CRESTONE PEAK RESOURCES

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

OWB
PROPOSAL 1

Anticollision Report

28 February, 2022

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 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** 2/28/2022

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	18,154.00	PROPOSAL 1 (OWB)	MWD OWSG	OWSG MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC 22-T1N-R68W						
ABND VERT COSSLETT B UNIT 1 - OWB - Design #1	2,772.32	2,705.39	35.17	-22.06	0.615	Level 1, CC, ES, SF
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	2,519.02	2,475.78	140.84	89.19	2.727	CC, ES
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	2,600.00	2,550.21	144.41	91.04	2.706	SF
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	1,300.00	1,300.00	10.36	1.49	1.168	Level 2, CC, ES, SF
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	1,200.00	1,200.00	20.16	12.01	2.472	CC, ES
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	18,154.00	18,428.81	647.51	326.81	2.019	SF
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	1,100.00	1,100.00	30.24	22.80	4.066	CC, ES
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	18,154.00	18,462.53	989.86	664.13	3.039	SF
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	1,000.00	1,000.00	40.32	33.60	5.999	CC, ES
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	18,154.00	18,802.89	1,361.02	1,042.02	4.267	SF
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	900.00	900.00	50.12	44.12	8.348	CC, ES
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	18,154.00	18,603.17	1,666.33	1,339.90	5.105	SF
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	800.00	799.00	60.20	54.92	11.393	CC, ES
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	18,154.00	18,942.39	1,982.02	1,657.59	6.109	SF
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	700.00	699.00	70.28	65.72	15.390	CC, ES
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	18,154.00	19,021.79	2,329.57	2,003.81	7.151	SF
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	600.00	599.00	80.08	76.23	20.801	CC, ES
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	18,154.00	19,383.51	2,690.23	2,367.24	8.329	SF
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	500.00	498.00	90.16	87.03	28.811	CC, ES
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	18,154.00	19,430.54	3,001.02	2,676.01	9.234	SF
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	400.00	398.00	100.24	97.83	41.552	CC, ES
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	18,154.00	19,518.56	3,319.16	2,993.16	10.182	SF
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	300.00	298.00	110.32	108.63	65.066	CC, ES
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	18,154.00	19,889.26	3,677.25	3,353.18	11.347	SF
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	200.00	198.00	120.12	119.14	122.747	CC, ES
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	18,154.00	19,796.12	4,021.84	3,694.78	12.297	SF
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	100.00	98.00	130.21	129.94	489.191	CC, ES
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	18,154.00	20,184.95	4,380.23	4,054.45	13.445	SF
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,100.00	16,236.00	592.35	418.85	3.414	SF
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,148.26	16,236.00	589.07	418.31	3.450	CC, ES
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,128.58	16,659.00	369.30	263.20	3.481	CC
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,150.00	16,659.00	370.27	263.07	3.454	ES, SF
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,150.00	16,530.00	460.63	374.69	5.360	SF
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,181.77	16,530.00	458.66	373.65	5.395	CC, ES
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	0.00	0.00	1,304.57			
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	200.00	179.20	1,305.14	1,304.37	1,685.498	ES
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	18,154.00	17,546.00	3,074.44	2,743.66	9.295	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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC 22-T1N-R68W						
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	543.21	536.52	1,294.54	1,291.19	386.386	CC, ES
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	18,154.00	17,340.00	2,805.27	2,472.88	8.440	SF
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	297.61	286.61	1,288.24	1,286.73	852.775	CC
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	600.00	584.09	1,288.72	1,285.08	354.064	ES
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	18,154.00	17,471.00	2,713.75	2,381.32	8.163	SF
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	100.00	88.02	1,280.77	1,280.49	4,561.375	CC
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	400.00	382.06	1,281.45	1,279.49	651.092	ES
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	18,154.00	17,481.73	2,349.76	2,018.00	7.083	SF
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	623.16	616.93	1,241.62	1,239.07	487.502	CC
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	700.00	678.10	1,242.03	1,238.95	402.849	ES
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	18,154.00	17,411.22	2,070.95	1,740.30	6.263	SF
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	100.00	88.55	1,264.68	1,264.40	4,562.035	CC
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	1,600.00	1,586.55	1,273.31	1,262.48	117.581	ES
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	18,154.00	17,796.00	1,951.86	1,621.57	5.910	SF
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	1,370.24	1,361.73	1,256.33	1,247.35	139.835	CC
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	1,400.00	1,384.90	1,256.41	1,247.22	136.777	ES
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	18,154.00	17,487.00	1,833.35	1,500.47	5.507	SF
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	3,540.12	3,507.89	1,174.37	1,143.39	37.913	CC
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	15,700.00	15,221.45	1,303.49	1,056.95	5.287	ES
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	18,154.00	17,609.25	1,485.57	1,159.25	4.552	SF
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	5,207.19	5,184.87	966.32	914.15	18.524	CC
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	18,150.02	17,583.00	1,134.82	801.84	3.408	ES, SF
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	5,972.34	5,961.86	853.40	793.31	14.201	CC
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	18,154.00	17,653.17	936.98	605.56	2.827	ES, SF
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	5,722.85	5,717.80	798.32	741.99	14.172	CC
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	17,500.00	17,219.08	840.77	551.22	2.904	ES
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	17,700.00	17,386.17	848.12	554.54	2.889	SF
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	6,195.35	6,176.61	631.04	566.79	9.822	CC
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	18,154.00	17,827.28	639.40	320.34	2.004	ES, SF
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	737.69	731.26	199.83	194.92	40.663	CC
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	800.00	791.55	200.31	194.88	36.941	ES
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	1,500.00	1,476.72	258.34	247.28	23.360	SF
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	0.00	0.00	230.26			
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	100.00	88.13	230.41	230.13	825.092	ES
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	7,300.00	7,139.37	2,767.03	2,691.18	36.478	SF
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	100.00	89.25	224.66	224.39	803.597	CC, ES
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	4,600.00	4,476.97	314.25	268.30	6.838	SF
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,383.46	1,390.97	146.23	136.00	14.302	CC
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,500.00	1,504.15	146.92	135.73	13.128	ES
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,900.00	1,891.61	161.58	147.75	11.687	SF
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	173.96	163.97	226.81	226.10	316.814	CC
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	200.00	188.28	226.91	226.02	253.756	ES
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	5,800.00	5,590.73	1,171.13	1,109.08	18.874	SF
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	1,368.97	1,385.91	32.91	22.17	3.064	CC, ES, SF
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	702.74	696.99	212.57	207.84	44.937	CC, ES
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	9,400.00	7,755.79	487.66	421.65	7.388	SF
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	8,150.00	15,353.00	3,114.64	2,939.15	17.748	SF
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	8,294.30	15,353.00	3,104.11	2,930.29	17.858	CC, ES
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	8,100.00	15,243.00	3,441.97	3,265.05	19.455	SF
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	8,287.66	15,243.00	3,426.16	3,251.03	19.564	CC, ES
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,100.00	15,134.00	2,529.31	2,352.76	14.326	SF
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,250.00	15,134.00	2,517.99	2,343.79	14.455	ES
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,250.79	15,134.00	2,517.99	2,343.81	14.456	CC

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 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 37C-14HZ - OWB - F	8,100.00	15,352.00	4,023.53	3,847.43	22.848	SF
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	8,300.00	15,352.00	4,003.73	3,829.72	23.008	ES
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	8,311.35	15,352.00	4,003.67	3,829.80	23.026	CC
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	8,150.00	7,783.58	2,103.73	2,032.25	29.433	SF
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	8,433.10	7,729.11	2,065.20	1,996.63	30.115	CC, ES
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	8,250.00	7,835.10	1,080.68	1,008.15	14.900	SF
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	8,434.00	7,776.40	1,057.95	988.85	15.310	CC, ES
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	8,100.00	7,756.00	1,456.46	1,384.57	20.261	SF
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	8,350.00	7,706.11	1,416.59	1,348.16	20.699	ES
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	8,373.43	7,694.32	1,416.32	1,348.18	20.785	CC
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	13,368.60	7,707.76	460.91	350.17	4.162	CC, ES, SF
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	14,600.00	7,780.24	454.74	318.45	3.337	SF
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	14,650.41	7,779.27	451.94	316.63	3.340	CC, ES

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Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC 23-T1N-R68W						
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	11,834.04	7,576.63	530.79	444.48	6.149	CC, ES
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	11,900.00	7,575.40	534.87	446.60	6.059	SF
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	6,957.66	6,626.46	30.40	-37.36	0.449	Level 1, CC, ES, SF
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	9,983.92	7,936.56	274.84	194.59	3.425	CC, ES
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	10,000.00	7,937.20	275.31	194.83	3.421	SF
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	8,150.00	7,662.85	1,655.74	1,582.94	22.742	SF
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	8,481.00	7,749.98	1,594.91	1,527.70	23.732	ES
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	8,509.67	7,750.25	1,594.65	1,527.95	23.906	CC
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	9,859.42	7,757.22	1,448.31	1,378.40	20.717	CC, ES
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	10,300.00	7,757.39	1,513.84	1,438.59	20.118	SF
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	8,100.00	7,555.14	3,012.07	2,941.90	42.927	SF
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	8,481.00	7,661.87	2,954.53	2,887.75	44.245	ES
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	8,505.35	7,661.94	2,954.43	2,887.87	44.391	CC
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	9,916.34	7,668.60	4,315.20	4,244.90	61.389	CC, ES
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	12,600.00	7,691.45	5,081.55	4,979.55	49.818	SF
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	7,950.00	7,486.36	3,477.68	3,405.90	48.444	SF
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	8,300.00	7,656.65	3,432.20	3,362.86	49.495	ES
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	8,311.59	7,659.53	3,432.15	3,362.90	49.564	CC
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	7,900.00	7,454.90	4,862.25	4,789.90	67.200	SF
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	8,332.96	7,672.18	4,806.17	4,737.08	69.567	CC, ES
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	9,232.03	7,643.31	4,791.53	4,727.48	74.816	CC, ES
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	12,900.00	7,662.14	6,034.26	5,932.44	59.265	SF
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	10,533.97	7,748.59	4,752.14	4,669.13	57.244	CC
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	10,600.00	7,749.37	4,752.60	4,668.74	56.672	ES
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	13,200.00	7,792.01	5,448.69	5,327.97	45.135	SF
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	9,966.33	7,727.13	2,781.97	2,710.26	38.791	CC, ES
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	11,100.00	7,731.52	3,004.09	2,923.48	37.267	SF
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	10,700.00	7,819.35	331.18	250.83	4.121	SF
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	10,748.65	7,819.55	327.59	248.44	4.139	CC, ES
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	12,784.29	7,711.99	365.18	259.92	3.469	CC
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	12,800.00	7,711.92	365.52	259.59	3.451	ES, SF
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	11,956.80	7,693.71	2,248.02	2,156.68	24.613	CC
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	12,000.00	7,692.59	2,248.44	2,156.35	24.416	ES
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	12,600.00	7,676.69	2,338.17	2,236.88	23.086	SF
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	13,168.70	7,883.01	4,745.26	4,635.83	43.362	CC
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	13,300.00	7,882.68	4,747.08	4,634.99	42.352	ES
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	15,500.00	7,874.22	5,287.00	5,137.66	35.403	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	8,400.00	7,534.51	3,918.52	3,747.00	22.846	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	8,961.69	7,540.00	3,876.52	3,709.26	23.177	CC, ES
EXIST VERT HELEN 23-23 - OWB - Design #1	11,180.88	7,571.00	1,435.73	1,253.54	7.880	CC
EXIST VERT HELEN 23-23 - OWB - Design #1	11,200.00	7,571.00	1,435.86	1,253.33	7.867	ES
EXIST VERT HELEN 23-23 - OWB - Design #1	11,400.00	7,571.00	1,452.35	1,266.41	7.811	SF
EXIST VERT HELEN 33-23 - OWB - Design #1	11,172.68	7,608.00	2,726.59	2,543.87	14.922	CC
EXIST VERT HELEN 33-23 - OWB - Design #1	11,200.00	7,608.00	2,726.73	2,543.60	14.889	ES
EXIST VERT HELEN 33-23 - OWB - Design #1	11,800.00	7,608.00	2,797.83	2,605.46	14.544	SF
EXIST VERT HELEN 34-23 - OWB - Design #1	12,792.76	7,583.00	3,012.39	2,807.20	14.681	CC
EXIST VERT HELEN 34-23 - OWB - Design #1	12,900.00	7,583.00	3,014.30	2,807.03	14.543	ES
EXIST VERT HELEN 34-23 - OWB - Design #1	13,500.00	7,583.00	3,094.30	2,876.61	14.214	SF
EXIST VERT HELEN 43-23 - OWB - Design #1	11,312.60	7,575.00	4,342.82	4,158.91	23.613	CC
EXIST VERT HELEN 43-23 - OWB - Design #1	11,400.00	7,575.00	4,343.70	4,158.50	23.454	ES
EXIST VERT HELEN 43-23 - OWB - Design #1	12,700.00	7,575.00	4,559.05	4,354.10	22.245	SF
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	12,240.41	7,581.00	3,849.12	3,652.27	19.554	CC
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	12,300.00	7,581.00	3,849.58	3,651.68	19.452	ES

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

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC 23-T1N-R68W						
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	13,300.00	7,581.00	3,992.30	3,777.90	18.621 SF	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 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	13,978.80	5,050.00	3,010.48	2,889.33	24.850	CC
ABND VERT ALAUX 1 - OWB - Design #1	14,000.00	5,050.00	3,010.55	2,889.04	24.776	ES
ABND VERT ALAUX 1 - OWB - Design #1	15,200.00	5,050.00	3,248.74	3,104.94	22.593	SF
ABND VERT ALAUX 2 - OWB - Design #1	13,983.40	5,450.00	2,172.64	2,093.20	27.348	CC
ABND VERT ALAUX 2 - OWB - Design #1	14,000.00	5,450.00	2,172.71	2,092.99	27.256	ES
ABND VERT ALAUX 2 - OWB - Design #1	15,400.00	5,450.00	2,593.68	2,468.60	20.737	SF
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	14,245.70	7,625.17	512.69	388.85	4.140	CC, ES
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	14,300.00	7,625.06	515.56	389.70	4.096	SF
ABND VERT CRANDELL E UNIT 1 - OWB - Design #1	16,924.98	7,646.00	609.99	335.53	2.223	CC, ES
ABND VERT CRANDELL E UNIT 1 - OWB - Design #1	17,000.00	7,646.00	614.59	337.77	2.220	SF
ABND VERT GOLTL 1 - OWB - Design #1	16,596.12	5,042.00	4,900.37	4,699.24	24.365	CC
ABND VERT GOLTL 1 - OWB - Design #1	16,700.00	5,042.00	4,901.47	4,698.39	24.135	ES
ABND VERT GOLTL 1 - OWB - Design #1	18,000.00	5,042.00	5,097.50	4,873.94	22.802	SF
ABND VERT GOLTL 2 - OWB - Design #1	17,914.85	5,020.00	4,912.50	4,692.12	22.292	CC
ABND VERT GOLTL 2 - OWB - Design #1	18,000.00	5,020.00	4,913.23	4,691.23	22.132	ES
ABND VERT GOLTL 2 - OWB - Design #1	18,154.00	5,020.00	4,918.31	4,693.46	21.873	SF
ABND VERT JL SEARS 1 - OWB - Design #1	15,311.61	5,125.00	2,488.87	2,401.64	28.530	CC, ES
ABND VERT JL SEARS 1 - OWB - Design #1	16,800.00	5,125.00	2,899.96	2,771.78	22.624	SF
ABND VERT JL SEARS 2 - OWB - Design #1	15,278.59	5,148.00	2,924.67	2,786.46	21.161	CC
ABND VERT JL SEARS 2 - OWB - Design #1	15,300.00	5,148.00	2,924.75	2,786.15	21.103	ES
ABND VERT JL SEARS 2 - OWB - Design #1	16,300.00	5,148.00	3,097.90	2,940.81	19.721	SF
ABND VERT MANN 1 - OWB - Design #1	16,579.33	5,050.00	3,844.36	3,660.69	20.931	CC
ABND VERT MANN 1 - OWB - Design #1	16,700.00	5,050.00	3,846.25	3,660.32	20.686	ES
ABND VERT MANN 1 - OWB - Design #1	17,600.00	5,050.00	3,977.54	3,777.01	19.835	SF
ABND VERT MANN 2 - OWB - Design #1	17,919.58	5,048.00	3,834.06	3,632.09	18.984	CC
ABND VERT MANN 2 - OWB - Design #1	18,000.00	5,048.00	3,834.90	3,631.40	18.845	ES
ABND VERT MANN 2 - OWB - Design #1	18,154.00	5,048.00	3,841.22	3,634.88	18.616	SF
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	13,380.86	7,677.41	2,072.99	1,963.09	18.862	CC
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	13,400.00	7,677.26	2,073.08	1,962.76	18.792	ES
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	13,900.00	7,673.26	2,137.00	2,017.91	17.944	SF
EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY	17,185.90	7,781.44	282.88	108.37	1.621	CC, ES, SF
EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY	18,154.00	8,032.05	492.99	326.01	2.952	CC, ES, SF
EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY	18,085.40	7,817.43	126.06	-70.05	0.643	Level 1, CC, ES, SF
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	16,545.76	7,765.33	1,574.55	1,410.95	9.625	CC
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	16,600.00	7,764.72	1,575.48	1,410.54	9.552	ES
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	16,800.00	7,762.46	1,594.94	1,426.25	9.455	SF
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	17,824.20	7,754.05	1,683.34	1,493.18	8.853	CC
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	17,900.00	7,755.39	1,685.04	1,492.54	8.754	ES
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	18,100.00	7,758.90	1,705.77	1,508.62	8.652	SF
EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY	18,154.00	7,920.79	974.61	793.06	5.368	CC, ES, SF
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	17,208.99	7,861.50	2,165.03	1,988.51	12.265	CC
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	17,300.00	7,861.36	2,166.95	1,987.98	12.108	ES
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	17,600.00	7,860.89	2,200.06	2,014.61	11.863	SF
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	15,838.51	7,740.21	302.89	149.51	1.975	CC, ES, SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	15,811.52	7,748.57	907.61	754.68	5.935	CC, ES
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	15,900.00	7,747.08	911.92	755.95	5.847	SF
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	15,856.71	7,680.63	2,128.21	1,975.04	13.894	CC
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	15,900.00	7,679.89	2,128.65	1,974.39	13.799	ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	16,300.00	7,673.01	2,173.88	2,011.93	13.424	SF
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	15,024.69	7,613.50	225.34	88.77	1.650	CC, ES, SF
EXIST VERT ROBERTS 2 - OWB - Design #1	15,350.27	7,601.00	4,177.07	3,930.08	16.912	CC
EXIST VERT ROBERTS 2 - OWB - Design #1	15,400.00	7,601.00	4,177.37	3,929.36	16.844	ES
EXIST VERT ROBERTS 2 - OWB - Design #1	16,300.00	7,601.00	4,283.68	4,019.98	16.244	SF

Anticollision Report

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

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC 26-T1N-R68W						
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	14,558.91	7,582.00	3,400.97	3,167.48	14.566	CC
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	14,600.00	7,582.00	3,401.22	3,166.87	14.514	ES
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	15,300.00	7,582.00	3,480.78	3,233.91	14.099	SF
SI VERT ALAUX 26-3 - OWB - Design #1	13,829.50	7,607.00	1,578.03	1,356.02	7.108	CC
SI VERT ALAUX 26-3 - OWB - Design #1	13,900.00	7,607.00	1,579.60	1,355.88	7.060	ES
SI VERT ALAUX 26-3 - OWB - Design #1	14,000.00	7,607.00	1,587.21	1,361.31	7.026	SF
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	17,600.17	7,604.00	3,860.01	3,574.73	13.531	CC
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	17,700.00	7,604.00	3,861.31	3,573.91	13.436	ES
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	18,154.00	7,604.00	3,899.54	3,603.83	13.187	SF
SI VERT SEARS 22-26 - OWB - Design #1	15,172.38	7,607.00	1,754.98	1,510.87	7.189	CC
SI VERT SEARS 22-26 - OWB - Design #1	15,200.00	7,607.00	1,755.20	1,510.39	7.170	ES
SI VERT SEARS 22-26 - OWB - Design #1	15,400.00	7,607.00	1,769.68	1,520.56	7.104	SF
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	15,291.98	5,425.00	4,704.62	4,511.83	24.404	CC
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	15,400.00	5,425.00	4,705.86	4,511.02	24.153	ES
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	16,700.00	5,425.00	4,910.80	4,695.00	22.757	SF
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	13,974.36	5,450.00	3,568.62	3,407.19	22.105	CC
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	14,000.00	5,450.00	3,568.71	3,406.80	22.040	ES
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	15,100.00	5,450.00	3,741.94	3,561.43	20.729	SF
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	15,296.71	5,450.00	3,572.99	3,393.25	19.879	CC
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	15,400.00	5,450.00	3,574.48	3,392.75	19.669	ES
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	16,300.00	5,450.00	3,711.18	3,514.33	18.853	SF
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	13,969.63	5,400.00	4,701.05	4,528.48	27.242	CC
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	14,100.00	5,400.00	4,702.86	4,527.90	26.880	ES
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	15,600.00	5,400.00	4,975.74	4,777.01	25.038	SF

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

Survey Program: 0-INC-ONLY

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	44.07	231.69	224.28	322.86				
100.00	100.00	84.00	84.00	0.13	0.67	44.07	231.69	224.28	322.46	321.66	0.80	402.326	
200.00	200.00	184.00	184.00	0.49	2.26	44.07	231.69	224.28	322.46	319.71	2.75	117.126	
300.00	300.00	284.00	284.00	0.85	4.01	44.07	231.69	224.28	322.46	317.60	4.86	66.392	
400.00	400.00	384.00	384.00	1.21	5.75	44.07	231.69	224.28	322.46	315.50	6.96	46.326	
500.00	500.00	484.00	484.00	1.57	7.50	44.07	231.69	224.28	322.46	313.40	9.06	35.574	
600.00	600.00	584.00	584.00	1.93	9.24	44.07	231.69	224.28	322.46	311.29	11.17	28.873	
700.00	700.00	684.00	684.00	2.29	10.99	44.07	231.69	224.28	322.46	309.19	13.27	24.296	
800.00	800.00	784.00	784.00	2.64	12.73	44.07	231.69	224.28	322.46	307.09	15.38	20.972	
900.00	900.00	884.00	884.00	3.00	14.48	44.07	231.69	224.28	322.46	304.98	17.48	18.448	
1,000.00	1,000.00	984.00	984.00	3.36	16.22	44.07	231.69	224.28	322.46	302.88	19.58	16.466	
1,100.00	1,100.00	1,084.00	1,084.00	3.72	17.97	44.07	231.69	224.28	322.46	300.77	21.69	14.869	
1,200.00	1,200.00	1,184.00	1,184.00	4.08	19.71	44.07	231.69	224.28	322.46	298.67	23.79	13.554	
1,300.00	1,300.00	1,284.00	1,284.00	4.44	21.46	44.07	231.69	224.28	322.46	296.57	25.89	12.453	
1,400.00	1,400.00	1,384.00	1,384.00	4.79	23.20	44.07	231.69	224.28	322.46	294.46	28.00	11.517	
1,500.00	1,499.98	1,483.98	1,483.98	5.15	24.95	6.30	231.69	224.28	320.73	290.63	30.10	10.655	
1,600.00	1,599.84	1,583.84	1,583.84	5.51	26.69	6.42	231.69	224.28	315.53	283.33	32.20	9.799	
1,700.00	1,699.45	1,683.45	1,683.45	5.87	28.43	6.62	231.69	224.28	306.87	272.57	34.29	8.948	
1,800.00	1,798.70	1,782.70	1,782.70	6.23	30.16	6.92	231.69	224.28	294.76	258.38	36.38	8.102	
1,900.00	1,897.47	1,881.47	1,881.47	6.60	31.89	7.35	231.69	224.28	279.24	240.78	38.46	7.260	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
2,000.00	1,995.62	1,979.62	1,979.62	6.99	33.60	7.94	231.69	224.28	260.32	219.79	40.53	6.423	
2,100.00	2,093.06	2,077.06	2,077.06	7.39	35.30	8.75	231.69	224.28	238.05	195.47	42.59	5.590	
2,200.00	2,189.64	2,173.64	2,173.64	7.82	36.99	9.90	231.69	224.28	212.49	167.86	44.63	4.761	
2,300.00	2,285.27	2,269.27	2,269.27	8.28	38.66	11.59	231.69	224.28	183.72	137.06	46.66	3.937	
2,400.00	2,379.82	2,363.82	2,363.82	8.77	40.31	14.21	231.69	224.28	151.90	103.22	48.68	3.120	
2,500.00	2,473.17	2,457.17	2,457.17	9.31	41.93	18.72	231.69	224.28	117.33	66.64	50.69	2.315	
2,600.00	2,565.21	2,549.21	2,549.21	9.88	43.54	27.85	231.69	224.28	80.91	28.16	52.75	1.534	
2,660.67	2,620.37	2,604.37	2,604.37	10.25	44.50	39.24	231.69	224.28	59.19	5.07	54.11	1.094	Level 2
2,700.00	2,655.96	2,639.96	2,639.96	10.50	45.12	51.57	231.69	224.28	46.78	-8.35	55.14	0.849	Level 1
2,772.32	2,721.39	2,705.39	2,705.39	10.97	46.27	89.94	231.69	224.28	35.17	-22.06	57.23	0.615	Level 1, CC, ES, SF
2,800.00	2,746.43	2,730.43	2,730.43	11.15	46.70	106.82	231.69	224.28	37.09	-20.66	57.75	0.642	Level 1
2,900.00	2,836.90	2,820.90	2,820.90	11.82	48.28	144.42	231.69	224.28	64.74	5.73	59.01	1.097	Level 2
3,000.00	2,927.37	2,911.37	2,911.37	12.50	49.86	158.15	231.69	224.28	103.13	42.45	60.68	1.700	
3,100.00	3,017.85	3,001.85	3,001.85	13.21	51.44	164.43	231.69	224.28	143.92	81.38	62.53	2.301	
3,200.00	3,108.32	3,107.68	3,092.32	13.92	53.29	167.95	231.69	224.28	185.51	120.81	64.71	2.867	
3,300.00	3,198.79	3,182.79	3,182.79	14.64	54.60	170.19	231.69	224.28	227.48	161.12	66.37	3.428	
3,400.00	3,289.27	3,273.27	3,273.27	15.38	56.18	171.73	231.69	224.28	269.65	201.34	68.31	3.947	
3,500.00	3,379.74	3,363.74	3,363.74	16.12	57.76	172.85	231.69	224.28	311.94	241.67	70.27	4.439	
3,600.00	3,470.21	3,454.21	3,454.21	16.87	59.34	173.71	231.69	224.28	354.30	282.07	72.23	4.905	
3,700.00	3,560.68	3,544.68	3,544.68	17.62	60.92	174.38	231.69	224.28	396.71	322.52	74.19	5.347	
3,800.00	3,651.16	3,635.16	3,635.16	18.39	62.49	174.92	231.69	224.28	439.16	363.00	76.16	5.766	
3,900.00	3,741.63	3,725.63	3,725.63	19.15	64.07	175.37	231.69	224.28	481.63	403.50	78.13	6.164	
4,000.00	3,832.10	3,816.10	3,816.10	19.92	65.65	175.75	231.69	224.28	524.12	444.02	80.11	6.543	
4,100.00	3,922.57	3,906.57	3,906.57	20.69	67.23	176.07	231.69	224.28	566.63	484.55	82.08	6.903	
4,200.00	4,013.05	4,002.95	3,997.05	21.47	68.91	176.34	231.69	224.28	609.16	524.99	84.16	7.238	
4,300.00	4,103.52	4,087.52	4,087.52	22.25	70.39	176.58	231.69	224.28	651.69	565.65	86.04	7.574	
4,400.00	4,193.99	4,177.99	4,177.99	23.03	71.97	176.79	231.69	224.28	694.23	606.21	88.02	7.887	
4,500.00	4,284.47	4,268.47	4,268.47	23.81	73.55	176.98	231.69	224.28	736.78	646.77	90.01	8.186	
4,600.00	4,374.94	4,358.94	4,358.94	24.60	75.13	177.14	231.69	224.28	779.33	687.34	91.99	8.472	
4,700.00	4,465.41	4,449.41	4,449.41	25.39	76.71	177.29	231.69	224.28	821.89	727.91	93.98	8.746	
4,800.00	4,555.88	4,539.88	4,539.88	26.18	78.28	177.42	231.69	224.28	864.45	768.49	95.97	9.008	
4,900.00	4,646.36	4,553.00	4,553.00	26.97	78.51	177.44	231.69	224.28	910.31	814.43	95.88	9.494	
5,000.00	4,736.83	4,553.00	4,553.00	27.76	78.51	177.44	231.69	224.28	964.30	869.52	94.78	10.174	
5,100.00	4,827.30	4,553.00	4,553.00	28.55	78.51	177.44	231.69	224.28	1,025.23	932.01	93.22	10.998	
5,200.00	4,917.77	4,553.00	4,553.00	29.35	78.51	177.44	231.69	224.28	1,091.93	1,000.55	91.38	11.949	
5,300.00	5,008.25	4,553.00	4,553.00	30.15	78.51	177.44	231.69	224.28	1,163.41	1,073.98	89.43	13.009	
5,400.00	5,098.72	4,553.00	4,553.00	30.94	78.51	177.44	231.69	224.28	1,238.85	1,151.38	87.47	14.164	
5,500.00	5,189.19	4,553.00	4,553.00	31.74	78.51	177.44	231.69	224.28	1,317.56	1,232.01	85.55	15.402	
5,600.00	5,279.67	4,553.00	4,553.00	32.54	78.51	177.44	231.69	224.28	1,398.99	1,315.28	83.71	16.712	
5,700.00	5,370.14	4,553.00	4,553.00	33.34	78.51	177.44	231.69	224.28	1,482.70	1,400.71	81.98	18.085	
5,800.00	5,460.61	4,553.00	4,553.00	34.14	78.51	177.44	231.69	224.28	1,568.31	1,487.94	80.37	19.514	
5,900.00	5,551.08	4,553.00	4,553.00	34.94	78.51	177.44	231.69	224.28	1,655.54	1,576.67	78.87	20.990	
6,000.00	5,641.56	4,553.00	4,553.00	35.75	78.51	177.44	231.69	224.28	1,744.14	1,666.65	77.49	22.508	
6,100.00	5,732.03	4,553.00	4,553.00	36.55	78.51	177.44	231.69	224.28	1,833.92	1,757.70	76.22	24.062	
6,200.00	5,822.50	4,553.00	4,553.00	37.35	78.51	177.44	231.69	224.28	1,924.70	1,849.65	75.05	25.647	
6,300.00	5,912.97	4,553.00	4,553.00	38.16	78.51	177.44	231.69	224.28	2,016.35	1,942.38	73.97	27.258	
6,400.00	6,003.45	4,553.00	4,553.00	38.96	78.51	177.44	231.69	224.28	2,108.77	2,035.78	72.99	28.893	
6,500.00	6,093.92	4,553.00	4,553.00	39.77	78.51	177.44	231.69	224.28	2,201.84	2,129.76	72.08	30.546	
6,600.00	6,184.39	4,553.00	4,553.00	40.57	78.51	177.44	231.69	224.28	2,295.50	2,224.25	71.25	32.216	
6,700.00	6,274.87	4,553.00	4,553.00	41.38	78.51	177.44	231.69	224.28	2,389.67	2,319.18	70.50	33.898	
6,800.00	6,365.34	4,553.00	4,553.00	42.18	78.51	177.44	231.69	224.28	2,484.30	2,414.50	69.80	35.591	
6,900.00	6,455.81	4,553.00	4,553.00	42.99	78.51	177.44	231.69	224.28	2,579.34	2,510.17	69.17	37.292	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
7,000.00	6,546.28	4,553.00	4,553.00	43.80	78.51	177.44	231.69	224.28	2,674.73	2,606.15	68.58	39.000	
7,100.00	6,636.76	4,553.00	4,553.00	44.61	78.51	177.44	231.69	224.28	2,770.45	2,702.40	68.05	40.711	
7,200.00	6,727.23	4,553.00	4,553.00	45.41	78.51	177.44	231.69	224.28	2,866.47	2,798.90	67.57	42.424	
7,300.00	6,817.70	4,553.00	4,553.00	46.22	78.51	177.44	231.69	224.28	2,962.74	2,895.62	67.12	44.138	
7,383.79	6,893.51	4,553.00	4,553.00	46.90	78.51	177.44	231.69	224.28	3,043.59	2,976.81	66.78	45.574	
7,400.00	6,908.25	4,553.00	4,553.00	47.03	78.51	171.67	231.69	224.28	3,059.21	2,992.49	66.72	45.854	
7,450.00	6,954.52	4,553.00	4,553.00	47.40	78.51	154.98	231.69	224.28	3,106.69	3,040.23	66.47	46.740	
7,500.00	7,001.74	4,553.00	4,553.00	47.72	78.51	137.85	231.69	224.28	3,152.92	3,086.77	66.16	47.659	
7,550.00	7,049.55	4,553.00	4,553.00	47.99	78.51	118.97	231.69	224.28	3,197.62	3,131.83	65.79	48.605	
7,600.00	7,097.58	4,553.00	4,553.00	48.21	78.51	99.28	231.69	224.28	3,240.50	3,175.13	65.36	49.576	
7,650.00	7,145.48	4,553.00	4,553.00	48.37	78.51	81.35	231.69	224.28	3,281.32	3,216.43	64.89	50.567	
7,700.00	7,192.88	4,553.00	4,553.00	48.48	78.51	66.98	231.69	224.28	3,319.85	3,255.48	64.37	51.575	
7,750.00	7,239.41	4,553.00	4,553.00	48.54	78.51	56.22	231.69	224.28	3,355.88	3,292.08	63.81	52.595	
7,800.00	7,284.72	4,553.00	4,553.00	48.56	78.51	48.30	231.69	224.28	3,389.23	3,326.02	63.20	53.623	
7,850.00	7,328.47	4,553.00	4,553.00	48.54	78.51	42.42	231.69	224.28	3,419.71	3,357.14	62.57	54.651	
7,900.00	7,370.32	4,553.00	4,553.00	48.47	78.51	37.98	231.69	224.28	3,447.18	3,385.27	61.92	55.674	
7,950.00	7,409.96	4,553.00	4,553.00	48.37	78.51	34.57	231.69	224.28	3,471.50	3,410.26	61.24	56.683	
8,000.00	7,447.08	4,553.00	4,553.00	48.24	78.51	31.92	231.69	224.28	3,492.56	3,432.00	60.56	57.670	
8,050.00	7,481.41	4,553.00	4,553.00	48.07	78.51	29.84	231.69	224.28	3,510.25	3,450.37	59.88	58.624	
8,100.00	7,512.67	4,553.00	4,553.00	47.87	78.51	28.21	231.69	224.28	3,524.48	3,465.28	59.20	59.536	
8,150.00	7,540.64	4,553.00	4,553.00	47.65	78.51	26.92	231.69	224.28	3,535.21	3,476.67	58.54	60.394	
8,200.00	7,565.09	4,553.00	4,553.00	47.40	78.51	25.93	231.69	224.28	3,542.36	3,484.47	57.89	61.186	
8,250.00	7,585.85	4,553.00	4,553.00	47.14	78.51	25.19	231.69	224.28	3,545.92	3,488.64	57.28	61.901	
8,300.00	7,602.75	4,553.00	4,553.00	46.86	78.51	24.66	231.69	224.28	3,545.86	3,489.15	56.71	62.526	
8,350.00	7,615.67	4,553.00	4,553.00	46.58	78.51	24.33	231.69	224.28	3,542.19	3,486.02	56.18	63.052	
8,400.00	7,624.51	4,553.00	4,553.00	46.28	78.51	24.18	231.69	224.28	3,534.93	3,479.23	55.69	63.470	
8,450.00	7,629.19	4,553.00	4,553.00	45.98	78.51	24.21	231.69	224.28	3,524.10	3,468.83	55.26	63.770	
8,481.00	7,630.00	4,553.00	4,553.00	45.79	78.51	24.31	231.69	224.28	3,515.61	3,460.59	55.02	63.895	
8,500.00	7,630.00	4,553.00	4,553.00	45.68	78.51	24.31	231.69	224.28	3,510.05	3,455.17	54.88	63.956	
8,600.00	7,630.00	4,553.00	4,553.00	45.11	78.51	24.31	231.69	224.28	3,482.33	3,428.09	54.24	64.206	
8,700.00	7,630.00	4,553.00	4,553.00	44.56	78.51	24.31	231.69	224.28	3,457.27	3,403.51	53.77	64.302	
8,800.00	7,630.00	4,553.00	4,553.00	44.05	78.51	24.31	231.69	224.28	3,434.95	3,381.48	53.48	64.232	
8,900.00	7,630.00	4,553.00	4,553.00	43.57	78.51	24.31	231.69	224.28	3,415.41	3,362.04	53.37	63.993	
9,000.00	7,630.00	4,553.00	4,553.00	43.12	78.51	24.31	231.69	224.28	3,398.71	3,345.26	53.45	63.587	
9,100.00	7,630.00	4,553.00	4,553.00	42.70	78.51	24.31	231.69	224.28	3,384.87	3,331.16	53.71	63.022	
9,200.00	7,630.00	4,553.00	4,553.00	42.31	78.51	24.31	231.69	224.28	3,373.95	3,319.80	54.15	62.308	
9,300.00	7,630.00	4,553.00	4,553.00	41.94	78.51	24.31	231.69	224.28	3,365.96	3,311.19	54.76	61.462	
9,400.00	7,630.00	4,553.00	4,553.00	41.59	78.51	24.31	231.69	224.28	3,360.93	3,305.38	55.55	60.502	
9,500.00	7,630.00	4,553.00	4,553.00	41.26	78.51	24.31	231.69	224.28	3,358.87	3,302.37	56.50	59.449	
9,519.23	7,630.00	4,553.00	4,553.00	41.20	78.51	24.31	231.69	224.28	3,358.81	3,302.11	56.70	59.235	
9,600.00	7,630.00	4,553.00	4,553.00	40.96	78.51	24.31	231.69	224.28	3,359.78	3,302.18	57.60	58.326	
9,700.00	7,630.00	4,553.00	4,553.00	40.68	78.51	24.31	231.69	224.28	3,363.67	3,304.82	58.85	57.154	
9,800.00	7,630.00	4,553.00	4,553.00	40.42	78.51	24.31	231.69	224.28	3,370.53	3,310.29	60.24	55.956	
9,900.00	7,630.00	4,553.00	4,553.00	40.17	78.51	24.31	231.69	224.28	3,380.32	3,318.59	61.74	54.753	
10,000.00	7,630.00	4,553.00	4,553.00	39.96	78.51	24.31	231.69	224.28	3,393.04	3,329.70	63.35	53.564	
10,100.00	7,630.00	4,553.00	4,553.00	40.05	78.51	24.31	231.69	224.28	3,408.65	3,343.61	65.04	52.407	
10,200.00	7,630.00	4,553.00	4,553.00	40.95	78.51	24.31	231.69	224.28	3,427.11	3,360.29	66.81	51.293	
10,300.00	7,630.00	4,553.00	4,553.00	41.94	78.51	24.31	231.69	224.28	3,448.36	3,379.72	68.64	50.236	
10,400.00	7,630.00	4,553.00	4,553.00	42.98	78.51	24.31	231.69	224.28	3,472.37	3,401.86	70.52	49.242	
10,500.00	7,630.00	4,553.00	4,553.00	44.06	78.51	24.31	231.69	224.28	3,499.07	3,426.66	72.42	48.318	
10,600.00	7,630.00	4,553.00	4,553.00	45.17	78.51	24.31	231.69	224.28	3,528.41	3,454.08	74.33	47.467	
10,700.00	7,630.00	4,553.00	4,553.00	46.32	78.51	24.31	231.69	224.28	3,560.31	3,484.06	76.25	46.691	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
10,800.00	7,630.00	4,553.00	4,553.00	47.50	78.51	24.31	231.69	224.28	3,594.72	3,516.55	78.16	45.989	
10,900.00	7,630.00	4,553.00	4,553.00	48.70	78.51	24.31	231.69	224.28	3,631.55	3,551.49	80.06	45.361	
11,000.00	7,630.00	4,553.00	4,553.00	49.94	78.51	24.31	231.69	224.28	3,670.73	3,588.81	81.93	44.805	
11,100.00	7,630.00	4,553.00	4,553.00	51.20	78.51	24.31	231.69	224.28	3,712.20	3,628.44	83.76	44.319	
11,200.00	7,630.00	4,553.00	4,553.00	52.48	78.51	24.31	231.69	224.28	3,755.88	3,670.32	85.56	43.899	
11,300.00	7,630.00	4,553.00	4,553.00	53.79	78.51	24.31	231.69	224.28	3,801.68	3,714.37	87.31	43.543	
11,400.00	7,630.00	4,553.00	4,553.00	55.12	78.51	24.31	231.69	224.28	3,849.53	3,760.52	89.01	43.247	
11,500.00	7,630.00	4,553.00	4,553.00	56.46	78.51	24.31	231.69	224.28	3,899.37	3,808.70	90.67	43.008	
11,600.00	7,630.00	4,553.00	4,553.00	57.83	78.51	24.31	231.69	224.28	3,951.10	3,858.84	92.27	42.822	
11,700.00	7,630.00	4,553.00	4,553.00	59.22	78.51	24.31	231.69	224.28	4,004.67	3,910.85	93.82	42.687	
11,800.00	7,630.00	4,553.00	4,553.00	60.62	78.51	24.31	231.69	224.28	4,059.99	3,964.68	95.31	42.599	
11,900.00	7,630.00	4,553.00	4,553.00	62.04	78.51	24.31	231.69	224.28	4,117.00	4,020.25	96.74	42.555	
12,000.00	7,630.00	4,553.00	4,553.00	63.48	78.51	24.31	231.69	224.28	4,175.62	4,077.50	98.13	42.554	
12,100.00	7,630.00	4,553.00	4,553.00	64.93	78.51	24.31	231.69	224.28	4,235.80	4,136.34	99.45	42.591	
12,200.00	7,630.00	4,553.00	4,553.00	66.39	78.51	24.31	231.69	224.28	4,297.46	4,196.73	100.73	42.664	
12,300.00	7,630.00	4,553.00	4,553.00	67.86	78.51	24.31	231.69	224.28	4,360.54	4,258.59	101.95	42.772	
12,400.00	7,630.00	4,553.00	4,553.00	69.35	78.51	24.31	231.69	224.28	4,424.98	4,321.86	103.12	42.912	
12,500.00	7,630.00	4,553.00	4,553.00	70.85	78.51	24.31	231.69	224.28	4,490.72	4,386.49	104.24	43.081	
12,600.00	7,630.00	4,553.00	4,553.00	72.36	78.51	24.31	231.69	224.28	4,557.71	4,452.40	105.31	43.279	
12,700.00	7,630.00	4,553.00	4,553.00	73.88	78.51	24.31	231.69	224.28	4,625.90	4,519.56	106.34	43.503	
12,800.00	7,630.00	4,553.00	4,553.00	75.41	78.51	24.31	231.69	224.28	4,695.22	4,587.90	107.32	43.752	
12,900.00	7,630.00	4,553.00	4,553.00	76.95	78.51	24.31	231.69	224.28	4,765.63	4,657.38	108.25	44.024	
13,000.00	7,630.00	4,553.00	4,553.00	78.49	78.51	24.31	231.69	224.28	4,837.08	4,727.94	109.15	44.317	
13,100.00	7,630.00	4,553.00	4,553.00	80.05	78.51	24.31	231.69	224.28	4,909.53	4,799.53	110.00	44.631	
13,200.00	7,630.00	4,553.00	4,553.00	81.61	78.51	24.31	231.69	224.28	4,982.94	4,872.12	110.82	44.965	
13,300.00	7,630.00	4,553.00	4,553.00	83.18	78.51	24.31	231.69	224.28	5,057.26	4,945.66	111.60	45.316	
13,400.00	7,630.00	4,553.00	4,553.00	84.76	78.51	24.31	231.69	224.28	5,132.45	5,020.10	112.34	45.685	
13,500.00	7,630.00	4,553.00	4,553.00	86.34	78.51	24.31	231.69	224.28	5,208.47	5,095.41	113.06	46.069	
13,600.00	7,630.00	4,553.00	4,553.00	87.94	78.51	24.31	231.69	224.28	5,285.29	5,171.55	113.74	46.469	
13,700.00	7,630.00	4,553.00	4,553.00	89.53	78.51	24.31	231.69	224.28	5,362.88	5,248.49	114.39	46.883	
13,800.00	7,630.00	4,553.00	4,553.00	91.13	78.51	24.31	231.69	224.28	5,441.20	5,326.18	115.01	47.310	
13,900.00	7,630.00	4,553.00	4,553.00	92.74	78.51	24.31	231.69	224.28	5,520.21	5,404.61	115.61	47.750	
14,000.00	7,630.00	4,553.00	4,553.00	94.35	78.51	24.31	231.69	224.28	5,599.90	5,483.73	116.17	48.203	
14,100.00	7,630.00	4,553.00	4,553.00	95.97	78.51	24.31	231.69	224.28	5,680.24	5,563.52	116.72	48.666	
14,200.00	7,630.00	4,553.00	4,553.00	97.60	78.51	24.31	231.69	224.28	5,761.18	5,643.94	117.24	49.140	
14,300.00	7,630.00	4,553.00	4,553.00	99.22	78.51	24.31	231.69	224.28	5,842.72	5,724.98	117.74	49.625	
14,400.00	7,630.00	4,553.00	4,553.00	100.85	78.51	24.31	231.69	224.28	5,924.82	5,806.61	118.22	50.119	
14,500.00	7,630.00	4,553.00	4,553.00	102.49	78.51	24.31	231.69	224.28	6,007.47	5,888.80	118.67	50.622	
14,600.00	7,630.00	4,553.00	4,553.00	104.13	78.51	24.31	231.69	224.28	6,090.64	5,971.52	119.11	51.134	
14,700.00	7,630.00	4,553.00	4,553.00	105.77	78.51	24.31	231.69	224.28	6,174.30	6,054.77	119.53	51.654	
14,800.00	7,630.00	4,553.00	4,553.00	107.42	78.51	24.31	231.69	224.28	6,258.45	6,138.51	119.93	52.182	
14,900.00	7,630.00	4,553.00	4,553.00	109.07	78.51	24.31	231.69	224.28	6,343.05	6,222.73	120.32	52.718	
15,000.00	7,630.00	4,553.00	4,553.00	110.72	78.51	24.31	231.69	224.28	6,428.10	6,307.41	120.69	53.260	
15,100.00	7,630.00	4,553.00	4,553.00	112.38	78.51	24.31	231.69	224.28	6,513.57	6,392.52	121.05	53.809	
15,200.00	7,630.00	4,553.00	4,553.00	114.04	78.51	24.31	231.69	224.28	6,599.45	6,478.06	121.39	54.365	
15,300.00	7,630.00	4,553.00	4,553.00	115.71	78.51	24.31	231.69	224.28	6,685.73	6,564.00	121.72	54.926	
15,400.00	7,630.00	4,553.00	4,553.00	117.37	78.51	24.31	231.69	224.28	6,772.38	6,650.34	122.04	55.494	
15,500.00	7,630.00	4,553.00	4,553.00	119.04	78.51	24.31	231.69	224.28	6,859.39	6,737.05	122.34	56.066	
15,600.00	7,630.00	4,553.00	4,553.00	120.71	78.51	24.31	231.69	224.28	6,946.75	6,824.12	122.64	56.645	
15,700.00	7,630.00	4,553.00	4,553.00	122.39	78.51	24.31	231.69	224.28	7,034.45	6,911.53	122.92	57.228	
15,800.00	7,630.00	4,553.00	4,553.00	124.06	78.51	24.31	231.69	224.28	7,122.48	6,999.28	123.19	57.815	
15,900.00	7,630.00	4,553.00	4,553.00	125.74	78.51	24.31	231.69	224.28	7,210.81	7,087.36	123.46	58.408	

