5,450.00	5,450.00	165.30	94.16	28.55	-5,559.39	4,324.77	3,051.11	2,887.36	163.75	18.633	
19,000.00	7,618.00	5,450.00	5,450.00	166.70	94.16	28.55	-5,559.39	4,324.77	3,112.58	2,946.84	165.73	18.781	
19,100.00	7,618.00	5,450.00	5,450.00	168.10	94.16	28.55	-5,559.39	4,324.77	3,176.01	3,008.37	167.64	18.946	
19,200.00	7,618.00	5,450.00	5,450.00	169.52	94.16	28.55	-5,559.39	4,324.77	3,241.28	3,071.83	169.45	19.128	
19,300.00	7,618.00	5,450.00	5,450.00	170.95	94.16	28.55	-5,559.39	4,324.77	3,308.29	3,137.10	171.19	19.325	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
19,400.00	7,618.00	5,450.00	5,450.00	172.39	94.16	28.55	-5,559.39	4,324.77	3,376.93	3,204.09	172.84	19.538	
19,500.00	7,618.00	5,450.00	5,450.00	173.84	94.16	28.55	-5,559.39	4,324.77	3,447.11	3,272.69	174.41	19.764	
19,600.00	7,618.00	5,450.00	5,450.00	175.30	94.16	28.55	-5,559.39	4,324.77	3,518.72	3,342.82	175.91	20.003	
19,700.00	7,618.00	5,450.00	5,450.00	176.76	94.16	28.55	-5,559.39	4,324.77	3,591.70	3,414.37	177.32	20.255	
19,800.00	7,618.00	5,450.00	5,450.00	178.24	94.16	28.55	-5,559.39	4,324.77	3,665.95	3,487.28	178.67	20.518	
19,896.19	7,618.00	5,450.00	5,450.00	179.66	94.16	28.55	-5,559.39	4,324.77	3,738.50	3,558.60	179.90	20.781	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	126.90	-4,236.76	5,643.58	7,057.18				
100.00	100.00	39.00	39.00	0.13	0.31	126.90	-4,236.76	5,643.58	7,056.92	7,056.47	0.45	N/A	
200.00	200.00	139.00	139.00	0.49	1.48	126.90	-4,236.76	5,643.58	7,056.92	7,054.94	1.98	3,570.539	
300.00	299.98	238.98	238.98	0.85	3.23	57.61	-4,236.76	5,643.58	7,055.98	7,051.91	4.08	1,731.128	
400.00	399.84	338.84	338.84	1.21	4.97	57.69	-4,236.76	5,643.58	7,053.18	7,047.00	6.18	1,141.813	
500.00	499.45	438.45	438.45	1.58	6.71	57.83	-4,236.76	5,643.58	7,048.52	7,040.23	8.28	850.844	
600.00	598.70	537.70	537.70	1.97	8.44	58.02	-4,236.76	5,643.58	7,042.01	7,031.61	10.40	677.227	
700.00	697.47	636.47	636.47	2.38	10.17	58.27	-4,236.76	5,643.58	7,033.68	7,021.16	12.52	561.702	
800.00	795.62	734.62	734.62	2.83	11.88	58.58	-4,236.76	5,643.58	7,023.55	7,008.90	14.66	479.156	
900.00	893.06	832.06	832.06	3.31	13.58	58.94	-4,236.76	5,643.58	7,011.66	6,994.85	16.81	417.130	
1,000.00	989.64	928.64	928.64	3.83	15.27	59.35	-4,236.76	5,643.58	6,998.05	6,979.07	18.98	368.744	
1,100.00	1,085.27	1,024.27	1,024.27	4.40	16.93	59.82	-4,236.76	5,643.58	6,982.75	6,961.58	21.17	329.887	
1,200.00	1,179.82	1,118.82	1,118.82	5.02	18.58	60.34	-4,236.76	5,643.58	6,965.82	6,942.44	23.38	297.956	
1,300.00	1,273.17	1,212.17	1,212.17	5.70	20.21	60.91	-4,236.76	5,643.58	6,947.31	6,921.70	25.62	271.220	
1,400.00	1,365.21	1,304.21	1,304.21	6.43	21.82	61.53	-4,236.76	5,643.58	6,927.29	6,899.41	27.88	248.484	
1,500.00	1,455.84	1,405.16	1,394.84	7.23	23.58	62.21	-4,236.76	5,643.58	6,905.82	6,875.47	30.35	227.537	
1,600.00	1,544.94	1,483.94	1,483.94	8.09	24.96	62.93	-4,236.76	5,643.58	6,882.96	6,850.47	32.49	211.833	
1,700.00	1,632.39	1,571.39	1,571.39	9.01	26.48	63.70	-4,236.76	5,643.58	6,858.81	6,823.96	34.85	196.829	
1,800.00	1,718.11	1,657.11	1,657.11	10.00	27.98	64.52	-4,236.76	5,643.58	6,833.43	6,796.19	37.23	183.528	