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,000.00	7,630.00	4,553.00	4,553.00	127.42	78.51	24.31	231.69	224.28	7,299.45	7,175.74	123.71	59.004	
16,100.00	7,630.00	4,553.00	4,553.00	129.10	78.51	24.31	231.69	224.28	7,388.38	7,264.42	123.96	59.605	
16,200.00	7,630.00	4,553.00	4,553.00	130.79	78.51	24.31	231.69	224.28	7,477.59	7,353.39	124.19	60.210	
16,300.00	7,630.00	4,553.00	4,553.00	132.48	78.51	24.31	231.69	224.28	7,567.06	7,442.64	124.42	60.818	
16,400.00	7,630.00	4,553.00	4,553.00	134.17	78.51	24.31	231.69	224.28	7,656.80	7,532.16	124.64	61.430	
16,500.00	7,630.00	4,553.00	4,553.00	135.86	78.51	24.31	231.69	224.28	7,746.79	7,621.93	124.86	62.045	
16,600.00	7,630.00	4,553.00	4,553.00	137.55	78.51	24.31	231.69	224.28	7,837.02	7,711.96	125.06	62.664	
16,700.00	7,630.00	4,553.00	4,553.00	139.24	78.51	24.31	231.69	224.28	7,927.49	7,802.22	125.27	63.285	
16,800.00	7,630.00	4,553.00	4,553.00	140.94	78.51	24.31	231.69	224.28	8,018.18	7,892.72	125.46	63.910	
16,900.00	7,630.00	4,553.00	4,553.00	142.64	78.51	24.31	231.69	224.28	8,109.09	7,983.44	125.65	64.537	
17,000.00	7,630.00	4,553.00	4,553.00	144.34	78.51	24.31	231.69	224.28	8,200.22	8,074.38	125.83	65.167	
17,100.00	7,630.00	4,553.00	4,553.00	146.04	78.51	24.31	231.69	224.28	8,291.54	8,165.53	126.01	65.800	
17,200.00	7,630.00	4,553.00	4,553.00	147.74	78.51	24.31	231.69	224.28	8,383.07	8,256.88	126.19	66.435	
17,300.00	7,630.00	4,553.00	4,553.00	149.44	78.51	24.31	231.69	224.28	8,474.79	8,348.43	126.35	67.072	
17,400.00	7,630.00	4,553.00	4,553.00	151.15	78.51	24.31	231.69	224.28	8,566.69	8,440.17	126.52	67.712	
17,500.00	7,630.00	4,553.00	4,553.00	152.86	78.51	24.31	231.69	224.28	8,658.77	8,532.09	126.68	68.353	
17,600.00	7,630.00	4,553.00	4,553.00	154.56	78.51	24.31	231.69	224.28	8,751.03	8,624.19	126.83	68.997	
17,700.00	7,630.00	4,553.00	4,553.00	156.27	78.51	24.31	231.69	224.28	8,843.45	8,716.47	126.98	69.642	
17,800.00	7,630.00	4,553.00	4,553.00	157.98	78.51	24.31	231.69	224.28	8,936.04	8,808.91	127.13	70.290	
17,900.00	7,630.00	4,553.00	4,553.00	159.70	78.51	24.31	231.69	224.28	9,028.78	8,901.51	127.28	70.939	
18,000.00	7,630.00	4,553.00	4,553.00	161.41	78.51	24.31	231.69	224.28	9,121.68	8,994.27	127.42	71.589	
18,100.00	7,630.00	4,553.00	4,553.00	163.12	78.51	24.31	231.69	224.28	9,214.73	9,087.18	127.55	72.242	
18,154.00	7,630.00	4,553.00	4,553.00	164.05	78.51	24.31	231.69	224.28	9,265.04	9,137.41	127.63	72.595	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4.67	256.82	21.00	258.12				
100.00	100.00	85.00	85.00	0.13	0.66	4.67	256.82	21.00	257.68	256.89	0.79	324.290	
200.00	200.00	185.00	185.00	0.49	2.26	4.67	256.82	21.00	257.68	254.93	2.75	93.597	
300.00	300.00	285.00	285.00	0.85	4.01	4.67	256.82	21.00	257.68	252.82	4.86	53.055	
400.00	400.00	385.00	385.00	1.21	5.75	4.67	256.82	21.00	257.68	250.72	6.96	37.019	
500.00	500.00	485.00	485.00	1.57	7.50	4.67	256.82	21.00	257.68	248.62	9.06	28.427	
600.00	600.00	585.00	585.00	1.93	9.24	4.67	256.82	21.00	257.68	246.51	11.17	23.072	
700.00	700.00	685.00	685.00	2.29	10.99	4.67	256.82	21.00	257.68	244.41	13.27	19.415	
800.00	800.00	785.00	785.00	2.64	12.73	4.67	256.82	21.00	257.68	242.30	15.38	16.759	
900.00	900.00	885.00	885.00	3.00	14.48	4.67	256.82	21.00	257.68	240.20	17.48	14.742	
1,000.00	1,000.00	985.00	985.00	3.36	16.22	4.67	256.82	21.00	257.68	238.10	19.58	13.158	
1,100.00	1,100.00	1,085.00	1,085.00	3.72	17.97	4.67	256.82	21.00	257.68	235.99	21.69	11.882	
1,200.00	1,200.00	1,185.00	1,185.00	4.08	19.71	4.67	256.82	21.00	257.68	233.89	23.79	10.831	
1,300.00	1,300.00	1,285.00	1,285.00	4.44	21.46	4.67	256.82	21.00	257.68	231.79	25.89	9.951	
1,400.00	1,400.00	1,385.00	1,385.00	4.79	23.20	4.67	256.82	21.00	257.68	229.68	28.00	9.203	
1,500.00	1,499.98	1,484.98	1,484.98	5.15	24.95	-33.36	256.82	21.00	256.22	226.12	30.10	8.512	
1,600.00	1,599.84	1,584.84	1,584.84	5.51	26.69	-34.06	256.82	21.00	251.87	219.67	32.20	7.822	
1,700.00	1,699.45	1,684.45	1,684.45	5.87	28.43	-35.29	256.82	21.00	244.69	210.39	34.30	7.134	
1,800.00	1,798.70	1,783.70	1,783.70	6.23	30.16	-37.12	256.82	21.00	234.83	198.44	36.39	6.453	
1,900.00	1,897.47	1,882.47	1,882.47	6.60	31.89	-39.70	256.82	21.00	222.51	184.03	38.48	5.783	
2,000.00	1,995.62	1,980.62	1,980.62	6.99	33.60	-43.23	256.82	21.00	208.09	167.52	40.57	5.129	
2,100.00	2,093.06	2,078.06	2,078.06	7.39	35.30	-48.00	256.82	21.00	192.13	149.48	42.66	4.504	
2,200.00	2,189.64	2,174.64	2,174.64	7.82	36.99	-54.42	256.82	21.00	175.56	130.80	44.76	3.922	
2,300.00	2,285.27	2,270.27	2,270.27	8.28	38.66	-62.96	256.82	21.00	159.84	112.94	46.89	3.409	
2,400.00	2,379.82	2,364.82	2,364.82	8.77	40.31	-73.99	256.82	21.00	147.26	98.21	49.06	3.002	
2,500.00	2,473.17	2,458.17	2,458.17	9.31	41.93	-87.29	256.82	21.00	141.02	89.78	51.24	2.752	
2,519.02	2,490.78	2,475.78	2,475.78	9.42	42.24	-90.00	256.82	21.00	140.84	89.19	51.66	2.727	CC, ES
2,600.00	2,565.21	2,550.21	2,550.21	9.88	43.54	-101.69	256.82	21.00	144.41	91.04	53.37	2.706	SF
2,660.67	2,620.37	2,605.37	2,605.37	10.25	44.50	-110.16	256.82	21.00	151.99	97.40	54.60	2.784	
2,700.00	2,655.96	2,640.96	2,640.96	10.50	45.12	-115.40	256.82	21.00	159.05	103.68	55.37	2.873	
2,800.00	2,746.43	2,731.43	2,731.43	11.15	46.70	-126.81	256.82	21.00	182.78	125.50	57.28	3.191	
2,900.00	2,836.90	2,821.90	2,821.90	11.82	48.28	-135.62	256.82	21.00	212.49	153.33	59.15	3.592	
3,000.00	2,927.37	2,912.37	2,912.37	12.50	49.86	-142.34	256.82	21.00	246.01	184.98	61.02	4.031	
3,100.00	3,017.85	3,002.85	3,002.85	13.21	51.44	-147.49	256.82	21.00	281.99	219.08	62.91	4.483	
3,200.00	3,108.32	3,106.68	3,093.32	13.92	53.25	-151.52	256.82	21.00	319.61	254.57	65.04	4.914	
3,300.00	3,198.79	3,183.79	3,183.79	14.64	54.60	-154.71	256.82	21.00	358.34	291.62	66.72	5.371	
3,400.00	3,289.27	3,274.27	3,274.27	15.38	56.18	-157.30	256.82	21.00	397.86	329.22	68.64	5.796	
3,500.00	3,379.74	3,364.74	3,364.74	16.12	57.76	-159.42	256.82	21.00	437.96	367.39	70.57	6.206	
3,600.00	3,470.21	3,455.21	3,455.21	16.87	59.34	-161.20	256.82	21.00	478.50	405.99	72.51	6.599	
3,700.00	3,560.68	3,545.68	3,545.68	17.62	60.92	-162.70	256.82	21.00	519.36	444.90	74.45	6.976	
3,800.00	3,651.16	3,636.16	3,636.16	18.39	62.49	-163.99	256.82	21.00	560.48	484.08	76.41	7.336	
3,900.00	3,741.63	3,726.63	3,726.63	19.15	64.07	-165.10	256.82	21.00	601.81	523.45	78.36	7.680	
4,000.00	3,832.10	3,817.10	3,817.10	19.92	65.65	-166.07	256.82	21.00	643.30	562.98	80.32	8.009	
4,100.00	3,922.57	3,907.57	3,907.57	20.69	67.23	-166.93	256.82	21.00	684.93	602.65	82.29	8.324	
4,200.00	4,013.05	4,001.95	3,998.05	21.47	68.88	-167.68	256.82	21.00	726.67	642.35	84.32	8.618	
4,300.00	4,103.52	4,088.52	4,088.52	22.25	70.39	-168.36	256.82	21.00	768.51	682.29	86.22	8.913	
4,400.00	4,193.99	4,178.99	4,178.99	23.03	71.97	-168.96	256.82	21.00	810.42	722.23	88.20	9.189	
4,500.00	4,284.47	4,269.47	4,269.47	23.81	73.55	-169.51	256.82	21.00	852.41	762.24	90.17	9.453	
4,600.00	4,374.94	4,359.94	4,359.94	24.60	75.13	-170.00	256.82	21.00	894.45	802.30	92.15	9.707	
4,700.00	4,465.41	4,450.41	4,450.41	25.39	76.71	-170.46	256.82	21.00	936.54	842.41	94.13	9.950	
4,800.00	4,555.88	4,540.88	4,540.88	26.18	78.28	-170.87	256.82	21.00	978.68	882.57	96.11	10.183	
4,900.00	4,646.36	4,631.36	4,631.36	26.97	79.86	-171.25	256.82	21.00	1,020.85	922.76	98.09	10.407	

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,736.83	4,721.83	4,721.83	27.76	81.44	-171.60	256.82	21.00	1,063.06	962.98	100.07	10.623	
5,100.00	4,827.30	4,812.30	4,812.30	28.55	83.02	-171.92	256.82	21.00	1,105.30	1,003.24	102.06	10.830	
5,200.00	4,917.77	4,902.77	4,902.77	29.35	84.60	-172.22	256.82	21.00	1,147.56	1,043.51	104.05	11.029	
5,300.00	5,008.25	5,006.75	4,993.25	30.15	86.42	-172.49	256.82	21.00	1,189.85	1,083.58	106.27	11.197	
5,400.00	5,098.72	5,083.72	5,083.72	30.94	87.76	-172.75	256.82	21.00	1,232.16	1,124.14	108.02	11.407	
5,500.00	5,189.19	5,174.19	5,174.19	31.74	89.34	-172.99	256.82	21.00	1,274.49	1,164.48	110.01	11.585	
5,600.00	5,279.67	5,264.67	5,264.67	32.54	90.92	-173.22	256.82	21.00	1,316.83	1,204.83	112.00	11.757	
5,700.00	5,370.14	5,355.14	5,355.14	33.34	92.50	-173.43	256.82	21.00	1,359.20	1,245.20	114.00	11.923	
5,800.00	5,460.61	5,445.61	5,445.61	34.14	94.08	-173.63	256.82	21.00	1,401.57	1,285.59	115.99	12.084	
5,900.00	5,551.08	5,536.08	5,536.08	34.94	95.65	-173.82	256.82	21.00	1,443.96	1,325.98	117.98	12.239	
6,000.00	5,641.56	5,626.56	5,626.56	35.75	97.23	-173.99	256.82	21.00	1,486.37	1,366.39	119.98	12.389	
6,100.00	5,732.03	5,717.03	5,717.03	36.55	98.81	-174.16	256.82	21.00	1,528.78	1,406.81	121.97	12.534	
6,200.00	5,822.50	5,807.50	5,807.50	37.35	100.39	-174.32	256.82	21.00	1,571.20	1,447.23	123.97	12.674	
6,300.00	5,912.97	5,902.03	5,897.97	38.16	102.04	-174.47	256.82	21.00	1,613.63	1,487.60	126.04	12.803	
6,400.00	6,003.45	5,988.45	5,988.45	38.96	103.55	-174.61	256.82	21.00	1,656.07	1,528.11	127.96	12.942	
6,500.00	6,093.92	6,078.92	6,078.92	39.77	105.13	-174.75	256.82	21.00	1,698.52	1,568.56	129.96	13.070	
6,600.00	6,184.39	6,169.39	6,169.39	40.57	106.71	-174.87	256.82	21.00	1,740.98	1,609.02	131.96	13.193	
6,700.00	6,274.87	6,259.87	6,259.87	41.38	108.29	-175.00	256.82	21.00	1,783.44	1,649.48	133.96	13.313	
6,800.00	6,365.34	6,350.34	6,350.34	42.18	109.87	-175.11	256.82	21.00	1,825.91	1,689.95	135.96	13.430	
6,900.00	6,455.81	6,440.81	6,440.81	42.99	111.44	-175.22	256.82	21.00	1,868.39	1,730.43	137.96	13.543	
7,000.00	6,546.28	6,531.28	6,531.28	43.80	113.02	-175.33	256.82	21.00	1,910.87	1,770.91	139.96	13.653	
7,100.00	6,636.76	6,621.76	6,621.76	44.61	114.60	-175.43	256.82	21.00	1,953.35	1,811.39	141.96	13.760	
7,200.00	6,727.23	6,712.23	6,712.23	45.41	116.18	-175.53	256.82	21.00	1,995.84	1,851.88	143.96	13.863	
7,300.00	6,817.70	6,802.70	6,802.70	46.22	117.76	-175.62	256.82	21.00	2,038.34	1,892.37	145.97	13.964	
7,383.79	6,893.51	6,878.51	6,878.51	46.90	119.08	-175.70	256.82	21.00	2,073.95	1,926.30	147.65	14.047	
7,400.00	6,908.25	6,906.75	6,893.25	47.03	119.58	-178.58	256.82	21.00	2,080.69	1,932.48	148.21	14.039	
7,450.00	6,954.52	6,939.52	6,939.52	47.40	120.15	171.08	256.82	21.00	2,099.57	1,950.58	148.98	14.093	
7,500.00	7,001.74	6,986.74	6,986.74	47.72	120.97	157.93	256.82	21.00	2,115.45	1,965.45	150.01	14.102	
7,550.00	7,049.55	7,034.55	7,034.55	47.99	121.81	141.78	256.82	21.00	2,128.24	1,977.21	151.03	14.092	
7,600.00	7,097.58	7,082.58	7,082.58	48.21	122.65	124.17	256.82	21.00	2,137.86	1,985.81	152.04	14.061	
7,650.00	7,145.48	7,130.48	7,130.48	48.37	123.48	107.97	256.82	21.00	2,144.28	1,991.24	153.04	14.011	
7,700.00	7,192.88	7,177.88	7,177.88	48.48	124.31	95.18	256.82	21.00	2,147.50	1,993.48	154.02	13.943	
7,750.00	7,239.41	7,224.41	7,224.41	48.54	125.12	85.96	256.82	21.00	2,147.56	1,992.59	154.96	13.859	
7,800.00	7,284.72	7,269.72	7,269.72	48.56	125.91	79.61	256.82	21.00	2,144.52	1,988.65	155.87	13.758	
7,850.00	7,328.47	7,313.47	7,313.47	48.54	126.68	75.39	256.82	21.00	2,138.48	1,981.74	156.74	13.643	
7,900.00	7,370.32	7,355.32	7,355.32	48.47	127.41	72.73	256.82	21.00	2,129.58	1,972.01	157.57	13.515	
7,950.00	7,409.96	7,405.04	7,394.96	48.37	128.27	71.25	256.82	21.00	2,117.95	1,959.43	158.53	13.360	
8,000.00	7,447.08	7,432.08	7,432.08	48.24	128.75	70.69	256.82	21.00	2,103.79	1,944.71	159.08	13.225	
8,050.00	7,481.41	7,466.41	7,466.41	48.07	129.34	70.88	256.82	21.00	2,087.29	1,927.53	159.76	13.065	
8,100.00	7,512.67	7,502.33	7,497.67	47.87	129.97	71.70	256.82	21.00	2,068.66	1,908.20	160.46	12.892	
8,150.00	7,540.64	7,525.64	7,525.64	47.65	130.38	73.04	256.82	21.00	2,048.14	1,887.19	160.95	12.725	
8,200.00	7,565.09	7,550.09	7,550.09	47.40	130.81	74.83	256.82	21.00	2,025.97	1,864.51	161.47	12.547	
8,250.00	7,585.85	7,570.85	7,570.85	47.14	131.17	76.99	256.82	21.00	2,002.40	1,840.48	161.92	12.366	
8,300.00	7,602.75	7,587.75	7,587.75	46.86	131.46	79.47	256.82	21.00	1,977.68	1,815.36	162.32	12.184	
8,350.00	7,615.67	7,600.67	7,600.67	46.58	131.69	82.19	256.82	21.00	1,952.05	1,789.39	162.66	12.001	
8,400.00	7,624.51	7,609.51	7,609.51	46.28	131.84	85.09	256.82	21.00	1,925.77	1,762.82	162.95	11.819	
8,450.00	7,629.19	7,614.19	7,614.19	45.98	131.92	88.10	256.82	21.00	1,899.06	1,735.89	163.17	11.639	
8,481.00	7,630.00	7,615.00	7,615.00	45.79	131.94	90.00	256.82	21.00	1,882.39	1,719.11	163.27	11.529	
8,500.00	7,630.00	7,615.00	7,615.00	45.68	131.94	90.00	256.82	21.00	1,872.22	1,708.89	163.33	11.463	
8,600.00	7,630.00	7,615.00	7,615.00	45.11	131.94	90.00	256.82	21.00	1,821.06	1,657.38	163.68	11.126	
8,700.00	7,630.00	7,615.00	7,615.00	44.56	131.94	90.00	256.82	21.00	1,774.07	1,609.98	164.08	10.812	
8,800.00	7,630.00	7,615.00	7,615.00	44.05	131.94	90.00	256.82	21.00	1,731.58	1,567.03	164.55	10.523	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
8,900.00	7,630.00	7,615.00	7,615.00	43.57	131.94	90.00	256.82	21.00	1,693.93	1,528.86	165.07	10.262	
9,000.00	7,630.00	7,615.00	7,615.00	43.12	131.94	90.00	256.82	21.00	1,661.46	1,495.82	165.64	10.031	
9,100.00	7,630.00	7,615.00	7,615.00	42.70	131.94	90.00	256.82	21.00	1,634.47	1,468.22	166.25	9.831	
9,200.00	7,630.00	7,615.00	7,615.00	42.31	131.94	90.00	256.82	21.00	1,613.24	1,446.34	166.90	9.666	
9,300.00	7,630.00	7,615.00	7,615.00	41.94	131.94	90.00	256.82	21.00	1,597.99	1,430.42	167.57	9.537	
9,400.00	7,630.00	7,615.00	7,615.00	41.59	131.94	90.00	256.82	21.00	1,588.90	1,420.67	168.24	9.445	
9,494.78	7,630.00	7,615.00	7,615.00	41.28	131.94	90.00	256.82	21.00	1,586.07	1,417.21	168.86	9.393	
9,500.00	7,630.00	7,615.00	7,615.00	41.26	131.94	90.00	256.82	21.00	1,586.08	1,417.19	168.90	9.391	
9,600.00	7,630.00	7,615.00	7,615.00	40.96	131.94	90.00	256.82	21.00	1,589.56	1,420.03	169.53	9.376	
9,700.00	7,630.00	7,615.00	7,615.00	40.68	131.94	90.00	256.82	21.00	1,599.30	1,429.17	170.12	9.401	
9,800.00	7,630.00	7,615.00	7,615.00	40.42	131.94	90.00	256.82	21.00	1,615.18	1,444.51	170.67	9.464	
9,900.00	7,630.00	7,615.00	7,615.00	40.17	131.94	90.00	256.82	21.00	1,637.02	1,465.86	171.16	9.564	
10,000.00	7,630.00	7,615.00	7,615.00	39.96	131.94	90.00	256.82	21.00	1,664.60	1,493.01	171.58	9.701	
10,100.00	7,630.00	7,615.00	7,615.00	40.05	131.94	90.00	256.82	21.00	1,697.62	1,525.67	171.95	9.873	
10,200.00	7,630.00	7,615.00	7,615.00	40.95	131.94	90.00	256.82	21.00	1,735.79	1,563.54	172.25	10.077	
10,300.00	7,630.00	7,615.00	7,615.00	41.94	131.94	90.00	256.82	21.00	1,778.77	1,606.27	172.49	10.312	
10,400.00	7,630.00	7,615.00	7,615.00	42.98	131.94	90.00	256.82	21.00	1,826.21	1,653.53	172.68	10.576	
10,500.00	7,630.00	7,615.00	7,615.00	44.06	131.94	90.00	256.82	21.00	1,877.79	1,704.97	172.82	10.865	
10,600.00	7,630.00	7,615.00	7,615.00	45.17	131.94	90.00	256.82	21.00	1,933.17	1,760.25	172.92	11.180	
10,700.00	7,630.00	7,615.00	7,615.00	46.32	131.94	90.00	256.82	21.00	1,992.03	1,819.05	172.98	11.516	
10,800.00	7,630.00	7,615.00	7,615.00	47.50	131.94	90.00	256.82	21.00	2,054.08	1,881.07	173.01	11.873	
10,900.00	7,630.00	7,615.00	7,615.00	48.70	131.94	90.00	256.82	21.00	2,119.03	1,946.02	173.01	12.248	
11,000.00	7,630.00	7,615.00	7,615.00	49.94	131.94	90.00	256.82	21.00	2,186.62	2,013.63	172.99	12.640	
11,100.00	7,630.00	7,615.00	7,615.00	51.20	131.94	90.00	256.82	21.00	2,256.63	2,083.68	172.95	13.048	
11,200.00	7,630.00	7,615.00	7,615.00	52.48	131.94	90.00	256.82	21.00	2,328.82	2,155.92	172.90	13.469	
11,300.00	7,630.00	7,615.00	7,615.00	53.79	131.94	90.00	256.82	21.00	2,403.01	2,230.17	172.83	13.904	
11,400.00	7,630.00	7,615.00	7,615.00	55.12	131.94	90.00	256.82	21.00	2,479.01	2,306.25	172.76	14.349	
11,500.00	7,630.00	7,615.00	7,615.00	56.46	131.94	90.00	256.82	21.00	2,556.66	2,383.98	172.68	14.805	
11,600.00	7,630.00	7,615.00	7,615.00	57.83	131.94	90.00	256.82	21.00	2,635.83	2,463.22	172.60	15.271	
11,700.00	7,630.00	7,615.00	7,615.00	59.22	131.94	90.00	256.82	21.00	2,716.36	2,543.84	172.52	15.745	
11,800.00	7,630.00	7,615.00	7,615.00	60.62	131.94	90.00	256.82	21.00	2,798.15	2,625.72	172.43	16.228	
11,900.00	7,630.00	7,615.00	7,615.00	62.04	131.94	90.00	256.82	21.00	2,881.09	2,708.75	172.35	16.717	
12,000.00	7,630.00	7,615.00	7,615.00	63.48	131.94	90.00	256.82	21.00	2,965.09	2,792.83	172.26	17.213	
12,100.00	7,630.00	7,615.00	7,615.00	64.93	131.94	90.00	256.82	21.00	3,050.05	2,877.87	172.17	17.715	
12,200.00	7,630.00	7,615.00	7,615.00	66.39	131.94	90.00	256.82	21.00	3,135.90	2,963.80	172.09	18.222	
12,300.00	7,630.00	7,615.00	7,615.00	67.86	131.94	90.00	256.82	21.00	3,222.56	3,050.55	172.01	18.735	
12,400.00	7,630.00	7,615.00	7,615.00	69.35	131.94	90.00	256.82	21.00	3,309.97	3,138.04	171.93	19.252	
12,500.00	7,630.00	7,615.00	7,615.00	70.85	131.94	90.00	256.82	21.00	3,398.08	3,226.23	171.85	19.773	
12,600.00	7,630.00	7,615.00	7,615.00	72.36	131.94	90.00	256.82	21.00	3,486.83	3,315.05	171.78	20.298	
12,700.00	7,630.00	7,615.00	7,615.00	73.88	131.94	90.00	256.82	21.00	3,576.18	3,404.47	171.71	20.827	
12,800.00	7,630.00	7,615.00	7,615.00	75.41	131.94	90.00	256.82	21.00	3,666.07	3,494.43	171.64	21.359	
12,900.00	7,630.00	7,615.00	7,615.00	76.95	131.94	90.00	256.82	21.00	3,756.48	3,584.90	171.58	21.894	
13,000.00	7,630.00	7,615.00	7,615.00	78.49	131.94	90.00	256.82	21.00	3,847.36	3,675.85	171.51	22.432	
13,100.00	7,630.00	7,615.00	7,615.00	80.05	131.94	90.00	256.82	21.00	3,938.68	3,767.23	171.45	22.972	
13,200.00	7,630.00	7,615.00	7,615.00	81.61	131.94	90.00	256.82	21.00	4,030.42	3,859.02	171.40	23.515	
13,300.00	7,630.00	7,615.00	7,615.00	83.18	131.94	90.00	256.82	21.00	4,122.54	3,951.19	171.35	24.060	
13,400.00	7,630.00	7,615.00	7,615.00	84.76	131.94	90.00	256.82	21.00	4,215.02	4,043.72	171.30	24.607	
13,500.00	7,630.00	7,615.00	7,615.00	86.34	131.94	90.00	256.82	21.00	4,307.83	4,136.58	171.25	25.155	
13,600.00	7,630.00	7,615.00	7,615.00	87.94	131.94	90.00	256.82	21.00	4,400.96	4,229.76	171.20	25.706	
13,700.00	7,630.00	7,615.00	7,615.00	89.53	131.94	90.00	256.82	21.00	4,494.38	4,323.22	171.16	26.258	
13,800.00	7,630.00	7,615.00	7,615.00	91.13	131.94	90.00	256.82	21.00	4,588.09	4,416.96	171.12	26.811	
13,900.00	7,630.00	7,615.00	7,615.00	92.74	131.94	90.00	256.82	21.00	4,682.05	4,510.96	171.09	27.366	