1,900.00	1,801.97	1,740.97	1,740.97	11.07	29.44	65.37	-4,236.76	5,643.58	6,806.91	6,767.25	39.66	171.653	
2,000.00	1,883.88	1,822.88	1,822.88	12.20	30.87	66.27	-4,236.76	5,643.58	6,779.34	6,737.23	42.11	160.986	
2,100.00	1,963.74	1,902.74	1,902.74	13.41	32.27	67.21	-4,236.76	5,643.58	6,750.82	6,706.22	44.60	151.352	
2,200.00	2,041.45	1,980.45	1,980.45	14.69	33.62	68.18	-4,236.76	5,643.58	6,721.45	6,674.31	47.13	142.611	
2,300.00	2,116.92	2,055.92	2,055.92	16.05	34.94	69.18	-4,236.76	5,643.58	6,691.31	6,641.62	49.70	134.646	
2,357.48	2,159.25	2,101.75	2,098.25	16.86	35.74	69.77	-4,236.76	5,643.58	6,673.69	6,622.45	51.25	130.228	
2,400.00	2,190.27	2,129.27	2,129.27	17.47	36.22	69.95	-4,236.76	5,643.58	6,660.63	6,608.34	52.29	127.372	
2,500.00	2,263.22	2,202.22	2,202.22	18.92	37.49	70.38	-4,236.76	5,643.58	6,630.32	6,575.41	54.92	120.733	
2,600.00	2,336.18	2,275.18	2,275.18	20.37	38.77	70.80	-4,236.76	5,643.58	6,600.58	6,543.02	57.56	114.666	
2,700.00	2,409.14	2,348.14	2,348.14	21.84	40.04	71.23	-4,236.76	5,643.58	6,571.42	6,511.19	60.23	109.107	
2,800.00	2,482.09	2,421.09	2,421.09	23.31	41.31	71.66	-4,236.76	5,643.58	6,542.84	6,479.92	62.91	103.999	
2,900.00	2,555.05	2,505.95	2,494.05	24.78	42.79	72.10	-4,236.76	5,643.58	6,514.85	6,449.03	65.82	98.981	
3,000.00	2,628.01	2,567.01	2,567.01	26.27	43.86	72.53	-4,236.76	5,643.58	6,487.46	6,419.13	68.33	94.949	
3,100.00	2,700.96	2,639.96	2,639.96	27.75	45.13	72.97	-4,236.76	5,643.58	6,460.68	6,389.63	71.05	90.927	
3,200.00	2,773.92	2,712.92	2,712.92	29.24	46.41	73.41	-4,236.76	5,643.58	6,434.52	6,360.72	73.79	87.195	
3,300.00	2,846.88	2,785.88	2,785.88	30.73	47.68	73.85	-4,236.76	5,643.58	6,408.98	6,332.43	76.55	83.725	
3,400.00	2,919.83	2,858.83	2,858.83	32.23	48.95	74.30	-4,236.76	5,643.58	6,384.07	6,304.75	79.31	80.493	
3,500.00	2,992.79	2,931.79	2,931.79	33.72	50.23	74.74	-4,236.76	5,643.58	6,359.79	6,277.71	82.09	77.476	
3,600.00	3,065.75	3,004.75	3,004.75	35.22	51.50	75.19	-4,236.76	5,643.58	6,336.17	6,251.29	84.87	74.656	
3,700.00	3,138.71	3,077.71	3,077.71	36.72	52.77	75.64	-4,236.76	5,643.58	6,313.19	6,225.53	87.67	72.014	
3,800.00	3,211.66	3,150.66	3,150.66	38.22	54.05	76.09	-4,236.76	5,643.58	6,290.88	6,200.41	90.47	69.536	
3,900.00	3,284.62	3,223.62	3,223.62	39.72	55.32	76.54	-4,236.76	5,643.58	6,269.23	6,175.95	93.28	67.208	
4,000.00	3,357.58	3,303.42	3,296.58	41.22	56.71	77.00	-4,236.76	5,643.58	6,248.25	6,152.03	96.22	64.937	
4,100.00	3,430.53	3,369.53	3,369.53	42.73	57.87	77.45	-4,236.76	5,643.58	6,227.96	6,129.03	98.93	62.955	
4,200.00	3,503.49	3,442.49	3,442.49	44.23	59.14	77.91	-4,236.76	5,643.58	6,208.35	6,106.59	101.76	61.010	
4,300.00	3,576.45	3,515.45	3,515.45	45.74	60.41	78.37	-4,236.76	5,643.58	6,189.44	6,084.84	104.60	59.174	
4,400.00	3,649.40	3,588.40	3,588.40	47.25	61.69	78.83	-4,236.76	5,643.58	6,171.23	6,063.78	107.44	57.438	
4,500.00	3,722.36	3,661.36	3,661.36	48.75	62.96	79.30	-4,236.76	5,643.58	6,153.72	6,043.43	110.29	55.795	
4,600.00	3,795.32	3,734.32	3,734.32	50.26	64.23	79.76	-4,236.76	5,643.58	6,136.92	6,023.78	113.14	54.240	
4,700.00	3,868.27	3,807.27	3,807.27	51.77	65.51	80.23	-4,236.76	5,643.58	6,120.85	6,004.84	116.00	52.765	