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,630.00	7,615.00	7,615.00	94.35	131.94	90.00	256.82	21.00	4,776.26	4,605.20	171.06	27.922	
14,100.00	7,630.00	7,615.00	7,615.00	95.97	131.94	90.00	256.82	21.00	4,870.69	4,699.67	171.02	28.479	
14,200.00	7,630.00	7,615.00	7,615.00	97.60	131.94	90.00	256.82	21.00	4,965.35	4,794.35	171.00	29.038	
14,300.00	7,630.00	7,615.00	7,615.00	99.22	131.94	90.00	256.82	21.00	5,060.21	4,889.24	170.97	29.597	
14,400.00	7,630.00	7,615.00	7,615.00	100.85	131.94	90.00	256.82	21.00	5,155.27	4,984.32	170.95	30.157	
14,500.00	7,630.00	7,615.00	7,615.00	102.49	131.94	90.00	256.82	21.00	5,250.51	5,079.58	170.93	30.718	
14,600.00	7,630.00	7,615.00	7,615.00	104.13	131.94	90.00	256.82	21.00	5,345.92	5,175.02	170.91	31.280	
14,700.00	7,630.00	7,615.00	7,615.00	105.77	131.94	90.00	256.82	21.00	5,441.50	5,270.61	170.89	31.842	
14,800.00	7,630.00	7,615.00	7,615.00	107.42	131.94	90.00	256.82	21.00	5,537.24	5,366.36	170.88	32.405	
14,900.00	7,630.00	7,615.00	7,615.00	109.07	131.94	90.00	256.82	21.00	5,633.12	5,462.25	170.86	32.969	
15,000.00	7,630.00	7,615.00	7,615.00	110.72	131.94	90.00	256.82	21.00	5,729.14	5,558.29	170.85	33.533	
15,100.00	7,630.00	7,615.00	7,615.00	112.38	131.94	90.00	256.82	21.00	5,825.30	5,654.45	170.84	34.097	
15,200.00	7,630.00	7,615.00	7,615.00	114.04	131.94	90.00	256.82	21.00	5,921.58	5,750.75	170.84	34.662	
15,300.00	7,630.00	7,615.00	7,615.00	115.71	131.94	90.00	256.82	21.00	6,017.99	5,847.16	170.83	35.227	
15,400.00	7,630.00	7,615.00	7,615.00	117.37	131.94	90.00	256.82	21.00	6,114.51	5,943.68	170.83	35.793	
15,500.00	7,630.00	7,615.00	7,615.00	119.04	131.94	90.00	256.82	21.00	6,211.14	6,040.31	170.83	36.359	
15,600.00	7,630.00	7,615.00	7,615.00	120.71	131.94	90.00	256.82	21.00	6,307.88	6,137.05	170.83	36.925	
15,700.00	7,630.00	7,615.00	7,615.00	122.39	131.94	90.00	256.82	21.00	6,404.71	6,233.88	170.83	37.491	
15,800.00	7,630.00	7,615.00	7,615.00	124.06	131.94	90.00	256.82	21.00	6,501.65	6,330.81	170.84	38.058	
15,900.00	7,630.00	7,615.00	7,615.00	125.74	131.94	90.00	256.82	21.00	6,598.67	6,427.83	170.84	38.624	
16,000.00	7,630.00	7,615.00	7,615.00	127.42	131.94	90.00	256.82	21.00	6,695.78	6,524.93	170.85	39.191	
16,100.00	7,630.00	7,615.00	7,615.00	129.10	131.94	90.00	256.82	21.00	6,792.98	6,622.12	170.86	39.758	
16,200.00	7,630.00	7,615.00	7,615.00	130.79	131.94	90.00	256.82	21.00	6,890.25	6,719.38	170.87	40.325	
16,300.00	7,630.00	7,615.00	7,615.00	132.48	131.94	90.00	256.82	21.00	6,987.61	6,816.72	170.88	40.891	
16,400.00	7,630.00	7,615.00	7,615.00	134.17	131.94	90.00	256.82	21.00	7,085.03	6,914.14	170.90	41.458	
16,500.00	7,630.00	7,615.00	7,615.00	135.86	131.94	90.00	256.82	21.00	7,182.53	7,011.62	170.91	42.025	
16,600.00	7,630.00	7,615.00	7,615.00	137.55	131.94	90.00	256.82	21.00	7,280.09	7,109.17	170.93	42.592	
16,700.00	7,630.00	7,615.00	7,615.00	139.24	131.94	90.00	256.82	21.00	7,377.72	7,206.78	170.94	43.159	
16,800.00	7,630.00	7,615.00	7,615.00	140.94	131.94	90.00	256.82	21.00	7,475.42	7,304.45	170.96	43.725	
16,900.00	7,630.00	7,615.00	7,615.00	142.64	131.94	90.00	256.82	21.00	7,573.17	7,402.19	170.98	44.292	
17,000.00	7,630.00	7,615.00	7,615.00	144.34	131.94	90.00	256.82	21.00	7,670.98	7,499.97	171.01	44.858	
17,100.00	7,630.00	7,615.00	7,615.00	146.04	131.94	90.00	256.82	21.00	7,768.85	7,597.82	171.03	45.424	
17,200.00	7,630.00	7,615.00	7,615.00	147.74	131.94	90.00	256.82	21.00	7,866.77	7,695.71	171.05	45.990	
17,300.00	7,630.00	7,615.00	7,615.00	149.44	131.94	90.00	256.82	21.00	7,964.74	7,793.66	171.08	46.556	
17,400.00	7,630.00	7,615.00	7,615.00	151.15	131.94	90.00	256.82	21.00	8,062.76	7,891.66	171.11	47.122	
17,500.00	7,630.00	7,615.00	7,615.00	152.86	131.94	90.00	256.82	21.00	8,160.83	7,989.70	171.13	47.687	
17,600.00	7,630.00	7,615.00	7,615.00	154.56	131.94	90.00	256.82	21.00	8,258.95	8,087.78	171.16	48.252	
17,700.00	7,630.00	7,615.00	7,615.00	156.27	131.94	90.00	256.82	21.00	8,357.11	8,185.91	171.19	48.817	
17,800.00	7,630.00	7,615.00	7,615.00	157.98	131.94	90.00	256.82	21.00	8,455.31	8,284.09	171.22	49.382	
17,900.00	7,630.00	7,615.00	7,615.00	159.70	131.94	90.00	256.82	21.00	8,553.56	8,382.30	171.26	49.946	
18,000.00	7,630.00	7,615.00	7,615.00	161.41	131.94	90.00	256.82	21.00	8,651.84	8,480.55	171.29	50.510	
18,100.00	7,630.00	7,615.00	7,615.00	163.12	131.94	90.00	256.82	21.00	8,750.17	8,578.84	171.32	51.074	
18,154.00	7,630.00	7,615.00	7,615.00	164.05	131.94	90.00	256.82	21.00	8,803.28	8,631.94	171.34	51.378	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	10.36	10.36				
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	10.36	10.36	10.09	0.27	38.534	
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	10.36	10.36	9.37	0.99	10.509	
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	10.36	10.36	8.66	1.70	6.084	
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	10.36	10.36	7.94	2.42	4.282	
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	10.36	10.36	7.22	3.14	3.303	
600.00	600.00	600.00	600.00	1.93	1.93	90.00	0.00	10.36	10.36	6.51	3.85	2.688	
700.00	700.00	700.00	700.00	2.29	2.29	90.00	0.00	10.36	10.36	5.79	4.57	2.267	
800.00	800.00	800.00	800.00	2.64	2.64	90.00	0.00	10.36	10.36	5.07	5.29	1.959	
900.00	900.00	900.00	900.00	3.00	3.00	90.00	0.00	10.36	10.36	4.36	6.00	1.725	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	90.00	0.00	10.36	10.36	3.64	6.72	1.541	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	90.00	0.00	10.36	10.36	2.92	7.44	1.393	Level 3
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	90.00	0.00	10.36	10.36	2.20	8.16	1.270	Level 3
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	90.00	0.00	10.36	10.36	1.49	8.87	1.168	Level 2, CC, ES, SF
1,400.00	1,400.00	1,399.71	1,399.69	4.79	4.79	83.72	1.27	11.54	11.62	2.03	9.58	1.212	Level 2
1,500.00	1,499.98	1,499.29	1,499.13	5.15	5.15	37.37	5.07	15.08	14.51	4.23	10.28	1.412	Level 3
1,600.00	1,599.84	1,598.74	1,598.20	5.51	5.50	32.65	11.39	20.96	17.77	6.80	10.96	1.620	
1,700.00	1,699.45	1,698.07	1,696.79	5.87	5.86	30.16	20.21	29.17	21.22	9.58	11.64	1.824	
1,800.00	1,798.70	1,797.28	1,794.78	6.23	6.23	29.04	31.51	39.69	24.82	12.52	12.30	2.017	
1,900.00	1,897.47	1,896.36	1,892.07	6.60	6.62	28.77	45.28	52.50	28.53	15.57	12.96	2.201	
2,000.00	1,995.62	1,995.33	1,988.52	6.99	7.02	29.06	61.47	67.57	32.35	18.73	13.62	2.375	
2,100.00	2,093.06	2,094.17	2,084.04	7.39	7.45	29.73	80.07	84.88	36.28	21.99	14.29	2.539	
2,200.00	2,189.64	2,192.90	2,178.51	7.82	7.91	30.67	101.04	104.39	40.31	25.34	14.97	2.693	
2,300.00	2,285.27	2,291.50	2,271.82	8.28	8.40	31.78	124.35	126.09	44.45	28.79	15.66	2.838	
2,400.00	2,379.82	2,389.98	2,363.88	8.77	8.93	33.02	149.97	149.93	48.72	32.33	16.39	2.972	
2,500.00	2,473.17	2,488.35	2,454.56	9.31	9.51	34.35	177.85	175.88	53.11	35.95	17.16	3.094	
2,600.00	2,565.21	2,586.82	2,543.99	9.88	10.12	35.74	208.01	203.95	57.61	39.61	18.00	3.200	
2,660.67	2,620.37	2,647.43	2,598.71	10.25	10.53	37.07	227.10	221.72	59.67	41.03	18.64	3.201	
2,700.00	2,655.96	2,686.73	2,634.19	10.50	10.79	38.14	239.48	233.23	60.69	41.62	19.07	3.182	
2,800.00	2,746.43	2,786.66	2,724.39	11.15	11.48	40.71	270.95	262.52	63.38	43.15	20.23	3.133	
2,900.00	2,836.90	2,886.59	2,814.60	11.82	12.18	43.06	302.42	291.81	66.19	44.74	21.44	3.086	
3,000.00	2,927.37	2,986.51	2,904.80	12.50	12.90	45.22	333.89	321.10	69.09	46.38	22.72	3.042	
3,100.00	3,017.85	3,086.44	2,995.01	13.21	13.63	47.20	365.36	350.39	72.09	48.06	24.03	3.000	
3,200.00	3,108.32	3,186.36	3,085.21	13.92	14.38	49.02	396.83	379.67	75.17	49.77	25.39	2.960	
3,300.00	3,198.79	3,286.29	3,175.42	14.64	15.13	50.69	428.30	408.96	78.32	51.52	26.79	2.923	
3,400.00	3,289.27	3,386.21	3,265.62	15.38	15.89	52.24	459.77	438.25	81.52	53.30	28.22	2.889	
3,500.00	3,379.74	3,486.14	3,355.83	16.12	16.66	53.67	491.24	467.54	84.79	55.11	29.68	2.857	
3,600.00	3,470.21	3,586.06	3,446.03	16.87	17.43	54.99	522.71	496.83	88.10	56.94	31.15	2.828	
3,700.00	3,560.68	3,685.99	3,536.24	17.62	18.21	56.21	554.18	526.11	91.45	58.80	32.65	2.801	
3,800.00	3,651.16	3,785.91	3,626.44	18.39	18.99	57.35	585.65	555.40	94.85	60.68	34.17	2.776	
3,900.00	3,741.63	3,885.84	3,716.65	19.15	19.78	58.41	617.12	584.69	98.28	62.58	35.70	2.753	
4,000.00	3,832.10	3,985.76	3,806.85	19.92	20.57	59.39	648.59	613.98	101.74	64.49	37.24	2.732	
4,100.00	3,922.57	4,085.69	3,897.06	20.69	21.37	60.31	680.06	643.27	105.22	66.43	38.80	2.712	
4,200.00	4,013.05	4,185.61	3,987.26	21.47	22.16	61.18	711.53	672.55	108.74	68.38	40.36	2.694	
4,300.00	4,103.52	4,285.54	4,077.47	22.25	22.96	61.98	743.00	701.84	112.27	70.34	41.93	2.677	
4,400.00	4,193.99	4,385.47	4,167.67	23.03	23.77	62.74	774.47	731.13	115.83	72.32	43.51	2.662	
4,500.00	4,284.47	4,485.39	4,257.88	23.81	24.57	63.46	805.94	760.42	119.41	74.31	45.10	2.648	
4,600.00	4,374.94	4,585.32	4,348.08	24.60	25.38	64.13	837.41	789.71	123.00	76.31	46.69	2.634	
4,700.00	4,465.41	4,685.24	4,438.29	25.39	26.18	64.76	868.88	818.99	126.61	78.33	48.29	2.622	
4,800.00	4,555.88	4,785.17	4,528.49	26.18	26.99	65.36	900.35	848.28	130.24	80.35	49.89	2.611	
4,900.00	4,646.36	4,885.09	4,618.70	26.97	27.80	65.93	931.82	877.57	133.87	82.38	51.49	2.600	
5,000.00	4,736.83	4,985.02	4,708.90	27.76	28.61	66.46	963.29	906.86	137.52	84.43	53.10	2.590	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	5,084.94	4,799.10	28.55	29.43	66.97	994.76	936.15	141.19	86.48	54.71	2.581	
5,200.00	4,917.77	5,184.87	4,889.31	29.35	30.24	67.45	1,026.23	965.44	144.86	88.54	56.32	2.572	
5,300.00	5,008.25	5,284.79	4,979.51	30.15	31.06	67.91	1,057.70	994.72	148.54	90.60	57.94	2.564	
5,400.00	5,098.72	5,384.72	5,069.72	30.94	31.87	68.35	1,089.17	1,024.01	152.23	92.68	59.55	2.556	
5,500.00	5,189.19	5,484.64	5,159.92	31.74	32.69	68.76	1,120.64	1,053.30	155.93	94.76	61.17	2.549	
5,600.00	5,279.67	5,584.57	5,250.13	32.54	33.51	69.16	1,152.11	1,082.59	159.64	96.84	62.79	2.542	
5,700.00	5,370.14	5,684.49	5,340.33	33.34	34.33	69.54	1,183.58	1,111.88	163.35	98.93	64.42	2.536	
5,800.00	5,460.61	5,784.42	5,430.54	34.14	35.14	69.90	1,215.05	1,141.16	167.07	101.03	66.04	2.530	
5,900.00	5,551.08	5,884.34	5,520.74	34.94	35.96	70.24	1,246.52	1,170.45	170.80	103.13	67.67	2.524	
6,000.00	5,641.56	5,984.27	5,610.95	35.75	36.78	70.58	1,277.99	1,199.74	174.53	105.24	69.29	2.519	
6,100.00	5,732.03	6,084.20	5,701.15	36.55	37.61	70.89	1,309.46	1,229.03	178.27	107.35	70.92	2.514	
6,200.00	5,822.50	6,184.12	5,791.36	37.35	38.43	71.20	1,340.93	1,258.32	182.02	109.47	72.55	2.509	
6,300.00	5,912.97	6,284.05	5,881.56	38.16	39.25	71.49	1,372.40	1,287.60	185.77	111.59	74.18	2.504	
6,400.00	6,003.45	6,383.97	5,971.77	38.96	40.07	71.77	1,403.87	1,316.89	189.52	113.71	75.81	2.500	
6,500.00	6,093.92	6,483.90	6,061.97	39.77	40.89	72.04	1,435.34	1,346.18	193.28	115.84	77.44	2.496	
6,600.00	6,184.39	6,583.82	6,152.18	40.57	41.72	72.30	1,466.81	1,375.47	197.04	117.97	79.07	2.492	
6,700.00	6,274.87	6,683.75	6,242.38	41.38	42.54	72.55	1,498.28	1,404.76	200.81	120.11	80.70	2.488	
6,800.00	6,365.34	6,783.67	6,332.59	42.18	43.36	72.79	1,529.75	1,434.04	204.58	122.25	82.33	2.485	
6,900.00	6,455.81	6,883.60	6,422.79	42.99	44.19	73.02	1,561.22	1,463.33	208.35	124.39	83.96	2.481	
7,000.00	6,546.28	6,983.52	6,513.00	43.80	45.01	73.24	1,592.69	1,492.62	212.13	126.53	85.60	2.478	
7,100.00	6,636.76	7,083.45	6,603.20	44.61	45.84	73.46	1,624.16	1,521.91	215.91	128.68	87.23	2.475	
7,200.00	6,727.23	7,183.37	6,693.41	45.41	46.66	73.67	1,655.63	1,551.20	219.69	130.82	88.86	2.472	
7,300.00	6,817.70	7,283.30	6,783.61	46.22	47.49	73.87	1,687.10	1,580.48	223.47	132.98	90.50	2.469	
7,383.79	6,893.51	7,367.02	6,859.19	46.90	48.18	74.03	1,713.47	1,605.02	226.65	134.78	91.87	2.467	
7,400.00	6,908.25	7,383.23	6,873.82	47.03	48.31	71.71	1,718.58	1,609.77	227.17	135.05	92.11	2.466	
7,450.00	6,954.52	7,433.13	6,918.86	47.40	48.73	62.05	1,734.29	1,624.40	227.59	134.97	92.62	2.457	
7,500.00	7,001.74	7,482.62	6,963.54	47.72	49.14	48.08	1,749.88	1,638.90	226.38	133.68	92.69	2.442	
7,550.00	7,049.55	7,531.33	7,007.52	47.99	49.54	29.67	1,765.22	1,653.18	223.90	131.67	92.23	2.428	
7,600.00	7,097.58	7,578.89	7,050.45	48.21	49.93	8.43	1,780.20	1,667.12	220.78	129.72	91.06	2.425	
7,650.00	7,145.48	7,624.94	7,092.02	48.37	50.31	-12.60	1,794.70	1,680.62	217.89	128.88	89.00	2.448	
7,700.00	7,192.88	7,669.12	7,131.90	48.48	50.68	-31.17	1,808.62	1,693.57	216.32	130.42	85.91	2.518	
7,708.74	7,201.08	7,676.63	7,138.68	48.49	50.74	-34.11	1,810.98	1,695.77	216.28	131.03	85.25	2.537	
7,750.00	7,239.41	7,711.41	7,170.17	48.54	51.02	-46.73	1,821.62	1,705.99	217.36	135.52	81.84	2.656	
7,800.00	7,284.72	7,754.69	7,210.06	48.56	51.35	-59.60	1,832.28	1,718.93	221.78	144.21	77.58	2.859	
7,850.00	7,328.47	7,799.98	7,252.50	48.54	51.66	-70.41	1,840.01	1,732.69	229.58	155.91	73.66	3.117	
7,900.00	7,370.32	7,847.66	7,297.67	48.47	51.95	-79.65	1,844.32	1,747.31	240.49	170.07	70.42	3.415	
7,950.00	7,409.96	7,898.22	7,345.75	48.37	52.19	-87.63	1,844.56	1,762.87	254.10	186.19	67.92	3.741	
8,000.00	7,447.08	7,952.21	7,396.92	48.24	52.40	-94.61	1,839.90	1,779.41	269.90	203.93	65.97	4.091	
8,050.00	7,481.41	8,010.34	7,451.28	48.07	52.56	-100.75	1,829.25	1,796.96	287.29	223.02	64.26	4.470	
8,100.00	7,512.67	8,073.45	7,508.79	47.87	52.64	-106.19	1,811.20	1,815.50	305.65	243.18	62.47	4.893	
8,150.00	7,540.64	8,142.48	7,569.14	47.65	52.67	-111.00	1,783.99	1,834.93	324.33	263.99	60.34	5.375	
8,200.00	7,565.09	8,218.51	7,631.47	47.40	52.60	-115.24	1,745.45	1,854.96	342.61	284.86	57.75	5.933	
8,250.00	7,585.85	8,302.55	7,694.06	47.14	52.43	-118.91	1,693.20	1,875.03	359.73	304.88	54.84	6.559	
8,300.00	7,602.75	8,395.34	7,753.90	46.86	52.14	-121.99	1,625.04	1,894.16	374.85	322.70	52.14	7.189	
8,350.00	7,615.67	8,496.98	7,806.51	46.58	51.71	-124.38	1,539.87	1,910.89	387.09	336.40	50.69	7.637	
8,400.00	7,624.51	8,606.40	7,846.22	46.28	51.16	-126.02	1,438.85	1,923.39	395.61	343.88	51.74	7.646	
8,450.00	7,629.19	8,721.10	7,867.48	45.98	50.53	-126.81	1,326.52	1,929.89	399.74	343.83	55.91	7.149	
8,481.00	7,630.00	8,783.56	7,870.00	45.79	50.17	-126.87	1,264.15	1,930.49	400.00	341.26	58.74	6.810	
8,500.00	7,630.00	8,802.55	7,870.00	45.68	50.06	-126.87	1,245.15	1,930.43	400.00	341.45	58.55	6.832	
8,600.00	7,630.00	8,902.55	7,870.00	45.11	49.52	-126.87	1,145.15	1,930.09	400.00	342.39	57.61	6.943	
8,700.00	7,630.00	9,002.55	7,870.00	44.56	49.00	-126.87	1,045.15	1,929.75	400.00	343.18	56.82	7.040	
8,800.00	7,630.00	9,102.55	7,870.00	44.05	48.51	-126.87	945.15	1,929.41	400.00	343.82	56.17	7.121	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	9,202.55	7,870.00	43.57	48.05	-126.87	845.15	1,929.07	400.00	344.32	55.68	7.184	
9,000.00	7,630.00	9,302.55	7,870.00	43.12	47.62	-126.87	745.15	1,928.73	400.00	344.65	55.34	7.228	
9,100.00	7,630.00	9,402.55	7,870.00	42.70	47.21	-126.87	645.15	1,928.39	400.00	344.83	55.16	7.251	
9,200.00	7,630.00	9,502.55	7,870.00	42.31	46.83	-126.87	545.15	1,928.05	399.99	344.85	55.15	7.253	
9,300.00	7,630.00	9,602.55	7,870.00	41.94	46.47	-126.87	445.16	1,927.71	399.99	344.71	55.29	7.235	
9,400.00	7,630.00	9,702.55	7,870.00	41.59	46.13	-126.87	345.16	1,927.37	399.99	344.40	55.59	7.195	
9,500.00	7,630.00	9,802.55	7,870.00	41.26	45.82	-126.87	245.16	1,927.04	399.99	343.94	56.05	7.137	
9,600.00	7,630.00	9,902.55	7,870.00	40.96	45.53	-126.87	145.16	1,926.70	399.99	343.33	56.66	7.059	
9,700.00	7,630.00	10,002.55	7,870.00	40.68	45.26	-126.87	45.16	1,926.36	399.99	342.57	57.42	6.966	
9,800.00	7,630.00	10,102.55	7,870.00	40.42	45.03	-126.87	-54.84	1,926.02	399.99	341.66	58.32	6.858	
9,900.00	7,630.00	10,202.55	7,870.00	40.17	44.82	-126.87	-154.84	1,925.68	399.99	340.63	59.36	6.738	
10,000.00	7,630.00	10,302.55	7,870.00	39.96	44.66	-126.87	-254.84	1,925.34	399.99	339.46	60.53	6.608	
10,100.00	7,630.00	10,402.55	7,870.00	40.05	44.56	-126.87	-354.84	1,925.00	399.98	338.17	61.82	6.470	
10,200.00	7,630.00	10,502.55	7,870.00	40.95	44.59	-126.87	-454.84	1,924.66	399.98	336.76	63.22	6.327	
10,300.00	7,630.00	10,602.55	7,870.00	41.94	44.83	-126.87	-554.84	1,924.32	399.98	335.25	64.73	6.179	
10,400.00	7,630.00	10,702.55	7,870.00	42.98	45.38	-126.87	-654.84	1,923.98	399.98	333.64	66.34	6.029	
10,500.00	7,630.00	10,802.55	7,870.00	44.06	46.17	-126.87	-754.84	1,923.64	399.98	331.94	68.04	5.878	
10,600.00	7,630.00	10,902.55	7,870.00	45.17	47.12	-126.87	-854.84	1,923.30	399.98	330.15	69.83	5.728	
10,700.00	7,630.00	11,002.55	7,870.00	46.32	48.15	-126.87	-954.84	1,922.96	399.98	328.28	71.70	5.579	
10,800.00	7,630.00	11,102.55	7,870.00	47.50	49.25	-126.87	-1,054.84	1,922.62	399.98	326.34	73.64	5.432	
10,900.00	7,630.00	11,202.55	7,870.00	48.70	50.40	-126.87	-1,154.84	1,922.28	399.98	324.33	75.64	5.288	
11,000.00	7,630.00	11,302.55	7,870.00	49.94	51.58	-126.87	-1,254.83	1,921.94	399.97	322.26	77.71	5.147	
11,100.00	7,630.00	11,402.55	7,870.00	51.20	52.79	-126.87	-1,354.83	1,921.60	399.97	320.13	79.84	5.010	
11,200.00	7,630.00	11,502.55	7,870.00	52.48	54.03	-126.87	-1,454.83	1,921.26	399.97	317.95	82.02	4.876	
11,300.00	7,630.00	11,602.55	7,870.00	53.79	55.30	-126.87	-1,554.83	1,920.92	399.97	315.72	84.25	4.747	
11,400.00	7,630.00	11,702.55	7,870.00	55.12	56.60	-126.87	-1,654.83	1,920.58	399.97	313.45	86.52	4.623	
11,500.00	7,630.00	11,802.55	7,870.00	56.46	57.91	-126.87	-1,754.83	1,920.25	399.97	311.13	88.84	4.502	
11,600.00	7,630.00	11,902.55	7,870.00	57.83	59.25	-126.87	-1,854.83	1,919.91	399.97	308.77	91.20	4.386	
11,700.00	7,630.00	12,002.55	7,870.00	59.22	60.60	-126.87	-1,954.83	1,919.57	399.97	306.38	93.59	4.274	
11,800.00	7,630.00	12,102.55	7,870.00	60.62	61.98	-126.87	-2,054.83	1,919.23	399.97	303.96	96.01	4.166	
11,900.00	7,630.00	12,202.55	7,870.00	62.04	63.37	-126.87	-2,154.83	1,918.89	399.96	301.50	98.46	4.062	
12,000.00	7,630.00	12,302.55	7,870.00	63.48	64.77	-126.87	-2,254.83	1,918.55	399.96	299.02	100.94	3.962	
12,100.00	7,630.00	12,402.55	7,870.00	64.93	66.20	-126.87	-2,354.83	1,918.21	399.96	296.51	103.45	3.866	
12,200.00	7,630.00	12,502.55	7,870.00	66.39	67.63	-126.87	-2,454.83	1,917.87	399.96	293.98	105.98	3.774	
12,300.00	7,630.00	12,602.55	7,870.00	67.86	69.08	-126.87	-2,554.83	1,917.53	399.96	291.42	108.54	3.685	
12,400.00	7,630.00	12,702.55	7,870.00	69.35	70.54	-126.87	-2,654.83	1,917.19	399.96	288.84	111.12	3.599	
12,500.00	7,630.00	12,802.55	7,870.00	70.85	72.02	-126.87	-2,754.83	1,916.85	399.96	286.25	113.71	3.517	
12,600.00	7,630.00	12,902.55	7,870.00	72.36	73.50	-126.87	-2,854.83	1,916.51	399.96	283.63	116.33	3.438	
12,700.00	7,630.00	13,002.55	7,870.00	73.88	75.00	-126.87	-2,954.83	1,916.17	399.96	281.00	118.96	3.362	
12,800.00	7,630.00	13,102.55	7,870.00	75.41	76.51	-126.87	-3,054.82	1,915.83	399.95	278.35	121.60	3.289	
12,900.00	7,630.00	13,202.55	7,870.00	76.95	78.02	-126.87	-3,154.82	1,915.49	399.95	275.69	124.27	3.219	
13,000.00	7,630.00	13,302.55	7,870.00	78.49	79.55	-126.87	-3,254.82	1,915.15	399.95	273.01	126.94	3.151	
13,100.00	7,630.00	13,402.55	7,870.00	80.05	81.09	-126.88	-3,354.82	1,914.81	399.95	270.32	129.63	3.085	
13,200.00	7,630.00	13,502.55	7,870.00	81.61	82.63	-126.88	-3,454.82	1,914.47	399.95	267.62	132.33	3.022	
13,300.00	7,630.00	13,602.55	7,870.00	83.18	84.18	-126.88	-3,554.82	1,914.13	399.95	264.90	135.05	2.962	
13,400.00	7,630.00	13,702.55	7,870.00	84.76	85.74	-126.88	-3,654.82	1,913.80	399.95	262.18	137.77	2.903	
13,500.00	7,630.00	13,802.55	7,870.00	86.34	87.30	-126.88	-3,754.82	1,913.46	399.95	259.44	140.51	2.846	
13,600.00	7,630.00	13,902.55	7,870.00	87.94	88.87	-126.88	-3,854.82	1,913.12	399.95	256.69	143.25	2.792	
13,700.00	7,630.00	14,002.55	7,870.00	89.53	90.45	-126.88	-3,954.82	1,912.78	399.94	253.94	146.01	2.739	
13,800.00	7,630.00	14,102.55	7,870.00	91.13	92.04	-126.88	-4,054.82	1,912.44	399.94	251.18	148.77	2.688	
13,900.00	7,630.00	14,202.55	7,870.00	92.74	93.63	-126.88	-4,154.82	1,912.10	399.94	248.40	151.54	2.639	
14,000.00	7,630.00	14,302.55	7,870.00	94.35	95.23	-126.88	-4,254.82	1,911.76	399.94	245.62	154.32	2.592	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	14,402.55	7,870.00	95.97	96.83	-126.88	-4,354.82	1,911.42	399.94	242.84	157.10	2.546	
14,200.00	7,630.00	14,502.55	7,870.00	97.60	98.43	-126.88	-4,454.82	1,911.08	399.94	240.04	159.90	2.501	
14,300.00	7,630.00	14,602.55	7,870.00	99.22	100.05	-126.88	-4,554.82	1,910.74	399.94	237.24	162.70	2.458	
14,400.00	7,630.00	14,702.55	7,870.00	100.85	101.66	-126.88	-4,654.82	1,910.40	399.94	234.44	165.50	2.417	
14,500.00	7,630.00	14,802.55	7,870.00	102.49	103.28	-126.88	-4,754.81	1,910.06	399.94	231.62	168.31	2.376	
14,600.00	7,630.00	14,902.55	7,870.00	104.13	104.91	-126.88	-4,854.81	1,909.72	399.93	228.81	171.13	2.337	
14,700.00	7,630.00	15,002.55	7,870.00	105.77	106.54	-126.88	-4,954.81	1,909.38	399.93	225.98	173.95	2.299	
14,800.00	7,630.00	15,102.55	7,870.00	107.42	108.17	-126.88	-5,054.81	1,909.04	399.93	223.15	176.78	2.262	
14,900.00	7,630.00	15,202.55	7,870.00	109.07	109.81	-126.88	-5,154.81	1,908.70	399.93	220.32	179.61	2.227	
15,000.00	7,630.00	15,302.55	7,870.00	110.72	111.45	-126.88	-5,254.81	1,908.36	399.93	217.48	182.45	2.192	
15,100.00	7,630.00	15,402.55	7,870.00	112.38	113.09	-126.88	-5,354.81	1,908.02	399.93	214.64	185.29	2.158	
15,200.00	7,630.00	15,502.55	7,870.00	114.04	114.74	-126.88	-5,454.81	1,907.68	399.93	211.79	188.14	2.126	
15,300.00	7,630.00	15,602.55	7,870.00	115.71	116.39	-126.88	-5,554.81	1,907.35	399.93	208.94	190.99	2.094	
15,400.00	7,630.00	15,702.55	7,870.00	117.37	118.05	-126.88	-5,654.81	1,907.01	399.93	206.09	193.84	2.063	
15,500.00	7,630.00	15,802.55	7,870.00	119.04	119.70	-126.88	-5,754.81	1,906.67	399.92	203.23	196.70	2.033	
15,600.00	7,630.00	15,902.55	7,870.00	120.71	121.36	-126.88	-5,854.81	1,906.33	399.92	200.37	199.56	2.004	
15,700.00	7,630.00	16,002.55	7,870.00	122.39	123.03	-126.88	-5,954.81	1,905.99	399.92	197.50	202.42	1.976	
15,800.00	7,630.00	16,102.55	7,870.00	124.06	124.69	-126.88	-6,054.81	1,905.65	399.92	194.63	205.29	1.948	
15,900.00	7,630.00	16,202.55	7,870.00	125.74	126.36	-126.88	-6,154.81	1,905.31	399.92	191.76	208.16	1.921	
16,000.00	7,630.00	16,302.55	7,870.00	127.42	128.03	-126.88	-6,254.81	1,904.97	399.92	188.88	211.03	1.895	
16,100.00	7,630.00	16,402.55	7,870.00	129.10	129.70	-126.88	-6,354.81	1,904.63	399.92	186.01	213.91	1.870	
16,200.00	7,630.00	16,502.55	7,870.00	130.79	131.38	-126.88	-6,454.81	1,904.29	399.92	183.13	216.79	1.845	
16,300.00	7,630.00	16,602.55	7,870.00	132.48	133.05	-126.88	-6,554.80	1,903.95	399.92	180.24	219.67	1.821	
16,400.00	7,630.00	16,702.55	7,870.00	134.17	134.73	-126.88	-6,654.80	1,903.61	399.91	177.36	222.56	1.797	
16,500.00	7,630.00	16,802.55	7,870.00	135.86	136.42	-126.88	-6,754.80	1,903.27	399.91	174.47	225.44	1.774	
16,600.00	7,630.00	16,902.55	7,870.00	137.55	138.10	-126.88	-6,854.80	1,902.93	399.91	171.58	228.33	1.751	
16,700.00	7,630.00	17,002.55	7,870.00	139.24	139.78	-126.88	-6,954.80	1,902.59	399.91	168.69	231.22	1.730	
16,800.00	7,630.00	17,102.55	7,870.00	140.94	141.47	-126.88	-7,054.80	1,902.25	399.91	165.79	234.12	1.708	
16,900.00	7,630.00	17,202.55	7,870.00	142.64	143.16	-126.88	-7,154.80	1,901.91	399.91	162.90	237.01	1.687	
17,000.00	7,630.00	17,302.55	7,870.00	144.34	144.85	-126.88	-7,254.80	1,901.57	399.91	160.00	239.91	1.667	
17,100.00	7,630.00	17,402.55	7,870.00	146.04	146.54	-126.88	-7,354.80	1,901.23	399.91	157.10	242.81	1.647	
17,200.00	7,630.00	17,502.55	7,870.00	147.74	148.24	-126.88	-7,454.80	1,900.90	399.91	154.19	245.71	1.628	
17,300.00	7,630.00	17,602.55	7,870.00	149.44	149.93	-126.88	-7,554.80	1,900.56	399.90	151.29	248.62	1.609	
17,400.00	7,630.00	17,702.55	7,870.00	151.15	151.63	-126.88	-7,654.80	1,900.22	399.90	148.38	251.52	1.590	
17,500.00	7,630.00	17,802.55	7,870.00	152.86	153.33	-126.88	-7,754.80	1,899.88	399.90	145.47	254.43	1.572	
17,600.00	7,630.00	17,902.55	7,870.00	154.56	155.03	-126.88	-7,854.80	1,899.54	399.90	142.56	257.34	1.554	
17,700.00	7,630.00	18,002.55	7,870.00	156.27	156.73	-126.88	-7,954.80	1,899.20	399.90	139.65	260.25	1.537	
17,800.00	7,630.00	18,102.55	7,870.00	157.98	158.43	-126.88	-8,054.80	1,898.86	399.90	136.74	263.16	1.520	
17,900.00	7,630.00	18,202.55	7,870.00	159.70	160.14	-126.88	-8,154.80	1,898.52	399.90	133.83	266.07	1.503	
18,000.00	7,630.00	18,302.55	7,870.00	161.41	161.84	-126.88	-8,254.79	1,898.18	399.90	130.91	268.99	1.487	Level 3
18,100.00	7,630.00	18,402.55	7,870.00	163.12	163.55	-126.88	-8,354.79	1,897.84	399.90	127.99	271.90	1.471	Level 3
18,154.00	7,630.00	18,456.56	7,870.00	164.05	164.47	-126.88	-8,408.80	1,897.66	399.90	126.42	273.48	1.462	Level 3