4,800.00	3,941.23	3,880.23	3,880.23	53.28	66.78	80.69	-4,236.76	5,643.58	6,105.49	5,986.63	118.86	51.367	
4,900.00	4,014.19	3,953.19	3,953.19	54.79	68.05	81.16	-4,236.76	5,643.58	6,090.87	5,969.15	121.72	50.039	
5,000.00	4,087.15	4,026.15	4,026.15	56.30	69.33	81.63	-4,236.76	5,643.58	6,076.98	5,952.39	124.59	48.777	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,160.10	4,100.90	4,099.10	57.81	70.63	82.10	-4,236.76	5,643.58	6,063.83	5,936.34	127.48	47.565	
5,200.00	4,233.06	4,172.06	4,172.06	59.32	71.87	82.57	-4,236.76	5,643.58	6,051.42	5,921.10	130.32	46.435	
5,300.00	4,306.02	4,245.02	4,245.02	60.83	73.15	83.04	-4,236.76	5,643.58	6,039.77	5,906.58	133.19	45.348	
5,400.00	4,378.97	4,317.97	4,317.97	62.34	74.42	83.52	-4,236.76	5,643.58	6,028.86	5,892.81	136.05	44.313	
5,500.00	4,451.93	4,409.07	4,390.93	63.85	76.01	83.99	-4,236.76	5,643.58	6,018.72	5,879.48	139.23	43.228	
5,600.00	4,524.89	4,463.89	4,463.89	65.36	76.97	84.47	-4,236.76	5,643.58	6,009.33	5,867.55	141.78	42.385	
5,700.00	4,597.84	4,536.84	4,536.84	66.88	78.24	84.94	-4,236.76	5,643.58	6,000.71	5,856.07	144.64	41.487	
5,800.00	4,670.80	4,609.80	4,609.80	68.39	79.51	85.42	-4,236.76	5,643.58	5,992.86	5,845.36	147.50	40.630	
5,900.00	4,743.76	4,682.76	4,682.76	69.90	80.79	85.90	-4,236.76	5,643.58	5,985.78	5,835.43	150.35	39.812	
6,000.00	4,816.71	4,755.71	4,755.71	71.41	82.06	86.37	-4,236.76	5,643.58	5,979.48	5,826.27	153.20	39.030	
6,100.00	4,889.67	4,828.67	4,828.67	72.93	83.33	86.85	-4,236.76	5,643.58	5,973.95	5,817.90	156.05	38.283	
6,200.00	4,962.63	4,901.63	4,901.63	74.44	84.61	87.33	-4,236.76	5,643.58	5,969.19	5,810.31	158.88	37.569	
6,300.00	5,035.59	4,974.59	4,974.59	75.95	85.88	87.81	-4,236.76	5,643.58	5,965.22	5,803.51	161.72	36.887	
6,400.00	5,108.54	5,047.54	5,047.54	77.47	87.15	88.29	-4,236.76	5,643.58	5,962.03	5,797.49	164.54	36.234	
6,500.00	5,181.50	5,120.50	5,120.50	78.98	88.43	88.77	-4,236.76	5,643.58	5,959.63	5,792.26	167.36	35.609	
6,600.00	5,254.46	5,206.54	5,193.46	80.49	89.93	89.25	-4,236.76	5,643.58	5,958.00	5,787.60	170.40	34.965	
6,700.00	5,327.41	5,266.41	5,266.41	82.01	90.97	89.73	-4,236.76	5,643.58	5,957.17	5,784.19	172.98	34.439	
6,756.66	5,368.75	5,307.75	5,307.75	82.87	91.70	90.00	-4,236.76	5,643.58	5,957.04	5,782.48	174.56	34.126	
6,800.00	5,400.37	5,339.37	5,339.37	83.52	92.25	90.21	-4,236.76	5,643.58	5,957.11	5,781.35	175.77	33.892	
6,900.00	5,473.33	5,400.00	5,400.00	85.04	93.31	90.61	-4,236.76	5,643.58	5,957.86	5,779.52	178.34	33.408	
7,000.00	5,546.28	5,400.00	5,400.00	86.55	93.31	90.61	-4,236.76	5,643.58	5,959.98	5,780.16	179.81	33.146	
7,100.00	5,619.24	5,400.00	5,400.00	88.06	93.31	90.61	-4,236.76	5,643.58	5,963.77	5,782.52	181.25	32.904	
7,200.00	5,692.20	5,400.00	5,400.00	89.58	93.31	90.61	-4,236.76	5,643.58	5,969.23	5,786.59	182.65	32.682	
7,300.00	5,765.15	5,400.00	5,400.00	91.09	93.31	90.61	-4,236.76	5,643.58	5,976.36	5,792.36	184.00	32.480	
7,400.00	5,838.11	5,400.00	5,400.00	92.61	93.31	90.61	-4,236.76	5,643.58	5,985.16	5,799.84	185.32	32.297	
7,500.00	5,911.07	5,400.00	5,400.00	94.12	93.31	90.61	-4,236.76	5,643.58	5,995.61	5,809.02	186.59	32.133	
7,600.00	5,984.03	5,400.00	5,400.00	95.64	93.31	90.61	-4,236.76	5,643.58	6,007.71	5,819.89	187.82	31.987	