Anticollision Report

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	91.04	-0.36	20.16	20.16				
100.00	100.00	100.00	100.00	0.13	0.13	91.04	-0.36	20.16	20.16	19.89	0.27	74.998	
200.00	200.00	200.00	200.00	0.49	0.49	91.04	-0.36	20.16	20.16	19.18	0.99	20.454	
300.00	300.00	300.00	300.00	0.85	0.85	91.04	-0.36	20.16	20.16	18.46	1.70	11.842	
400.00	400.00	400.00	400.00	1.21	1.21	91.04	-0.36	20.16	20.16	17.74	2.42	8.333	
500.00	500.00	500.00	500.00	1.57	1.57	91.04	-0.36	20.16	20.16	17.03	3.14	6.428	
600.00	600.00	600.00	600.00	1.93	1.93	91.04	-0.36	20.16	20.16	16.31	3.85	5.232	
700.00	700.00	700.00	700.00	2.29	2.29	91.04	-0.36	20.16	20.16	15.59	4.57	4.412	
800.00	800.00	800.00	800.00	2.64	2.64	91.04	-0.36	20.16	20.16	14.88	5.29	3.813	
900.00	900.00	900.00	900.00	3.00	3.00	91.04	-0.36	20.16	20.16	14.16	6.00	3.358	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	91.04	-0.36	20.16	20.16	13.44	6.72	3.000	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	91.04	-0.36	20.16	20.16	12.73	7.44	2.711	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	91.04	-0.36	20.16	20.16	12.01	8.16	2.472	CC, ES
1,300.00	1,300.00	1,299.46	1,299.44	4.44	4.43	87.83	0.81	21.43	21.45	12.58	8.86	2.419	
1,400.00	1,400.00	1,398.67	1,398.51	4.79	4.78	80.27	4.32	25.21	25.62	16.05	9.56	2.679	
1,500.00	1,499.98	1,497.57	1,497.04	5.15	5.14	36.02	10.14	31.47	31.78	21.53	10.25	3.101	
1,600.00	1,599.84	1,596.23	1,594.97	5.51	5.50	32.46	18.25	40.21	38.43	27.51	10.92	3.519	
1,700.00	1,699.45	1,694.64	1,692.19	5.87	5.87	30.60	28.62	51.38	45.38	33.80	11.58	3.919	
1,800.00	1,798.70	1,792.82	1,788.60	6.23	6.25	29.80	41.22	64.95	52.54	40.31	12.23	4.295	
1,900.00	1,897.47	1,890.75	1,884.08	6.60	6.66	29.67	56.03	80.89	59.89	47.00	12.88	4.648	
2,000.00	1,995.62	1,988.44	1,978.52	6.99	7.08	30.00	73.00	99.16	67.39	53.86	13.53	4.979	
2,100.00	2,093.06	2,085.88	2,071.83	7.39	7.54	30.64	92.10	119.73	75.06	60.87	14.19	5.290	
2,200.00	2,189.64	2,183.08	2,163.90	7.82	8.03	31.50	113.29	142.56	82.90	68.05	14.86	5.580	
2,300.00	2,285.27	2,280.04	2,254.64	8.28	8.56	32.52	136.54	167.59	90.92	75.37	15.55	5.848	
2,400.00	2,379.82	2,376.77	2,343.95	8.77	9.13	33.64	161.79	194.79	99.13	82.86	16.27	6.094	
2,500.00	2,473.17	2,473.25	2,431.74	9.31	9.75	34.83	189.02	224.11	107.53	90.50	17.03	6.315	
2,600.00	2,565.21	2,569.49	2,517.93	9.88	10.41	36.07	218.17	255.50	116.15	98.30	17.84	6.510	
2,660.67	2,620.37	2,629.53	2,571.13	10.25	10.84	36.96	237.09	275.87	121.12	102.67	18.45	6.565	
2,700.00	2,655.96	2,668.72	2,605.86	10.50	11.13	37.65	249.45	289.18	124.05	105.18	18.87	6.573	
2,800.00	2,746.43	2,768.37	2,694.16	11.15	11.89	39.27	280.87	323.03	131.57	111.58	19.98	6.584	
2,900.00	2,836.90	2,868.02	2,782.46	11.82	12.66	40.72	312.30	356.88	139.18	118.04	21.14	6.583	
3,000.00	2,927.37	2,967.67	2,870.76	12.50	13.45	42.01	343.73	390.72	146.86	124.53	22.34	6.575	
3,100.00	3,017.85	3,067.33	2,959.07	13.21	14.25	43.17	375.16	424.57	154.62	131.05	23.57	6.560	
3,200.00	3,108.32	3,166.98	3,047.37	13.92	15.07	44.23	406.59	458.41	162.43	137.60	24.83	6.541	
3,300.00	3,198.79	3,266.63	3,135.67	14.64	15.89	45.18	438.02	492.26	170.30	144.17	26.13	6.518	
3,400.00	3,289.27	3,366.28	3,223.97	15.38	16.72	46.05	469.45	526.11	178.20	150.76	27.44	6.494	
3,500.00	3,379.74	3,465.93	3,312.27	16.12	17.56	46.85	500.87	559.95	186.14	157.36	28.78	6.468	
3,600.00	3,470.21	3,565.59	3,400.58	16.87	18.40	47.58	532.30	593.80	194.12	163.98	30.14	6.442	
3,700.00	3,560.68	3,665.24	3,488.88	17.62	19.25	48.26	563.73	627.64	202.12	170.62	31.51	6.415	
3,800.00	3,651.16	3,764.89	3,577.18	18.39	20.10	48.88	595.16	661.49	210.15	177.26	32.89	6.389	
3,900.00	3,741.63	3,864.54	3,665.48	19.15	20.96	49.45	626.59	695.34	218.21	183.91	34.30	6.363	
4,000.00	3,832.10	3,964.20	3,753.78	19.92	21.82	49.99	658.02	729.18	226.28	190.57	35.71	6.337	
4,100.00	3,922.57	4,063.85	3,842.09	20.69	22.68	50.49	689.45	763.03	234.37	197.24	37.13	6.312	
4,200.00	4,013.05	4,163.50	3,930.39	21.47	23.55	50.95	720.88	796.87	242.48	203.92	38.56	6.288	
4,300.00	4,103.52	4,263.15	4,018.69	22.25	24.42	51.39	752.30	830.72	250.60	210.60	40.00	6.265	
4,400.00	4,193.99	4,362.80	4,106.99	23.03	25.29	51.80	783.73	864.57	258.74	217.29	41.45	6.242	
4,500.00	4,284.47	4,462.46	4,195.29	23.81	26.16	52.18	815.16	898.41	266.89	223.99	42.90	6.221	
4,600.00	4,374.94	4,562.11	4,283.60	24.60	27.04	52.54	846.59	932.26	275.05	230.69	44.36	6.200	
4,700.00	4,465.41	4,661.76	4,371.90	25.39	27.91	52.88	878.02	966.10	283.22	237.39	45.83	6.180	
4,800.00	4,555.88	4,761.41	4,460.20	26.18	28.79	53.20	909.45	999.95	291.40	244.10	47.30	6.160	
4,900.00	4,646.36	4,861.06	4,548.50	26.97	29.67	53.50	940.88	1,033.79	299.59	250.81	48.78	6.142	
5,000.00	4,736.83	4,960.72	4,636.80	27.76	30.55	53.79	972.30	1,067.64	307.78	257.53	50.26	6.124	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	5,060.37	4,725.10	28.55	31.43	54.06	1,003.73	1,101.49	315.99	264.25	51.74	6.107	
5,200.00	4,917.77	5,160.02	4,813.41	29.35	32.32	54.32	1,035.16	1,135.33	324.20	270.97	53.23	6.090	
5,300.00	5,008.25	5,259.67	4,901.71	30.15	33.20	54.57	1,066.59	1,169.18	332.41	277.69	54.72	6.075	
5,400.00	5,098.72	5,359.32	4,990.01	30.94	34.09	54.80	1,098.02	1,203.02	340.64	284.42	56.22	6.059	
5,500.00	5,189.19	5,458.98	5,078.31	31.74	34.97	55.02	1,129.45	1,236.87	348.86	291.15	57.71	6.045	
5,600.00	5,279.67	5,558.63	5,166.61	32.54	35.86	55.23	1,160.88	1,270.72	357.10	297.88	59.21	6.031	
5,700.00	5,370.14	5,658.28	5,254.92	33.34	36.74	55.44	1,192.30	1,304.56	365.33	304.62	60.71	6.017	
5,800.00	5,460.61	5,757.93	5,343.22	34.14	37.63	55.63	1,223.73	1,338.41	373.57	311.36	62.22	6.004	
5,900.00	5,551.08	5,857.58	5,431.52	34.94	38.52	55.82	1,255.16	1,372.25	381.82	318.10	63.72	5.992	
6,000.00	5,641.56	5,957.24	5,519.82	35.75	39.41	55.99	1,286.59	1,406.10	390.07	324.84	65.23	5.980	
6,100.00	5,732.03	6,056.89	5,608.12	36.55	40.30	56.16	1,318.02	1,439.95	398.32	331.58	66.74	5.968	
6,200.00	5,822.50	6,156.54	5,696.43	37.35	41.19	56.33	1,349.45	1,473.79	406.58	338.32	68.25	5.957	
6,300.00	5,912.97	6,256.19	5,784.73	38.16	42.08	56.48	1,380.88	1,507.64	414.84	345.07	69.77	5.946	
6,400.00	6,003.45	6,355.84	5,873.03	38.96	42.97	56.64	1,412.30	1,541.48	423.10	351.82	71.28	5.936	
6,500.00	6,093.92	6,455.50	5,961.33	39.77	43.86	56.78	1,443.73	1,575.33	431.36	358.57	72.80	5.926	
6,600.00	6,184.39	6,555.15	6,049.63	40.57	44.75	56.92	1,475.16	1,609.18	439.63	365.32	74.32	5.916	
6,700.00	6,274.87	6,654.80	6,137.94	41.38	45.64	57.05	1,506.59	1,643.02	447.90	372.07	75.83	5.906	
6,800.00	6,365.34	6,754.45	6,226.24	42.18	46.54	57.18	1,538.02	1,676.87	456.17	378.82	77.35	5.897	
6,900.00	6,455.81	6,854.10	6,314.54	42.99	47.43	57.31	1,569.45	1,710.71	464.45	385.58	78.87	5.888	
7,000.00	6,546.28	6,953.76	6,402.84	43.80	48.32	57.43	1,600.88	1,744.56	472.73	392.33	80.40	5.880	
7,100.00	6,636.76	7,053.41	6,491.14	44.61	49.21	57.55	1,632.30	1,778.40	481.01	399.09	81.92	5.872	
7,200.00	6,727.23	7,153.06	6,579.44	45.41	50.11	57.66	1,663.73	1,812.25	489.29	405.84	83.44	5.864	
7,300.00	6,817.70	7,252.71	6,667.75	46.22	51.00	57.77	1,695.16	1,846.10	497.57	412.60	84.97	5.856	
7,383.79	6,893.51	7,336.21	6,741.73	46.90	51.75	57.85	1,721.49	1,874.46	504.51	418.26	86.25	5.850	
7,400.00	6,908.25	7,352.37	6,756.05	47.03	51.89	55.63	1,726.59	1,879.94	505.82	419.34	86.48	5.849	
7,450.00	6,954.52	7,402.12	6,800.14	47.40	52.34	46.67	1,742.28	1,896.84	509.45	422.49	86.96	5.859	
7,500.00	7,001.74	7,451.47	6,843.87	47.72	52.78	34.01	1,757.85	1,913.60	512.50	425.41	87.09	5.885	
7,550.00	7,049.55	7,500.03	6,886.90	47.99	53.22	17.56	1,773.16	1,930.10	515.13	428.28	86.86	5.931	
7,600.00	7,097.58	7,547.44	6,928.90	48.21	53.64	-1.08	1,788.11	1,946.20	517.61	431.37	86.24	6.002	
7,650.00	7,145.48	7,593.33	6,969.57	48.37	54.06	-18.92	1,802.59	1,961.78	520.29	435.05	85.24	6.104	
7,700.00	7,192.88	7,637.35	7,008.58	48.48	54.45	-33.84	1,816.47	1,976.74	523.57	439.71	83.86	6.243	
7,750.00	7,239.41	7,679.92	7,046.44	48.54	54.83	-45.55	1,829.43	1,991.25	527.92	445.76	82.16	6.425	
7,800.00	7,284.72	7,723.99	7,086.39	48.56	55.19	-54.66	1,839.95	2,006.55	533.56	453.14	80.42	6.635	
7,850.00	7,328.47	7,770.16	7,128.93	48.54	55.54	-61.88	1,847.42	2,022.83	540.47	461.75	78.73	6.865	
7,900.00	7,370.32	7,818.85	7,174.25	48.47	55.86	-67.79	1,851.29	2,040.16	548.61	471.46	77.14	7.111	
7,950.00	7,409.96	7,870.53	7,222.51	48.37	56.15	-72.77	1,850.88	2,058.59	557.86	482.15	75.71	7.368	
8,000.00	7,447.08	7,925.81	7,273.87	48.24	56.40	-77.09	1,845.29	2,078.20	568.09	493.63	74.46	7.630	
8,050.00	7,481.41	7,985.39	7,328.39	48.07	56.60	-80.92	1,833.37	2,098.99	579.08	505.72	73.36	7.893	
8,100.00	7,512.67	8,050.12	7,385.96	47.87	56.74	-84.39	1,813.64	2,120.92	590.57	518.15	72.42	8.155	
8,150.00	7,540.64	8,120.93	7,446.13	47.65	56.79	-87.57	1,784.25	2,143.81	602.23	530.63	71.59	8.412	
8,200.00	7,565.09	8,198.81	7,507.85	47.40	56.77	-90.48	1,743.04	2,167.25	613.62	542.71	70.91	8.653	
8,250.00	7,585.85	8,284.66	7,569.14	47.14	56.62	-93.11	1,687.73	2,190.48	624.27	553.82	70.44	8.862	
8,300.00	7,602.75	8,378.98	7,626.76	46.86	56.35	-95.39	1,616.44	2,212.25	633.59	563.21	70.38	9.003	
8,350.00	7,615.67	8,481.51	7,676.11	46.58	55.95	-97.21	1,528.66	2,230.81	640.98	570.00	70.98	9.030	
8,400.00	7,624.51	8,590.85	7,711.77	46.28	55.44	-98.41	1,426.33	2,244.08	645.88	573.40	72.49	8.910	
8,450.00	7,629.19	8,704.24	7,728.91	45.98	54.85	-98.89	1,314.60	2,250.25	647.87	572.96	74.91	8.648	
8,481.00	7,630.00	8,755.81	7,730.00	45.79	54.57	-98.88	1,263.05	2,250.49	647.77	572.11	75.66	8.561	
8,500.00	7,630.00	8,774.81	7,730.00	45.68	54.46	-98.88	1,244.06	2,250.43	647.77	572.33	75.44	8.587	
8,600.00	7,630.00	8,874.81	7,730.00	45.11	53.95	-98.88	1,144.06	2,250.09	647.77	573.42	74.35	8.713	
8,700.00	7,630.00	8,974.81	7,730.00	44.56	53.45	-98.88	1,044.06	2,249.75	647.76	574.36	73.40	8.825	
8,800.00	7,630.00	9,074.81	7,730.00	44.05	52.99	-98.88	944.06	2,249.41	647.76	575.15	72.61	8.921	
8,900.00	7,630.00	9,174.81	7,730.00	43.57	52.55	-98.88	844.06	2,249.07	647.76	575.77	71.99	8.998	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,000.00	7,630.00	9,274.81	7,730.00	43.12	52.13	-98.88	744.06	2,248.73	647.76	576.23	71.53	9.056	
9,100.00	7,630.00	9,374.81	7,730.00	42.70	51.74	-98.88	644.06	2,248.38	647.75	576.52	71.24	9.093	
9,200.00	7,630.00	9,474.81	7,730.00	42.31	51.38	-98.88	544.06	2,248.04	647.75	576.63	71.12	9.108	
9,300.00	7,630.00	9,574.81	7,730.00	41.94	51.03	-98.88	444.06	2,247.70	647.75	576.58	71.17	9.101	
9,400.00	7,630.00	9,674.81	7,730.00	41.59	50.72	-98.88	344.06	2,247.36	647.75	576.35	71.39	9.073	
9,500.00	7,630.00	9,774.81	7,730.00	41.26	50.42	-98.88	244.06	2,247.02	647.74	575.95	71.79	9.023	
9,600.00	7,630.00	9,874.81	7,730.00	40.96	50.15	-98.88	144.06	2,246.68	647.74	575.39	72.35	8.953	
9,700.00	7,630.00	9,974.81	7,730.00	40.68	49.91	-98.88	44.06	2,246.34	647.74	574.66	73.08	8.864	
9,800.00	7,630.00	10,074.81	7,730.00	40.42	49.70	-98.88	-55.94	2,246.00	647.73	573.77	73.96	8.758	
9,900.00	7,630.00	10,174.81	7,730.00	40.17	49.52	-98.88	-155.94	2,245.66	647.73	572.74	75.00	8.637	
10,000.00	7,630.00	10,274.81	7,730.00	39.96	49.38	-98.88	-255.94	2,245.32	647.73	571.55	76.18	8.503	
10,100.00	7,630.00	10,374.81	7,730.00	40.05	49.28	-98.88	-355.94	2,244.98	647.73	570.22	77.50	8.357	
10,200.00	7,630.00	10,474.81	7,730.00	40.95	49.25	-98.88	-455.93	2,244.63	647.72	568.76	78.96	8.203	
10,300.00	7,630.00	10,574.81	7,730.00	41.94	49.29	-98.88	-555.93	2,244.29	647.72	567.18	80.54	8.042	
10,400.00	7,630.00	10,674.81	7,730.00	42.98	49.44	-98.88	-655.93	2,243.95	647.72	565.47	82.24	7.876	
10,500.00	7,630.00	10,774.81	7,730.00	44.06	49.73	-98.88	-755.93	2,243.61	647.72	563.66	84.06	7.706	
10,600.00	7,630.00	10,874.81	7,730.00	45.17	50.17	-98.88	-855.93	2,243.27	647.71	561.74	85.97	7.534	
10,700.00	7,630.00	10,974.81	7,730.00	46.32	50.78	-98.88	-955.93	2,242.93	647.71	559.72	87.99	7.361	
10,800.00	7,630.00	11,074.81	7,730.00	47.50	51.54	-98.88	-1,055.93	2,242.59	647.71	557.61	90.09	7.189	
10,900.00	7,630.00	11,174.81	7,730.00	48.70	52.42	-98.88	-1,155.93	2,242.25	647.70	555.42	92.28	7.019	
11,000.00	7,630.00	11,274.81	7,730.00	49.94	53.41	-98.88	-1,255.93	2,241.91	647.70	553.15	94.55	6.850	
11,100.00	7,630.00	11,374.81	7,730.00	51.20	54.47	-98.88	-1,355.93	2,241.57	647.70	550.80	96.89	6.685	
11,200.00	7,630.00	11,474.81	7,730.00	52.48	55.60	-98.88	-1,455.93	2,241.23	647.70	548.39	99.31	6.522	
11,300.00	7,630.00	11,574.81	7,730.00	53.79	56.77	-98.88	-1,555.93	2,240.89	647.69	545.91	101.78	6.364	
11,400.00	7,630.00	11,674.81	7,730.00	55.12	57.98	-98.88	-1,655.93	2,240.54	647.69	543.38	104.31	6.209	
11,500.00	7,630.00	11,774.81	7,730.00	56.46	59.23	-98.88	-1,755.93	2,240.20	647.69	540.79	106.90	6.059	
11,600.00	7,630.00	11,874.81	7,730.00	57.83	60.51	-98.88	-1,855.93	2,239.86	647.68	538.15	109.54	5.913	
11,700.00	7,630.00	11,974.81	7,730.00	59.22	61.82	-98.88	-1,955.93	2,239.52	647.68	535.46	112.22	5.771	
11,800.00	7,630.00	12,074.81	7,730.00	60.62	63.15	-98.88	-2,055.93	2,239.18	647.68	532.73	114.95	5.634	
11,900.00	7,630.00	12,174.81	7,730.00	62.04	64.50	-98.88	-2,155.92	2,238.84	647.68	529.96	117.72	5.502	
12,000.00	7,630.00	12,274.81	7,730.00	63.48	65.88	-98.88	-2,255.92	2,238.50	647.67	527.15	120.53	5.374	
12,100.00	7,630.00	12,374.81	7,730.00	64.93	67.27	-98.88	-2,355.92	2,238.16	647.67	524.30	123.37	5.250	
12,200.00	7,630.00	12,474.81	7,730.00	66.39	68.67	-98.88	-2,455.92	2,237.82	647.67	521.42	126.25	5.130	
12,300.00	7,630.00	12,574.81	7,730.00	67.86	70.09	-98.88	-2,555.92	2,237.48	647.67	518.51	129.15	5.015	
12,400.00	7,630.00	12,674.81	7,730.00	69.35	71.53	-98.88	-2,655.92	2,237.14	647.66	515.57	132.09	4.903	
12,500.00	7,630.00	12,774.81	7,730.00	70.85	72.98	-98.88	-2,755.92	2,236.79	647.66	512.61	135.05	4.796	
12,600.00	7,630.00	12,874.81	7,730.00	72.36	74.44	-98.88	-2,855.92	2,236.45	647.66	509.62	138.04	4.692	
12,700.00	7,630.00	12,974.81	7,730.00	73.88	75.92	-98.88	-2,955.92	2,236.11	647.65	506.60	141.05	4.592	
12,800.00	7,630.00	13,074.81	7,730.00	75.41	77.41	-98.88	-3,055.92	2,235.77	647.65	503.57	144.08	4.495	
12,900.00	7,630.00	13,174.81	7,730.00	76.95	78.90	-98.88	-3,155.92	2,235.43	647.65	500.51	147.14	4.402	
13,000.00	7,630.00	13,274.81	7,730.00	78.49	80.41	-98.88	-3,255.92	2,235.09	647.65	497.43	150.21	4.312	
13,100.00	7,630.00	13,374.81	7,730.00	80.05	81.93	-98.88	-3,355.92	2,234.75	647.64	494.34	153.30	4.225	
13,200.00	7,630.00	13,474.81	7,730.00	81.61	83.45	-98.88	-3,455.92	2,234.41	647.64	491.23	156.41	4.141	
13,300.00	7,630.00	13,574.81	7,730.00	83.18	84.98	-98.88	-3,555.92	2,234.07	647.64	488.10	159.54	4.059	
13,400.00	7,630.00	13,674.81	7,730.00	84.76	86.53	-98.88	-3,655.92	2,233.73	647.64	484.96	162.68	3.981	
13,500.00	7,630.00	13,774.81	7,730.00	86.34	88.08	-98.88	-3,755.92	2,233.39	647.63	481.80	165.83	3.905	
13,600.00	7,630.00	13,874.81	7,730.00	87.94	89.63	-98.88	-3,855.91	2,233.05	647.63	478.63	169.00	3.832	
13,700.00	7,630.00	13,974.81	7,730.00	89.53	91.20	-98.88	-3,955.91	2,232.70	647.63	475.44	172.18	3.761	
13,800.00	7,630.00	14,074.81	7,730.00	91.13	92.77	-98.88	-4,055.91	2,232.36	647.62	472.25	175.38	3.693	
13,900.00	7,630.00	14,174.81	7,730.00	92.74	94.34	-98.88	-4,155.91	2,232.02	647.62	469.04	178.58	3.626	
14,000.00	7,630.00	14,274.81	7,730.00	94.35	95.93	-98.88	-4,255.91	2,231.68	647.62	465.82	181.80	3.562	
14,100.00	7,630.00	14,374.81	7,730.00	95.97	97.51	-98.88	-4,355.91	2,231.34	647.62	462.59	185.03	3.500	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,200.00	7,630.00	14,474.81	7,730.00	97.60	99.11	-98.88	-4,455.91	2,231.00	647.61	459.35	188.26	3.440	
14,300.00	7,630.00	14,574.81	7,730.00	99.22	100.71	-98.88	-4,555.91	2,230.66	647.61	456.10	191.51	3.382	
14,400.00	7,630.00	14,674.81	7,730.00	100.85	102.31	-98.88	-4,655.91	2,230.32	647.61	452.85	194.76	3.325	
14,500.00	7,630.00	14,774.81	7,730.00	102.49	103.92	-98.88	-4,755.91	2,229.98	647.61	449.58	198.02	3.270	
14,600.00	7,630.00	14,874.81	7,730.00	104.13	105.53	-98.88	-4,855.91	2,229.64	647.60	446.31	201.29	3.217	
14,700.00	7,630.00	14,974.81	7,730.00	105.77	107.15	-98.88	-4,955.91	2,229.30	647.60	443.03	204.57	3.166	
14,800.00	7,630.00	15,074.81	7,730.00	107.42	108.77	-98.88	-5,055.91	2,228.96	647.60	439.74	207.86	3.116	
14,900.00	7,630.00	15,174.81	7,730.00	109.07	110.40	-98.88	-5,155.91	2,228.61	647.59	436.45	211.15	3.067	
15,000.00	7,630.00	15,274.81	7,730.00	110.72	112.03	-98.88	-5,255.91	2,228.27	647.59	433.14	214.45	3.020	
15,100.00	7,630.00	15,374.81	7,730.00	112.38	113.67	-98.88	-5,355.91	2,227.93	647.59	429.84	217.75	2.974	
15,200.00	7,630.00	15,474.81	7,730.00	114.04	115.30	-98.88	-5,455.91	2,227.59	647.59	426.52	221.06	2.929	
15,300.00	7,630.00	15,574.81	7,730.00	115.71	116.94	-98.88	-5,555.91	2,227.25	647.58	423.20	224.38	2.886	
15,400.00	7,630.00	15,674.81	7,730.00	117.37	118.59	-98.88	-5,655.90	2,226.91	647.58	419.88	227.70	2.844	
15,500.00	7,630.00	15,774.81	7,730.00	119.04	120.24	-98.88	-5,755.90	2,226.57	647.58	416.55	231.03	2.803	
15,600.00	7,630.00	15,874.81	7,730.00	120.71	121.89	-98.88	-5,855.90	2,226.23	647.58	413.21	234.36	2.763	
15,700.00	7,630.00	15,974.81	7,730.00	122.39	123.54	-98.88	-5,955.90	2,225.89	647.57	409.87	237.70	2.724	
15,800.00	7,630.00	16,074.81	7,730.00	124.06	125.20	-98.88	-6,055.90	2,225.55	647.57	406.53	241.04	2.687	
15,900.00	7,630.00	16,174.81	7,730.00	125.74	126.85	-98.88	-6,155.90	2,225.21	647.57	403.18	244.39	2.650	
16,000.00	7,630.00	16,274.81	7,730.00	127.42	128.52	-98.88	-6,255.90	2,224.86	647.56	399.82	247.74	2.614	
16,100.00	7,630.00	16,374.81	7,730.00	129.10	130.18	-98.88	-6,355.90	2,224.52	647.56	396.47	251.10	2.579	
16,200.00	7,630.00	16,474.81	7,730.00	130.79	131.85	-98.88	-6,455.90	2,224.18	647.56	393.10	254.45	2.545	
16,300.00	7,630.00	16,574.81	7,730.00	132.48	133.52	-98.88	-6,555.90	2,223.84	647.56	389.74	257.82	2.512	
16,400.00	7,630.00	16,674.81	7,730.00	134.17	135.19	-98.88	-6,655.90	2,223.50	647.55	386.37	261.18	2.479	
16,500.00	7,630.00	16,774.81	7,730.00	135.86	136.86	-98.88	-6,755.90	2,223.16	647.55	383.00	264.55	2.448	
16,600.00	7,630.00	16,874.81	7,730.00	137.55	138.54	-98.88	-6,855.90	2,222.82	647.55	379.62	267.93	2.417	
16,700.00	7,630.00	16,974.81	7,730.00	139.24	140.22	-98.88	-6,955.90	2,222.48	647.55	376.24	271.30	2.387	
16,800.00	7,630.00	17,074.81	7,730.00	140.94	141.90	-98.88	-7,055.90	2,222.14	647.54	372.86	274.68	2.357	
16,900.00	7,630.00	17,174.81	7,730.00	142.64	143.58	-98.88	-7,155.90	2,221.80	647.54	369.48	278.06	2.329	
17,000.00	7,630.00	17,274.81	7,730.00	144.34	145.26	-98.88	-7,255.90	2,221.46	647.54	366.09	281.45	2.301	
17,100.00	7,630.00	17,374.81	7,730.00	146.04	146.95	-98.88	-7,355.89	2,221.12	647.53	362.70	284.84	2.273	
17,200.00	7,630.00	17,474.81	7,730.00	147.74	148.63	-98.88	-7,455.89	2,220.77	647.53	359.30	288.23	2.247	
17,300.00	7,630.00	17,574.81	7,730.00	149.44	150.32	-98.88	-7,555.89	2,220.43	647.53	355.91	291.62	2.220	
17,400.00	7,630.00	17,674.81	7,730.00	151.15	152.01	-98.88	-7,655.89	2,220.09	647.53	352.51	295.02	2.195	
17,500.00	7,630.00	17,774.81	7,730.00	152.86	153.71	-98.88	-7,755.89	2,219.75	647.52	349.11	298.41	2.170	
17,600.00	7,630.00	17,874.81	7,730.00	154.56	155.40	-98.88	-7,855.89	2,219.41	647.52	345.71	301.81	2.145	
17,700.00	7,630.00	17,974.81	7,730.00	156.27	157.09	-98.88	-7,955.89	2,219.07	647.52	342.30	305.22	2.121	
17,800.00	7,630.00	18,074.81	7,730.00	157.98	158.79	-98.88	-8,055.89	2,218.73	647.52	338.89	308.62	2.098	
17,900.00	7,630.00	18,174.81	7,730.00	159.70	160.49	-98.88	-8,155.89	2,218.39	647.51	335.48	312.03	2.075	
18,000.00	7,630.00	18,274.81	7,730.00	161.41	162.19	-98.88	-8,255.89	2,218.05	647.51	332.07	315.44	2.053	
18,100.00	7,630.00	18,374.81	7,730.00	163.12	163.89	-98.88	-8,355.89	2,217.71	647.51	328.66	318.85	2.031	
18,154.00	7,630.00	18,428.81	7,730.00	164.05	164.81	-98.88	-8,409.89	2,217.52	647.51	326.81	320.69	2.019	SF

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	90.69	-0.36	30.24	30.24				
100.00	100.00	100.00	100.00	0.13	0.13	90.69	-0.36	30.24	30.24	29.97	0.27	112.487	
200.00	200.00	200.00	200.00	0.49	0.49	90.69	-0.36	30.24	30.24	29.26	0.99	30.678	
300.00	300.00	300.00	300.00	0.85	0.85	90.69	-0.36	30.24	30.24	28.54	1.70	17.761	
400.00	400.00	400.00	400.00	1.21	1.21	90.69	-0.36	30.24	30.24	27.82	2.42	12.499	
500.00	500.00	500.00	500.00	1.57	1.57	90.69	-0.36	30.24	30.24	27.11	3.14	9.642	
600.00	600.00	600.00	600.00	1.93	1.93	90.69	-0.36	30.24	30.24	26.39	3.85	7.848	
700.00	700.00	700.00	700.00	2.29	2.29	90.69	-0.36	30.24	30.24	25.67	4.57	6.617	
800.00	800.00	800.00	800.00	2.64	2.64	90.69	-0.36	30.24	30.24	24.96	5.29	5.720	
900.00	900.00	900.00	900.00	3.00	3.00	90.69	-0.36	30.24	30.24	24.24	6.00	5.037	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	90.69	-0.36	30.24	30.24	23.52	6.72	4.499	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	90.69	-0.36	30.24	30.24	22.80	7.44	4.066	CC, ES
1,200.00	1,200.00	1,199.15	1,199.13	4.08	4.07	88.70	0.71	31.57	31.59	23.45	8.15	3.878	
1,300.00	1,300.00	1,298.07	1,297.91	4.44	4.42	83.68	3.94	35.56	35.84	27.00	8.85	4.052	
1,400.00	1,400.00	1,396.52	1,395.99	4.79	4.78	77.60	9.27	42.17	43.36	33.83	9.53	4.548	
1,500.00	1,499.98	1,494.47	1,493.23	5.15	5.13	35.14	16.68	51.33	52.97	42.77	10.21	5.191	
1,600.00	1,599.84	1,592.08	1,589.66	5.51	5.50	32.57	26.13	63.03	63.09	52.23	10.86	5.808	
1,700.00	1,699.45	1,689.32	1,685.17	5.87	5.88	31.28	37.59	77.23	73.55	62.03	11.51	6.388	
1,800.00	1,798.70	1,786.21	1,779.66	6.23	6.29	30.79	51.03	93.87	84.25	72.10	12.16	6.931	
1,900.00	1,897.47	1,882.73	1,873.03	6.60	6.71	30.84	66.41	112.91	95.17	82.38	12.80	7.438	
2,000.00	1,995.62	1,978.89	1,965.17	6.99	7.17	31.25	83.69	134.30	106.30	92.86	13.44	7.911	
2,100.00	2,093.06	2,074.69	2,056.00	7.39	7.66	31.92	102.83	157.98	117.64	103.55	14.09	8.352	
2,200.00	2,189.64	2,170.13	2,145.42	7.82	8.19	32.76	123.78	183.92	129.19	114.44	14.75	8.760	
2,300.00	2,285.27	2,265.21	2,233.35	8.28	8.76	33.73	146.50	212.05	140.97	125.54	15.43	9.135	
2,400.00	2,379.82	2,359.93	2,319.70	8.77	9.37	34.79	170.95	242.31	152.99	136.84	16.15	9.474	
2,500.00	2,473.17	2,454.29	2,404.41	9.31	10.03	35.91	197.07	274.65	165.26	148.36	16.91	9.774	
2,600.00	2,565.21	2,548.30	2,487.39	9.88	10.73	37.07	224.83	309.01	177.80	160.08	17.72	10.034	
2,660.67	2,620.37	2,605.95	2,537.56	10.25	11.19	37.81	242.67	331.10	185.51	167.25	18.27	10.155	
2,700.00	2,655.96	2,644.93	2,571.38	10.50	11.51	38.38	254.86	346.18	190.41	171.72	18.69	10.186	
2,800.00	2,746.43	2,744.04	2,657.35	11.15	12.34	39.70	285.84	384.54	202.94	183.13	19.81	10.245	
2,900.00	2,836.90	2,843.15	2,743.33	11.82	13.18	40.87	316.83	422.89	215.56	194.59	20.96	10.282	
3,000.00	2,927.37	2,942.26	2,829.30	12.50	14.04	41.91	347.81	461.25	228.26	206.10	22.16	10.301	
3,100.00	3,017.85	3,041.37	2,915.28	13.21	14.92	42.84	378.79	499.60	241.02	217.64	23.38	10.307	
3,200.00	3,108.32	3,140.48	3,001.25	13.92	15.81	43.67	409.78	537.96	253.84	229.20	24.64	10.302	
3,300.00	3,198.79	3,239.59	3,087.23	14.64	16.70	44.43	440.76	576.31	266.71	240.79	25.92	10.290	
3,400.00	3,289.27	3,338.70	3,173.20	15.38	17.61	45.12	471.75	614.67	279.62	252.40	27.22	10.273	
3,500.00	3,379.74	3,437.81	3,259.18	16.12	18.52	45.74	502.73	653.02	292.57	264.03	28.54	10.251	
3,600.00	3,470.21	3,536.92	3,345.15	16.87	19.44	46.31	533.71	691.38	305.55	275.67	29.88	10.226	
3,700.00	3,560.68	3,636.03	3,431.13	17.62	20.36	46.84	564.70	729.73	318.56	287.32	31.23	10.200	
3,800.00	3,651.16	3,735.14	3,517.10	18.39	21.29	47.32	595.68	768.09	331.59	298.99	32.60	10.172	
3,900.00	3,741.63	3,834.25	3,603.08	19.15	22.22	47.77	626.66	806.44	344.64	310.66	33.98	10.143	
4,000.00	3,832.10	3,933.36	3,689.05	19.92	23.15	48.19	657.65	844.80	357.71	322.34	35.37	10.115	
4,100.00	3,922.57	4,032.47	3,775.03	20.69	24.09	48.57	688.63	883.15	370.80	334.03	36.76	10.086	
4,200.00	4,013.05	4,131.58	3,861.00	21.47	25.03	48.93	719.61	921.51	383.90	345.73	38.17	10.057	
4,300.00	4,103.52	4,230.69	3,946.98	22.25	25.97	49.27	750.60	959.86	397.02	357.43	39.59	10.029	
4,400.00	4,193.99	4,329.80	4,032.95	23.03	26.92	49.58	781.58	998.22	410.15	369.14	41.01	10.002	
4,500.00	4,284.47	4,428.91	4,118.93	23.81	27.87	49.88	812.57	1,036.57	423.29	380.86	42.44	9.975	
4,600.00	4,374.94	4,528.02	4,204.90	24.60	28.81	50.16	843.55	1,074.92	436.44	392.58	43.87	9.949	
4,700.00	4,465.41	4,627.13	4,290.88	25.39	29.76	50.42	874.53	1,113.28	449.61	404.30	45.31	9.923	
4,800.00	4,555.88	4,726.24	4,376.85	26.18	30.72	50.66	905.52	1,151.63	462.78	416.03	46.75	9.899	
4,900.00	4,646.36	4,825.35	4,462.83	26.97	31.67	50.90	936.50	1,189.99	475.95	427.76	48.20	9.875	
5,000.00	4,736.83	4,924.46	4,548.80	27.76	32.62	51.12	967.48	1,228.34	489.14	439.49	49.65	9.852	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	5,023.57	4,634.78	28.55	33.58	51.32	998.47	1,266.70	502.33	451.23	51.11	9.829	
5,200.00	4,917.77	5,122.68	4,720.75	29.35	34.53	51.52	1,029.45	1,305.05	515.53	462.97	52.56	9.808	
5,300.00	5,008.25	5,221.79	4,806.73	30.15	35.49	51.71	1,060.43	1,343.41	528.74	474.71	54.03	9.787	
5,400.00	5,098.72	5,320.90	4,892.70	30.94	36.45	51.89	1,091.42	1,381.76	541.94	486.45	55.49	9.766	
5,500.00	5,189.19	5,420.01	4,978.68	31.74	37.41	52.06	1,122.40	1,420.12	555.16	498.20	56.96	9.747	
5,600.00	5,279.67	5,519.12	5,064.65	32.54	38.37	52.22	1,153.39	1,458.47	568.38	509.95	58.43	9.728	
5,700.00	5,370.14	5,618.23	5,150.63	33.34	39.33	52.38	1,184.37	1,496.83	581.60	521.70	59.90	9.709	
5,800.00	5,460.61	5,717.34	5,236.60	34.14	40.29	52.52	1,215.35	1,535.18	594.83	533.45	61.38	9.692	
5,900.00	5,551.08	5,816.45	5,322.58	34.94	41.25	52.67	1,246.34	1,573.54	608.06	545.21	62.85	9.675	
6,000.00	5,641.56	5,915.56	5,408.55	35.75	42.21	52.80	1,277.32	1,611.89	621.29	556.96	64.33	9.658	
6,100.00	5,732.03	6,014.67	5,494.53	36.55	43.17	52.93	1,308.30	1,650.25	634.53	568.72	65.81	9.642	
6,200.00	5,822.50	6,113.78	5,580.50	37.35	44.13	53.06	1,339.29	1,688.60	647.77	580.48	67.29	9.626	
6,300.00	5,912.97	6,212.89	5,666.48	38.16	45.10	53.18	1,370.27	1,726.96	661.02	592.24	68.77	9.611	
6,400.00	6,003.45	6,312.00	5,752.45	38.96	46.06	53.29	1,401.25	1,765.31	674.26	604.00	70.26	9.597	
6,500.00	6,093.92	6,411.11	5,838.43	39.77	47.02	53.40	1,432.24	1,803.67	687.51	615.77	71.74	9.583	
6,600.00	6,184.39	6,510.22	5,924.40	40.57	47.99	53.51	1,463.22	1,842.02	700.76	627.53	73.23	9.569	
6,700.00	6,274.87	6,609.33	6,010.38	41.38	48.95	53.61	1,494.21	1,880.38	714.02	639.30	74.72	9.556	
6,800.00	6,365.34	6,708.44	6,096.35	42.18	49.92	53.71	1,525.19	1,918.73	727.27	651.06	76.21	9.543	
6,900.00	6,455.81	6,807.55	6,182.33	42.99	50.88	53.80	1,556.17	1,957.09	740.53	662.83	77.70	9.531	
7,000.00	6,546.28	6,906.66	6,268.30	43.80	51.85	53.89	1,587.16	1,995.44	753.79	674.60	79.19	9.519	
7,100.00	6,636.76	7,005.77	6,354.28	44.61	52.81	53.98	1,618.14	2,033.80	767.05	686.37	80.68	9.507	
7,200.00	6,727.23	7,104.88	6,440.25	45.41	53.78	54.07	1,649.12	2,072.15	780.32	698.14	82.18	9.496	
7,300.00	6,817.70	7,203.99	6,526.22	46.22	54.74	54.15	1,680.11	2,110.50	793.58	709.91	83.67	9.485	
7,383.79	6,893.51	7,287.03	6,598.26	46.90	55.55	54.22	1,706.07	2,142.64	804.70	719.77	84.92	9.476	
7,400.00	6,908.25	7,303.10	6,612.20	47.03	55.71	52.08	1,711.09	2,148.86	806.83	721.68	85.15	9.475	
7,450.00	6,954.52	7,352.59	6,655.13	47.40	56.19	43.53	1,726.56	2,168.01	813.16	727.48	85.68	9.490	
7,500.00	7,001.74	7,401.67	6,697.71	47.72	56.67	31.48	1,741.91	2,187.01	819.13	733.19	85.95	9.530	
7,550.00	7,049.55	7,449.98	6,739.62	47.99	57.14	15.80	1,757.01	2,205.70	824.82	738.88	85.94	9.597	
7,600.00	7,097.58	7,497.15	6,780.53	48.21	57.60	-1.92	1,771.75	2,223.95	830.34	744.68	85.66	9.694	
7,650.00	7,145.48	7,542.80	6,820.14	48.37	58.05	-18.71	1,786.03	2,241.62	835.89	750.78	85.10	9.822	
7,700.00	7,192.88	7,586.61	6,858.14	48.48	58.48	-32.52	1,799.72	2,258.58	841.69	757.40	84.28	9.986	
7,750.00	7,239.41	7,628.23	6,894.25	48.54	58.88	-43.09	1,812.74	2,274.69	848.01	764.79	83.22	10.190	
7,800.00	7,284.72	7,667.35	6,928.18	48.56	59.26	-51.06	1,824.97	2,289.82	855.13	773.20	81.93	10.437	
7,850.00	7,328.47	7,706.28	6,962.08	48.54	59.64	-57.18	1,836.70	2,304.94	863.30	782.80	80.50	10.724	
7,900.00	7,370.32	7,748.30	6,999.33	48.47	60.03	-62.05	1,846.75	2,321.55	872.55	793.43	79.12	11.028	
7,950.00	7,409.96	7,793.01	7,039.60	48.37	60.40	-66.01	1,854.13	2,339.49	882.82	805.00	77.82	11.344	
8,000.00	7,447.08	7,841.15	7,083.41	48.24	60.77	-69.34	1,858.20	2,359.00	894.05	817.41	76.64	11.665	
8,050.00	7,481.41	7,893.71	7,131.42	48.07	61.13	-72.25	1,858.04	2,380.36	906.13	830.51	75.62	11.982	
8,100.00	7,512.67	7,952.08	7,184.46	47.87	61.46	-74.91	1,852.22	2,403.94	918.90	844.13	74.78	12.288	
8,150.00	7,540.64	8,018.15	7,243.50	47.65	61.73	-77.44	1,838.56	2,430.16	932.14	858.03	74.11	12.578	
8,200.00	7,565.09	8,094.52	7,309.43	47.40	61.95	-79.95	1,813.63	2,459.41	945.51	871.88	73.63	12.842	
8,250.00	7,585.85	8,184.65	7,382.53	47.14	62.06	-82.51	1,772.20	2,491.79	958.53	885.17	73.36	13.066	
8,300.00	7,602.75	8,292.70	7,461.02	46.86	62.02	-85.11	1,706.82	2,526.49	970.51	897.08	73.43	13.217	
8,350.00	7,615.67	8,422.36	7,538.40	46.58	61.74	-87.53	1,608.90	2,560.59	980.49	906.37	74.12	13.228	
8,400.00	7,624.51	8,573.86	7,600.71	46.28	61.18	-89.36	1,474.01	2,587.85	987.29	911.36	75.93	13.002	
8,450.00	7,629.19	8,739.81	7,629.43	45.98	60.40	-90.03	1,311.62	2,600.09	989.84	910.80	79.05	12.522	
8,480.97	7,630.00	8,789.49	7,630.00	45.79	60.15	-90.00	1,261.94	2,600.17	989.68	910.32	79.37	12.470	
8,481.00	7,630.00	8,789.53	7,630.00	45.79	60.15	-90.00	1,261.91	2,600.17	989.68	910.32	79.37	12.470	
8,500.00	7,630.00	8,808.53	7,630.00	45.68	60.06	-90.00	1,242.91	2,600.11	989.69	910.53	79.16	12.503	
8,600.00	7,630.00	8,908.53	7,630.00	45.11	59.57	-90.00	1,142.91	2,599.77	989.69	911.55	78.14	12.666	
8,700.00	7,630.00	9,008.53	7,630.00	44.56	59.11	-90.00	1,042.91	2,599.44	989.69	912.41	77.28	12.807	
8,800.00	7,630.00	9,108.53	7,630.00	44.05	58.67	-90.00	942.91	2,599.10	989.69	913.12	76.57	12.926	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	9,208.53	7,630.00	43.57	58.26	-90.00	842.91	2,598.76	989.69	913.68	76.01	13.020	
9,000.00	7,630.00	9,308.53	7,630.00	43.12	57.87	-90.00	742.91	2,598.43	989.69	914.07	75.62	13.087	
9,100.00	7,630.00	9,408.53	7,630.00	42.70	57.51	-90.00	642.91	2,598.09	989.70	914.30	75.39	13.127	
9,200.00	7,630.00	9,508.53	7,630.00	42.31	57.16	-90.00	542.91	2,597.75	989.70	914.37	75.33	13.138	
9,300.00	7,630.00	9,608.53	7,630.00	41.94	56.85	-90.00	442.91	2,597.42	989.70	914.26	75.44	13.120	
9,400.00	7,630.00	9,708.53	7,630.00	41.59	56.55	-90.00	342.91	2,597.08	989.70	914.00	75.70	13.073	
9,500.00	7,630.00	9,808.53	7,630.00	41.26	56.28	-90.00	242.91	2,596.74	989.70	913.57	76.14	12.999	
9,600.00	7,630.00	9,908.53	7,630.00	40.96	56.03	-90.00	142.91	2,596.41	989.70	912.98	76.72	12.900	
9,700.00	7,630.00	10,008.53	7,630.00	40.68	55.80	-90.00	42.92	2,596.07	989.71	912.23	77.48	12.774	
9,800.00	7,630.00	10,108.53	7,630.00	40.42	55.61	-90.00	-57.08	2,595.74	989.71	911.33	78.38	12.627	
9,900.00	7,630.00	10,208.53	7,630.00	40.17	55.44	-90.00	-157.08	2,595.40	989.71	910.28	79.43	12.460	
10,000.00	7,630.00	10,308.53	7,630.00	39.96	55.31	-90.00	-257.08	2,595.06	989.71	909.10	80.61	12.277	
10,100.00	7,630.00	10,408.53	7,630.00	40.05	55.21	-90.00	-357.08	2,594.73	989.71	907.77	81.95	12.078	
10,200.00	7,630.00	10,508.53	7,630.00	40.95	55.15	-90.00	-457.08	2,594.39	989.72	906.32	83.40	11.867	
10,300.00	7,630.00	10,608.53	7,630.00	41.94	55.14	-90.00	-557.08	2,594.05	989.72	904.74	84.98	11.647	
10,400.00	7,630.00	10,708.53	7,630.00	42.98	55.18	-90.00	-657.08	2,593.72	989.72	903.05	86.67	11.420	
10,500.00	7,630.00	10,808.53	7,630.00	44.06	55.30	-90.00	-757.08	2,593.38	989.72	901.26	88.46	11.188	
10,600.00	7,630.00	10,908.53	7,630.00	45.17	55.49	-90.00	-857.08	2,593.05	989.72	899.35	90.37	10.952	
10,700.00	7,630.00	11,008.53	7,630.00	46.32	55.77	-90.00	-957.08	2,592.71	989.72	897.35	92.37	10.715	
10,800.00	7,630.00	11,108.53	7,630.00	47.50	56.15	-90.00	-1,057.08	2,592.37	989.73	895.26	94.46	10.478	
10,900.00	7,630.00	11,208.53	7,630.00	48.70	56.64	-90.00	-1,157.08	2,592.04	989.73	893.09	96.63	10.242	
11,000.00	7,630.00	11,308.53	7,630.00	49.94	57.25	-90.00	-1,257.08	2,591.70	989.73	890.85	98.88	10.009	
11,100.00	7,630.00	11,408.53	7,630.00	51.20	57.97	-90.00	-1,357.08	2,591.36	989.73	888.52	101.21	9.779	
11,200.00	7,630.00	11,508.53	7,630.00	52.48	58.79	-90.00	-1,457.08	2,591.03	989.73	886.13	103.60	9.553	
11,300.00	7,630.00	11,608.53	7,630.00	53.79	59.71	-90.00	-1,557.08	2,590.69	989.73	883.67	106.06	9.332	
11,400.00	7,630.00	11,708.53	7,630.00	55.12	60.70	-90.00	-1,657.08	2,590.35	989.74	881.16	108.58	9.115	
11,500.00	7,630.00	11,808.53	7,630.00	56.46	61.76	-90.00	-1,757.07	2,590.02	989.74	878.59	111.15	8.905	
11,600.00	7,630.00	11,908.53	7,630.00	57.83	62.88	-90.00	-1,857.07	2,589.68	989.74	875.97	113.77	8.699	
11,700.00	7,630.00	12,008.53	7,630.00	59.22	64.05	-90.00	-1,957.07	2,589.35	989.74	873.30	116.45	8.500	
11,800.00	7,630.00	12,108.53	7,630.00	60.62	65.26	-90.00	-2,057.07	2,589.01	989.74	870.58	119.16	8.306	
11,900.00	7,630.00	12,208.53	7,630.00	62.04	66.51	-90.00	-2,157.07	2,588.67	989.75	867.83	121.92	8.118	
12,000.00	7,630.00	12,308.53	7,630.00	63.48	67.79	-90.00	-2,257.07	2,588.34	989.75	865.03	124.72	7.936	
12,100.00	7,630.00	12,408.53	7,630.00	64.93	69.10	-90.00	-2,357.07	2,588.00	989.75	862.20	127.55	7.760	
12,200.00	7,630.00	12,508.53	7,630.00	66.39	70.44	-90.00	-2,457.07	2,587.66	989.75	859.33	130.42	7.589	
12,300.00	7,630.00	12,608.53	7,630.00	67.86	71.80	-90.00	-2,557.07	2,587.33	989.75	856.43	133.32	7.424	
12,400.00	7,630.00	12,708.53	7,630.00	69.35	73.18	-90.00	-2,657.07	2,586.99	989.75	853.50	136.25	7.264	
12,500.00	7,630.00	12,808.53	7,630.00	70.85	74.57	-90.00	-2,757.07	2,586.66	989.76	850.55	139.21	7.110	
12,600.00	7,630.00	12,908.53	7,630.00	72.36	75.99	-90.00	-2,857.07	2,586.32	989.76	847.56	142.20	6.961	
12,700.00	7,630.00	13,008.53	7,630.00	73.88	77.42	-90.00	-2,957.07	2,585.98	989.76	844.55	145.20	6.816	
12,800.00	7,630.00	13,108.53	7,630.00	75.41	78.86	-90.00	-3,057.07	2,585.65	989.76	841.52	148.24	6.677	
12,900.00	7,630.00	13,208.53	7,630.00	76.95	80.32	-90.00	-3,157.07	2,585.31	989.76	838.47	151.29	6.542	
13,000.00	7,630.00	13,308.53	7,630.00	78.49	81.79	-90.00	-3,257.07	2,584.97	989.76	835.40	154.37	6.412	
13,100.00	7,630.00	13,408.53	7,630.00	80.05	83.27	-90.00	-3,357.07	2,584.64	989.77	832.31	157.46	6.286	
13,200.00	7,630.00	13,508.53	7,630.00	81.61	84.76	-90.00	-3,457.07	2,584.30	989.77	829.20	160.57	6.164	
13,300.00	7,630.00	13,608.53	7,630.00	83.18	86.27	-90.00	-3,557.06	2,583.96	989.77	826.07	163.70	6.046	
13,400.00	7,630.00	13,708.53	7,630.00	84.76	87.78	-90.00	-3,657.06	2,583.63	989.77	822.92	166.85	5.932	
13,500.00	7,630.00	13,808.53	7,630.00	86.34	89.30	-90.00	-3,757.06	2,583.29	989.77	819.76	170.01	5.822	
13,600.00	7,630.00	13,908.53	7,630.00	87.94	90.83	-90.00	-3,857.06	2,582.96	989.78	816.59	173.18	5.715	
13,700.00	7,630.00	14,008.53	7,630.00	89.53	92.37	-90.00	-3,957.06	2,582.62	989.78	813.40	176.37	5.612	
13,800.00	7,630.00	14,108.53	7,630.00	91.13	93.91	-90.00	-4,057.06	2,582.28	989.78	810.20	179.57	5.512	
13,900.00	7,630.00	14,208.53	7,630.00	92.74	95.47	-90.00	-4,157.06	2,581.95	989.78	806.99	182.79	5.415	
14,000.00	7,630.00	14,308.53	7,630.00	94.35	97.03	-90.00	-4,257.06	2,581.61	989.78	803.77	186.01	5.321	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	14,408.53	7,630.00	95.97	98.59	-90.00	-4,357.06	2,581.27	989.78	800.53	189.25	5.230	
14,200.00	7,630.00	14,508.53	7,630.00	97.60	100.17	-90.00	-4,457.06	2,580.94	989.79	797.29	192.50	5.142	
14,300.00	7,630.00	14,608.53	7,630.00	99.22	101.75	-90.00	-4,557.06	2,580.60	989.79	794.03	195.76	5.056	
14,400.00	7,630.00	14,708.53	7,630.00	100.85	103.33	-90.00	-4,657.06	2,580.26	989.79	790.77	199.02	4.973	
14,500.00	7,630.00	14,808.53	7,630.00	102.49	104.92	-90.00	-4,757.06	2,579.93	989.79	787.49	202.30	4.893	
14,600.00	7,630.00	14,908.53	7,630.00	104.13	106.52	-90.00	-4,857.06	2,579.59	989.79	784.21	205.58	4.815	
14,700.00	7,630.00	15,008.53	7,630.00	105.77	108.12	-90.00	-4,957.06	2,579.26	989.79	780.92	208.88	4.739	
14,800.00	7,630.00	15,108.53	7,630.00	107.42	109.72	-90.00	-5,057.06	2,578.92	989.80	777.62	212.18	4.665	
14,900.00	7,630.00	15,208.53	7,630.00	109.07	111.33	-90.00	-5,157.06	2,578.58	989.80	774.31	215.48	4.593	
15,000.00	7,630.00	15,308.53	7,630.00	110.72	112.94	-90.00	-5,257.05	2,578.25	989.80	771.00	218.80	4.524	
15,100.00	7,630.00	15,408.53	7,630.00	112.38	114.56	-90.00	-5,357.05	2,577.91	989.80	767.68	222.12	4.456	
15,200.00	7,630.00	15,508.53	7,630.00	114.04	116.19	-90.00	-5,457.05	2,577.57	989.80	764.36	225.45	4.390	
15,300.00	7,630.00	15,608.53	7,630.00	115.71	117.81	-90.00	-5,557.05	2,577.24	989.81	761.02	228.78	4.326	
15,400.00	7,630.00	15,708.53	7,630.00	117.37	119.44	-90.00	-5,657.05	2,576.90	989.81	757.69	232.12	4.264	
15,500.00	7,630.00	15,808.53	7,630.00	119.04	121.07	-90.00	-5,757.05	2,576.57	989.81	754.34	235.47	4.204	
15,600.00	7,630.00	15,908.53	7,630.00	120.71	122.71	-90.00	-5,857.05	2,576.23	989.81	750.99	238.82	4.145	
15,700.00	7,630.00	16,008.53	7,630.00	122.39	124.35	-90.00	-5,957.05	2,575.89	989.81	747.64	242.18	4.087	
15,800.00	7,630.00	16,108.53	7,630.00	124.06	125.99	-90.00	-6,057.05	2,575.56	989.81	744.28	245.54	4.031	
15,900.00	7,630.00	16,208.53	7,630.00	125.74	127.64	-90.00	-6,157.05	2,575.22	989.82	740.91	248.90	3.977	
16,000.00	7,630.00	16,308.53	7,630.00	127.42	129.29	-90.00	-6,257.05	2,574.88	989.82	737.54	252.27	3.924	
16,100.00	7,630.00	16,408.53	7,630.00	129.10	130.94	-90.00	-6,357.05	2,574.55	989.82	734.17	255.65	3.872	
16,200.00	7,630.00	16,508.53	7,630.00	130.79	132.60	-90.00	-6,457.05	2,574.21	989.82	730.79	259.03	3.821	
16,300.00	7,630.00	16,608.53	7,630.00	132.48	134.25	-90.00	-6,557.05	2,573.87	989.82	727.41	262.41	3.772	
16,400.00	7,630.00	16,708.53	7,630.00	134.17	135.91	-90.00	-6,657.05	2,573.54	989.82	724.02	265.80	3.724	
16,500.00	7,630.00	16,808.53	7,630.00	135.86	137.58	-90.00	-6,757.05	2,573.20	989.83	720.64	269.19	3.677	
16,600.00	7,630.00	16,908.53	7,630.00	137.55	139.24	-90.00	-6,857.05	2,572.87	989.83	717.24	272.59	3.631	
16,700.00	7,630.00	17,008.53	7,630.00	139.24	140.91	-90.00	-6,957.05	2,572.53	989.83	713.85	275.99	3.587	
16,800.00	7,630.00	17,108.53	7,630.00	140.94	142.58	-90.00	-7,057.04	2,572.19	989.83	710.45	279.39	3.543	
16,900.00	7,630.00	17,208.53	7,630.00	142.64	144.25	-90.00	-7,157.04	2,571.86	989.83	707.04	282.79	3.500	
17,000.00	7,630.00	17,308.53	7,630.00	144.34	145.92	-90.00	-7,257.04	2,571.52	989.84	703.64	286.20	3.459	
17,100.00	7,630.00	17,408.53	7,630.00	146.04	147.60	-90.00	-7,357.04	2,571.18	989.84	700.23	289.61	3.418	
17,200.00	7,630.00	17,508.53	7,630.00	147.74	149.28	-90.00	-7,457.04	2,570.85	989.84	696.81	293.03	3.378	
17,300.00	7,630.00	17,608.53	7,630.00	149.44	150.96	-90.00	-7,557.04	2,570.51	989.84	693.40	296.44	3.339	
17,400.00	7,630.00	17,708.53	7,630.00	151.15	152.64	-90.00	-7,657.04	2,570.18	989.84	689.98	299.86	3.301	
17,500.00	7,630.00	17,808.53	7,630.00	152.86	154.32	-90.00	-7,757.04	2,569.84	989.84	686.56	303.28	3.264	
17,600.00	7,630.00	17,908.53	7,630.00	154.56	156.00	-90.00	-7,857.04	2,569.50	989.85	683.14	306.71	3.227	
17,700.00	7,630.00	18,008.53	7,630.00	156.27	157.69	-90.00	-7,957.04	2,569.17	989.85	679.71	310.14	3.192	
17,800.00	7,630.00	18,108.53	7,630.00	157.98	159.38	-90.00	-8,057.04	2,568.83	989.85	676.28	313.57	3.157	
17,900.00	7,630.00	18,208.53	7,630.00	159.70	161.07	-90.00	-8,157.04	2,568.49	989.85	672.85	317.00	3.123	
18,000.00	7,630.00	18,308.53	7,630.00	161.41	162.76	-90.00	-8,257.04	2,568.16	989.85	669.42	320.43	3.089	
18,100.00	7,630.00	18,408.53	7,630.00	163.12	164.45	-90.00	-8,357.04	2,567.82	989.85	665.99	323.87	3.056	
18,154.00	7,630.00	18,462.53	7,630.00	164.05	165.37	-90.00	-8,411.04	2,567.64	989.86	664.13	325.73	3.039	SF

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	90.52	-0.36	40.32	40.32				
100.00	100.00	100.00	100.00	0.13	0.13	90.52	-0.36	40.32	40.32	40.05	0.27	149.977	
200.00	200.00	200.00	200.00	0.49	0.49	90.52	-0.36	40.32	40.32	39.34	0.99	40.903	
300.00	300.00	300.00	300.00	0.85	0.85	90.52	-0.36	40.32	40.32	38.62	1.70	23.681	
400.00	400.00	400.00	400.00	1.21	1.21	90.52	-0.36	40.32	40.32	37.90	2.42	16.664	
500.00	500.00	500.00	500.00	1.57	1.57	90.52	-0.36	40.32	40.32	37.19	3.14	12.855	
600.00	600.00	600.00	600.00	1.93	1.93	90.52	-0.36	40.32	40.32	36.47	3.85	10.464	
700.00	700.00	700.00	700.00	2.29	2.29	90.52	-0.36	40.32	40.32	35.75	4.57	8.822	
800.00	800.00	800.00	800.00	2.64	2.64	90.52	-0.36	40.32	40.32	35.03	5.29	7.626	
900.00	900.00	900.00	900.00	3.00	3.00	90.52	-0.36	40.32	40.32	34.32	6.00	6.715	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	90.52	-0.36	40.32	40.32	33.60	6.72	5.999	CC, ES
1,100.00	1,100.00	1,098.83	1,098.81	3.72	3.71	89.14	0.62	41.71	41.73	34.30	7.43	5.618	
1,200.00	1,200.00	1,197.43	1,197.28	4.08	4.06	85.55	3.57	45.87	46.08	37.96	8.13	5.671	
1,300.00	1,300.00	1,295.56	1,295.04	4.44	4.41	80.89	8.46	52.74	53.64	44.83	8.81	6.086	
1,400.00	1,400.00	1,393.01	1,391.77	4.79	4.77	76.26	15.22	62.27	64.62	55.13	9.49	6.808	
1,500.00	1,499.98	1,489.80	1,487.42	5.15	5.14	35.00	23.82	74.38	77.69	67.53	10.15	7.652	
1,600.00	1,599.84	1,586.13	1,582.05	5.51	5.52	33.11	34.23	89.04	91.24	80.45	10.80	8.449	
1,700.00	1,699.45	1,681.99	1,675.57	5.87	5.92	32.19	46.41	106.20	105.14	93.70	11.44	9.192	
1,800.00	1,798.70	1,777.38	1,767.87	6.23	6.35	31.90	60.33	125.79	119.30	107.23	12.07	9.883	
1,900.00	1,897.47	1,872.30	1,858.88	6.60	6.80	32.05	75.93	147.77	133.70	121.00	12.70	10.526	
2,000.00	1,995.62	1,966.74	1,948.50	6.99	7.29	32.49	93.18	172.06	148.34	135.00	13.34	11.123	
2,100.00	2,093.06	2,060.71	2,036.64	7.39	7.82	33.15	112.04	198.61	163.20	149.23	13.98	11.676	
2,200.00	2,189.64	2,154.21	2,123.23	7.82	8.38	33.96	132.44	227.35	178.31	163.68	14.64	12.184	
2,300.00	2,285.27	2,247.23	2,208.20	8.28	8.99	34.87	154.36	258.21	193.68	178.37	15.32	12.646	
2,400.00	2,379.82	2,339.79	2,291.48	8.77	9.65	35.85	177.74	291.14	209.32	193.29	16.03	13.059	
2,500.00	2,473.17	2,431.88	2,373.00	9.31	10.35	36.89	202.54	326.06	225.24	208.46	16.79	13.419	
2,600.00	2,565.21	2,523.84	2,452.99	9.88	11.09	37.97	228.80	363.04	241.46	223.86	17.60	13.718	
2,660.67	2,620.37	2,583.65	2,504.59	10.25	11.60	38.76	246.32	387.71	250.85	232.60	18.25	13.748	
2,700.00	2,655.96	2,622.46	2,538.07	10.50	11.94	39.37	257.69	403.71	256.64	237.96	18.68	13.740	
2,800.00	2,746.43	2,721.13	2,623.18	11.15	12.81	40.81	286.58	444.41	271.50	251.68	19.82	13.700	
2,900.00	2,836.90	2,819.80	2,708.30	11.82	13.70	42.10	315.48	485.10	286.51	265.51	21.00	13.643	
3,000.00	2,927.37	2,918.47	2,793.42	12.50	14.60	43.26	344.38	525.80	301.64	279.42	22.22	13.574	
3,100.00	3,017.85	3,017.15	2,878.54	13.21	15.51	44.31	373.27	566.49	316.89	293.41	23.48	13.497	
3,200.00	3,108.32	3,115.82	2,963.65	13.92	16.43	45.26	402.17	607.18	332.23	307.46	24.77	13.414	
3,300.00	3,198.79	3,214.49	3,048.77	14.64	17.36	46.13	431.07	647.88	347.65	321.57	26.08	13.329	
3,400.00	3,289.27	3,313.16	3,133.89	15.38	18.30	46.93	459.96	688.57	363.15	335.73	27.42	13.243	
3,500.00	3,379.74	3,411.83	3,219.01	16.12	19.24	47.66	488.86	729.27	378.71	349.93	28.78	13.158	
3,600.00	3,470.21	3,510.50	3,304.13	16.87	20.19	48.33	517.76	769.96	394.32	364.16	30.16	13.075	
3,700.00	3,560.68	3,609.17	3,389.24	17.62	21.14	48.96	546.66	810.65	409.98	378.43	31.55	12.994	
3,800.00	3,651.16	3,707.85	3,474.36	18.39	22.10	49.53	575.55	851.35	425.69	392.73	32.96	12.915	
3,900.00	3,741.63	3,806.52	3,559.48	19.15	23.06	50.07	604.45	892.04	441.43	407.05	34.38	12.839	
4,000.00	3,832.10	3,905.19	3,644.60	19.92	24.02	50.57	633.35	932.74	457.21	421.40	35.82	12.765	
4,100.00	3,922.57	4,003.86	3,729.71	20.69	24.99	51.03	662.24	973.43	473.03	435.76	37.26	12.695	
4,200.00	4,013.05	4,102.53	3,814.83	21.47	25.95	51.47	691.14	1,014.12	488.87	450.15	38.71	12.628	
4,300.00	4,103.52	4,201.20	3,899.95	22.25	26.92	51.87	720.04	1,054.82	504.73	464.56	40.17	12.564	
4,400.00	4,193.99	4,300.12	3,985.07	23.03	27.90	52.26	748.93	1,095.51	520.62	478.98	41.64	12.502	
4,500.00	4,284.47	4,401.45	4,070.19	23.81	28.90	52.62	777.83	1,136.20	536.53	493.39	43.14	12.437	
4,600.00	4,374.94	4,502.78	4,155.30	24.60	29.90	52.96	806.73	1,176.90	552.46	507.82	44.64	12.376	
4,700.00	4,465.41	4,604.11	4,240.42	25.39	30.90	53.28	835.63	1,217.59	568.41	522.26	46.15	12.318	
4,800.00	4,555.88	4,705.44	4,325.54	26.18	31.90	53.58	864.52	1,258.29	584.37	536.72	47.66	12.262	
4,900.00	4,646.36	4,806.77	4,410.66	26.97	32.91	53.87	893.42	1,298.98	600.35	551.18	49.17	12.209	
5,000.00	4,736.83	4,908.10	4,495.78	27.76	33.92	54.14	922.32	1,339.67	616.35	565.65	50.70	12.158	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	5,009.42	4,580.89	28.55	34.92	54.40	951.21	1,380.37	632.35	580.13	52.22	12.109	
5,200.00	4,917.77	5,089.25	4,666.01	29.35	35.72	54.64	980.11	1,421.06	648.37	594.78	53.59	12.099	
5,300.00	5,008.25	5,187.92	4,751.13	30.15	36.70	54.88	1,009.01	1,461.76	664.40	609.30	55.10	12.058	
5,400.00	5,098.72	5,286.59	4,836.25	30.94	37.68	55.10	1,037.90	1,502.45	680.44	623.82	56.62	12.018	
5,500.00	5,189.19	5,385.26	4,921.36	31.74	38.67	55.31	1,066.80	1,543.14	696.49	638.36	58.14	11.980	
5,600.00	5,279.67	5,483.93	5,006.48	32.54	39.65	55.51	1,095.70	1,583.84	712.55	652.89	59.66	11.944	
5,700.00	5,370.14	5,582.61	5,091.60	33.34	40.64	55.71	1,124.60	1,624.53	728.62	667.44	61.18	11.910	
5,800.00	5,460.61	5,681.28	5,176.72	34.14	41.62	55.89	1,153.49	1,665.23	744.69	681.99	62.70	11.876	
5,900.00	5,551.08	5,779.95	5,261.84	34.94	42.61	56.07	1,182.39	1,705.92	760.77	696.54	64.23	11.844	
6,000.00	5,641.56	5,878.62	5,346.95	35.75	43.59	56.24	1,211.29	1,746.61	776.86	711.10	65.76	11.813	
6,100.00	5,732.03	5,977.29	5,432.07	36.55	44.58	56.40	1,240.18	1,787.31	792.95	725.66	67.29	11.784	
6,200.00	5,822.50	6,075.96	5,517.19	37.35	45.57	56.56	1,269.08	1,828.00	809.05	740.23	68.82	11.755	
6,300.00	5,912.97	6,174.64	5,602.31	38.16	46.55	56.71	1,297.98	1,868.69	825.16	754.80	70.36	11.728	
6,400.00	6,003.45	6,273.31	5,687.42	38.96	47.54	56.86	1,326.88	1,909.39	841.27	769.38	71.89	11.701	
6,500.00	6,093.92	6,371.98	5,772.54	39.77	48.53	57.00	1,355.77	1,950.08	857.39	783.96	73.43	11.676	
6,600.00	6,184.39	6,470.65	5,857.66	40.57	49.52	57.13	1,384.67	1,990.78	873.51	798.54	74.97	11.651	
6,700.00	6,274.87	6,569.32	5,942.78	41.38	50.51	57.26	1,413.57	2,031.47	889.64	813.13	76.51	11.628	
6,800.00	6,365.34	6,667.99	6,027.90	42.18	51.50	57.39	1,442.46	2,072.16	905.77	827.72	78.05	11.605	
6,900.00	6,455.81	6,766.66	6,113.01	42.99	52.49	57.51	1,471.36	2,112.86	921.90	842.31	79.59	11.583	
7,000.00	6,546.28	6,865.34	6,198.13	43.80	53.48	57.62	1,500.26	2,153.55	938.04	856.90	81.14	11.561	
7,100.00	6,636.76	6,964.01	6,283.25	44.61	54.47	57.74	1,529.15	2,194.25	954.18	871.50	82.68	11.540	
7,200.00	6,727.23	7,062.68	6,368.37	45.41	55.46	57.84	1,558.05	2,234.94	970.33	886.10	84.23	11.520	
7,300.00	6,817.70	7,161.35	6,453.49	46.22	56.45	57.95	1,586.95	2,275.63	986.48	900.70	85.77	11.501	
7,383.79	6,893.51	7,244.03	6,524.80	46.90	57.28	58.03	1,611.16	2,309.73	1,000.01	912.94	87.07	11.485	
7,400.00	6,908.25	7,260.03	6,538.61	47.03	57.44	55.95	1,615.85	2,316.33	1,002.60	915.29	87.31	11.483	
7,450.00	6,954.52	7,309.37	6,581.17	47.40	57.93	47.58	1,630.30	2,336.68	1,010.13	922.23	87.90	11.492	
7,500.00	7,001.74	7,358.39	6,623.46	47.72	58.43	35.73	1,644.65	2,356.90	1,016.99	928.73	88.27	11.521	
7,550.00	7,049.55	7,406.72	6,665.15	47.99	58.91	20.27	1,658.81	2,376.83	1,023.22	934.82	88.41	11.574	
7,600.00	7,097.58	7,454.00	6,705.93	48.21	59.39	2.78	1,672.65	2,396.33	1,028.90	940.59	88.31	11.651	
7,650.00	7,145.48	7,500.15	6,745.49	48.37	59.85	-13.79	1,686.08	2,415.24	1,034.16	946.19	87.97	11.755	
7,700.00	7,192.88	7,543.94	6,783.52	48.48	60.29	-27.40	1,698.99	2,433.42	1,039.19	951.79	87.40	11.890	
7,750.00	7,239.41	7,585.92	6,819.73	48.54	60.71	-37.81	1,711.29	2,450.73	1,044.19	957.58	86.61	12.056	
7,800.00	7,284.72	7,625.48	6,853.86	48.56	61.11	-45.67	1,722.87	2,467.05	1,049.40	963.80	85.60	12.259	
7,850.00	7,328.47	7,662.32	6,885.64	48.54	61.48	-51.64	1,733.66	2,482.24	1,055.06	970.67	84.40	12.501	
7,900.00	7,370.32	7,703.85	6,914.82	48.47	61.90	-56.24	1,743.57	2,496.19	1,061.42	978.35	83.07	12.778	
7,950.00	7,409.96	7,726.72	6,941.19	48.37	62.13	-59.77	1,752.52	2,508.80	1,068.72	987.22	81.50	13.114	
8,000.00	7,447.08	7,753.79	6,964.55	48.24	62.40	-62.43	1,760.45	2,519.97	1,077.17	997.30	79.87	13.486	
8,050.00	7,481.41	7,777.17	6,984.71	48.07	62.63	-64.35	1,767.30	2,529.61	1,086.94	1,008.75	78.19	13.901	
8,100.00	7,512.67	7,803.33	7,001.53	47.87	62.90	-65.58	1,773.01	2,537.65	1,098.18	1,021.64	76.54	14.348	
8,150.00	7,540.64	7,812.14	7,014.88	47.65	62.99	-66.18	1,777.54	2,544.03	1,110.95	1,036.10	74.85	14.842	
8,200.00	7,565.09	7,823.47	7,024.65	47.40	63.10	-66.16	1,780.86	2,548.70	1,125.29	1,051.99	73.30	15.352	
8,250.00	7,585.85	7,830.56	7,030.77	47.14	63.17	-65.57	1,782.93	2,551.63	1,141.14	1,069.26	71.88	15.875	
8,300.00	7,602.75	7,833.37	7,033.20	46.86	63.20	-64.43	1,783.76	2,552.79	1,158.41	1,087.78	70.64	16.400	
8,350.00	7,615.67	7,831.88	7,031.91	46.58	63.18	-62.76	1,783.32	2,552.17	1,176.94	1,107.35	69.59	16.913	
8,400.00	7,624.51	7,826.09	7,026.92	46.28	63.13	-60.64	1,781.62	2,549.78	1,196.51	1,127.76	68.74	17.405	
8,450.00	7,629.19	7,816.05	7,018.26	45.98	63.02	-58.10	1,778.68	2,545.64	1,216.86	1,148.76	68.11	17.866	
8,481.00	7,630.00	7,807.72	7,011.07	45.79	62.94	-56.36	1,776.25	2,542.21	1,229.76	1,161.94	67.82	18.134	
8,500.00	7,630.00	7,802.13	7,006.25	45.68	62.88	-56.08	1,774.61	2,539.90	1,237.81	1,170.13	67.67	18.291	
8,600.00	7,630.00	7,772.71	6,980.87	45.11	62.59	-54.66	1,765.99	2,527.77	1,283.59	1,216.23	67.36	19.056	
8,700.00	7,630.00	7,743.28	6,955.48	44.56	62.29	-53.26	1,757.37	2,515.63	1,334.66	1,267.00	67.66	19.727	
8,800.00	7,630.00	9,448.88	7,870.00	44.05	65.04	-100.16	941.72	2,949.05	1,360.97	1,287.12	73.85	18.428	
8,900.00	7,630.00	9,548.88	7,870.00	43.57	64.66	-100.16	841.72	2,948.71	1,360.97	1,287.78	73.19	18.594	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,000.00	7,630.00	9,648.88	7,870.00	43.12	64.30	-100.16	741.72	2,948.38	1,360.97	1,288.28	72.70	18.721	
9,100.00	7,630.00	9,748.88	7,870.00	42.70	63.97	-100.16	641.72	2,948.04	1,360.98	1,288.61	72.36	18.808	
9,200.00	7,630.00	9,848.88	7,870.00	42.31	63.65	-100.16	541.72	2,947.70	1,360.98	1,288.78	72.20	18.851	
9,300.00	7,630.00	9,948.88	7,870.00	41.94	63.36	-100.16	441.72	2,947.36	1,360.98	1,288.77	72.20	18.850	
9,400.00	7,630.00	10,048.88	7,870.00	41.59	63.08	-100.16	341.72	2,947.03	1,360.98	1,288.60	72.37	18.805	
9,500.00	7,630.00	10,148.88	7,870.00	41.26	62.83	-100.16	241.72	2,946.69	1,360.98	1,288.27	72.71	18.717	
9,600.00	7,630.00	10,248.88	7,870.00	40.96	62.61	-100.16	141.72	2,946.35	1,360.98	1,287.76	73.22	18.589	
9,700.00	7,630.00	10,348.88	7,870.00	40.68	62.40	-100.16	41.72	2,946.01	1,360.98	1,287.10	73.88	18.421	
9,800.00	7,630.00	10,448.88	7,870.00	40.42	62.23	-100.16	-58.28	2,945.68	1,360.98	1,286.28	74.70	18.218	
9,900.00	7,630.00	10,548.88	7,870.00	40.17	62.07	-100.16	-158.28	2,945.34	1,360.98	1,285.30	75.68	17.984	
10,000.00	7,630.00	10,648.88	7,870.00	39.96	61.95	-100.16	-258.28	2,945.00	1,360.98	1,284.18	76.80	17.721	
10,100.00	7,630.00	10,748.88	7,870.00	40.05	61.86	-100.16	-358.28	2,944.66	1,360.98	1,282.92	78.06	17.435	
10,200.00	7,630.00	10,848.88	7,870.00	40.95	61.79	-100.16	-458.28	2,944.33	1,360.98	1,281.53	79.45	17.129	
10,300.00	7,630.00	10,948.88	7,870.00	41.94	61.77	-100.16	-558.27	2,943.99	1,360.98	1,280.01	80.97	16.808	
10,400.00	7,630.00	11,048.88	7,870.00	42.98	61.78	-100.16	-658.27	2,943.65	1,360.98	1,278.37	82.61	16.474	
10,500.00	7,630.00	11,148.88	7,870.00	44.06	61.84	-100.16	-758.27	2,943.31	1,360.98	1,276.62	84.37	16.132	
10,600.00	7,630.00	11,248.88	7,870.00	45.17	61.95	-100.16	-858.27	2,942.98	1,360.98	1,274.76	86.22	15.785	
10,700.00	7,630.00	11,348.88	7,870.00	46.32	62.12	-100.16	-958.27	2,942.64	1,360.98	1,272.80	88.18	15.434	
10,800.00	7,630.00	11,448.88	7,870.00	47.50	62.35	-100.16	-1,058.27	2,942.30	1,360.98	1,270.76	90.23	15.084	
10,900.00	7,630.00	11,548.88	7,870.00	48.70	62.65	-100.16	-1,158.27	2,941.96	1,360.98	1,268.62	92.36	14.735	
11,000.00	7,630.00	11,648.88	7,870.00	49.94	63.03	-100.16	-1,258.27	2,941.63	1,360.99	1,266.41	94.58	14.390	
11,100.00	7,630.00	11,748.88	7,870.00	51.20	63.49	-100.16	-1,358.27	2,941.29	1,360.99	1,264.12	96.87	14.050	
11,200.00	7,630.00	11,848.88	7,870.00	52.48	64.03	-100.16	-1,458.27	2,940.95	1,360.99	1,261.76	99.23	13.716	
11,300.00	7,630.00	11,948.88	7,870.00	53.79	64.66	-100.16	-1,558.27	2,940.61	1,360.99	1,259.33	101.65	13.388	
11,400.00	7,630.00	12,048.88	7,870.00	55.12	65.37	-100.16	-1,658.27	2,940.28	1,360.99	1,256.85	104.14	13.069	
11,500.00	7,630.00	12,148.88	7,870.00	56.46	66.17	-100.16	-1,758.27	2,939.94	1,360.99	1,254.31	106.68	12.758	
11,600.00	7,630.00	12,248.88	7,870.00	57.83	67.04	-100.16	-1,858.27	2,939.60	1,360.99	1,251.71	109.27	12.455	
11,700.00	7,630.00	12,348.88	7,870.00	59.22	67.98	-100.16	-1,958.27	2,939.26	1,360.99	1,249.07	111.92	12.161	
11,800.00	7,630.00	12,448.88	7,870.00	60.62	68.99	-100.16	-2,058.27	2,938.93	1,360.99	1,246.38	114.61	11.875	
11,900.00	7,630.00	12,548.88	7,870.00	62.04	70.05	-100.16	-2,158.27	2,938.59	1,360.99	1,243.65	117.34	11.599	
12,000.00	7,630.00	12,648.88	7,870.00	63.48	71.16	-100.16	-2,258.27	2,938.25	1,360.99	1,240.89	120.11	11.332	
12,100.00	7,630.00	12,748.88	7,870.00	64.93	72.32	-100.16	-2,358.26	2,937.91	1,360.99	1,238.08	122.91	11.073	
12,200.00	7,630.00	12,848.88	7,870.00	66.39	73.52	-100.16	-2,458.26	2,937.57	1,360.99	1,235.24	125.75	10.823	
12,300.00	7,630.00	12,948.88	7,870.00	67.86	74.75	-100.16	-2,558.26	2,937.24	1,360.99	1,232.37	128.62	10.581	
12,400.00	7,630.00	13,048.88	7,870.00	69.35	76.01	-100.16	-2,658.26	2,936.90	1,360.99	1,229.47	131.53	10.348	
12,500.00	7,630.00	13,148.88	7,870.00	70.85	77.31	-100.16	-2,758.26	2,936.56	1,360.99	1,226.54	134.46	10.122	
12,600.00	7,630.00	13,248.88	7,870.00	72.36	78.63	-100.16	-2,858.26	2,936.22	1,360.99	1,223.58	137.41	9.904	
12,700.00	7,630.00	13,348.88	7,870.00	73.88	79.97	-100.16	-2,958.26	2,935.89	1,360.99	1,220.60	140.39	9.694	
12,800.00	7,630.00	13,448.88	7,870.00	75.41	81.33	-100.16	-3,058.26	2,935.55	1,360.99	1,217.60	143.40	9.491	
12,900.00	7,630.00	13,548.88	7,870.00	76.95	82.72	-100.16	-3,158.26	2,935.21	1,361.00	1,214.57	146.42	9.295	
13,000.00	7,630.00	13,648.88	7,870.00	78.49	84.12	-100.16	-3,258.26	2,934.87	1,361.00	1,211.53	149.47	9.106	
13,100.00	7,630.00	13,748.88	7,870.00	80.05	85.54	-100.16	-3,358.26	2,934.54	1,361.00	1,208.46	152.53	8.923	
13,200.00	7,630.00	13,848.88	7,870.00	81.61	86.97	-100.16	-3,458.26	2,934.20	1,361.00	1,205.38	155.61	8.746	
13,300.00	7,630.00	13,948.88	7,870.00	83.18	88.42	-100.16	-3,558.26	2,933.86	1,361.00	1,202.28	158.71	8.575	
13,400.00	7,630.00	14,048.88	7,870.00	84.76	89.87	-100.16	-3,658.26	2,933.52	1,361.00	1,199.17	161.83	8.410	
13,500.00	7,630.00	14,148.88	7,870.00	86.34	91.35	-100.16	-3,758.26	2,933.19	1,361.00	1,196.04	164.96	8.251	
13,600.00	7,630.00	14,248.88	7,870.00	87.94	92.83	-100.16	-3,858.26	2,932.85	1,361.00	1,192.90	168.10	8.096	
13,700.00	7,630.00	14,348.88	7,870.00	89.53	94.32	-100.16	-3,958.26	2,932.51	1,361.00	1,189.74	171.26	7.947	
13,800.00	7,630.00	14,448.88	7,870.00	91.13	95.82	-100.16	-4,058.25	2,932.17	1,361.00	1,186.57	174.43	7.802	
13,900.00	7,630.00	14,548.88	7,870.00	92.74	97.34	-100.16	-4,158.25	2,931.84	1,361.00	1,183.39	177.61	7.663	
14,000.00	7,630.00	14,648.88	7,870.00	94.35	98.86	-100.16	-4,258.25	2,931.50	1,361.00	1,180.19	180.81	7.527	
14,100.00	7,630.00	14,748.88	7,870.00	95.97	100.39	-100.16	-4,358.25	2,931.16	1,361.00	1,176.99	184.01	7.396	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,630.00	14,848.88	7,870.00	97.60	101.92	-100.16	-4,458.25	2,930.82	1,361.00	1,173.78	187.23	7.269	
14,300.00	7,630.00	14,948.88	7,870.00	99.22	103.47	-100.16	-4,558.25	2,930.49	1,361.00	1,170.55	190.45	7.146	
14,400.00	7,630.00	15,048.88	7,870.00	100.85	105.02	-100.16	-4,658.25	2,930.15	1,361.00	1,167.32	193.68	7.027	
14,500.00	7,630.00	15,148.88	7,870.00	102.49	106.58	-100.16	-4,758.25	2,929.81	1,361.00	1,164.08	196.93	6.911	
14,600.00	7,630.00	15,248.88	7,870.00	104.13	108.14	-100.16	-4,858.25	2,929.47	1,361.00	1,160.83	200.18	6.799	
14,700.00	7,630.00	15,348.88	7,870.00	105.77	109.72	-100.16	-4,958.25	2,929.14	1,361.00	1,157.57	203.44	6.690	
14,800.00	7,630.00	15,448.88	7,870.00	107.42	111.29	-100.16	-5,058.25	2,928.80	1,361.01	1,154.30	206.70	6.584	
14,900.00	7,630.00	15,548.88	7,870.00	109.07	112.87	-100.16	-5,158.25	2,928.46	1,361.01	1,151.03	209.97	6.482	
15,000.00	7,630.00	15,648.88	7,870.00	110.72	114.46	-100.16	-5,258.25	2,928.12	1,361.01	1,147.75	213.26	6.382	
15,100.00	7,630.00	15,748.88	7,870.00	112.38	116.05	-100.16	-5,358.25	2,927.79	1,361.01	1,144.47	216.54	6.285	
15,200.00	7,630.00	15,848.88	7,870.00	114.04	117.65	-100.16	-5,458.25	2,927.45	1,361.01	1,141.17	219.83	6.191	
15,300.00	7,630.00	15,948.88	7,870.00	115.71	119.25	-100.16	-5,558.25	2,927.11	1,361.01	1,137.87	223.13	6.100	
15,400.00	7,630.00	16,048.88	7,870.00	117.37	120.86	-100.16	-5,658.25	2,926.77	1,361.01	1,134.57	226.44	6.011	
15,500.00	7,630.00	16,148.88	7,870.00	119.04	122.47	-100.16	-5,758.25	2,926.44	1,361.01	1,131.26	229.75	5.924	
15,600.00	7,630.00	16,248.88	7,870.00	120.71	124.09	-100.16	-5,858.24	2,926.10	1,361.01	1,127.95	233.06	5.840	
15,700.00	7,630.00	16,348.88	7,870.00	122.39	125.70	-100.16	-5,958.24	2,925.76	1,361.01	1,124.63	236.38	5.758	
15,800.00	7,630.00	16,448.88	7,870.00	124.06	127.33	-100.16	-6,058.24	2,925.42	1,361.01	1,121.30	239.71	5.678	
15,900.00	7,630.00	16,548.88	7,870.00	125.74	128.95	-100.16	-6,158.24	2,925.09	1,361.01	1,117.97	243.04	5.600	
16,000.00	7,630.00	16,648.88	7,870.00	127.42	130.58	-100.16	-6,258.24	2,924.75	1,361.01	1,114.64	246.37	5.524	
16,100.00	7,630.00	16,748.88	7,870.00	129.10	132.22	-100.16	-6,358.24	2,924.41	1,361.01	1,111.30	249.71	5.450	
16,200.00	7,630.00	16,848.88	7,870.00	130.79	133.85	-100.16	-6,458.24	2,924.07	1,361.01	1,107.96	253.05	5.378	
16,300.00	7,630.00	16,948.88	7,870.00	132.48	135.49	-100.16	-6,558.24	2,923.73	1,361.01	1,104.61	256.40	5.308	
16,400.00	7,630.00	17,048.88	7,870.00	134.17	137.13	-100.16	-6,658.24	2,923.40	1,361.01	1,101.26	259.75	5.240	
16,500.00	7,630.00	17,148.88	7,870.00	135.86	138.78	-100.16	-6,758.24	2,923.06	1,361.01	1,097.91	263.11	5.173	
16,600.00	7,630.00	17,248.88	7,870.00	137.55	140.43	-100.16	-6,858.24	2,922.72	1,361.01	1,094.55	266.46	5.108	
16,700.00	7,630.00	17,348.88	7,870.00	139.24	142.08	-100.16	-6,958.24	2,922.38	1,361.02	1,091.19	269.82	5.044	
16,800.00	7,630.00	17,448.88	7,870.00	140.94	143.73	-100.16	-7,058.24	2,922.05	1,361.02	1,087.83	273.19	4.982	
16,900.00	7,630.00	17,548.88	7,870.00	142.64	145.39	-100.16	-7,158.24	2,921.71	1,361.02	1,084.46	276.55	4.921	
17,000.00	7,630.00	17,648.88	7,870.00	144.34	147.05	-100.16	-7,258.24	2,921.37	1,361.02	1,081.09	279.92	4.862	
17,100.00	7,630.00	17,748.88	7,870.00	146.04	148.71	-100.16	-7,358.24	2,921.03	1,361.02	1,077.72	283.30	4.804	
17,200.00	7,630.00	17,848.88	7,870.00	147.74	150.37	-100.16	-7,458.24	2,920.70	1,361.02	1,074.34	286.67	4.748	
17,300.00	7,630.00	17,948.88	7,870.00	149.44	152.03	-100.16	-7,558.24	2,920.36	1,361.02	1,070.97	290.05	4.692	
17,400.00	7,630.00	18,048.88	7,870.00	151.15	153.70	-100.16	-7,658.23	2,920.02	1,361.02	1,067.59	293.43	4.638	
17,500.00	7,630.00	18,148.88	7,870.00	152.86	155.37	-100.16	-7,758.23	2,919.68	1,361.02	1,064.20	296.82	4.585	
17,600.00	7,630.00	18,248.88	7,870.00	154.56	157.04	-100.16	-7,858.23	2,919.35	1,361.02	1,060.82	300.20	4.534	
17,700.00	7,630.00	18,348.88	7,870.00	156.27	158.72	-100.16	-7,958.23	2,919.01	1,361.02	1,057.43	303.59	4.483	
17,800.00	7,630.00	18,448.88	7,870.00	157.98	160.39	-100.16	-8,058.23	2,918.67	1,361.02	1,054.04	306.98	4.434	
17,900.00	7,630.00	18,548.88	7,870.00	159.70	162.07	-100.16	-8,158.23	2,918.33	1,361.02	1,050.65	310.37	4.385	
18,000.00	7,630.00	18,648.88	7,870.00	161.41	163.75	-100.16	-8,258.23	2,918.00	1,361.02	1,047.25	313.77	4.338	
18,100.00	7,630.00	18,748.88	7,870.00	163.12	165.43	-100.16	-8,358.23	2,917.66	1,361.02	1,043.86	317.17	4.291	
18,154.00	7,630.00	18,802.89	7,870.00	164.05	166.33	-100.16	-8,412.23	2,917.48	1,361.02	1,042.02	319.00	4.267	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	0.00	0.00	0.00	0.00	90.42	-0.36	50.12	50.12				
100.00	100.00	100.00	100.00	0.13	0.13	90.42	-0.36	50.12	50.12	49.85	0.27	186.428	
200.00	200.00	200.00	200.00	0.49	0.49	90.42	-0.36	50.12	50.12	49.14	0.99	50.844	
300.00	300.00	300.00	300.00	0.85	0.85	90.42	-0.36	50.12	50.12	48.42	1.70	29.436	
400.00	400.00	400.00	400.00	1.21	1.21	90.42	-0.36	50.12	50.12	47.70	2.42	20.714	
500.00	500.00	500.00	500.00	1.57	1.57	90.42	-0.36	50.12	50.12	46.99	3.14	15.980	
600.00	600.00	600.00	600.00	1.93	1.93	90.42	-0.36	50.12	50.12	46.27	3.85	13.007	
700.00	700.00	700.00	700.00	2.29	2.29	90.42	-0.36	50.12	50.12	45.55	4.57	10.966	
800.00	800.00	800.00	800.00	2.64	2.64	90.42	-0.36	50.12	50.12	44.83	5.29	9.479	
900.00	900.00	900.00	900.00	3.00	3.00	90.42	-0.36	50.12	50.12	44.12	6.00	8.348	CC, ES
1,000.00	1,000.00	998.52	998.50	3.36	3.35	89.38	0.56	51.54	51.57	44.86	6.71	7.685	
1,100.00	1,100.00	1,096.81	1,096.65	3.72	3.70	86.61	3.30	55.80	55.99	48.59	7.41	7.559	
1,200.00	1,200.00	1,194.63	1,194.11	4.08	4.05	82.88	7.85	62.83	63.60	55.50	8.10	7.854	
1,300.00	1,300.00	1,291.77	1,290.55	4.44	4.41	78.96	14.16	72.58	74.55	65.77	8.78	8.494	
1,400.00	1,400.00	1,388.02	1,385.66	4.79	4.78	75.39	22.15	84.94	88.95	79.50	9.44	9.419	
1,500.00	1,499.98	1,483.46	1,479.44	5.15	5.16	34.88	31.78	99.85	105.37	95.28	10.09	10.439	
1,600.00	1,599.84	1,578.35	1,572.03	5.51	5.56	33.37	43.03	117.25	122.25	111.52	10.73	11.394	
1,700.00	1,699.45	1,672.67	1,663.33	5.87	5.99	32.64	55.86	137.10	139.44	128.08	11.36	12.276	
1,800.00	1,798.70	1,766.42	1,753.27	6.23	6.44	32.43	70.22	159.32	156.89	144.91	11.98	13.091	
1,900.00	1,897.47	1,859.60	1,841.76	6.60	6.93	32.57	86.07	183.84	174.56	161.96	12.61	13.846	
2,000.00	1,995.62	1,952.22	1,928.72	6.99	7.45	32.97	103.36	210.59	192.45	179.22	13.23	14.542	
2,100.00	2,093.06	2,044.27	2,014.08	7.39	8.02	33.54	122.05	239.50	210.56	196.69	13.87	15.182	
2,200.00	2,189.64	2,135.75	2,097.78	7.82	8.62	34.25	142.09	270.50	228.90	214.38	14.52	15.764	
2,300.00	2,285.27	2,226.67	2,179.76	8.28	9.27	35.05	163.44	303.53	247.48	232.28	15.19	16.288	
2,400.00	2,379.82	2,317.04	2,259.96	8.77	9.96	35.92	186.04	338.49	266.30	250.40	15.90	16.750	
2,500.00	2,473.17	2,406.85	2,338.32	9.31	10.70	36.83	209.86	375.33	285.39	268.75	16.65	17.145	
2,600.00	2,565.21	2,496.12	2,414.81	9.88	11.49	37.78	234.84	413.98	304.76	287.31	17.44	17.471	
2,660.67	2,620.37	2,550.02	2,460.29	10.25	12.00	38.37	250.54	438.27	316.65	298.69	17.96	17.631	
2,700.00	2,655.96	2,584.82	2,489.36	10.50	12.33	38.82	260.93	454.34	324.62	306.32	18.30	17.738	
2,800.00	2,746.43	2,681.16	2,569.32	11.15	13.28	39.91	290.10	499.47	345.85	326.46	19.40	17.830	
2,900.00	2,836.90	2,778.67	2,650.23	11.82	14.27	40.89	319.64	545.17	367.22	346.66	20.56	17.859	
3,000.00	2,927.37	2,876.18	2,731.14	12.50	15.27	41.76	349.18	590.87	388.68	366.92	21.76	17.859	
3,100.00	3,017.85	2,973.69	2,812.06	13.21	16.28	42.53	378.72	636.57	410.21	387.22	23.00	17.839	
3,200.00	3,108.32	3,071.20	2,892.97	13.92	17.31	43.23	408.26	682.27	431.81	407.56	24.25	17.803	
3,300.00	3,198.79	3,168.70	2,973.89	14.64	18.35	43.87	437.80	727.97	453.47	427.93	25.54	17.757	
3,400.00	3,289.27	3,266.21	3,054.80	15.38	19.39	44.44	467.34	773.66	475.18	448.33	26.84	17.703	
3,500.00	3,379.74	3,363.72	3,135.72	16.12	20.44	44.97	496.88	819.36	496.92	468.76	28.16	17.644	
3,600.00	3,470.21	3,461.23	3,216.63	16.87	21.50	45.45	526.42	865.06	518.70	489.20	29.50	17.582	
3,700.00	3,560.68	3,558.74	3,297.54	17.62	22.56	45.90	555.96	910.76	540.52	509.66	30.85	17.518	
3,800.00	3,651.16	3,656.25	3,378.46	18.39	23.62	46.30	585.50	956.46	562.36	530.14	32.22	17.454	
3,900.00	3,741.63	3,753.76	3,459.37	19.15	24.69	46.68	615.04	1,002.16	584.23	550.63	33.60	17.389	
4,000.00	3,832.10	3,851.27	3,540.29	19.92	25.76	47.03	644.58	1,047.86	606.12	571.14	34.98	17.326	
4,100.00	3,922.57	3,948.78	3,621.20	20.69	26.83	47.36	674.12	1,093.55	628.03	591.65	36.38	17.263	
4,200.00	4,013.05	4,046.29	3,702.12	21.47	27.91	47.66	703.66	1,139.25	649.96	612.18	37.78	17.202	
4,300.00	4,103.52	4,143.80	3,783.03	22.25	28.99	47.95	733.21	1,184.95	671.91	632.71	39.20	17.142	
4,400.00	4,193.99	4,241.31	3,863.94	23.03	30.07	48.22	762.75	1,230.65	693.87	653.26	40.61	17.085	
4,500.00	4,284.47	4,338.82	3,944.86	23.81	31.15	48.47	792.29	1,276.35	715.84	673.81	42.04	17.028	
4,600.00	4,374.94	4,436.33	4,025.77	24.60	32.24	48.70	821.83	1,322.05	737.83	694.36	43.47	16.974	
4,700.00	4,465.41	4,533.84	4,106.69	25.39	33.32	48.92	851.37	1,367.75	759.83	714.93	44.90	16.922	
4,800.00	4,555.88	4,631.35	4,187.60	26.18	34.41	49.13	880.91	1,413.45	781.84	735.49	46.34	16.871	
4,900.00	4,646.36	4,728.86	4,268.52	26.97	35.50	49.33	910.45	1,459.14	803.85	756.07	47.79	16.822	
5,000.00	4,736.83	4,826.37	4,349.43	27.76	36.59	49.52	939.99	1,504.84	825.88	776.65	49.23	16.775	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	4,923.88	4,430.34	28.55	37.68	49.70	969.53	1,550.54	847.91	797.23	50.68	16.730	
5,200.00	4,917.77	5,021.39	4,511.26	29.35	38.77	49.86	999.07	1,596.24	869.96	817.82	52.14	16.686	
5,300.00	5,008.25	5,118.90	4,592.17	30.15	39.86	50.02	1,028.61	1,641.94	892.00	838.41	53.59	16.644	
5,400.00	5,098.72	5,216.40	4,673.09	30.94	40.95	50.18	1,058.15	1,687.64	914.06	859.00	55.05	16.603	
5,500.00	5,189.19	5,313.91	4,754.00	31.74	42.04	50.32	1,087.69	1,733.34	936.12	879.60	56.52	16.563	
5,600.00	5,279.67	5,411.42	4,834.92	32.54	43.14	50.46	1,117.23	1,779.03	958.18	900.20	57.98	16.526	
5,700.00	5,370.14	5,508.93	4,915.83	33.34	44.23	50.59	1,146.77	1,824.73	980.25	920.81	59.45	16.489	
5,800.00	5,460.61	5,606.44	4,996.74	34.14	45.33	50.72	1,176.31	1,870.43	1,002.33	941.41	60.92	16.454	
5,900.00	5,551.08	5,703.95	5,077.66	34.94	46.42	50.84	1,205.85	1,916.13	1,024.41	962.02	62.39	16.420	
6,000.00	5,641.56	5,801.46	5,158.57	35.75	47.52	50.96	1,235.39	1,961.83	1,046.49	982.63	63.86	16.387	
6,100.00	5,732.03	5,901.03	5,239.49	36.55	48.64	51.07	1,264.93	2,007.53	1,068.58	1,003.23	65.35	16.351	
6,200.00	5,822.50	6,003.52	5,320.40	37.35	49.79	51.18	1,294.47	2,053.23	1,090.67	1,023.81	66.87	16.311	
6,300.00	5,912.97	6,106.01	5,401.32	38.16	50.94	51.28	1,324.01	2,098.92	1,112.77	1,044.39	68.38	16.273	
6,400.00	6,003.45	6,191.50	5,482.23	38.96	51.91	51.38	1,353.55	2,144.62	1,134.87	1,065.10	69.77	16.266	
6,500.00	6,093.92	6,289.01	5,563.14	39.77	53.00	51.47	1,383.09	2,190.32	1,156.97	1,085.72	71.25	16.238	
6,600.00	6,184.39	6,386.52	5,644.06	40.57	54.10	51.56	1,412.63	2,236.02	1,179.07	1,106.34	72.73	16.211	
6,700.00	6,274.87	6,484.03	5,724.97	41.38	55.20	51.65	1,442.17	2,281.72	1,201.18	1,126.97	74.21	16.185	
6,800.00	6,365.34	6,581.54	5,805.89	42.18	56.30	51.73	1,471.71	2,327.42	1,223.29	1,147.59	75.70	16.160	
6,900.00	6,455.81	6,679.05	5,886.80	42.99	57.40	51.82	1,501.25	2,373.12	1,245.40	1,168.22	77.18	16.136	
7,000.00	6,546.28	6,776.56	5,967.72	43.80	58.50	51.90	1,530.79	2,418.81	1,267.52	1,188.85	78.67	16.112	
7,100.00	6,636.76	6,874.07	6,048.63	44.61	59.60	51.97	1,560.33	2,464.51	1,289.63	1,209.48	80.16	16.089	
7,200.00	6,727.23	6,971.58	6,129.54	45.41	60.70	52.04	1,589.87	2,510.21	1,311.75	1,230.11	81.64	16.067	
7,300.00	6,817.70	7,069.09	6,210.46	46.22	61.80	52.12	1,619.41	2,555.91	1,333.87	1,250.74	83.13	16.045	
7,383.79	6,893.51	7,150.79	6,278.26	46.90	62.72	52.17	1,644.16	2,594.20	1,352.41	1,268.03	84.38	16.027	
7,400.00	6,908.25	7,166.60	6,291.38	47.03	62.90	50.19	1,648.95	2,601.61	1,355.99	1,271.37	84.61	16.026	
7,450.00	6,954.52	7,215.31	6,331.79	47.40	63.45	42.21	1,663.71	2,624.44	1,366.86	1,281.66	85.20	16.044	
7,500.00	7,001.74	7,263.63	6,371.90	47.72	63.99	30.85	1,678.35	2,647.09	1,377.46	1,291.88	85.58	16.096	
7,550.00	7,049.55	7,311.22	6,411.38	47.99	64.53	15.98	1,692.76	2,669.39	1,387.78	1,302.02	85.76	16.183	
7,600.00	7,097.58	7,357.70	6,449.95	48.21	65.05	-0.85	1,706.84	2,691.17	1,397.83	1,312.10	85.73	16.305	
7,650.00	7,145.48	7,402.71	6,487.30	48.37	65.56	-16.70	1,720.48	2,712.27	1,407.67	1,322.17	85.50	16.463	
7,700.00	7,192.88	7,445.92	6,523.16	48.48	66.05	-29.54	1,733.57	2,732.52	1,417.39	1,332.31	85.08	16.659	
7,750.00	7,239.41	7,487.00	6,557.25	48.54	66.51	-39.14	1,746.02	2,751.77	1,427.10	1,342.62	84.48	16.892	
7,800.00	7,284.72	7,525.64	6,589.31	48.56	66.95	-46.17	1,757.72	2,769.88	1,436.91	1,353.20	83.71	17.165	
7,850.00	7,328.47	7,561.53	6,619.09	48.54	67.35	-51.33	1,768.59	2,786.70	1,446.97	1,364.18	82.79	17.478	
7,900.00	7,370.32	7,605.59	6,646.38	48.47	67.85	-55.14	1,778.56	2,802.11	1,457.40	1,375.59	81.81	17.815	
7,950.00	7,409.96	7,624.03	6,670.96	48.37	68.06	-57.93	1,787.53	2,815.99	1,468.32	1,387.75	80.57	18.225	
8,000.00	7,447.08	7,650.16	6,692.64	48.24	68.36	-59.93	1,795.45	2,828.24	1,479.84	1,400.52	79.32	18.656	
8,050.00	7,481.41	7,672.61	6,711.27	48.07	68.61	-61.27	1,802.24	2,838.76	1,492.06	1,414.03	78.03	19.123	
8,100.00	7,512.67	7,691.19	6,726.69	47.87	68.82	-62.04	1,807.88	2,847.47	1,505.03	1,428.31	76.71	19.619	
8,150.00	7,540.64	7,705.78	6,738.79	47.65	68.98	-62.30	1,812.29	2,854.30	1,518.77	1,443.36	75.41	20.139	
8,200.00	7,565.09	7,716.26	6,747.49	47.40	69.10	-62.09	1,815.47	2,859.21	1,533.29	1,459.12	74.16	20.675	
8,250.00	7,585.85	7,722.55	6,752.71	47.14	69.17	-61.45	1,817.37	2,862.16	1,548.52	1,475.54	72.99	21.217	
8,300.00	7,602.75	7,724.59	6,754.41	46.86	69.20	-60.42	1,817.99	2,863.12	1,564.40	1,492.49	71.91	21.755	
8,350.00	7,615.67	7,722.39	6,752.58	46.58	69.17	-59.04	1,817.33	2,862.09	1,580.79	1,509.84	70.95	22.279	
8,400.00	7,624.51	7,715.95	6,747.23	46.28	69.10	-57.33	1,815.37	2,859.07	1,597.55	1,527.42	70.13	22.780	
8,450.00	7,629.19	7,705.32	6,738.41	45.98	68.98	-55.35	1,812.15	2,854.09	1,614.47	1,545.03	69.44	23.249	
8,481.00	7,630.00	7,696.66	6,731.23	45.79	68.88	-54.01	1,809.53	2,850.03	1,624.96	1,555.87	69.09	23.520	
8,500.00	7,630.00	7,709.13	6,726.43	45.68	69.02	-53.81	1,807.78	2,847.32	1,631.46	1,562.47	69.00	23.646	
8,600.00	7,630.00	9,049.16	7,480.00	45.11	72.01	-84.84	1,140.61	3,269.73	1,666.41	1,584.95	81.46	20.457	
8,700.00	7,630.00	9,149.16	7,480.00	44.56	71.61	-84.84	1,040.61	3,269.39	1,666.41	1,585.74	80.67	20.657	
8,800.00	7,630.00	9,249.16	7,480.00	44.05	71.23	-84.84	940.61	3,269.05	1,666.41	1,586.38	80.03	20.823	
8,900.00	7,630.00	9,349.16	7,480.00	43.57	70.86	-84.84	840.61	3,268.71	1,666.41	1,586.87	79.54	20.951	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,000.00	7,630.00	9,449.16	7,480.00	43.12	70.52	-84.84	740.61	3,268.37	1,666.41	1,587.20	79.20	21.040	
9,100.00	7,630.00	9,549.16	7,480.00	42.70	70.20	-84.84	640.62	3,268.03	1,666.40	1,587.38	79.03	21.087	
9,200.00	7,630.00	9,649.16	7,480.00	42.31	69.90	-84.84	540.62	3,267.69	1,666.40	1,587.40	79.00	21.093	
9,300.00	7,630.00	9,749.16	7,480.00	41.94	69.62	-84.84	440.62	3,267.35	1,666.40	1,587.26	79.14	21.056	
9,400.00	7,630.00	9,849.16	7,480.00	41.59	69.36	-84.84	340.62	3,267.01	1,666.40	1,586.97	79.43	20.978	
9,500.00	7,630.00	9,949.16	7,480.00	41.26	69.11	-84.84	240.62	3,266.68	1,666.40	1,586.52	79.88	20.861	
9,600.00	7,630.00	10,049.16	7,480.00	40.96	68.89	-84.84	140.62	3,266.34	1,666.40	1,585.92	80.48	20.705	
9,700.00	7,630.00	10,149.16	7,480.00	40.68	68.69	-84.84	40.62	3,266.00	1,666.40	1,585.17	81.23	20.514	
9,800.00	7,630.00	10,249.16	7,480.00	40.42	68.51	-84.84	-59.38	3,265.66	1,666.40	1,584.27	82.13	20.291	
9,900.00	7,630.00	10,349.16	7,480.00	40.17	68.36	-84.84	-159.38	3,265.32	1,666.40	1,583.24	83.16	20.039	
10,000.00	7,630.00	10,449.16	7,480.00	39.96	68.22	-84.84	-259.38	3,264.98	1,666.40	1,582.07	84.33	19.761	
10,100.00	7,630.00	10,549.16	7,480.00	40.05	68.12	-84.84	-359.38	3,264.64	1,666.40	1,580.77	85.62	19.462	
10,200.00	7,630.00	10,649.16	7,480.00	40.95	68.03	-84.84	-459.38	3,264.30	1,666.40	1,579.35	87.05	19.144	
10,300.00	7,630.00	10,749.16	7,480.00	41.94	67.98	-84.84	-559.38	3,263.96	1,666.39	1,577.81	88.58	18.812	
10,400.00	7,630.00	10,849.16	7,480.00	42.98	67.96	-84.84	-659.38	3,263.62	1,666.39	1,576.16	90.23	18.468	
10,500.00	7,630.00	10,949.16	7,480.00	44.06	67.96	-84.84	-759.38	3,263.29	1,666.39	1,574.41	91.99	18.115	
10,600.00	7,630.00	11,049.16	7,480.00	45.17	68.01	-84.84	-859.38	3,262.95	1,666.39	1,572.55	93.84	17.758	
10,700.00	7,630.00	11,149.16	7,480.00	46.32	68.09	-84.84	-959.38	3,262.61	1,666.39	1,570.60	95.79	17.397	
10,800.00	7,630.00	11,249.16	7,480.00	47.50	68.22	-84.84	-1,059.38	3,262.27	1,666.39	1,568.57	97.82	17.035	
10,900.00	7,630.00	11,349.16	7,480.00	48.70	68.39	-84.84	-1,159.37	3,261.93	1,666.39	1,566.45	99.94	16.674	
11,000.00	7,630.00	11,449.16	7,480.00	49.94	68.61	-84.84	-1,259.37	3,261.59	1,666.39	1,564.25	102.14	16.315	
11,100.00	7,630.00	11,549.16	7,480.00	51.20	68.89	-84.84	-1,359.37	3,261.25	1,666.39	1,561.98	104.41	15.961	
11,200.00	7,630.00	11,649.16	7,480.00	52.48	69.24	-84.84	-1,459.37	3,260.91	1,666.39	1,559.65	106.74	15.611	
11,300.00	7,630.00	11,749.16	7,480.00	53.79	69.64	-84.84	-1,559.37	3,260.57	1,666.39	1,557.24	109.14	15.268	
11,400.00	7,630.00	11,849.16	7,480.00	55.12	70.12	-84.84	-1,659.37	3,260.24	1,666.39	1,554.79	111.60	14.932	
11,500.00	7,630.00	11,949.16	7,480.00	56.46	70.66	-84.84	-1,759.37	3,259.90	1,666.38	1,552.27	114.12	14.603	
11,600.00	7,630.00	12,049.16	7,480.00	57.83	71.28	-84.84	-1,859.37	3,259.56	1,666.38	1,549.70	116.68	14.281	
11,700.00	7,630.00	12,149.16	7,480.00	59.22	71.97	-84.84	-1,959.37	3,259.22	1,666.38	1,547.09	119.30	13.968	
11,800.00	7,630.00	12,249.16	7,480.00	60.62	72.73	-84.84	-2,059.37	3,258.88	1,666.38	1,544.42	121.96	13.663	
11,900.00	7,630.00	12,349.16	7,480.00	62.04	73.56	-84.84	-2,159.37	3,258.54	1,666.38	1,541.72	124.66	13.367	
12,000.00	7,630.00	12,449.16	7,480.00	63.48	74.45	-84.84	-2,259.37	3,258.20	1,666.38	1,538.97	127.41	13.079	
12,100.00	7,630.00	12,549.16	7,480.00	64.93	75.41	-84.84	-2,359.37	3,257.86	1,666.38	1,536.19	130.19	12.800	
12,200.00	7,630.00	12,649.16	7,480.00	66.39	76.42	-84.84	-2,459.37	3,257.52	1,666.38	1,533.38	133.00	12.529	
12,300.00	7,630.00	12,749.16	7,480.00	67.86	77.48	-84.84	-2,559.37	3,257.18	1,666.38	1,530.52	135.85	12.266	
12,400.00	7,630.00	12,849.16	7,480.00	69.35	78.59	-84.84	-2,659.37	3,256.85	1,666.38	1,527.64	138.73	12.011	
12,500.00	7,630.00	12,949.16	7,480.00	70.85	79.75	-84.84	-2,759.37	3,256.51	1,666.38	1,524.73	141.64	11.765	
12,600.00	7,630.00	13,049.16	7,480.00	72.36	80.94	-84.84	-2,859.36	3,256.17	1,666.38	1,521.80	144.58	11.526	
12,700.00	7,630.00	13,149.16	7,480.00	73.88	82.16	-84.84	-2,959.36	3,255.83	1,666.37	1,518.83	147.54	11.294	
12,800.00	7,630.00	13,249.16	7,480.00	75.41	83.42	-84.84	-3,059.36	3,255.49	1,666.37	1,515.85	150.53	11.070	
12,900.00	7,630.00	13,349.16	7,480.00	76.95	84.71	-84.84	-3,159.36	3,255.15	1,666.37	1,512.84	153.54	10.853	
13,000.00	7,630.00	13,449.16	7,480.00	78.49	86.03	-84.84	-3,259.36	3,254.81	1,666.37	1,509.81	156.57	10.643	
13,100.00	7,630.00	13,549.16	7,480.00	80.05	87.36	-84.84	-3,359.36	3,254.47	1,666.37	1,506.75	159.62	10.440	
13,200.00	7,630.00	13,649.16	7,480.00	81.61	88.72	-84.84	-3,459.36	3,254.13	1,666.37	1,503.68	162.69	10.243	
13,300.00	7,630.00	13,749.16	7,480.00	83.18	90.10	-84.84	-3,559.36	3,253.80	1,666.37	1,500.60	165.77	10.052	
13,400.00	7,630.00	13,849.16	7,480.00	84.76	91.50	-84.84	-3,659.36	3,253.46	1,666.37	1,497.49	168.88	9.867	
13,500.00	7,630.00	13,949.16	7,480.00	86.34	92.92	-84.84	-3,759.36	3,253.12	1,666.37	1,494.37	172.00	9.688	
13,600.00	7,630.00	14,049.16	7,480.00	87.94	94.35	-84.84	-3,859.36	3,252.78	1,666.37	1,491.23	175.14	9.515	
13,700.00	7,630.00	14,149.16	7,480.00	89.53	95.79	-84.84	-3,959.36	3,252.44	1,666.37	1,488.08	178.29	9.347	
13,800.00	7,630.00	14,249.16	7,480.00	91.13	97.25	-84.84	-4,059.36	3,252.10	1,666.37	1,484.92	181.45	9.184	
13,900.00	7,630.00	14,349.16	7,480.00	92.74	98.72	-84.84	-4,159.36	3,251.76	1,666.36	1,481.74	184.63	9.026	
14,000.00	7,630.00	14,449.16	7,480.00	94.35	100.20	-84.84	-4,259.36	3,251.42	1,666.36	1,478.55	187.82	8.872	
14,100.00	7,630.00	14,549.16	7,480.00	95.97	101.69	-84.84	-4,359.36	3,251.08	1,666.36	1,475.35	191.02	8.724	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,200.00	7,630.00	14,649.16	7,480.00	97.60	103.19	-84.84	-4,459.36	3,250.74	1,666.36	1,472.13	194.23	8.579	
14,300.00	7,630.00	14,749.16	7,480.00	99.22	104.71	-84.84	-4,559.36	3,250.41	1,666.36	1,468.91	197.45	8.439	
14,400.00	7,630.00	14,849.16	7,480.00	100.85	106.23	-84.84	-4,659.35	3,250.07	1,666.36	1,465.67	200.69	8.303	
14,500.00	7,630.00	14,949.16	7,480.00	102.49	107.76	-84.84	-4,759.35	3,249.73	1,666.36	1,462.43	203.93	8.171	
14,600.00	7,630.00	15,049.16	7,480.00	104.13	109.29	-84.84	-4,859.35	3,249.39	1,666.36	1,459.18	207.18	8.043	
14,700.00	7,630.00	15,149.16	7,480.00	105.77	110.84	-84.84	-4,959.35	3,249.05	1,666.36	1,455.92	210.44	7.918	
14,800.00	7,630.00	15,249.16	7,480.00	107.42	112.39	-84.84	-5,059.35	3,248.71	1,666.36	1,452.65	213.71	7.797	
14,900.00	7,630.00	15,349.16	7,480.00	109.07	113.95	-84.84	-5,159.35	3,248.37	1,666.36	1,449.37	216.99	7.680	
15,000.00	7,630.00	15,449.16	7,480.00	110.72	115.51	-84.84	-5,259.35	3,248.03	1,666.36	1,446.08	220.27	7.565	
15,100.00	7,630.00	15,549.16	7,480.00	112.38	117.08	-84.84	-5,359.35	3,247.69	1,666.35	1,442.79	223.56	7.454	
15,200.00	7,630.00	15,649.16	7,480.00	114.04	118.66	-84.84	-5,459.35	3,247.36	1,666.35	1,439.49	226.86	7.345	
15,300.00	7,630.00	15,749.16	7,480.00	115.71	120.24	-84.84	-5,559.35	3,247.02	1,666.35	1,436.19	230.17	7.240	
15,400.00	7,630.00	15,849.16	7,480.00	117.37	121.83	-84.84	-5,659.35	3,246.68	1,666.35	1,432.87	233.48	7.137	
15,500.00	7,630.00	15,949.16	7,480.00	119.04	123.42	-84.84	-5,759.35	3,246.34	1,666.35	1,429.56	236.80	7.037	
15,600.00	7,630.00	16,049.16	7,480.00	120.71	125.02	-84.84	-5,859.35	3,246.00	1,666.35	1,426.23	240.12	6.940	
15,700.00	7,630.00	16,149.16	7,480.00	122.39	126.62	-84.84	-5,959.35	3,245.66	1,666.35	1,422.90	243.45	6.845	
15,800.00	7,630.00	16,249.16	7,480.00	124.06	128.22	-84.84	-6,059.35	3,245.32	1,666.35	1,419.57	246.78	6.752	
15,900.00	7,630.00	16,349.16	7,480.00	125.74	129.83	-84.84	-6,159.35	3,244.98	1,666.35	1,416.23	250.12	6.662	
16,000.00	7,630.00	16,449.16	7,480.00	127.42	131.45	-84.84	-6,259.35	3,244.64	1,666.35	1,412.88	253.47	6.574	
16,100.00	7,630.00	16,549.16	7,480.00	129.10	133.07	-84.84	-6,359.34	3,244.30	1,666.35	1,409.53	256.82	6.488	
16,200.00	7,630.00	16,649.16	7,480.00	130.79	134.69	-84.84	-6,459.34	3,243.97	1,666.34	1,406.17	260.17	6.405	
16,300.00	7,630.00	16,749.16	7,480.00	132.48	136.31	-84.84	-6,559.34	3,243.63	1,666.34	1,402.82	263.53	6.323	
16,400.00	7,630.00	16,849.16	7,480.00	134.17	137.94	-84.84	-6,659.34	3,243.29	1,666.34	1,399.45	266.89	6.244	
16,500.00	7,630.00	16,949.16	7,480.00	135.86	139.57	-84.84	-6,759.34	3,242.95	1,666.34	1,396.08	270.26	6.166	
16,600.00	7,630.00	17,049.16	7,480.00	137.55	141.21	-84.84	-6,859.34	3,242.61	1,666.34	1,392.71	273.63	6.090	
16,700.00	7,630.00	17,149.16	7,480.00	139.24	142.85	-84.84	-6,959.34	3,242.27	1,666.34	1,389.34	277.00	6.016	
16,800.00	7,630.00	17,249.16	7,480.00	140.94	144.49	-84.84	-7,059.34	3,241.93	1,666.34	1,385.96	280.38	5.943	
16,900.00	7,630.00	17,349.16	7,480.00	142.64	146.13	-84.84	-7,159.34	3,241.59	1,666.34	1,382.58	283.76	5.872	
17,000.00	7,630.00	17,449.16	7,480.00	144.34	147.78	-84.84	-7,259.34	3,241.25	1,666.34	1,379.19	287.15	5.803	
17,100.00	7,630.00	17,549.16	7,480.00	146.04	149.43	-84.84	-7,359.34	3,240.92	1,666.34	1,375.80	290.54	5.735	
17,200.00	7,630.00	17,649.16	7,480.00	147.74	151.08	-84.84	-7,459.34	3,240.58	1,666.34	1,372.41	293.93	5.669	
17,300.00	7,630.00	17,749.16	7,480.00	149.44	152.73	-84.84	-7,559.34	3,240.24	1,666.34	1,369.01	297.32	5.604	
17,400.00	7,630.00	17,849.16	7,480.00	151.15	154.39	-84.84	-7,659.34	3,239.90	1,666.33	1,365.61	300.72	5.541	
17,500.00	7,630.00	17,949.16	7,480.00	152.86	156.05	-84.84	-7,759.34	3,239.56	1,666.33	1,362.21	304.12	5.479	
17,600.00	7,630.00	18,049.16	7,480.00	154.56	157.71	-84.84	-7,859.34	3,239.22	1,666.33	1,358.81	307.52	5.419	
17,700.00	7,630.00	18,149.16	7,480.00	156.27	159.37	-84.84	-7,959.34	3,238.88	1,666.33	1,355.40	310.93	5.359	
17,800.00	7,630.00	18,249.16	7,480.00	157.98	161.04	-84.84	-8,059.34	3,238.54	1,666.33	1,351.99	314.34	5.301	
17,900.00	7,630.00	18,349.16	7,480.00	159.70	162.71	-84.84	-8,159.33	3,238.20	1,666.33	1,348.58	317.75	5.244	
18,000.00	7,630.00	18,449.16	7,480.00	161.41	164.38	-84.84	-8,259.33	3,237.86	1,666.33	1,345.17	321.16	5.188	
18,100.00	7,630.00	18,549.16	7,480.00	163.12	166.05	-84.84	-8,359.33	3,237.53	1,666.33	1,341.75	324.58	5.134	
18,154.00	7,630.00	18,603.17	7,480.00	164.05	166.95	-84.84	-8,413.34	3,237.34	1,666.33	1,339.90	326.42	5.105	SF