7,700.00	6,056.98	5,400.00	5,400.00	97.15	93.31	90.61	-4,236.76	5,643.58	6,021.44	5,832.44	189.01	31.858	
7,800.00	6,129.94	5,400.00	5,400.00	98.67	93.31	90.61	-4,236.76	5,643.58	6,036.80	5,846.65	190.15	31.748	
7,900.00	6,202.90	5,400.00	5,400.00	100.18	93.31	90.61	-4,236.76	5,643.58	6,053.77	5,862.53	191.25	31.654	
8,000.00	6,275.85	5,400.00	5,400.00	101.70	93.31	90.61	-4,236.76	5,643.58	6,072.35	5,880.04	192.30	31.577	
8,100.00	6,348.81	5,400.00	5,400.00	103.21	93.31	90.61	-4,236.76	5,643.58	6,092.50	5,899.19	193.31	31.516	
8,200.00	6,421.77	5,400.00	5,400.00	104.73	93.31	90.61	-4,236.76	5,643.58	6,114.23	5,919.95	194.28	31.471	
8,300.00	6,494.72	5,400.00	5,400.00	106.24	93.31	90.61	-4,236.76	5,643.58	6,137.51	5,942.30	195.20	31.442	
8,400.00	6,567.68	5,400.00	5,400.00	107.76	93.31	90.61	-4,236.76	5,643.58	6,162.32	5,966.24	196.08	31.427	
8,500.00	6,640.64	5,400.00	5,400.00	109.27	93.31	90.61	-4,236.76	5,643.58	6,188.65	5,991.73	196.92	31.427	
8,600.00	6,713.59	5,400.00	5,400.00	110.79	93.31	90.61	-4,236.76	5,643.58	6,216.48	6,018.77	197.72	31.442	
8,700.00	6,786.55	5,400.00	5,400.00	112.30	93.31	90.61	-4,236.76	5,643.58	6,245.79	6,047.32	198.47	31.470	
8,800.00	6,859.51	5,400.00	5,400.00	113.82	93.31	90.61	-4,236.76	5,643.58	6,276.55	6,077.37	199.18	31.512	
8,900.00	6,932.46	5,400.00	5,400.00	115.33	93.31	90.61	-4,236.76	5,643.58	6,308.74	6,108.89	199.85	31.567	
9,000.00	7,005.42	5,400.00	5,400.00	116.85	93.31	90.61	-4,236.76	5,643.58	6,342.36	6,141.87	200.48	31.636	
9,104.89	7,081.95	5,400.00	5,400.00	118.44	93.31	90.61	-4,236.76	5,643.58	6,379.10	6,178.00	201.10	31.721	
9,150.00	7,115.15	5,400.00	5,400.00	119.12	93.31	86.23	-4,236.76	5,643.58	6,393.76	6,192.40	201.35	31.754	
9,200.00	7,152.46	5,400.00	5,400.00	119.86	93.31	81.01	-4,236.76	5,643.58	6,406.50	6,204.88	201.62	31.775	
9,250.00	7,190.04	5,400.00	5,400.00	120.57	93.31	75.54	-4,236.76	5,643.58	6,415.48	6,213.62	201.86	31.782	
9,300.00	7,227.59	5,400.00	5,400.00	121.25	93.31	69.99	-4,236.76	5,643.58	6,420.66	6,218.58	202.08	31.773	
9,350.00	7,264.83	5,400.00	5,400.00	121.89	93.31	64.51	-4,236.76	5,643.58	6,422.00	6,219.74	202.26	31.751	
9,400.00	7,301.48	5,400.00	5,400.00	122.48	93.31	59.23	-4,236.76	5,643.58	6,419.50	6,217.08	202.41	31.715	
9,450.00	7,337.26	5,400.00	5,400.00	123.01	93.31	54.24	-4,236.76	5,643.58	6,413.16	6,210.64	202.52	31.667	
9,500.00	7,371.90	5,400.00	5,400.00	123.49	93.31	49.60	-4,236.76	5,643.58	6,403.03	6,200.44	202.59	31.606	
9,550.00	7,405.13	5,400.00	5,400.00	123.91	93.31	45.31	-4,236.76	5,643.58	6,389.17	6,186.55	202.61	31.534	
9,600.00	7,436.70	5,400.00	5,400.00	124.27	93.31	41.37	-4,236.76	5,643.58	6,371.65	6,169.06	202.59	31.450	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,650.00	7,466.36	5,400.00	5,400.00	124.57	93.31	37.73	-4,236.76	5,643.58	6,350.59	6,148.05	202.53	31.356	
9,700.00	7,493.91	5,400.00	5,400.00	124.81	93.31	34.34	-4,236.76	5,643.58	6,326.10	6,123.66	202.43	31.250	
9,750.00	7,519.11	5,400.00	5,400.00	125.00	93.31	31.13	-4,236.76	5,643.58	6,298.33	6,096.03	202.30	31.134	
9,800.00	7,541.79	5,400.00	5,400.00	125.12	93.31	28.02	-4,236.76	5,643.58	6,267.46	6,065.33	202.13	31.007	
9,850.00	7,561.77	5,400.00	5,400.00	125.20	93.31	24.92	-4,236.76	5,643.58	6,233.67	6,031.74	201.93	30.871	
9,900.00	7,578.90	5,400.00	5,400.00	125.23	93.31	21.70	-4,236.76	5,643.58	6,197.18	5,995.47	201.71	30.723	
9,950.00	7,593.04	5,400.00	5,400.00	125.22	93.31	18.21	-4,236.76	5,643.58	6,158.22	5,956.75	201.47	30.566	
10,000.00	7,604.09	5,400.00	5,400.00	125.17	93.31	14.22	-4,236.76	5,643.58	6,117.03	5,915.81	201.22	30.399	
10,050.00	7,611.97	5,400.00	5,400.00	125.08	93.31	9.41	-4,236.76	5,643.58	6,073.90	5,872.93	200.97	30.223	
10,100.00	7,616.61	5,400.00	5,400.00	124.97	93.31	3.31	-4,236.76	5,643.58	6,029.11	5,828.39	200.72	30.037	
10,145.95	7,618.00	5,400.00	5,400.00	124.84	93.31	-4.05	-4,236.76	5,643.58	5,986.75	5,786.25	200.50	29.858	
10,200.00	7,618.00	5,400.00	5,400.00	124.69	93.31	-4.05	-4,236.76	5,643.58	5,936.38	5,736.13	200.25	29.645	
10,300.00	7,618.00	5,400.00	5,400.00	124.41	93.31	-4.05	-4,236.76	5,643.58	5,843.37	5,643.60	199.76	29.251	
10,400.00	7,618.00	5,400.00	5,400.00	124.14	93.31	-4.05	-4,236.76	5,643.58	5,750.59	5,551.33	199.26	28.860	
10,500.00	7,618.00	5,400.00	5,400.00	123.88	93.31	-4.05	-4,236.76	5,643.58	5,658.05	5,459.32	198.73	28.472	
10,600.00	7,618.00	5,400.00	5,400.00	123.63	93.31	-4.05	-4,236.76	5,643.58	5,565.77	5,367.60	198.17	28.085	
10,700.00	7,618.00	5,400.00	5,400.00	123.40	93.31	-4.05	-4,236.76	5,643.58	5,473.77	5,276.17	197.60	27.702	
10,800.00	7,618.00	5,400.00	5,400.00	123.18	93.31	-4.05	-4,236.76	5,643.58	5,382.05	5,185.05	196.99	27.321	
10,900.00	7,618.00	5,400.00	5,400.00	122.96	93.31	-4.05	-4,236.76	5,643.58	5,290.62	5,094.26	196.36	26.943	
11,000.00	7,618.00	5,400.00	5,400.00	122.76	93.31	-4.05	-4,236.76	5,643.58	5,199.52	5,003.81	195.71	26.568	
11,100.00	7,618.00	5,400.00	5,400.00	122.57	93.31	-4.05	-4,236.76	5,643.58	5,108.75	4,913.73	195.02	26.197	
11,200.00	7,618.00	5,400.00	5,400.00	122.39	93.31	-4.05	-4,236.76	5,643.58	5,018.33	4,824.03	194.29	25.829	
11,300.00	7,618.00	5,400.00	5,400.00	122.23	93.31	-4.05	-4,236.76	5,643.58	4,928.27	4,734.74	193.53	25.465	
11,400.00	7,618.00	5,400.00	5,400.00	122.07	93.31	-4.05	-4,236.76	5,643.58	4,838.61	4,645.87	192.74	25.104	
11,500.00	7,618.00	5,400.00	5,400.00	121.93	93.31	-4.05	-4,236.76	5,643.58	4,749.37	4,557.46	191.91	24.749	
11,600.00	7,618.00	5,400.00	5,400.00	121.79	93.31	-4.05	-4,236.76	5,643.58	4,660.55	4,469.53	191.03	24.397	
11,700.00	7,618.00	5,400.00	5,400.00	121.67	93.31	-4.05	-4,236.76	5,643.58	4,572.20	4,382.10	190.11	24.051	
11,800.00	7,618.00	5,400.00	5,400.00	121.56	93.31	-4.05	-4,236.76	5,643.58	4,484.35	4,295.21	189.14	23.709	
11,900.00	7,618.00	5,400.00	5,400.00	121.46	93.31	-4.05	-4,236.76	5,643.58	4,397.00	4,208.88	188.12	23.373	
12,000.00	7,618.00	5,400.00	5,400.00	121.38	93.31	-4.05	-4,236.76	5,643.58	4,310.21	4,123.17	187.05	23.043	
12,100.00	7,618.00	5,400.00	5,400.00	121.30	93.31	-4.05	-4,236.76	5,643.58	4,224.01	4,038.09	185.92	22.720	
12,200.00	7,618.00	5,400.00	5,400.00	121.24	93.31	-4.05	-4,236.76	5,643.58	4,138.42	3,953.70	184.73	22.403	
12,300.00	7,618.00	5,400.00	5,400.00	121.19	93.31	-4.05	-4,236.76	5,643.58	4,053.49	3,870.03	183.47	22.094	