Anticollision Report

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	-1.00	0.00	0.00	90.35	-0.36	60.20	60.20				
100.00	100.00	101.00	99.00	0.13	0.14	90.35	-0.36	60.20	60.20	59.93	0.27	220.973	
200.00	200.00	201.00	199.00	0.49	0.50	90.35	-0.36	60.20	60.20	59.21	0.99	60.848	
300.00	300.00	301.00	299.00	0.85	0.85	90.35	-0.36	60.20	60.20	58.50	1.71	35.281	
400.00	400.00	401.00	399.00	1.21	1.21	90.35	-0.36	60.20	60.20	57.78	2.42	24.843	
500.00	500.00	501.00	499.00	1.57	1.57	90.35	-0.36	60.20	60.20	57.06	3.14	19.171	
600.00	600.00	601.00	599.00	1.93	1.93	90.35	-0.36	60.20	60.20	56.34	3.86	15.608	
700.00	700.00	701.00	699.00	2.29	2.29	90.35	-0.36	60.20	60.20	55.63	4.57	13.161	
800.00	800.00	799.00	799.00	2.64	2.64	90.35	-0.36	60.20	60.20	54.92	5.28	11.393	CC, ES
900.00	900.00	897.21	897.19	3.00	2.99	89.56	0.47	61.62	61.65	55.66	5.99	10.294	
1,000.00	1,000.00	995.17	995.02	3.36	3.34	87.39	3.00	65.93	66.12	59.43	6.69	9.889	
1,100.00	1,100.00	1,092.67	1,092.17	3.72	3.69	84.38	7.20	73.08	73.75	66.38	7.38	9.998	
1,200.00	1,200.00	1,189.50	1,188.31	4.08	4.04	81.08	13.02	83.00	84.69	76.64	8.06	10.510	
1,300.00	1,300.00	1,285.45	1,283.13	4.44	4.41	77.95	20.41	95.59	99.02	90.29	8.73	11.345	
1,400.00	1,400.00	1,380.31	1,376.35	4.79	4.79	75.18	29.29	110.71	116.74	107.36	9.39	12.437	
1,500.00	1,499.98	1,474.23	1,468.03	5.15	5.20	35.21	39.62	128.31	136.42	126.39	10.02	13.609	
1,600.00	1,599.84	1,567.51	1,558.36	5.51	5.62	34.00	51.37	148.34	156.51	145.85	10.65	14.690	
1,700.00	1,699.45	1,660.13	1,647.27	5.87	6.08	33.41	64.51	170.72	176.89	165.61	11.28	15.687	
1,800.00	1,798.70	1,752.11	1,734.67	6.23	6.57	33.25	79.00	195.39	197.51	185.61	11.89	16.606	
1,900.00	1,897.47	1,843.42	1,820.51	6.60	7.09	33.40	94.77	222.27	218.34	205.83	12.51	17.452	
2,000.00	1,995.62	1,934.09	1,904.70	6.99	7.65	33.75	111.80	251.27	239.37	226.24	13.13	18.228	
2,100.00	2,093.06	2,024.11	1,987.20	7.39	8.25	34.27	130.03	282.33	260.60	246.84	13.76	18.936	
2,200.00	2,189.64	2,113.48	2,067.94	7.82	8.89	34.90	149.42	315.36	282.05	267.64	14.41	19.575	
2,300.00	2,285.27	2,202.21	2,146.89	8.28	9.58	35.61	169.92	350.28	303.71	288.64	15.08	20.144	
2,400.00	2,379.82	2,290.31	2,223.99	8.77	10.31	36.38	191.49	387.03	325.61	309.83	15.78	20.635	
2,500.00	2,473.17	2,377.77	2,299.21	9.31	11.10	37.20	214.08	425.52	347.75	331.23	16.52	21.048	
2,600.00	2,565.21	2,464.62	2,372.52	9.88	11.92	38.04	237.66	465.67	370.15	352.83	17.32	21.376	
2,660.67	2,620.37	2,518.58	2,417.36	10.25	12.45	38.59	252.85	491.56	383.84	365.98	17.86	21.497	
2,700.00	2,655.96	2,556.77	2,448.98	10.50	12.84	39.10	263.68	510.02	392.62	374.33	18.29	21.467	
2,800.00	2,746.43	2,653.87	2,529.39	11.15	13.84	40.29	291.24	556.95	415.07	395.65	19.43	21.365	
2,900.00	2,836.90	2,750.96	2,609.80	11.82	14.86	41.36	318.79	603.89	437.68	417.08	20.61	21.239	
3,000.00	2,927.37	2,848.06	2,690.21	12.50	15.88	42.33	346.34	650.82	460.43	438.60	21.82	21.097	
3,100.00	3,017.85	2,945.16	2,770.62	13.21	16.92	43.21	373.89	697.76	483.28	460.21	23.07	20.945	
3,200.00	3,108.32	3,042.26	2,851.03	13.92	17.97	44.01	401.45	744.70	506.24	481.88	24.35	20.787	
3,300.00	3,198.79	3,139.35	2,931.44	14.64	19.03	44.74	429.00	791.63	529.28	503.62	25.66	20.629	
3,400.00	3,289.27	3,236.45	3,011.85	15.38	20.09	45.41	456.55	838.57	552.39	525.41	26.98	20.472	
3,500.00	3,379.74	3,333.55	3,092.26	16.12	21.16	46.02	484.10	885.51	575.57	547.24	28.33	20.317	
3,600.00	3,470.21	3,430.65	3,172.67	16.87	22.24	46.59	511.66	932.44	598.81	569.12	29.69	20.167	
3,700.00	3,560.68	3,527.74	3,253.08	17.62	23.31	47.11	539.21	979.38	622.10	591.03	31.07	20.022	
3,800.00	3,651.16	3,624.84	3,333.49	18.39	24.39	47.60	566.76	1,026.31	645.44	612.97	32.46	19.881	
3,900.00	3,741.63	3,721.94	3,413.90	19.15	25.48	48.05	594.31	1,073.25	668.81	634.95	33.87	19.747	
4,000.00	3,832.10	3,819.03	3,494.31	19.92	26.56	48.48	621.86	1,120.19	692.23	656.94	35.29	19.618	
4,100.00	3,922.57	3,916.13	3,574.72	20.69	27.65	48.87	649.42	1,167.12	715.68	678.97	36.71	19.495	
4,200.00	4,013.05	4,013.23	3,655.13	21.47	28.74	49.24	676.97	1,214.06	739.15	701.01	38.15	19.377	
4,300.00	4,103.52	4,110.33	3,735.54	22.25	29.84	49.59	704.52	1,260.99	762.66	723.07	39.59	19.265	
4,400.00	4,193.99	4,207.42	3,815.95	23.03	30.93	49.92	732.07	1,307.93	786.19	745.15	41.04	19.157	
4,500.00	4,284.47	4,304.52	3,896.36	23.81	32.03	50.22	759.63	1,354.87	809.74	767.25	42.50	19.055	
4,600.00	4,374.94	4,401.62	3,976.77	24.60	33.12	50.51	787.18	1,401.80	833.32	789.36	43.96	18.957	
4,700.00	4,465.41	4,501.28	4,057.18	25.39	34.25	50.79	814.73	1,448.74	856.91	811.46	45.45	18.856	
4,800.00	4,555.88	4,595.81	4,137.59	26.18	35.32	51.05	842.28	1,495.67	880.52	833.62	46.90	18.775	
4,900.00	4,646.36	4,707.09	4,218.00	26.97	36.58	51.29	869.83	1,542.61	904.15	855.66	48.48	18.649	
5,000.00	4,736.83	4,809.99	4,298.41	27.76	37.75	51.53	897.39	1,589.55	927.79	877.78	50.01	18.553	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	4,887.10	4,378.82	28.55	38.63	51.75	924.94	1,636.48	951.44	900.10	51.35	18.530	
5,200.00	4,917.77	4,984.20	4,459.23	29.35	39.73	51.96	952.49	1,683.42	975.11	922.28	52.83	18.456	
5,300.00	5,008.25	5,081.30	4,539.64	30.15	40.83	52.16	980.04	1,730.35	998.79	944.47	54.33	18.385	
5,400.00	5,098.72	5,178.40	4,620.05	30.94	41.94	52.35	1,007.60	1,777.29	1,022.48	966.66	55.82	18.316	
5,500.00	5,189.19	5,275.49	4,700.46	31.74	43.04	52.54	1,035.15	1,824.23	1,046.19	988.86	57.32	18.251	
5,600.00	5,279.67	5,372.59	4,780.87	32.54	44.15	52.71	1,062.70	1,871.16	1,069.90	1,011.07	58.82	18.188	
5,700.00	5,370.14	5,469.69	4,861.28	33.34	45.26	52.88	1,090.25	1,918.10	1,093.62	1,033.29	60.33	18.128	
5,800.00	5,460.61	5,566.79	4,941.69	34.14	46.36	53.04	1,117.80	1,965.04	1,117.35	1,055.51	61.83	18.070	
5,900.00	5,551.08	5,663.88	5,022.10	34.94	47.47	53.20	1,145.36	2,011.97	1,141.08	1,077.74	63.34	18.015	
6,000.00	5,641.56	5,760.98	5,102.51	35.75	48.58	53.34	1,172.91	2,058.91	1,164.83	1,099.98	64.85	17.961	
6,100.00	5,732.03	5,858.08	5,182.92	36.55	49.68	53.48	1,200.46	2,105.84	1,188.58	1,122.22	66.36	17.910	
6,200.00	5,822.50	5,955.18	5,263.33	37.35	50.79	53.62	1,228.01	2,152.78	1,212.34	1,144.46	67.88	17.861	
6,300.00	5,912.97	6,052.27	5,343.74	38.16	51.90	53.75	1,255.57	2,199.72	1,236.10	1,166.71	69.39	17.813	
6,400.00	6,003.45	6,149.37	5,424.15	38.96	53.01	53.88	1,283.12	2,246.65	1,259.87	1,188.96	70.91	17.767	
6,500.00	6,093.92	6,246.47	5,504.56	39.77	54.12	54.00	1,310.67	2,293.59	1,283.65	1,211.22	72.43	17.723	
6,600.00	6,184.39	6,343.56	5,584.97	40.57	55.23	54.12	1,338.22	2,340.52	1,307.43	1,233.48	73.95	17.680	
6,700.00	6,274.87	6,440.66	5,665.38	41.38	56.34	54.23	1,365.78	2,387.46	1,331.21	1,255.74	75.47	17.639	
6,800.00	6,365.34	6,537.76	5,745.79	42.18	57.45	54.34	1,393.33	2,434.40	1,355.00	1,278.01	76.99	17.599	
6,900.00	6,455.81	6,634.86	5,826.20	42.99	58.56	54.44	1,420.88	2,481.33	1,378.80	1,300.28	78.52	17.561	
7,000.00	6,546.28	6,731.95	5,906.61	43.80	59.67	54.54	1,448.43	2,528.27	1,402.60	1,322.56	80.04	17.524	
7,100.00	6,636.76	6,829.05	5,987.02	44.61	60.78	54.64	1,475.98	2,575.20	1,426.40	1,344.83	81.57	17.488	
7,200.00	6,727.23	6,926.15	6,067.43	45.41	61.89	54.74	1,503.54	2,622.14	1,450.21	1,367.12	83.09	17.453	
7,300.00	6,817.70	7,023.25	6,147.84	46.22	63.00	54.83	1,531.09	2,669.08	1,474.02	1,389.40	84.62	17.419	
7,383.79	6,893.51	7,104.60	6,215.22	46.90	63.93	54.90	1,554.17	2,708.40	1,493.97	1,408.07	85.90	17.392	
7,400.00	6,908.25	7,120.35	6,228.26	47.03	64.11	52.95	1,558.64	2,716.02	1,497.81	1,411.67	86.14	17.388	
7,450.00	6,954.52	7,168.92	6,268.48	47.40	64.67	45.07	1,572.43	2,739.49	1,509.36	1,422.61	86.75	17.398	
7,500.00	7,001.74	7,217.20	6,308.46	47.72	65.22	33.79	1,586.12	2,762.83	1,520.43	1,433.25	87.18	17.440	
7,550.00	7,049.55	7,264.81	6,347.89	47.99	65.77	18.99	1,599.63	2,785.85	1,530.98	1,443.56	87.42	17.513	
7,600.00	7,097.58	7,311.40	6,386.47	48.21	66.30	2.22	1,612.86	2,808.37	1,541.03	1,453.57	87.46	17.620	
7,650.00	7,145.48	7,356.61	6,423.92	48.37	66.82	-13.59	1,625.68	2,830.22	1,550.61	1,463.30	87.31	17.759	
7,700.00	7,192.88	7,400.10	6,459.93	48.48	67.31	-26.39	1,638.03	2,851.25	1,559.80	1,472.82	86.98	17.933	
7,750.00	7,239.41	7,441.54	6,494.25	48.54	67.79	-36.00	1,649.78	2,871.28	1,568.70	1,482.22	86.47	18.141	
7,800.00	7,284.72	7,480.61	6,526.60	48.56	68.24	-43.07	1,660.87	2,890.16	1,577.40	1,491.61	85.79	18.386	
7,850.00	7,328.47	7,517.01	6,556.75	48.54	68.65	-48.29	1,671.20	2,907.76	1,586.05	1,501.08	84.96	18.668	
7,900.00	7,370.32	7,550.47	6,584.46	48.47	69.04	-52.20	1,680.69	2,923.93	1,594.75	1,510.76	83.99	18.987	
7,950.00	7,409.96	7,580.73	6,609.52	48.37	69.38	-55.14	1,689.28	2,938.56	1,603.65	1,520.75	82.90	19.345	
8,000.00	7,447.08	7,607.57	6,631.74	48.24	69.69	-57.32	1,696.90	2,951.53	1,612.85	1,531.14	81.71	19.739	
8,050.00	7,481.41	7,630.77	6,650.96	48.07	69.96	-58.89	1,703.48	2,962.75	1,622.46	1,542.01	80.45	20.168	
8,100.00	7,512.67	7,650.16	6,667.02	47.87	70.18	-59.94	1,708.98	2,972.12	1,632.55	1,553.41	79.14	20.628	
8,150.00	7,540.64	7,665.60	6,679.80	47.65	70.35	-60.52	1,713.36	2,979.59	1,643.18	1,565.35	77.82	21.115	
8,200.00	7,565.09	7,676.96	6,689.21	47.40	70.48	-60.68	1,716.59	2,985.08	1,654.36	1,577.84	76.51	21.622	
8,250.00	7,585.85	7,684.17	6,695.18	47.14	70.57	-60.44	1,718.63	2,988.56	1,666.09	1,590.84	75.25	22.141	
8,300.00	7,602.75	7,687.16	6,697.65	46.86	70.60	-59.84	1,719.48	2,990.01	1,678.31	1,604.26	74.05	22.663	
8,350.00	7,615.67	7,685.91	6,696.62	46.58	70.59	-58.92	1,719.12	2,989.40	1,690.96	1,618.01	72.95	23.180	
8,400.00	7,624.51	7,680.43	6,692.08	46.28	70.52	-57.68	1,717.57	2,986.75	1,703.92	1,631.96	71.95	23.681	
8,450.00	7,629.19	7,670.76	6,684.08	45.98	70.41	-56.19	1,714.83	2,982.08	1,717.03	1,645.95	71.08	24.157	
8,481.00	7,630.00	7,662.70	6,677.40	45.79	70.32	-55.14	1,712.54	2,978.18	1,725.17	1,654.57	70.60	24.436	
8,500.00	7,630.00	7,657.28	6,672.91	45.68	70.26	-54.96	1,711.00	2,975.56	1,730.23	1,659.90	70.33	24.601	
8,600.00	7,630.00	7,628.74	6,649.27	45.11	69.93	-54.03	1,702.90	2,961.77	1,759.76	1,690.52	69.25	25.412	
8,700.00	7,630.00	7,600.20	6,625.64	44.56	69.61	-53.09	1,694.80	2,947.97	1,793.93	1,725.24	68.69	26.116	
8,800.00	7,630.00	7,571.66	6,602.00	44.05	69.28	-52.16	1,686.71	2,934.18	1,832.49	1,763.87	68.61	26.708	
8,900.00	7,630.00	7,543.12	6,578.37	43.57	68.95	-51.24	1,678.61	2,920.38	1,875.15	1,806.20	68.94	27.199	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,630.00	7,514.58	6,554.74	43.12	68.62	-50.32	1,670.51	2,906.58	1,921.65	1,852.03	69.61	27.605	
9,100.00	7,630.00	7,486.04	6,531.10	42.70	68.30	-49.40	1,662.41	2,892.79	1,971.71	1,901.16	70.54	27.950	
9,200.00	7,630.00	10,003.64	7,730.00	42.31	76.29	-92.92	539.56	3,587.42	1,981.95	1,904.73	77.22	25.666	
9,300.00	7,630.00	10,103.64	7,730.00	41.94	76.03	-92.92	439.56	3,587.09	1,981.95	1,904.69	77.26	25.653	
9,400.00	7,630.00	10,203.64	7,730.00	41.59	75.78	-92.92	339.56	3,586.75	1,981.95	1,904.49	77.46	25.586	
9,500.00	7,630.00	10,303.64	7,730.00	41.26	75.56	-92.92	239.56	3,586.41	1,981.95	1,904.13	77.82	25.468	
9,600.00	7,630.00	10,403.64	7,730.00	40.96	75.35	-92.92	139.56	3,586.07	1,981.95	1,903.61	78.34	25.299	
9,700.00	7,630.00	10,503.64	7,730.00	40.68	75.17	-92.92	39.57	3,585.74	1,981.95	1,902.93	79.02	25.083	
9,800.00	7,630.00	10,603.64	7,730.00	40.42	75.00	-92.92	-60.43	3,585.40	1,981.95	1,902.11	79.84	24.824	
9,900.00	7,630.00	10,703.64	7,730.00	40.17	74.86	-92.92	-160.43	3,585.06	1,981.95	1,901.14	80.81	24.525	
10,000.00	7,630.00	10,803.64	7,730.00	39.96	74.74	-92.92	-260.43	3,584.72	1,981.95	1,900.03	81.92	24.192	
10,100.00	7,630.00	10,903.64	7,730.00	40.05	74.63	-92.92	-360.43	3,584.39	1,981.95	1,898.78	83.17	23.830	
10,200.00	7,630.00	11,003.64	7,730.00	40.95	74.56	-92.92	-460.43	3,584.05	1,981.95	1,897.41	84.55	23.442	
10,300.00	7,630.00	11,103.64	7,730.00	41.94	74.50	-92.92	-560.43	3,583.71	1,981.95	1,895.91	86.05	23.034	
10,400.00	7,630.00	11,203.64	7,730.00	42.98	74.48	-92.92	-660.43	3,583.37	1,981.96	1,894.29	87.66	22.609	
10,500.00	7,630.00	11,303.64	7,730.00	44.06	74.48	-92.92	-760.43	3,583.04	1,981.96	1,892.57	89.39	22.173	
10,600.00	7,630.00	11,403.64	7,730.00	45.17	74.51	-92.92	-860.43	3,582.70	1,981.96	1,890.74	91.21	21.728	
10,700.00	7,630.00	11,503.64	7,730.00	46.32	74.57	-92.92	-960.43	3,582.36	1,981.96	1,888.82	93.14	21.279	
10,800.00	7,630.00	11,603.64	7,730.00	47.50	74.66	-92.92	-1,060.43	3,582.02	1,981.96	1,886.80	95.16	20.828	
10,900.00	7,630.00	11,703.64	7,730.00	48.70	74.79	-92.92	-1,160.43	3,581.69	1,981.96	1,884.69	97.26	20.377	
11,000.00	7,630.00	11,803.64	7,730.00	49.94	74.97	-92.92	-1,260.43	3,581.35	1,981.96	1,882.51	99.45	19.929	
11,100.00	7,630.00	11,903.64	7,730.00	51.20	75.18	-92.92	-1,360.43	3,581.01	1,981.96	1,880.25	101.71	19.487	
11,200.00	7,630.00	12,003.64	7,730.00	52.48	75.44	-92.92	-1,460.43	3,580.67	1,981.96	1,877.92	104.04	19.050	
11,300.00	7,630.00	12,103.64	7,730.00	53.79	75.75	-92.92	-1,560.43	3,580.34	1,981.96	1,875.53	106.44	18.621	
11,400.00	7,630.00	12,203.64	7,730.00	55.12	76.11	-92.92	-1,660.43	3,580.00	1,981.96	1,873.07	108.89	18.201	
11,500.00	7,630.00	12,303.64	7,730.00	56.46	76.52	-92.92	-1,760.42	3,579.66	1,981.96	1,870.55	111.41	17.790	
11,600.00	7,630.00	12,403.64	7,730.00	57.83	76.99	-92.92	-1,860.42	3,579.32	1,981.96	1,867.98	113.98	17.389	
11,700.00	7,630.00	12,503.64	7,730.00	59.22	77.52	-92.92	-1,960.42	3,578.99	1,981.96	1,865.37	116.60	16.998	
11,800.00	7,630.00	12,603.64	7,730.00	60.62	78.11	-92.92	-2,060.42	3,578.65	1,981.96	1,862.70	119.26	16.618	
11,900.00	7,630.00	12,703.64	7,730.00	62.04	78.77	-92.92	-2,160.42	3,578.31	1,981.97	1,859.99	121.98	16.249	
12,000.00	7,630.00	12,803.64	7,730.00	63.48	79.48	-92.92	-2,260.42	3,577.98	1,981.97	1,857.24	124.73	15.891	
12,100.00	7,630.00	12,903.64	7,730.00	64.93	80.25	-92.92	-2,360.42	3,577.64	1,981.97	1,854.45	127.52	15.543	
12,200.00	7,630.00	13,003.64	7,730.00	66.39	81.08	-92.92	-2,460.42	3,577.30	1,981.97	1,851.63	130.34	15.206	
12,300.00	7,630.00	13,103.64	7,730.00	67.86	81.97	-92.92	-2,560.42	3,576.96	1,981.97	1,848.77	133.20	14.880	
12,400.00	7,630.00	13,203.64	7,730.00	69.35	82.91	-92.92	-2,660.42	3,576.63	1,981.97	1,845.88	136.09	14.564	
12,500.00	7,630.00	13,303.64	7,730.00	70.85	83.90	-92.92	-2,760.42	3,576.29	1,981.97	1,842.96	139.01	14.258	
12,600.00	7,630.00	13,403.64	7,730.00	72.36	84.93	-92.92	-2,860.42	3,575.95	1,981.97	1,840.01	141.96	13.962	
12,700.00	7,630.00	13,503.64	7,730.00	73.88	86.01	-92.92	-2,960.42	3,575.61	1,981.97	1,837.04	144.93	13.675	
12,800.00	7,630.00	13,596.36	7,730.00	75.41	87.05	-92.92	-3,060.42	3,575.28	1,981.97	1,834.15	147.82	13.408	
12,900.00	7,630.00	13,703.64	7,730.00	76.95	88.29	-92.92	-3,160.42	3,574.94	1,981.97	1,831.02	150.95	13.130	
13,000.00	7,630.00	13,803.64	7,730.00	78.49	89.49	-92.92	-3,260.42	3,574.60	1,981.97	1,827.98	153.99	12.871	
13,100.00	7,630.00	13,903.64	7,730.00	80.05	90.71	-92.92	-3,360.42	3,574.26	1,981.97	1,824.92	157.05	12.620	
13,200.00	7,630.00	14,003.64	7,730.00	81.61	91.96	-92.92	-3,460.42	3,573.93	1,981.97	1,821.84	160.14	12.377	
13,300.00	7,630.00	14,103.64	7,730.00	83.18	93.24	-92.92	-3,560.41	3,573.59	1,981.97	1,818.74	163.24	12.142	
13,400.00	7,630.00	14,203.64	7,730.00	84.76	94.55	-92.92	-3,660.41	3,573.25	1,981.98	1,815.62	166.35	11.914	
13,500.00	7,630.00	14,303.64	7,730.00	86.34	95.87	-92.92	-3,760.41	3,572.91	1,981.98	1,812.49	169.49	11.694	
13,600.00	7,630.00	14,403.64	7,730.00	87.94	97.22	-92.92	-3,860.41	3,572.58	1,981.98	1,809.34	172.64	11.481	
13,700.00	7,630.00	14,503.64	7,730.00	89.53	98.59	-92.92	-3,960.41	3,572.24	1,981.98	1,806.18	175.80	11.274	
13,800.00	7,630.00	14,603.64	7,730.00	91.13	99.97	-92.92	-4,060.41	3,571.90	1,981.98	1,803.00	178.98	11.074	
13,900.00	7,630.00	14,703.64	7,730.00	92.74	101.38	-92.92	-4,160.41	3,571.56	1,981.98	1,799.81	182.17	10.880	
14,000.00	7,630.00	14,803.64	7,730.00	94.35	102.79	-92.92	-4,260.41	3,571.23	1,981.98	1,796.61	185.37	10.692	
14,100.00	7,630.00	14,903.64	7,730.00	95.97	104.22	-92.92	-4,360.41	3,570.89	1,981.98	1,793.40	188.58	10.510	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,200.00	7,630.00	15,003.64	7,730.00	97.60	105.67	-92.92	-4,460.41	3,570.55	1,981.98	1,790.17	191.81	10.333	
14,300.00	7,630.00	15,103.64	7,730.00	99.22	107.13	-92.92	-4,560.41	3,570.21	1,981.98	1,786.94	195.05	10.162	
14,400.00	7,630.00	15,203.64	7,730.00	100.85	108.59	-92.92	-4,660.41	3,569.88	1,981.98	1,783.69	198.29	9.995	
14,500.00	7,630.00	15,296.36	7,730.00	102.49	109.97	-92.92	-4,760.41	3,569.54	1,981.98	1,780.55	201.43	9.840	
14,600.00	7,630.00	15,403.64	7,730.00	104.13	111.56	-92.92	-4,860.41	3,569.20	1,981.98	1,777.17	204.81	9.677	
14,700.00	7,630.00	15,503.64	7,730.00	105.77	113.06	-92.92	-4,960.41	3,568.86	1,981.98	1,773.90	208.08	9.525	
14,800.00	7,630.00	15,603.64	7,730.00	107.42	114.57	-92.92	-5,060.41	3,568.53	1,981.99	1,770.62	211.37	9.377	
14,900.00	7,630.00	15,703.64	7,730.00	109.07	116.09	-92.92	-5,160.41	3,568.19	1,981.99	1,767.33	214.66	9.233	
15,000.00	7,630.00	15,803.64	7,730.00	110.72	117.62	-92.92	-5,260.40	3,567.85	1,981.99	1,764.03	217.95	9.094	
15,100.00	7,630.00	15,903.64	7,730.00	112.38	119.15	-92.92	-5,360.40	3,567.52	1,981.99	1,760.73	221.26	8.958	
15,200.00	7,630.00	16,003.64	7,730.00	114.04	120.69	-92.92	-5,460.40	3,567.18	1,981.99	1,757.42	224.57	8.826	
15,300.00	7,630.00	16,103.64	7,730.00	115.71	122.24	-92.92	-5,560.40	3,566.84	1,981.99	1,754.10	227.89	8.697	
15,400.00	7,630.00	16,203.64	7,730.00	117.37	123.79	-92.92	-5,660.40	3,566.50	1,981.99	1,750.78	231.21	8.572	
15,500.00	7,630.00	16,303.64	7,730.00	119.04	125.35	-92.92	-5,760.40	3,566.17	1,981.99	1,747.45	234.54	8.451	
15,600.00	7,630.00	16,403.64	7,730.00	120.71	126.92	-92.92	-5,860.40	3,565.83	1,981.99	1,744.11	237.88	8.332	
15,700.00	7,630.00	16,503.64	7,730.00	122.39	128.49	-92.92	-5,960.40	3,565.49	1,981.99	1,740.77	241.22	8.217	
15,800.00	7,630.00	16,603.64	7,730.00	124.06	130.07	-92.92	-6,060.40	3,565.15	1,981.99	1,737.43	244.56	8.104	
15,900.00	7,630.00	16,703.64	7,730.00	125.74	131.65	-92.92	-6,160.40	3,564.82	1,981.99	1,734.08	247.92	7.995	
16,000.00	7,630.00	16,803.64	7,730.00	127.42	133.24	-92.92	-6,260.40	3,564.48	1,981.99	1,730.72	251.27	7.888	
16,100.00	7,630.00	16,903.64	7,730.00	129.10	134.83	-92.92	-6,360.40	3,564.14	1,981.99	1,727.36	254.63	7.784	
16,200.00	7,630.00	17,003.64	7,730.00	130.79	136.42	-92.92	-6,460.40	3,563.80	1,981.99	1,723.99	258.00	7.682	
16,300.00	7,630.00	17,103.64	7,730.00	132.48	138.03	-92.92	-6,560.40	3,563.47	1,982.00	1,720.63	261.37	7.583	
16,400.00	7,630.00	17,203.64	7,730.00	134.17	139.63	-92.92	-6,660.40	3,563.13	1,982.00	1,717.25	264.74	7.486	
16,500.00	7,630.00	17,303.64	7,730.00	135.86	141.24	-92.92	-6,760.40	3,562.79	1,982.00	1,713.87	268.12	7.392	
16,600.00	7,630.00	17,403.64	7,730.00	137.55	142.85	-92.92	-6,860.40	3,562.45	1,982.00	1,710.49	271.51	7.300	
16,700.00	7,630.00	17,503.64	7,730.00	139.24	144.47	-92.92	-6,960.40	3,562.12	1,982.00	1,707.11	274.89	7.210	
16,800.00	7,630.00	17,603.64	7,730.00	140.94	146.09	-92.92	-7,060.39	3,561.78	1,982.00	1,703.72	278.28	7.122	
16,900.00	7,630.00	17,703.64	7,730.00	142.64	147.71	-92.92	-7,160.39	3,561.44	1,982.00	1,700.32	281.67	7.036	
17,000.00	7,630.00	17,803.64	7,730.00	144.34	149.34	-92.92	-7,260.39	3,561.10	1,982.00	1,696.93	285.07	6.953	
17,100.00	7,630.00	17,903.64	7,730.00	146.04	150.97	-92.92	-7,360.39	3,560.77	1,982.00	1,693.53	288.47	6.871	
17,200.00	7,630.00	18,003.64	7,730.00	147.74	152.60	-92.92	-7,460.39	3,560.43	1,982.00	1,690.13	291.87	6.791	
17,300.00	7,630.00	18,103.64	7,730.00	149.44	154.24	-92.92	-7,560.39	3,560.09	1,982.00	1,686.72	295.28	6.712	
17,400.00	7,630.00	18,203.64	7,730.00	151.15	155.88	-92.92	-7,660.39	3,559.75	1,982.00	1,683.31	298.69	6.636	
17,500.00	7,630.00	18,296.36	7,730.00	152.86	157.40	-92.92	-7,760.39	3,559.42	1,982.00	1,680.03	301.98	6.563	
17,600.00	7,630.00	18,403.64	7,730.00	154.56	159.17	-92.92	-7,860.39	3,559.08	1,982.00	1,676.49	305.51	6.487	
17,700.00	7,630.00	18,503.64	7,730.00	156.27	160.81	-92.92	-7,960.39	3,558.74	1,982.00	1,673.07	308.93	6.416	
17,800.00	7,630.00	18,603.64	7,730.00	157.98	162.46	-92.92	-8,060.39	3,558.40	1,982.01	1,669.66	312.35	6.345	
17,900.00	7,630.00	18,703.64	7,730.00	159.70	164.11	-92.92	-8,160.39	3,558.07	1,982.01	1,666.23	315.77	6.277	
18,000.00	7,630.00	18,803.64	7,730.00	161.41	165.77	-92.92	-8,260.39	3,557.73	1,982.01	1,662.81	319.20	6.209	
18,100.00	7,630.00	18,896.36	7,730.00	163.12	167.30	-92.92	-8,360.39	3,557.39	1,982.01	1,659.51	322.50	6.146	
18,102.82	7,630.00	18,900.82	7,730.00	163.17	167.38	-92.92	-8,363.21	3,557.38	1,982.01	1,659.38	322.62	6.143	
18,154.00	7,630.00	18,942.39	7,730.00	164.05	168.07	-92.92	-8,406.41	3,557.24	1,982.02	1,657.59	324.44	6.109	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	90.59	-0.73	70.28	70.28				
100.00	100.00	101.00	99.00	0.13	0.14	90.59	-0.73	70.28	70.28	70.01	0.27	257.983	
200.00	200.00	201.00	199.00	0.49	0.50	90.59	-0.73	70.28	70.28	69.30	0.99	71.039	
300.00	300.00	301.00	299.00	0.85	0.85	90.59	-0.73	70.28	70.28	68.58	1.71	41.191	
400.00	400.00	401.00	399.00	1.21	1.21	90.59	-0.73	70.28	70.28	67.86	2.42	29.004	
500.00	500.00	501.00	499.00	1.57	1.57	90.59	-0.73	70.28	70.28	67.14	3.14	22.382	
600.00	600.00	601.00	599.00	1.93	1.93	90.59	-0.73	70.28	70.28	66.43	3.86	18.222	
700.00	700.00	699.00	699.00	2.29	2.28	90.59	-0.73	70.28	70.28	65.72	4.57	15.390	CC, ES
800.00	800.00	796.88	796.86	2.64	2.63	89.96	0.05	71.72	71.76	66.48	5.27	13.613	
900.00	900.00	894.51	894.36	3.00	2.97	88.20	2.39	76.10	76.28	70.31	5.97	12.781	
1,000.00	1,000.00	991.70	991.19	3.36	3.32	85.69	6.29	83.36	83.96	77.30	6.66	12.607	
1,100.00	1,100.00	1,088.21	1,087.02	3.72	3.68	82.87	11.69	93.42	94.91	87.57	7.34	12.925	
1,200.00	1,200.00	1,183.84	1,181.55	4.08	4.05	80.10	18.54	106.20	109.21	101.19	8.02	13.622	
1,300.00	1,300.00	1,278.40	1,274.48	4.44	4.44	77.57	26.78	121.56	126.87	118.19	8.68	14.616	
1,400.00	1,400.00	1,371.70	1,365.57	4.79	4.84	75.39	36.33	139.35	147.84	138.52	9.33	15.851	
1,500.00	1,499.98	1,463.95	1,454.93	5.15	5.27	35.79	47.14	159.51	170.70	160.74	9.96	17.137	
1,600.00	1,599.84	1,555.47	1,542.82	5.51	5.72	34.76	59.21	182.00	193.93	183.34	10.58	18.327	
1,700.00	1,699.45	1,646.27	1,629.15	5.87	6.21	34.25	72.49	206.75	217.42	206.22	11.20	19.419	
1,800.00	1,798.70	1,736.33	1,713.88	6.23	6.74	34.11	86.93	233.66	241.13	229.32	11.81	20.420	
1,900.00	1,897.47	1,825.67	1,796.93	6.60	7.30	34.22	102.49	262.67	265.02	252.60	12.42	21.338	
2,000.00	1,995.62	1,914.29	1,878.25	6.99	7.89	34.53	119.13	293.68	289.09	276.06	13.04	22.175	
2,100.00	2,093.06	2,002.18	1,957.80	7.39	8.53	34.97	136.80	326.61	313.34	299.68	13.66	22.934	
2,200.00	2,189.64	2,089.37	2,035.54	7.82	9.22	35.52	155.45	361.39	337.78	323.47	14.31	23.610	
2,300.00	2,285.27	2,175.84	2,111.42	8.28	9.95	36.14	175.06	397.92	362.40	347.43	14.97	24.202	
2,400.00	2,379.82	2,261.62	2,185.42	8.77	10.72	36.81	195.56	436.14	387.23	371.55	15.67	24.708	
2,500.00	2,473.17	2,346.71	2,257.51	9.31	11.53	37.53	216.93	475.97	412.26	395.85	16.41	25.123	
2,600.00	2,565.21	2,431.12	2,327.67	9.88	12.39	38.27	239.11	517.32	437.52	420.32	17.20	25.443	
2,660.67	2,620.37	2,482.00	2,369.29	10.25	12.92	38.74	252.96	543.12	452.96	435.26	17.70	25.592	
2,700.00	2,655.96	2,515.15	2,396.11	10.50	13.28	39.15	262.16	560.27	463.21	445.17	18.04	25.676	
2,800.00	2,746.43	2,611.12	2,473.50	11.15	14.35	40.26	288.99	610.29	489.86	470.68	19.18	25.541	
2,900.00	2,836.90	2,707.10	2,550.90	11.82	15.43	41.24	315.83	660.30	516.66	496.30	20.36	25.378	
3,000.00	2,927.37	2,803.07	2,628.29	12.50	16.53	42.14	342.66	710.32	543.59	522.02	21.57	25.196	
3,100.00	3,017.85	2,900.96	2,705.68	13.21	17.66	42.94	369.49	760.33	570.64	547.80	22.83	24.990	
3,200.00	3,108.32	2,995.02	2,783.08	13.92	18.76	43.68	396.33	810.34	597.78	573.68	24.10	24.806	
3,300.00	3,198.79	3,090.99	2,860.47	14.64	19.89	44.35	423.16	860.36	625.00	599.60	25.40	24.608	
3,400.00	3,289.27	3,186.97	2,937.86	15.38	21.02	44.97	449.99	910.37	652.29	625.57	26.72	24.412	
3,500.00	3,379.74	3,282.94	3,015.26	16.12	22.16	45.53	476.83	960.38	679.66	651.59	28.06	24.221	
3,600.00	3,470.21	3,378.92	3,092.65	16.87	23.30	46.06	503.66	1,010.40	707.07	677.65	29.42	24.035	
3,700.00	3,560.68	3,474.89	3,170.05	17.62	24.44	46.54	530.49	1,060.41	734.54	703.75	30.79	23.855	
3,800.00	3,651.16	3,570.87	3,247.44	18.39	25.59	46.99	557.32	1,110.43	762.05	729.88	32.18	23.683	
3,900.00	3,741.63	3,666.84	3,324.83	19.15	26.75	47.41	584.16	1,160.44	789.61	756.03	33.58	23.517	
4,000.00	3,832.10	3,762.82	3,402.23	19.92	27.90	47.80	610.99	1,210.45	817.20	782.21	34.98	23.359	
4,100.00	3,922.57	3,858.79	3,479.62	20.69	29.06	48.16	637.82	1,260.47	844.82	808.42	36.40	23.208	
4,200.00	4,013.05	3,954.77	3,557.01	21.47	30.22	48.50	664.66	1,310.48	872.47	834.64	37.83	23.063	
4,300.00	4,103.52	4,050.74	3,634.41	22.25	31.38	48.82	691.49	1,360.49	900.15	860.89	39.26	22.925	
4,400.00	4,193.99	4,146.72	3,711.80	23.03	32.54	49.12	718.32	1,410.51	927.86	887.15	40.71	22.794	
4,500.00	4,284.47	4,242.69	3,789.19	23.81	33.71	49.41	745.16	1,460.52	955.58	913.43	42.16	22.668	
4,600.00	4,374.94	4,338.66	3,866.59	24.60	34.87	49.68	771.99	1,510.54	983.33	939.72	43.61	22.549	
4,700.00	4,465.41	4,434.64	3,943.98	25.39	36.04	49.93	798.82	1,560.55	1,011.09	966.02	45.07	22.434	
4,800.00	4,555.88	4,530.61	4,021.37	26.18	37.20	50.17	825.66	1,610.56	1,038.88	992.34	46.53	22.325	
4,900.00	4,646.36	4,626.59	4,098.77	26.97	38.37	50.40	852.49	1,660.58	1,066.67	1,018.67	48.00	22.221	
5,000.00	4,736.83	4,722.56	4,176.16	27.76	39.54	50.61	879.32	1,710.59	1,094.49	1,045.01	49.48	22.122	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	4,818.54	4,253.55	28.55	40.71	50.82	906.16	1,760.60	1,122.31	1,071.36	50.95	22.027	
5,200.00	4,917.77	4,914.51	4,330.95	29.35	41.88	51.01	932.99	1,810.62	1,150.15	1,097.72	52.43	21.936	
5,300.00	5,008.25	5,010.49	4,408.34	30.15	43.06	51.20	959.82	1,860.63	1,178.01	1,124.09	53.92	21.848	
5,400.00	5,098.72	5,106.46	4,485.73	30.94	44.23	51.37	986.65	1,910.65	1,205.87	1,150.46	55.40	21.765	
5,500.00	5,189.19	5,202.44	4,563.13	31.74	45.40	51.54	1,013.49	1,960.66	1,233.74	1,176.85	56.89	21.685	
5,600.00	5,279.67	5,298.41	4,640.52	32.54	46.57	51.71	1,040.32	2,010.67	1,261.62	1,203.24	58.39	21.608	
5,700.00	5,370.14	5,394.39	4,717.91	33.34	47.75	51.86	1,067.15	2,060.69	1,289.51	1,229.63	59.88	21.535	
5,800.00	5,460.61	5,509.64	4,795.31	34.14	49.16	52.01	1,093.99	2,110.70	1,317.41	1,255.88	61.53	21.412	
5,900.00	5,551.08	5,586.34	4,872.70	34.94	50.10	52.15	1,120.82	2,160.71	1,345.32	1,282.44	62.88	21.396	
6,000.00	5,641.56	5,682.31	4,950.09	35.75	51.27	52.29	1,147.65	2,210.73	1,373.23	1,308.86	64.38	21.331	
6,100.00	5,732.03	5,778.28	5,027.49	36.55	52.45	52.42	1,174.49	2,260.74	1,401.15	1,335.27	65.88	21.268	
6,200.00	5,822.50	5,874.26	5,104.88	37.35	53.62	52.54	1,201.32	2,310.76	1,429.08	1,361.70	67.39	21.208	
6,300.00	5,912.97	5,970.23	5,182.27	38.16	54.80	52.66	1,228.15	2,360.77	1,457.02	1,388.12	68.89	21.149	
6,400.00	6,003.45	6,066.21	5,259.67	38.96	55.98	52.78	1,254.99	2,410.78	1,484.95	1,414.56	70.40	21.093	
6,500.00	6,093.92	6,162.18	5,337.06	39.77	57.15	52.89	1,281.82	2,460.80	1,512.90	1,440.99	71.91	21.039	
6,600.00	6,184.39	6,258.16	5,414.45	40.57	58.33	53.00	1,308.65	2,510.81	1,540.85	1,467.43	73.42	20.987	
6,700.00	6,274.87	6,354.13	5,491.85	41.38	59.51	53.11	1,335.48	2,560.82	1,568.80	1,493.87	74.93	20.937	
6,800.00	6,365.34	6,450.11	5,569.24	42.18	60.69	53.21	1,362.32	2,610.84	1,596.76	1,520.32	76.44	20.888	
6,900.00	6,455.81	6,546.08	5,646.63	42.99	61.86	53.30	1,389.15	2,660.85	1,624.73	1,546.77	77.96	20.841	
7,000.00	6,546.28	6,642.06	5,724.03	43.80	63.04	53.40	1,415.98	2,710.87	1,652.70	1,573.22	79.47	20.795	
7,100.00	6,636.76	6,738.03	5,801.42	44.61	64.22	53.49	1,442.82	2,760.88	1,680.67	1,599.68	80.99	20.751	
7,200.00	6,727.23	6,834.01	5,878.81	45.41	65.40	53.58	1,469.65	2,810.89	1,708.64	1,626.14	82.51	20.709	
7,300.00	6,817.70	6,929.98	5,956.21	46.22	66.58	53.66	1,496.48	2,860.91	1,736.62	1,652.60	84.03	20.667	
7,383.79	6,893.51	7,010.40	6,021.05	46.90	67.56	53.73	1,518.97	2,902.81	1,760.07	1,674.77	85.30	20.634	
7,400.00	6,908.25	7,025.96	6,033.61	47.03	67.76	51.85	1,523.32	2,910.93	1,764.59	1,679.05	85.54	20.629	
7,450.00	6,954.52	7,073.97	6,072.32	47.40	68.34	44.23	1,536.74	2,935.94	1,778.29	1,692.14	86.16	20.640	
7,500.00	7,001.74	7,121.70	6,110.81	47.72	68.93	33.23	1,550.08	2,960.81	1,791.57	1,704.97	86.61	20.687	
7,550.00	7,049.55	7,168.77	6,148.77	47.99	69.51	18.73	1,563.25	2,985.34	1,804.38	1,717.51	86.87	20.770	
7,600.00	7,097.58	7,214.84	6,185.91	48.21	70.08	2.28	1,576.12	3,009.35	1,816.69	1,729.72	86.97	20.890	
7,650.00	7,145.48	7,259.54	6,221.96	48.37	70.62	-13.19	1,588.62	3,032.65	1,828.51	1,741.63	86.88	21.046	
7,700.00	7,192.88	7,302.55	6,256.64	48.48	71.15	-25.66	1,600.65	3,055.06	1,839.86	1,753.24	86.63	21.239	
7,750.00	7,239.41	7,343.53	6,289.69	48.54	71.66	-34.93	1,612.11	3,076.41	1,850.81	1,764.61	86.21	21.469	
7,800.00	7,284.72	7,382.17	6,320.85	48.56	72.13	-41.66	1,622.91	3,096.55	1,861.43	1,775.79	85.64	21.737	
7,850.00	7,328.47	7,418.18	6,349.89	48.54	72.57	-46.58	1,632.98	3,115.31	1,871.78	1,786.85	84.92	22.041	
7,900.00	7,370.32	7,451.28	6,376.58	48.47	72.98	-50.20	1,642.23	3,132.57	1,881.95	1,797.87	84.08	22.383	
7,950.00	7,409.96	7,481.23	6,400.73	48.37	73.35	-52.89	1,650.60	3,148.17	1,892.04	1,808.92	83.13	22.761	
8,000.00	7,447.08	7,507.79	6,422.15	48.24	73.67	-54.86	1,658.03	3,162.01	1,902.12	1,820.04	82.08	23.175	
8,050.00	7,481.41	7,530.75	6,440.67	48.07	73.96	-56.27	1,664.45	3,173.98	1,912.25	1,831.29	80.96	23.621	
8,100.00	7,512.67	7,549.96	6,456.16	47.87	74.19	-57.21	1,669.82	3,183.99	1,922.50	1,842.71	79.79	24.095	
8,150.00	7,540.64	7,565.26	6,468.49	47.65	74.38	-57.74	1,674.10	3,191.96	1,932.89	1,854.30	78.59	24.594	
8,200.00	7,565.09	7,576.53	6,477.58	47.40	74.52	-57.91	1,677.25	3,197.83	1,943.44	1,866.05	77.40	25.110	
8,250.00	7,585.85	7,583.69	6,483.35	47.14	74.61	-57.76	1,679.25	3,201.56	1,954.14	1,877.92	76.23	25.637	
8,300.00	7,602.75	7,586.68	6,485.77	46.86	74.64	-57.31	1,680.09	3,203.12	1,964.96	1,889.86	75.10	26.165	
8,350.00	7,615.67	7,585.49	6,484.80	46.58	74.63	-56.59	1,679.75	3,202.50	1,975.81	1,901.78	74.04	26.687	
8,400.00	7,624.51	7,580.11	6,480.47	46.28	74.56	-55.63	1,678.25	3,199.70	1,986.62	1,913.57	73.05	27.194	
8,450.00	7,629.19	7,570.60	6,472.80	45.98	74.45	-54.45	1,675.59	3,194.74	1,997.27	1,925.11	72.17	27.676	
8,481.00	7,630.00	7,562.65	6,466.39	45.79	74.35	-53.63	1,673.37	3,190.60	2,003.74	1,932.07	71.67	27.959	
8,500.00	7,630.00	7,557.30	6,462.08	45.68	74.28	-53.48	1,671.87	3,187.81	2,007.74	1,936.36	71.38	28.127	
8,600.00	7,630.00	7,529.17	6,439.39	45.11	73.94	-52.69	1,664.01	3,173.15	2,031.36	1,961.20	70.16	28.954	
8,700.00	7,630.00	7,501.03	6,416.70	44.56	73.59	-51.91	1,656.14	3,158.49	2,059.18	1,989.79	69.40	29.673	
8,800.00	7,630.00	7,472.90	6,394.02	44.05	73.25	-51.13	1,648.28	3,143.83	2,091.05	2,021.98	69.07	30.275	
8,900.00	7,630.00	7,444.76	6,371.33	43.57	72.90	-50.35	1,640.41	3,129.17	2,126.76	2,057.63	69.14	30.762	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,000.00	7,630.00	7,416.63	6,348.64	43.12	72.55	-49.57	1,632.54	3,114.51	2,166.15	2,096.60	69.55	31.145	