12,400.00	7,618.00	5,400.00	5,400.00	121.16	93.31	-4.05	-4,236.76	5,643.58	3,969.27	3,787.13	182.14	21.792	
12,500.00	7,618.00	5,400.00	5,400.00	121.14	93.31	-4.05	-4,236.76	5,643.58	3,885.80	3,705.05	180.74	21.499	
12,600.00	7,618.00	5,400.00	5,400.00	121.13	93.31	-4.05	-4,236.76	5,643.58	3,803.12	3,623.85	179.27	21.215	
12,700.00	7,618.00	5,400.00	5,400.00	121.13	93.31	-4.05	-4,236.76	5,643.58	3,721.29	3,543.59	177.70	20.941	
12,800.00	7,618.00	5,400.00	5,400.00	121.15	93.31	-4.05	-4,236.76	5,643.58	3,640.37	3,464.32	176.05	20.678	
12,900.00	7,618.00	5,400.00	5,400.00	121.18	93.31	-4.05	-4,236.76	5,643.58	3,560.42	3,386.11	174.31	20.426	
13,000.00	7,618.00	5,400.00	5,400.00	121.23	93.31	-4.05	-4,236.76	5,643.58	3,481.50	3,309.04	172.47	20.187	
13,100.00	7,618.00	5,400.00	5,400.00	121.29	93.31	-4.05	-4,236.76	5,643.58	3,403.70	3,233.18	170.52	19.961	
13,200.00	7,618.00	5,400.00	5,400.00	121.37	93.31	-4.05	-4,236.76	5,643.58	3,327.08	3,158.62	168.46	19.750	
13,300.00	7,618.00	5,400.00	5,400.00	121.46	93.31	-4.05	-4,236.76	5,643.58	3,251.73	3,085.45	166.28	19.556	
13,400.00	7,618.00	5,400.00	5,400.00	121.57	93.31	-4.05	-4,236.76	5,643.58	3,177.74	3,013.76	163.98	19.378	
13,500.00	7,618.00	5,400.00	5,400.00	121.70	93.31	-4.05	-4,236.76	5,643.58	3,105.21	2,943.65	161.56	19.220	
13,600.00	7,618.00	5,400.00	5,400.00	121.84	93.31	-4.05	-4,236.76	5,643.58	3,034.24	2,875.24	159.01	19.082	
13,700.00	7,618.00	5,400.00	5,400.00	122.01	93.31	-4.05	-4,236.76	5,643.58	2,964.95	2,808.63	156.32	18.967	
13,800.00	7,618.00	5,400.00	5,400.00	122.19	93.31	-4.05	-4,236.76	5,643.58	2,897.45	2,743.96	153.49	18.877	
13,900.00	7,618.00	5,400.00	5,400.00	122.39	93.31	-4.05	-4,236.76	5,643.58	2,831.88	2,681.34	150.53	18.813	
14,000.00	7,618.00	5,400.00	5,400.00	122.62	93.31	-4.05	-4,236.76	5,643.58	2,768.36	2,620.93	147.43	18.777	
14,100.00	7,618.00	5,400.00	5,400.00	122.86	93.31	-4.05	-4,236.76	5,643.58	2,707.05	2,562.84	144.20	18.772	
14,200.00	7,618.00	5,400.00	5,400.00	123.12	93.31	-4.05	-4,236.76	5,643.58	2,648.09	2,507.24	140.85	18.801	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,300.00	7,618.00	5,400.00	5,400.00	123.41	93.31	-4.05	-4,236.76	5,643.58	2,591.66	2,454.28	137.38	18.865	
14,400.00	7,618.00	5,400.00	5,400.00	123.72	93.31	-4.05	-4,236.76	5,643.58	2,537.91	2,404.10	133.81	18.966	
14,500.00	7,618.00	5,400.00	5,400.00	124.06	93.31	-4.05	-4,236.76	5,643.58	2,487.02	2,356.85	130.17	19.106	
14,600.00	7,618.00	5,400.00	5,400.00	124.42	93.31	-4.05	-4,236.76	5,643.58	2,439.18	2,312.70	126.48	19.286	
14,700.00	7,618.00	5,400.00	5,400.00	124.80	93.31	-4.05	-4,236.76	5,643.58	2,394.55	2,271.79	122.76	19.505	
14,800.00	7,618.00	5,400.00	5,400.00	125.21	93.31	-4.05	-4,236.76	5,643.58	2,353.33	2,234.26	119.08	19.763	
14,900.00	7,618.00	5,400.00	5,400.00	125.65	93.31	-4.05	-4,236.76	5,643.58	2,315.70	2,200.24	115.46	20.056	
15,000.00	7,618.00	5,400.00	5,400.00	126.11	93.31	-4.05	-4,236.76	5,643.58	2,281.83	2,169.86	111.97	20.378	
15,100.00	7,618.00	5,400.00	5,400.00	126.61	93.31	-4.05	-4,236.76	5,643.58	2,251.90	2,143.21	108.69	20.719	
15,200.00	7,618.00	5,400.00	5,400.00	127.13	93.31	-4.05	-4,236.76	5,643.58	2,226.06	2,120.37	105.69	21.062	
15,300.00	7,618.00	5,400.00	5,400.00	127.68	93.31	-4.05	-4,236.76	5,643.58	2,204.46	2,101.38	103.08	21.387	
15,400.00	7,618.00	5,400.00	5,400.00	128.26	93.31	-4.05	-4,236.76	5,643.58	2,187.22	2,086.23	100.99	21.659	
15,500.00	7,618.00	5,400.00	5,400.00	128.87	93.31	-4.05	-4,236.76	5,643.58	2,174.45	2,074.86	99.59	21.834	
15,600.00	7,618.00	5,400.00	5,400.00	129.51	93.31	-4.05	-4,236.76	5,643.58	2,166.22	2,067.14	99.08	21.863	
15,700.00	7,618.00	5,400.00	5,400.00	130.18	93.31	-4.05	-4,236.76	5,643.58	2,162.59	2,062.93	99.67	21.699	
15,728.53	7,618.00	5,400.00	5,400.00	130.37	93.31	-4.05	-4,236.76	5,643.58	2,162.40	2,062.36	100.05	21.614	CC
15,800.00	7,618.00	5,400.00	5,400.00	130.88	93.31	-4.05	-4,236.76	5,643.58	2,163.59	2,062.15	101.43	21.331	ES
15,900.00	7,618.00	5,400.00	5,400.00	131.61	93.31	-4.05	-4,236.76	5,643.58	2,169.19	2,064.88	104.31	20.795	
16,000.00	7,618.00	5,400.00	5,400.00	132.37	93.31	-4.05	-4,236.76	5,643.58	2,179.38	2,071.28	108.10	20.160	
16,100.00	7,618.00	5,400.00	5,400.00	133.17	93.31	-4.05	-4,236.76	5,643.58	2,194.08	2,081.54	112.54	19.495	
16,200.00	7,618.00	5,400.00	5,400.00	133.99	93.31	-4.05	-4,236.76	5,643.58	2,213.21	2,095.80	117.40	18.851	
16,300.00	7,618.00	5,400.00	5,400.00	134.84	93.31	-4.05	-4,236.76	5,643.58	2,236.64	2,114.15	122.50	18.259	
16,400.00	7,618.00	5,400.00	5,400.00	135.72	93.31	-4.05	-4,236.76	5,643.58	2,264.26	2,136.57	127.68	17.733	
16,500.00	7,618.00	5,400.00	5,400.00	136.63	93.31	-4.05	-4,236.76	5,643.58	2,295.90	2,163.04	132.86	17.280	
16,600.00	7,618.00	5,400.00	5,400.00	137.57	93.31	-4.05	-4,236.76	5,643.58	2,331.41	2,193.45	137.96	16.899	
16,700.00	7,618.00	5,400.00	5,400.00	138.54	93.31	-4.05	-4,236.76	5,643.58	2,370.60	2,227.68	142.92	16.587	
16,800.00	7,618.00	5,400.00	5,400.00	139.53	93.31	-4.05	-4,236.76	5,643.58	2,413.30	2,265.61	147.70	16.340	
16,900.00	7,618.00	5,400.00	5,400.00	140.55	93.31	-4.05	-4,236.76	5,643.58	2,459.34	2,307.06	152.27	16.151	
17,000.00	7,618.00	5,400.00	5,400.00	141.60	93.31	-4.05	-4,236.76	5,643.58	2,508.51	2,351.89	156.63	16.016	
17,100.00	7,618.00	5,400.00	5,400.00	142.67	93.31	-4.05	-4,236.76	5,643.58	2,560.65	2,399.90	160.75	15.930	
17,200.00	7,618.00	5,400.00	5,400.00	143.77	93.31	-4.05	-4,236.76	5,643.58	2,615.57	2,450.94	164.64	15.887	
17,300.00	7,618.00	5,400.00	5,400.00	144.88	93.31	-4.05	-4,236.76	5,643.58	2,673.11	2,504.82	168.29	15.884	SF
17,400.00	7,618.00	5,400.00	5,400.00	146.02	93.31	-4.05	-4,236.76	5,643.58	2,733.09	2,561.38	171.72	15.916	
17,500.00	7,618.00	5,400.00	5,400.00	147.19	93.31	-4.05	-4,236.76	5,643.58	2,795.37	2,620.45	174.92	15.981	
17,600.00	7,618.00	5,400.00	5,400.00	148.37	93.31	-4.05	-4,236.76	5,643.58	2,859.79	2,681.87	177.91	16.074	
17,700.00	7,618.00	5,400.00	5,400.00	149.57	93.31	-4.05	-4,236.76	5,643.58	2,926.21	2,745.50	180.70	16.193	
17,800.00	7,618.00	5,400.00	5,400.00	150.79	93.31	-4.05	-4,236.76	5,643.58	2,994.49	2,811.19	183.30	16.336	
17,900.00	7,618.00	5,400.00	5,400.00	152.03	93.31	-4.05	-4,236.76	5,643.58	3,064.52	2,878.79	185.72	16.500	
18,000.00	7,618.00	5,400.00	5,400.00	153.29	93.31	-4.05	-4,236.76	5,643.58	3,136.17	2,948.20	187.97	16.684	