9,100.00	7,630.00	7,388.50	6,325.95	42.70	72.21	-48.79	1,624.68	3,099.85	2,209.00	2,138.74	70.26	31.442	
9,200.00	7,630.00	7,360.36	6,303.26	42.31	71.86	-48.02	1,616.81	3,085.18	2,255.12	2,183.93	71.20	31.675	
9,300.00	7,630.00	7,332.23	6,280.58	41.94	71.52	-47.25	1,608.95	3,070.52	2,304.32	2,232.01	72.32	31.864	
9,400.00	7,630.00	10,277.32	7,630.00	41.59	83.38	-90.02	338.42	3,936.72	2,329.35	2,249.57	79.78	29.197	
9,500.00	7,630.00	10,377.32	7,630.00	41.26	83.16	-90.02	238.42	3,936.38	2,329.35	2,249.20	80.15	29.063	
9,600.00	7,630.00	10,477.32	7,630.00	40.96	82.96	-90.02	138.42	3,936.05	2,329.35	2,248.68	80.67	28.875	
9,700.00	7,630.00	10,577.32	7,630.00	40.68	82.78	-90.02	38.42	3,935.71	2,329.35	2,248.01	81.34	28.636	
9,800.00	7,630.00	10,677.32	7,630.00	40.42	82.62	-90.02	-61.58	3,935.38	2,329.36	2,247.19	82.16	28.350	
9,900.00	7,630.00	10,777.32	7,630.00	40.17	82.48	-90.02	-161.58	3,935.04	2,329.36	2,246.23	83.13	28.022	
10,000.00	7,630.00	10,877.32	7,630.00	39.96	82.35	-90.02	-261.58	3,934.71	2,329.36	2,245.14	84.23	27.656	
10,100.00	7,630.00	10,977.32	7,630.00	40.05	82.24	-90.02	-361.58	3,934.37	2,329.36	2,243.91	85.46	27.258	
10,200.00	7,630.00	11,077.32	7,630.00	40.95	82.16	-90.02	-461.57	3,934.03	2,329.37	2,242.55	86.82	26.831	
10,300.00	7,630.00	11,177.32	7,630.00	41.94	82.09	-90.02	-561.57	3,933.70	2,329.37	2,241.08	88.29	26.382	
10,400.00	7,630.00	11,277.32	7,630.00	42.98	82.05	-90.02	-661.57	3,933.36	2,329.37	2,239.48	89.89	25.915	
10,500.00	7,630.00	11,377.32	7,630.00	44.06	82.03	-90.02	-761.57	3,933.03	2,329.37	2,237.79	91.59	25.433	
10,600.00	7,630.00	11,477.32	7,630.00	45.17	82.03	-90.02	-861.57	3,932.69	2,329.38	2,235.98	93.39	24.941	
10,700.00	7,630.00	11,577.32	7,630.00	46.32	82.05	-90.02	-961.57	3,932.36	2,329.38	2,234.09	95.29	24.444	
10,800.00	7,630.00	11,677.32	7,630.00	47.50	82.11	-90.02	-1,061.57	3,932.02	2,329.38	2,232.10	97.28	23.944	
10,900.00	7,630.00	11,777.32	7,630.00	48.70	82.19	-90.02	-1,161.57	3,931.68	2,329.38	2,230.02	99.36	23.444	
11,000.00	7,630.00	11,877.32	7,630.00	49.94	82.30	-90.02	-1,261.57	3,931.35	2,329.39	2,227.87	101.52	22.945	
11,100.00	7,630.00	11,977.32	7,630.00	51.20	82.44	-90.02	-1,361.57	3,931.01	2,329.39	2,225.64	103.75	22.452	
11,200.00	7,630.00	12,077.32	7,630.00	52.48	82.62	-90.02	-1,461.57	3,930.68	2,329.39	2,223.34	106.05	21.964	
11,300.00	7,630.00	12,177.32	7,630.00	53.79	82.83	-90.02	-1,561.57	3,930.34	2,329.39	2,220.97	108.42	21.485	
11,400.00	7,630.00	12,277.32	7,630.00	55.12	83.08	-90.02	-1,661.57	3,930.01	2,329.39	2,218.54	110.85	21.013	
11,500.00	7,630.00	12,377.32	7,630.00	56.46	83.37	-90.02	-1,761.57	3,929.67	2,329.40	2,216.06	113.34	20.552	
11,600.00	7,630.00	12,477.32	7,630.00	57.83	83.71	-90.02	-1,861.57	3,929.33	2,329.40	2,213.52	115.88	20.101	
11,700.00	7,630.00	12,577.32	7,630.00	59.22	84.08	-90.02	-1,961.57	3,929.00	2,329.40	2,210.93	118.48	19.661	
11,800.00	7,630.00	12,677.32	7,630.00	60.62	84.51	-90.02	-2,061.57	3,928.66	2,329.40	2,208.29	121.12	19.233	
11,900.00	7,630.00	12,777.32	7,630.00	62.04	84.98	-90.02	-2,161.57	3,928.33	2,329.41	2,205.60	123.80	18.816	
12,000.00	7,630.00	12,877.32	7,630.00	63.48	85.51	-90.02	-2,261.56	3,927.99	2,329.41	2,202.88	126.53	18.410	
12,100.00	7,630.00	12,977.32	7,630.00	64.93	86.08	-90.02	-2,361.56	3,927.65	2,329.41	2,200.12	129.29	18.016	
12,200.00	7,630.00	13,077.32	7,630.00	66.39	86.71	-90.02	-2,461.56	3,927.32	2,329.41	2,197.32	132.10	17.634	
12,300.00	7,630.00	13,177.32	7,630.00	67.86	87.39	-90.02	-2,561.56	3,926.98	2,329.42	2,194.48	134.93	17.264	
12,400.00	7,630.00	13,277.32	7,630.00	69.35	88.13	-90.02	-2,661.56	3,926.65	2,329.42	2,191.62	137.80	16.904	
12,500.00	7,630.00	13,377.32	7,630.00	70.85	88.91	-90.02	-2,761.56	3,926.31	2,329.42	2,188.72	140.70	16.556	
12,600.00	7,630.00	13,477.32	7,630.00	72.36	89.75	-90.02	-2,861.56	3,925.98	2,329.42	2,185.80	143.63	16.219	
12,700.00	7,630.00	13,577.32	7,630.00	73.88	90.63	-90.02	-2,961.56	3,925.64	2,329.42	2,182.85	146.58	15.892	
12,800.00	7,630.00	13,677.32	7,630.00	75.41	91.56	-90.02	-3,061.56	3,925.30	2,329.43	2,179.87	149.56	15.575	
12,900.00	7,630.00	13,777.32	7,630.00	76.95	92.54	-90.02	-3,161.56	3,924.97	2,329.43	2,176.87	152.56	15.269	
13,000.00	7,630.00	13,877.32	7,630.00	78.49	93.56	-90.02	-3,261.56	3,924.63	2,329.43	2,173.85	155.59	14.972	
13,100.00	7,630.00	13,977.32	7,630.00	80.05	94.62	-90.02	-3,361.56	3,924.30	2,329.43	2,170.80	158.63	14.685	
13,200.00	7,630.00	14,077.32	7,630.00	81.61	95.71	-90.02	-3,461.56	3,923.96	2,329.44	2,167.74	161.70	14.406	
13,300.00	7,630.00	14,177.32	7,630.00	83.18	96.85	-90.02	-3,561.56	3,923.63	2,329.44	2,164.66	164.78	14.137	
13,400.00	7,630.00	14,277.32	7,630.00	84.76	98.01	-90.02	-3,661.56	3,923.29	2,329.44	2,161.56	167.88	13.875	
13,500.00	7,630.00	14,377.32	7,630.00	86.34	99.21	-90.02	-3,761.56	3,922.95	2,329.44	2,158.44	171.00	13.622	
13,600.00	7,630.00	14,477.32	7,630.00	87.94	100.43	-90.02	-3,861.56	3,922.62	2,329.45	2,155.31	174.14	13.377	
13,700.00	7,630.00	14,577.32	7,630.00	89.53	101.69	-90.02	-3,961.56	3,922.28	2,329.45	2,152.16	177.29	13.140	
13,800.00	7,630.00	14,677.32	7,630.00	91.13	102.96	-90.02	-4,061.55	3,921.95	2,329.45	2,149.00	180.45	12.909	
13,900.00	7,630.00	14,777.32	7,630.00	92.74	104.26	-90.02	-4,161.55	3,921.61	2,329.45	2,145.83	183.63	12.686	
14,000.00	7,630.00	14,877.32	7,630.00	94.35	105.59	-90.02	-4,261.55	3,921.27	2,329.45	2,142.64	186.82	12.469	
14,100.00	7,630.00	14,977.32	7,630.00	95.97	106.93	-90.02	-4,361.55	3,920.94	2,329.46	2,139.44	190.02	12.259	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,200.00	7,630.00	15,077.32	7,630.00	97.60	108.29	-90.02	-4,461.55	3,920.60	2,329.46	2,136.23	193.23	12.055	
14,300.00	7,630.00	15,177.32	7,630.00	99.22	109.67	-90.02	-4,561.55	3,920.27	2,329.46	2,133.00	196.46	11.857	
14,400.00	7,630.00	15,277.32	7,630.00	100.85	111.06	-90.02	-4,661.55	3,919.93	2,329.46	2,129.77	199.69	11.665	
14,500.00	7,630.00	15,377.32	7,630.00	102.49	112.47	-90.02	-4,761.55	3,919.60	2,329.47	2,126.53	202.94	11.479	
14,600.00	7,630.00	15,477.32	7,630.00	104.13	113.89	-90.02	-4,861.55	3,919.26	2,329.47	2,123.28	206.19	11.297	
14,700.00	7,630.00	15,577.32	7,630.00	105.77	115.33	-90.02	-4,961.55	3,918.92	2,329.47	2,120.01	209.46	11.121	
14,800.00	7,630.00	15,677.32	7,630.00	107.42	116.78	-90.02	-5,061.55	3,918.59	2,329.47	2,116.74	212.73	10.950	
14,900.00	7,630.00	15,777.32	7,630.00	109.07	118.24	-90.02	-5,161.55	3,918.25	2,329.48	2,113.47	216.01	10.784	
15,000.00	7,630.00	15,877.32	7,630.00	110.72	119.71	-90.02	-5,261.55	3,917.92	2,329.48	2,110.18	219.30	10.622	
15,100.00	7,630.00	15,977.32	7,630.00	112.38	121.19	-90.02	-5,361.55	3,917.58	2,329.48	2,106.89	222.60	10.465	
15,200.00	7,630.00	16,077.32	7,630.00	114.04	122.69	-90.02	-5,461.55	3,917.25	2,329.48	2,103.58	225.90	10.312	
15,300.00	7,630.00	16,177.32	7,630.00	115.71	124.19	-90.02	-5,561.55	3,916.91	2,329.49	2,100.28	229.21	10.163	
15,400.00	7,630.00	16,277.32	7,630.00	117.37	125.70	-90.02	-5,661.55	3,916.57	2,329.49	2,096.96	232.53	10.018	
15,500.00	7,630.00	16,377.32	7,630.00	119.04	127.22	-90.02	-5,761.54	3,916.24	2,329.49	2,093.64	235.85	9.877	
15,600.00	7,630.00	16,477.32	7,630.00	120.71	128.74	-90.02	-5,861.54	3,915.90	2,329.49	2,090.31	239.18	9.740	
15,700.00	7,630.00	16,577.32	7,630.00	122.39	130.27	-90.02	-5,961.54	3,915.57	2,329.49	2,086.98	242.51	9.606	
15,800.00	7,630.00	16,677.32	7,630.00	124.06	131.81	-90.02	-6,061.54	3,915.23	2,329.50	2,083.64	245.85	9.475	
15,900.00	7,630.00	16,777.32	7,630.00	125.74	133.36	-90.02	-6,161.54	3,914.90	2,329.50	2,080.30	249.20	9.348	
16,000.00	7,630.00	16,877.32	7,630.00	127.42	134.91	-90.02	-6,261.54	3,914.56	2,329.50	2,076.95	252.55	9.224	
16,100.00	7,630.00	16,977.32	7,630.00	129.10	136.47	-90.02	-6,361.54	3,914.22	2,329.50	2,073.60	255.91	9.103	
16,200.00	7,630.00	17,077.32	7,630.00	130.79	138.04	-90.02	-6,461.54	3,913.89	2,329.51	2,070.24	259.27	8.985	
16,300.00	7,630.00	17,177.32	7,630.00	132.48	139.61	-90.02	-6,561.54	3,913.55	2,329.51	2,066.88	262.63	8.870	
16,400.00	7,630.00	17,277.32	7,630.00	134.17	141.18	-90.02	-6,661.54	3,913.22	2,329.51	2,063.51	266.00	8.757	
16,500.00	7,630.00	17,377.32	7,630.00	135.86	142.77	-90.02	-6,761.54	3,912.88	2,329.51	2,060.14	269.38	8.648	
16,600.00	7,630.00	17,477.32	7,630.00	137.55	144.35	-90.02	-6,861.54	3,912.54	2,329.52	2,056.76	272.75	8.541	
16,700.00	7,630.00	17,577.32	7,630.00	139.24	145.94	-90.02	-6,961.54	3,912.21	2,329.52	2,053.38	276.14	8.436	
16,800.00	7,630.00	17,677.32	7,630.00	140.94	147.54	-90.02	-7,061.54	3,911.87	2,329.52	2,050.00	279.52	8.334	
16,900.00	7,630.00	17,777.32	7,630.00	142.64	149.14	-90.02	-7,161.54	3,911.54	2,329.52	2,046.61	282.91	8.234	
17,000.00	7,630.00	17,877.32	7,630.00	144.34	150.74	-90.02	-7,261.54	3,911.20	2,329.52	2,043.22	286.30	8.137	
17,100.00	7,630.00	17,977.32	7,630.00	146.04	152.35	-90.02	-7,361.54	3,910.87	2,329.53	2,039.83	289.70	8.041	
17,200.00	7,630.00	18,077.32	7,630.00	147.74	153.96	-90.02	-7,461.54	3,910.53	2,329.53	2,036.43	293.10	7.948	
17,300.00	7,630.00	18,177.32	7,630.00	149.44	155.57	-90.02	-7,561.53	3,910.19	2,329.53	2,033.03	296.50	7.857	
17,400.00	7,630.00	18,277.32	7,630.00	151.15	157.19	-90.02	-7,661.53	3,909.86	2,329.53	2,029.63	299.91	7.768	
17,500.00	7,630.00	18,377.32	7,630.00	152.86	158.81	-90.02	-7,761.53	3,909.52	2,329.54	2,026.22	303.32	7.680	
17,600.00	7,630.00	18,477.32	7,630.00	154.56	160.43	-90.02	-7,861.53	3,909.19	2,329.54	2,022.81	306.73	7.595	
17,700.00	7,630.00	18,577.32	7,630.00	156.27	162.06	-90.02	-7,961.53	3,908.85	2,329.54	2,019.40	310.14	7.511	
17,800.00	7,630.00	18,677.32	7,630.00	157.98	163.69	-90.02	-8,061.53	3,908.52	2,329.54	2,015.98	313.56	7.429	
17,900.00	7,630.00	18,777.32	7,630.00	159.70	165.33	-90.02	-8,161.53	3,908.18	2,329.55	2,012.57	316.98	7.349	
18,000.00	7,630.00	18,877.32	7,630.00	161.41	166.96	-90.02	-8,261.53	3,907.84	2,329.55	2,009.15	320.40	7.271	
18,100.00	7,630.00	18,977.32	7,630.00	163.12	168.60	-90.02	-8,361.53	3,907.51	2,329.55	2,005.73	323.82	7.194	
18,101.93	7,630.00	18,979.25	7,630.00	163.15	168.63	-90.02	-8,363.46	3,907.50	2,329.55	2,005.66	323.89	7.192	
18,154.00	7,630.00	19,021.79	7,630.00	164.05	169.33	-90.02	-8,406.00	3,907.36	2,329.57	2,003.81	325.76	7.151	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	90.52	-0.73	80.08	80.08				
100.00	100.00	101.00	99.00	0.13	0.14	90.52	-0.73	80.08	80.08	79.81	0.27	293.953	
200.00	200.00	201.00	199.00	0.49	0.50	90.52	-0.73	80.08	80.08	79.09	0.99	80.944	
300.00	300.00	301.00	299.00	0.85	0.85	90.52	-0.73	80.08	80.08	78.38	1.71	46.934	
400.00	400.00	401.00	399.00	1.21	1.21	90.52	-0.73	80.08	80.08	77.66	2.42	33.048	
500.00	500.00	501.00	499.00	1.57	1.57	90.52	-0.73	80.08	80.08	76.94	3.14	25.503	
600.00	600.00	599.00	599.00	1.93	1.92	90.52	-0.73	80.08	80.08	76.23	3.85	20.801	CC, ES
700.00	700.00	696.55	696.53	2.29	2.27	90.01	-0.01	81.54	81.58	77.02	4.55	17.917	
800.00	800.00	793.85	793.71	2.64	2.61	88.56	2.16	85.96	86.15	80.90	5.25	16.410	
900.00	900.00	890.71	890.21	3.00	2.96	86.46	5.77	93.31	93.90	87.95	5.94	15.800	
1,000.00	1,000.00	986.91	985.73	3.36	3.32	84.05	10.78	103.49	104.89	98.27	6.63	15.823	
1,100.00	1,100.00	1,082.23	1,079.96	3.72	3.69	81.63	17.14	116.42	119.20	111.90	7.31	16.314	
1,200.00	1,200.00	1,176.50	1,172.61	4.08	4.08	79.37	24.78	131.96	136.83	128.86	7.97	17.160	
1,300.00	1,300.00	1,269.51	1,263.43	4.44	4.49	77.36	33.63	149.97	157.76	149.13	8.63	18.281	
1,400.00	1,400.00	1,361.10	1,352.18	4.79	4.92	75.63	43.62	170.28	181.91	172.64	9.27	19.624	
1,500.00	1,499.98	1,451.55	1,439.06	5.15	5.38	36.31	54.70	192.82	207.85	197.96	9.90	21.003	
1,600.00	1,599.84	1,541.19	1,524.35	5.51	5.87	35.43	66.87	217.59	234.12	223.61	10.51	22.276	
1,700.00	1,699.45	1,630.05	1,608.00	5.87	6.39	34.99	80.10	244.48	260.62	249.50	11.12	23.439	
1,800.00	1,798.70	1,718.11	1,689.94	6.23	6.95	34.85	94.32	273.42	287.30	275.58	11.73	24.502	
1,900.00	1,897.47	1,805.39	1,770.14	6.60	7.55	34.95	109.51	304.32	314.14	301.81	12.33	25.472	
2,000.00	1,995.62	1,891.89	1,848.54	6.99	8.18	35.20	125.62	337.09	341.13	328.18	12.95	26.350	
2,100.00	2,093.06	1,977.61	1,925.12	7.39	8.87	35.58	142.61	371.65	368.26	354.69	13.57	27.136	
2,200.00	2,189.64	2,062.55	1,999.84	7.82	9.59	36.06	160.44	407.90	395.54	381.33	14.21	27.833	
2,300.00	2,285.27	2,146.74	2,072.68	8.28	10.35	36.60	179.06	445.79	422.98	408.11	14.87	28.436	
2,400.00	2,379.82	2,230.18	2,143.62	8.77	11.15	37.19	198.44	485.21	450.58	435.01	15.57	28.942	
2,500.00	2,473.17	2,312.88	2,212.63	9.31	11.99	37.82	218.54	526.09	478.36	462.06	16.30	29.347	
2,600.00	2,565.21	2,394.85	2,279.71	9.88	12.87	38.47	239.33	568.37	506.31	489.23	17.08	29.644	
2,660.67	2,620.37	2,446.81	2,321.56	10.25	13.46	38.91	252.92	596.01	523.32	505.70	17.63	29.692	
2,700.00	2,655.96	2,484.36	2,351.70	10.50	13.88	39.39	262.79	616.09	534.24	516.17	18.06	29.578	
2,800.00	2,746.43	2,579.82	2,428.35	11.15	14.98	40.52	287.90	667.16	562.12	542.91	19.21	29.265	
2,900.00	2,836.90	2,675.28	2,505.00	11.82	16.10	41.55	313.00	718.23	590.20	569.80	20.40	28.938	
3,000.00	2,927.37	2,770.75	2,581.65	12.50	17.22	42.48	338.11	769.29	618.43	596.81	21.62	28.605	
3,100.00	3,017.85	2,866.21	2,658.30	13.21	18.36	43.33	363.21	820.36	646.80	623.92	22.88	28.274	
3,200.00	3,108.32	2,961.67	2,734.95	13.92	19.50	44.11	388.32	871.42	675.29	651.13	24.16	27.950	
3,300.00	3,198.79	3,057.13	2,811.60	14.64	20.65	44.83	413.42	922.49	703.89	678.42	25.47	27.635	
3,400.00	3,289.27	3,152.60	2,888.25	15.38	21.80	45.49	438.53	973.55	732.58	705.78	26.80	27.332	
3,500.00	3,379.74	3,248.06	2,964.90	16.12	22.96	46.10	463.64	1,024.62	761.36	733.20	28.16	27.041	
3,600.00	3,470.21	3,343.52	3,041.55	16.87	24.12	46.67	488.74	1,075.69	790.21	760.68	29.52	26.764	
3,700.00	3,560.68	3,438.99	3,118.20	17.62	25.28	47.20	513.85	1,126.75	819.13	788.22	30.91	26.500	
3,800.00	3,651.16	3,534.45	3,194.85	18.39	26.45	47.69	538.95	1,177.82	848.10	815.79	32.31	26.249	
3,900.00	3,741.63	3,629.91	3,271.50	19.15	27.62	48.15	564.06	1,228.88	877.13	843.41	33.72	26.011	
4,000.00	3,832.10	3,725.37	3,348.15	19.92	28.79	48.58	589.16	1,279.95	906.21	871.07	35.15	25.785	
4,100.00	3,922.57	3,820.84	3,424.80	20.69	29.96	48.98	614.27	1,331.01	935.34	898.76	36.58	25.571	
4,200.00	4,013.05	3,916.30	3,501.45	21.47	31.14	49.36	639.37	1,382.08	964.50	926.48	38.02	25.368	
4,300.00	4,103.52	4,011.76	3,578.10	22.25	32.32	49.72	664.48	1,433.15	993.70	954.23	39.47	25.175	
4,400.00	4,193.99	4,107.23	3,654.75	23.03	33.50	50.05	689.58	1,484.21	1,022.93	982.00	40.93	24.992	
4,500.00	4,284.47	4,202.69	3,731.40	23.81	34.68	50.37	714.69	1,535.28	1,052.20	1,009.80	42.40	24.819	
4,600.00	4,374.94	4,301.85	3,808.05	24.60	35.90	50.67	739.80	1,586.34	1,081.49	1,037.60	43.89	24.638	
4,700.00	4,465.41	4,406.39	3,884.70	25.39	37.20	50.96	764.90	1,637.41	1,110.81	1,065.37	45.44	24.445	
4,800.00	4,555.88	4,489.08	3,961.35	26.18	38.22	51.23	790.01	1,688.47	1,140.15	1,093.32	46.83	24.348	
4,900.00	4,646.36	4,584.54	4,038.00	26.97	39.41	51.49	815.11	1,739.54	1,169.51	1,121.20	48.31	24.207	
5,000.00	4,736.83	4,680.00	4,114.65	27.76	40.59	51.73	840.22	1,790.61	1,198.90	1,149.09	49.81	24.072	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	4,775.47	4,191.30	28.55	41.78	51.96	865.32	1,841.67	1,228.30	1,177.00	51.30	23.943	
5,200.00	4,917.77	4,870.93	4,267.95	29.35	42.96	52.18	890.43	1,892.74	1,257.72	1,204.92	52.80	23.820	
5,300.00	5,008.25	4,966.39	4,344.59	30.15	44.15	52.40	915.53	1,943.80	1,287.16	1,232.86	54.30	23.703	
5,400.00	5,098.72	5,061.86	4,421.24	30.94	45.33	52.60	940.64	1,994.87	1,316.61	1,260.81	55.81	23.591	
5,500.00	5,189.19	5,157.32	4,497.89	31.74	46.52	52.79	965.74	2,045.93	1,346.08	1,288.76	57.32	23.484	
5,600.00	5,279.67	5,252.78	4,574.54	32.54	47.71	52.98	990.85	2,097.00	1,375.56	1,316.73	58.83	23.382	
5,700.00	5,370.14	5,348.24	4,651.19	33.34	48.90	53.15	1,015.96	2,148.07	1,405.06	1,344.71	60.35	23.284	
5,800.00	5,460.61	5,443.71	4,727.84	34.14	50.09	53.32	1,041.06	2,199.13	1,434.56	1,372.70	61.86	23.190	
5,900.00	5,551.08	5,539.17	4,804.49	34.94	51.28	53.49	1,066.17	2,250.20	1,464.08	1,400.70	63.38	23.099	
6,000.00	5,641.56	5,634.63	4,881.14	35.75	52.47	53.65	1,091.27	2,301.26	1,493.61	1,428.70	64.90	23.013	
6,100.00	5,732.03	5,730.10	4,957.79	36.55	53.66	53.80	1,116.38	2,352.33	1,523.14	1,456.72	66.43	22.930	
6,200.00	5,822.50	5,825.56	5,034.44	37.35	54.85	53.94	1,141.48	2,403.39	1,552.69	1,484.74	67.95	22.850	
6,300.00	5,912.97	5,921.02	5,111.09	38.16	56.04	54.08	1,166.59	2,454.46	1,582.24	1,512.76	69.48	22.773	
6,400.00	6,003.45	6,016.49	5,187.74	38.96	57.23	54.22	1,191.69	2,505.53	1,611.81	1,540.80	71.01	22.699	
6,500.00	6,093.92	6,111.95	5,264.39	39.77	58.42	54.34	1,216.80	2,556.59	1,641.38	1,568.84	72.54	22.628	
6,600.00	6,184.39	6,207.41	5,341.04	40.57	59.61	54.47	1,241.90	2,607.66	1,670.96	1,596.89	74.07	22.559	
6,700.00	6,274.87	6,302.87	5,417.69	41.38	60.80	54.59	1,267.01	2,658.72	1,700.54	1,624.94	75.60	22.493	
6,800.00	6,365.34	6,401.66	5,494.34	42.18	62.03	54.71	1,292.12	2,709.79	1,730.13	1,652.97	77.17	22.421	
6,900.00	6,455.81	6,506.20	5,570.99	42.99	63.34	54.82	1,317.22	2,760.85	1,759.73	1,680.96	78.77	22.339	
7,000.00	6,546.28	6,589.26	5,647.64	43.80	64.37	54.93	1,342.33	2,811.92	1,789.34	1,709.12	80.21	22.308	
7,100.00	6,636.76	6,684.73	5,724.29	44.61	65.57	55.03	1,367.43	2,862.99	1,818.95	1,737.20	81.75	22.250	
7,200.00	6,727.23	6,780.19	5,800.94	45.41	66.76	55.14	1,392.54	2,914.05	1,848.56	1,765.27	83.29	22.195	
7,300.00	6,817.70	6,875.65	5,877.59	46.22	67.95	55.24	1,417.64	2,965.12	1,878.18	1,793.35	84.83	22.141	
7,383.79	6,893.51	6,955.64	5,941.81	46.90	68.95	55.32	1,438.68	3,007.90	1,903.01	1,816.88	86.12	22.097	
7,400.00	6,908.25	6,971.13	5,954.25	47.03	69.14	53.47	1,442.75	3,016.19	1,907.79	1,821.42	86.36	22.091	
7,450.00	6,954.52	7,018.94	5,992.64	47.40	69.74	45.93	1,455.33	3,041.77	1,922.21	1,835.21	87.00	22.094	
7,500.00	7,001.74	7,066.53	6,030.85	47.72	70.34	35.03	1,467.84	3,067.23	1,936.10	1,848.62	87.48	22.133	
7,550.00	7,049.55	7,113.55	6,068.61	47.99	70.92	20.61	1,480.21	3,092.38	1,949.37	1,861.59	87.78	22.207	
7,600.00	7,097.58	7,159.63	6,105.61	48.21	71.50	4.23	1,492.33	3,117.03	1,962.00	1,874.08	87.91	22.317	
7,650.00	7,145.48	7,204.43	6,141.57	48.37	72.06	-11.18	1,504.11	3,140.99	1,973.98	1,886.10	87.88	22.463	
7,700.00	7,192.88	7,247.59	6,176.23	48.48	72.60	-23.61	1,515.46	3,164.08	1,985.33	1,897.65	87.68	22.643	
7,750.00	7,239.41	7,288.80	6,209.32	48.54	73.11	-32.85	1,526.30	3,186.12	1,996.09	1,908.77	87.32	22.860	
7,800.00	7,284.72	7,327.74	6,240.59	48.56	73.60	-39.58	1,536.54	3,206.95	2,006.32	1,919.51	86.81	23.111	
7,850.00	7,328.47	7,364.12	6,269.79	48.54	74.05	-44.50	1,546.10	3,226.41	2,016.09	1,929.93	86.16	23.399	
7,900.00	7,370.32	7,397.65	6,296.71	48.47	74.47	-48.16	1,554.92	3,244.35	2,025.48	1,940.10	85.38	23.722	
7,950.00	7,409.96	7,428.08	6,321.15	48.37	74.85	-50.91	1,562.92	3,260.63	2,034.57	1,950.08	84.49	24.080	
8,000.00	7,447.08	7,455.18	6,342.91	48.24	75.19	-52.98	1,570.05	3,275.12	2,043.44	1,959.94	83.50	24.473	
8,050.00	7,481.41	7,478.75	6,361.83	48.07	75.49	-54.50	1,576.25	3,287.73	2,052.16	1,969.73	82.43	24.897	
8,100.00	7,512.67	7,501.40	6,377.77	47.87	75.77	-55.59	1,581.47	3,298.35	2,060.78	1,979.47	81.31	25.344	
8,150.00	7,540.64	7,514.58	6,390.61	47.65	75.93	-56.30	1,585.67	3,306.90	2,069.36	1,989.24	80.12	25.827	
8,200.00	7,565.09	7,526.58	6,400.24	47.40	76.08	-56.67	1,588.83	3,313.32	2,077.93	1,998.99	78.94	26.323	
8,250.00	7,585.85	7,534.50	6,406.59	47.14	76.18	-56.75	1,590.91	3,317.55	2,086.47	2,008.71	77.76	26.832	
8,300.00	7,602.75	7,538.27	6,409.63	46.86	76.23	-56.55	1,591.90	3,319.57	2,094.99	2,018.37	76.61	27.346	
8,350.00	7,615.67	7,537.88	6,409.31	46.58	76.23	-56.11	1,591.80	3,319.36	2,103.42	2,027.92	75.51	27.857	
8,400.00	7,624.51	7,533.32	6,405.65	46.28	76.17	-55.44	1,590.60	3,316.92	2,111.72	2,037.25	74.47	28.356	
8,450.00	7,629.19	7,524.63	6,398.67	45.98	76.06	-54.56	1,588.32	3,312.28	2,119.80	2,046.28	73.51	28.836	
8,481.00	7,630.00	7,517.20	6,392.70	45.79	75.97	-53.92	1,586.36	3,308.30	2,124.64	2,051.68	72.96	29.120	
8,500.00	7,630.00	7,512.17	6,388.67	45.68	75.90	-53.79	1,585.04	3,305.61	2,127.64	2,055.00	72.64	29.289	
8,600.00	7,630.00	7,485.69	6,367.40	45.11	75.57	-53.09	1,578.07	3,291.44	2,145.94	2,074.72	71.22	30.130	
8,700.00	7,630.00	7,459.21	6,346.14	44.56	75.24	-52.40	1,571.11	3,277.28	2,168.38	2,098.14	70.23	30.874	
8,800.00	7,630.00	7,432.73	6,324.88	44.05	74.91	-51.71	1,564.15	3,263.11	2,194.82	2,125.16	69.67	31.504	
8,900.00	7,630.00	7,406.25	6,303.62	43.57	74.58	-51.01	1,557.18	3,248.95	2,225.14	2,155.64	69.50	32.014	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,000.00	7,630.00	7,379.77	6,282.36	43.12	74.25	-50.32	1,550.22	3,234.78	2,259.17	2,189.47	69.70	32.411	
9,100.00	7,630.00	7,353.29	6,261.10	42.70	73.92	-49.63	1,543.26	3,220.62	2,296.75	2,226.52	70.22	32.706	
9,200.00	7,630.00	7,326.81	6,239.84	42.31	73.59	-48.95	1,536.29	3,206.46	2,337.70	2,266.69	71.01	32.920	
9,300.00	7,630.00	7,300.33	6,218.58	41.94	73.26	-48.26	1,529.33	3,192.29	2,381.85	2,309.83	72.02	33.072	
9,400.00	7,630.00	7,273.85	6,197.32	41.59	72.93	-47.58	1,522.37	3,178.13	2,429.03	2,355.84	73.20	33.184	
9,500.00	7,630.00	7,247.37	6,176.06	41.26	72.60	-46.90	1,515.40	3,163.96	2,479.07	2,404.57	74.50	33.275	
9,600.00	7,630.00	7,220.90	6,154.79	40.96	72.26	-46.22	1,508.44	3,149.80	2,531.79	2,455.90	75.89	33.361	
9,700.00	7,630.00	7,194.42	6,133.53	40.68	71.93	-45.55	1,501.47	3,135.63	2,587.04	2,509.71	77.33	33.455	
9,800.00	7,630.00	7,167.94	6,112.27	40.42	71.60	-44.88	1,494.51	3,121.47	2,644.64	2,565.85	78.79	33.565	
9,900.00	7,630.00	11,140.67	7,870.00	40.17	89.95	-95.14	-162.78	4,284.98	2,690.12	2,608.53	81.58	32.974	
10,000.00	7,630.00	11,240.67	7,870.00	39.96	89.83	-95.14	-262.78	4,284.64	2,690.12	2,607.48	82.63	32.555	
10,100.00	7,630.00	11,340.67	7,870.00	40.05	89.73	-95.14	-362.78	4,284.31	2,690.12	2,606.30	83.82	32.094	
10,200.00	7,630.00	11,440.67	7,870.00	40.95	89.64	-95.14	-462.78	4,283.97	2,690.12	2,604.98	85.13	31.598	
10,300.00	7,630.00	11,540.67	7,870.00	41.94	89.58	-95.14	-562.78	4,283.63	2,690.12	2,603.55	86.57	31.074	
10,400.00	7,630.00	11,640.67	7,870.00	42.98	89.53	-95.14	-662.78	4,283.29	2,690.12	2,601.99	88.13	30.525	
10,500.00	7,630.00	11,740.67	7,870.00	44.06	89.51	-95.14	-762.78	4,282.96	2,690.12	2,600.33	89.79	29.959	
10,600.00	7,630.00	11,840.67	7,870.00	45.17	89.50	-95.14	-862.78	4,282.62	2,690.12	2,598.56	91.57	29.379	
10,700.00	7,630.00	11,940.67	7,870.00	46.32	89.52	-95.14	-962.78	4,282.28	2,690.12	2,596.69	93.43	28.792	
10,800.00	7,630.00	12,040.67	7,870.00	47.50	89.55	-95.14	-1,062.78	4,281.95	2,690.13	2,594.73	95.39	28.200	
10,900.00	7,630.00	12,140.67	7,870.00	48.70	89.61	-95.14	-1,162.78	4,281.61	2,690.13	2,592.68	97.44	27.607	
11,000.00	7,630.00	12,240.67	7,870.00	49.94	89.70	-95.14	-1,262.78	4,281.27	2,690.13	2,590.55	99.58	27.016	
11,100.00	7,630.00	12,340.67	7,870.00	51.20	89.81	-95.14	-1,362.78	4,280.94	2,690.13	2,588.35	101.78	26.430	
11,200.00	7,630.00	12,440.67	7,870.00	52.48	89.95	-95.14	-1,462.78	4,280.60	2,690.13	2,586.07	104.06	25.851	
11,300.00	7,630.00	12,540.67	7,870.00	53.79	90.12	-95.14	-1,562.78	4,280.26	2,690.13	2,583.72	106.41	25.280	
11,400.00	7,630.00	12,640.67	7,870.00	55.12	90.32	-95.14	-1,662.78	4,279.92	2,690.13	2,581.31	108.82	24.721	
11,500.00	7,630.00	12,740.67	7,870.00	56.46	90.55	-95.14	-1,762.78	4,279.59	2,690.13	2,578.84	111.29	24.172	
11,600.00	7,630.00	12,840.67	7,870.00	57.83	90.82	-95.14	-1,862.77	4,279.25	2,690.13	2,576.32	113.82	23.636	
11,700.00	7,630.00	12,940.67	7,870.00	59.22	91.12	-95.14	-1,962.77	4,278.91	2,690.14	2,573.74	116.39	23.113	
11,800.00	7,630.00	13,040.67	7,870.00	60.62	91.46	-95.14	-2,062.77	4,278.58	2,690.14	2,571.12	119.02	22.603	
11,900.00	7,630.00	13,140.67	7,870.00	62.04	91.83	-95.14	-2,162.77	4,278.24	2,690.14	2,568.45	121.69	22.107	
12,000.00	7,630.00	13,240.67	7,870.00	63.48	92.25	-95.14	-2,262.77	4,277.90	2,690.14	2,565.74	124.40	21.625	
12,100.00	7,630.00	13,340.67	7,870.00	64.93	92.71	-95.14	-2,362.77	4,277.57	2,690.14	2,562.99	127.15	21.157	
12,200.00	7,630.00	13,440.67	7,870.00	66.39	93.21	-95.14	-2,462.77	4,277.23	2,690.14	2,560.20	129.94	20.703	
12,300.00	7,630.00	13,540.67	7,870.00	67.86	93.76	-95.14	-2,562.77	4,276.89	2,690.14	2,557.38	132.76	20.263	
12,400.00	7,630.00	13,640.67	7,870.00	69.35	94.35	-95.14	-2,662.77	4,276.55	2,690.14	2,554.53	135.62	19.836	
12,500.00	7,630.00	13,740.67	7,870.00	70.85	94.98	-95.14	-2,762.77	4,276.22	2,690.14	2,551.64	138.50	19.423	
12,600.00	7,630.00	13,840.67	7,870.00	72.36	95.66	-95.14	-2,862.77	4,275.88	2,690.15	2,548.73	141.42	19.023	
12,700.00	7,630.00	13,940.67	7,870.00	73.88	96.39	-95.14	-2,962.77	4,275.54	2,690.15	2,545.79	144.36	18.635	
12,800.00	7,630.00	14,040.67	7,870.00	75.41	97.16	-95.14	-3,062.77	4,275.21	2,690.15	2,542.82	147.33	18.260	
12,900.00	7,630.00	14,140.67	7,870.00	76.95	97.98	-95.14	-3,162.77	4,274.87	2,690.15	2,539.83	150.32	17.896	
13,000.00	7,630.00	14,240.67	7,870.00	78.49	98.84	-95.14	-3,262.77	4,274.53	2,690.15	2,536.82	153.33	17.545	
13,100.00	7,630.00	14,340.67	7,870.00	80.05	99.74	-95.14	-3,362.77	4,274.20	2,690.15	2,533.78	156.37	17.204	
13,200.00	7,630.00	14,440.67	7,870.00	81.61	100.68	-95.14	-3,462.77	4,273.86	2,690.15	2,530.73	159.42	16.874	
13,300.00	7,630.00	14,540.67	7,870.00	83.18	101.67	-95.14	-3,562.77	4,273.52	2,690.15	2,527.66	162.50	16.555	
13,400.00	7,630.00	14,640.67	7,870.00	84.76	102.69	-95.14	-3,662.76	4,273.18	2,690.15	2,524.57	165.59	16.246	
13,500.00	7,630.00	14,740.67	7,870.00	86.34	103.74	-95.14	-3,762.76	4,272.85	2,690.16	2,521.46	168.70	15.947	
13,600.00	7,630.00	14,840.67	7,870.00	87.94	104.83	-95.14	-3,862.76	4,272.51	2,690.16	2,518.33	171.82	15.657	
13,700.00	7,630.00	14,940.67	7,870.00	89.53	105.95	-95.14	-3,962.76	4,272.17	2,690.16	2,515.20	174.96	15.376	
13,800.00	7,630.00	15,040.67	7,870.00	91.13	107.11	-95.14	-4,062.76	4,271.84	2,690.16	2,512.04	178.12	15.103	
13,900.00	7,630.00	15,140.67	7,870.00	92.74	108.29	-95.14	-4,162.76	4,271.50	2,690.16	2,508.88	181.28	14.840	
14,000.00	7,630.00	15,240.67	7,870.00	94.35	109.49	-95.14	-4,262.76	4,271.16	2,690.16	2,505.70	184.46	14.584	
14,100.00	7,630.00	15,340.67	7,870.00	95.97	110.73	-95.14	-4,362.76	4,270.83	2,690.16	2,502.51	187.66	14.336	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,630.00	15,440.67	7,870.00	97.60	111.98	-95.14	-4,462.76	4,270.49	2,690.16	2,499.30	190.86	14.095	
14,300.00	7,630.00	15,540.67	7,870.00	99.22	113.26	-95.14	-4,562.76	4,270.15	2,690.16	2,496.09	194.08	13.861	
14,400.00	7,630.00	15,640.67	7,870.00	100.85	114.56	-95.14	-4,662.76	4,269.81	2,690.17	2,492.86	197.30	13.635	
14,500.00	7,630.00	15,740.67	7,870.00	102.49	115.88	-95.14	-4,762.76	4,269.48	2,690.17	2,489.63	200.54	13.415	
14,600.00	7,630.00	15,840.67	7,870.00	104.13	117.22	-95.14	-4,862.76	4,269.14	2,690.17	2,486.39	203.78	13.201	
14,700.00	7,630.00	15,940.67	7,870.00	105.77	118.58	-95.14	-4,962.76	4,268.80	2,690.17	2,483.13	207.04	12.994	
14,800.00	7,630.00	16,040.67	7,870.00	107.42	119.95	-95.14	-5,062.76	4,268.47	2,690.17	2,479.87	210.30	12.792	
14,900.00	7,630.00	16,140.67	7,870.00	109.07	121.34	-95.14	-5,162.76	4,268.13	2,690.17	2,476.60	213.57	12.596	
15,000.00	7,630.00	16,240.67	7,870.00	110.72	122.74	-95.14	-5,262.76	4,267.79	2,690.17	2,473.32	216.85	12.406	
15,100.00	7,630.00	16,340.67	7,870.00	112.38	124.15	-95.14	-5,362.75	4,267.46	2,690.17	2,470.04	220.14	12.220	
15,200.00	7,630.00	16,440.67	7,870.00	114.04	125.58	-95.14	-5,462.75	4,267.12	2,690.17	2,466.74	223.43	12.040	
15,300.00	7,630.00	16,540.67	7,870.00	115.71	127.02	-95.14	-5,562.75	4,266.78	2,690.17	2,463.44	226.73	11.865	
15,400.00	7,630.00	16,640.67	7,870.00	117.37	128.47	-95.14	-5,662.75	4,266.44	2,690.18	2,460.14	230.04	11.694	
15,500.00	7,630.00	16,740.67	7,870.00	119.04	129.93	-95.14	-5,762.75	4,266.11	2,690.18	2,456.83	233.35	11.528	
15,600.00	7,630.00	16,840.67	7,870.00	120.71	131.41	-95.14	-5,862.75	4,265.77	2,690.18	2,453.51	236.67	11.367	
15,700.00	7,630.00	16,940.67	7,870.00	122.39	132.89	-95.14	-5,962.75	4,265.43	2,690.18	2,450.18	240.00	11.209	
15,800.00	7,630.00	17,040.67	7,870.00	124.06	134.38	-95.14	-6,062.75	4,265.10	2,690.18	2,446.85	243.33	11.056	
15,900.00	7,630.00	17,140.67	7,870.00	125.74	135.88	-95.14	-6,162.75	4,264.76	2,690.18	2,443.52	246.66	10.906	
16,000.00	7,630.00	17,240.67	7,870.00	127.42	137.38	-95.14	-6,262.75	4,264.42	2,690.18	2,440.18	250.01	10.760	
16,100.00	7,630.00	17,340.67	7,870.00	129.10	138.90	-95.14	-6,362.75	4,264.09	2,690.18	2,436.83	253.35	10.618	
16,200.00	7,630.00	17,440.67	7,870.00	130.79	140.42	-95.14	-6,462.75	4,263.75	2,690.18	2,433.48	256.70	10.480	
16,300.00	7,630.00	17,540.67	7,870.00	132.48	141.95	-95.14	-6,562.75	4,263.41	2,690.19	2,430.13	260.06	10.345	
16,400.00	7,630.00	17,640.67	7,870.00	134.17	143.49	-95.14	-6,662.75	4,263.07	2,690.19	2,426.77	263.42	10.213	
16,500.00	7,630.00	17,740.67	7,870.00	135.86	145.03	-95.14	-6,762.75	4,262.74	2,690.19	2,423.40	266.78	10.084	
16,600.00	7,630.00	17,840.67	7,870.00	137.55	146.58	-95.14	-6,862.75	4,262.40	2,690.19	2,420.04	270.15	9.958	
16,700.00	7,630.00	17,940.67	7,870.00	139.24	148.14	-95.14	-6,962.75	4,262.06	2,690.19	2,416.67	273.52	9.835	
16,800.00	7,630.00	18,040.67	7,870.00	140.94	149.70	-95.14	-7,062.75	4,261.73	2,690.19	2,413.29	276.90	9.715	
16,900.00	7,630.00	18,140.67	7,870.00	142.64	151.26	-95.14	-7,162.74	4,261.39	2,690.19	2,409.91	280.28	9.598	
17,000.00	7,630.00	18,240.67	7,870.00	144.34	152.83	-95.14	-7,262.74	4,261.05	2,690.19	2,406.53	283.66	9.484	
17,100.00	7,630.00	18,340.67	7,870.00	146.04	154.41	-95.14	-7,362.74	4,260.71	2,690.19	2,403.15	287.05	9.372	
17,200.00	7,630.00	18,440.67	7,870.00	147.74	155.99	-95.14	-7,462.74	4,260.38	2,690.20	2,399.76	290.44	9.263	
17,300.00	7,630.00	18,540.67	7,870.00	149.44	157.58	-95.14	-7,562.74	4,260.04	2,690.20	2,396.37	293.83	9.156	
17,400.00	7,630.00	18,640.67	7,870.00	151.15	159.17	-95.14	-7,662.74	4,259.70	2,690.20	2,392.97	297.23	9.051	
17,500.00	7,630.00	18,740.67	7,870.00	152.86	160.76	-95.14	-7,762.74	4,259.37	2,690.20	2,389.57	300.63	8.949	
17,600.00	7,630.00	18,840.67	7,870.00	154.56	162.36	-95.14	-7,862.74	4,259.03	2,690.20	2,386.17	304.03	8.849	
17,700.00	7,630.00	18,940.67	7,870.00	156.27	163.96	-95.14	-7,962.74	4,258.69	2,690.20	2,382.77	307.43	8.751	
17,800.00	7,630.00	19,040.67	7,870.00	157.98	165.57	-95.14	-8,062.74	4,258.36	2,690.20	2,379.36	310.84	8.655	
17,900.00	7,630.00	19,140.67	7,870.00	159.70	167.18	-95.14	-8,162.74	4,258.02	2,690.20	2,375.96	314.25	8.561	
18,000.00	7,630.00	19,240.67	7,870.00	161.41	168.79	-95.14	-8,262.74	4,257.68	2,690.20	2,372.55	317.66	8.469	
18,100.00	7,630.00	19,340.67	7,870.00	163.12	170.40	-95.14	-8,362.74	4,257.34	2,690.21	2,369.13	321.07	8.379	
18,101.21	7,630.00	19,341.88	7,870.00	163.14	170.42	-95.14	-8,363.94	4,257.34	2,690.21	2,369.09	321.11	8.378	
18,154.00	7,630.00	19,383.51	7,870.00	164.05	171.10	-95.14	-8,405.58	4,257.20	2,690.23	2,367.24	322.99	8.329	SF