18,100.00	7,618.00	5,400.00	5,400.00	154.57	93.31	-4.05	-4,236.76	5,643.58	3,209.34	3,019.27	190.07	16.885	
18,200.00	7,618.00	5,400.00	5,400.00	155.86	93.31	-4.05	-4,236.76	5,643.58	3,283.92	3,091.91	192.01	17.102	
18,300.00	7,618.00	5,400.00	5,400.00	157.17	93.31	-4.05	-4,236.76	5,643.58	3,359.83	3,166.00	193.83	17.334	
18,400.00	7,618.00	5,400.00	5,400.00	158.49	93.31	-4.05	-4,236.76	5,643.58	3,436.97	3,241.46	195.51	17.580	
18,500.00	7,618.00	5,400.00	5,400.00	159.82	93.31	-4.05	-4,236.76	5,643.58	3,515.26	3,318.18	197.08	17.837	
18,600.00	7,618.00	5,400.00	5,400.00	161.17	93.31	-4.05	-4,236.76	5,643.58	3,594.63	3,396.09	198.53	18.106	
18,700.00	7,618.00	5,400.00	5,400.00	162.54	93.31	-4.05	-4,236.76	5,643.58	3,675.00	3,475.11	199.89	18.385	
18,800.00	7,618.00	5,400.00	5,400.00	163.91	93.31	-4.05	-4,236.76	5,643.58	3,756.32	3,555.16	201.16	18.674	
18,900.00	7,618.00	5,400.00	5,400.00	165.30	93.31	-4.05	-4,236.76	5,643.58	3,838.52	3,636.18	202.34	18.971	
19,000.00	7,618.00	5,400.00	5,400.00	166.70	93.31	-4.05	-4,236.76	5,643.58	3,921.54	3,718.11	203.44	19.277	
19,100.00	7,618.00	5,400.00	5,400.00	168.10	93.31	-4.05	-4,236.76	5,643.58	4,005.35	3,800.88	204.46	19.590	
19,200.00	7,618.00	5,400.00	5,400.00	169.52	93.31	-4.05	-4,236.76	5,643.58	4,089.88	3,884.45	205.42	19.910	
19,300.00	7,618.00	5,400.00	5,400.00	170.95	93.31	-4.05	-4,236.76	5,643.58	4,175.09	3,968.77	206.32	20.236	

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 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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

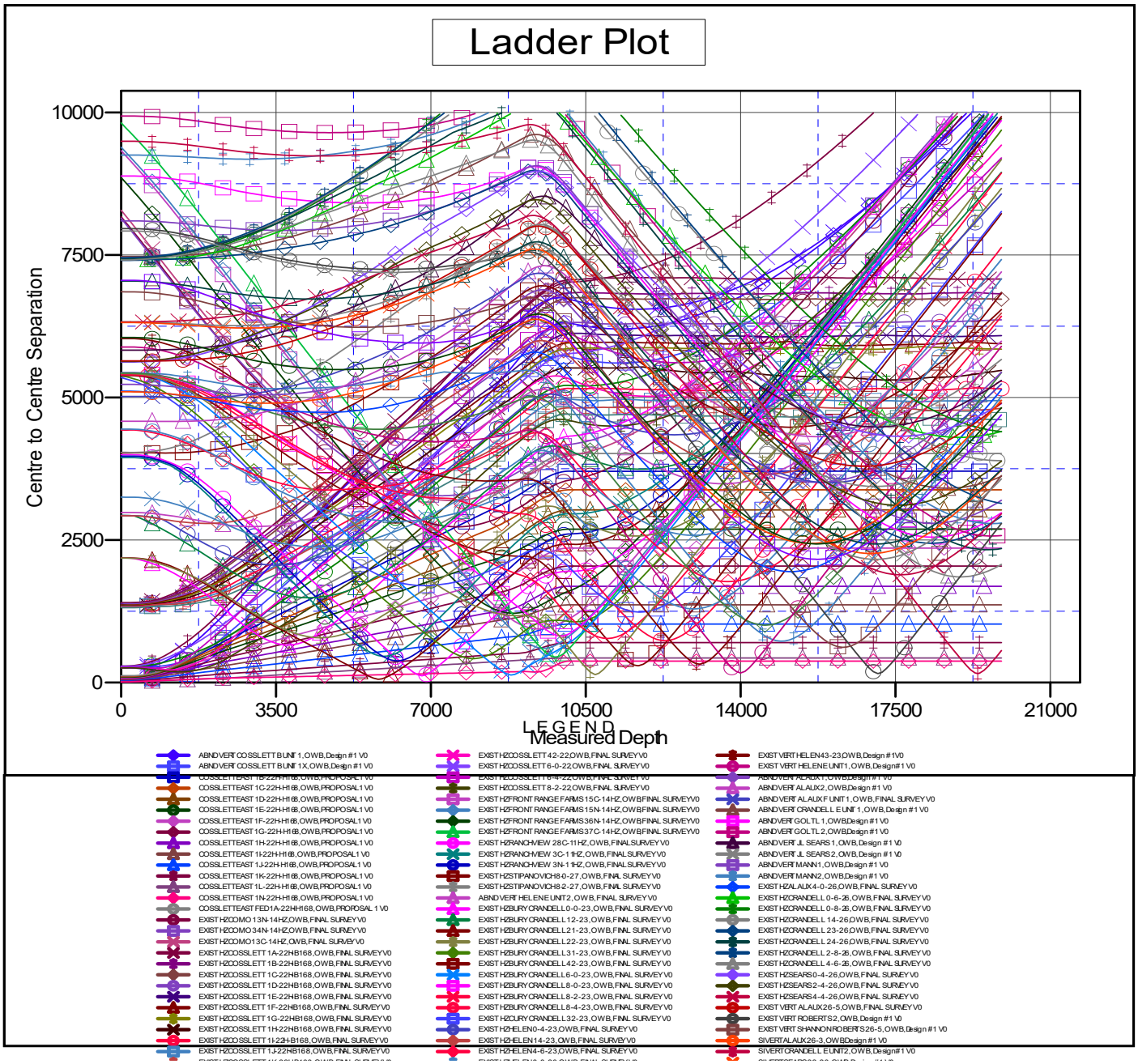
Offset Well Error: 0.00 usft

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
19,400.00	7,618.00	5,400.00	5,400.00	172.39	93.31	-4.05	-4,236.76	5,643.58	4,260.95	4,053.79	207.16	20.569	
19,500.00	7,618.00	5,400.00	5,400.00	173.84	93.31	-4.05	-4,236.76	5,643.58	4,347.41	4,139.47	207.94	20.907	
19,600.00	7,618.00	5,400.00	5,400.00	175.30	93.31	-4.05	-4,236.76	5,643.58	4,434.44	4,225.76	208.68	21.250	
19,700.00	7,618.00	5,400.00	5,400.00	176.76	93.31	-4.05	-4,236.76	5,643.58	4,522.01	4,312.64	209.37	21.598	
19,800.00	7,618.00	5,400.00	5,400.00	178.24	93.31	-4.05	-4,236.76	5,643.58	4,610.08	4,400.07	210.02	21.951	
19,896.19	7,618.00	5,400.00	5,400.00	179.66	93.31	-4.05	-4,236.76	5,643.58	4,695.25	4,484.65	210.60	22.294	

Anticollision Report

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

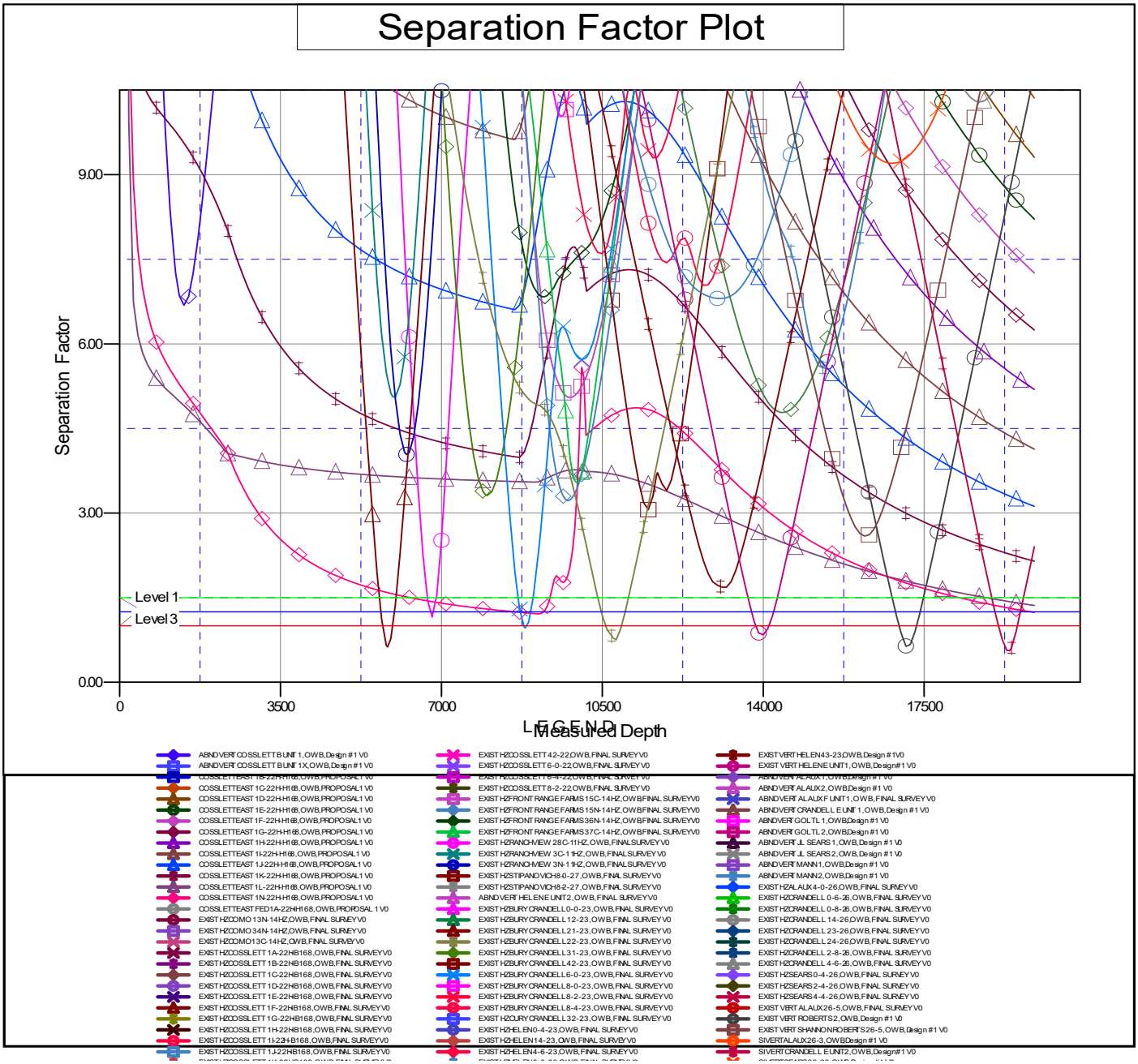
Reference Depths are relative to KB 25' @ 5206.00usft	Coordinates are relative to: COSSLETT EAST 1M-22H-H168
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is 105.500000°W	Grid Convergence at Surface is: 0.33°



Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1M-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5206.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1M-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 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' @ 5206.00usft
Offset Depths are relative to Offset Datum
Central Meridian is 105.500000°W

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

Separation Factor Plot