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	90.46	-0.73	90.16	90.16				
100.00	100.00	102.00	98.00	0.13	0.14	90.46	-0.73	90.16	90.16	89.89	0.28	326.653	
200.00	200.00	202.00	198.00	0.49	0.50	90.46	-0.73	90.16	90.16	89.17	0.99	90.802	
300.00	300.00	302.00	298.00	0.85	0.86	90.46	-0.73	90.16	90.16	88.45	1.71	52.730	
400.00	400.00	402.00	398.00	1.21	1.22	90.46	-0.73	90.16	90.16	87.74	2.43	37.153	
500.00	500.00	498.00	498.00	1.57	1.56	90.46	-0.73	90.16	90.16	87.03	3.13	28.811	CC, ES
600.00	600.00	595.25	595.23	1.93	1.91	90.04	-0.07	91.60	91.64	87.81	3.83	23.914	
700.00	700.00	692.22	692.08	2.29	2.25	88.83	1.96	96.02	96.22	91.69	4.53	21.242	
800.00	800.00	788.76	788.27	2.64	2.60	87.05	5.34	103.38	103.97	98.75	5.22	19.902	
900.00	900.00	884.64	883.49	3.00	2.96	84.96	10.02	113.59	114.96	109.04	5.91	19.441	
1,000.00	1,000.00	979.67	977.43	3.36	3.33	82.80	15.98	126.57	129.23	122.63	6.59	19.596	
1,100.00	1,100.00	1,073.64	1,069.81	3.72	3.72	80.75	23.14	142.19	146.79	139.52	7.27	20.201	
1,200.00	1,200.00	1,166.37	1,160.38	4.08	4.14	78.90	31.45	160.28	167.62	159.69	7.93	21.140	
1,300.00	1,300.00	1,257.71	1,248.91	4.44	4.57	77.27	40.82	180.70	191.65	183.08	8.57	22.359	
1,400.00	1,400.00	1,347.50	1,335.19	4.79	5.03	75.87	51.17	203.27	218.82	209.61	9.21	23.753	
1,500.00	1,499.98	1,436.04	1,419.47	5.15	5.53	36.73	62.48	227.92	247.70	237.87	9.83	25.191	
1,600.00	1,599.84	1,523.74	1,502.09	5.51	6.05	35.94	74.75	254.65	276.85	266.41	10.44	26.515	
1,700.00	1,699.45	1,610.60	1,582.99	5.87	6.61	35.51	87.94	283.38	306.19	295.15	11.05	27.721	
1,800.00	1,798.70	1,696.62	1,662.13	6.23	7.20	35.36	101.99	314.02	335.67	324.02	11.65	28.818	
1,900.00	1,897.47	1,781.81	1,739.47	6.60	7.84	35.40	116.89	346.48	365.26	353.00	12.25	29.809	
2,000.00	1,995.62	1,866.18	1,814.98	6.99	8.52	35.60	132.58	380.67	394.95	382.08	12.86	30.702	
2,100.00	2,093.06	1,949.73	1,888.64	7.39	9.23	35.90	149.02	416.50	424.74	411.25	13.48	31.497	
2,200.00	2,189.64	2,032.47	1,960.42	7.82	9.99	36.29	166.18	453.90	454.63	440.51	14.12	32.194	
2,300.00	2,285.27	2,114.42	2,030.32	8.28	10.78	36.75	184.02	492.78	484.62	469.84	14.78	32.788	
2,400.00	2,379.82	2,195.59	2,098.31	8.77	11.60	37.25	202.51	533.06	514.73	499.26	15.47	33.275	
2,500.00	2,473.17	2,275.98	2,164.39	9.31	12.48	37.78	221.60	574.68	544.95	528.75	16.20	33.645	
2,600.00	2,565.21	2,355.62	2,228.56	9.88	13.39	38.35	241.27	617.54	575.30	558.33	16.97	33.901	
2,660.67	2,620.37	2,403.57	2,266.56	10.25	13.95	38.70	253.47	644.13	593.77	576.31	17.46	34.007	
2,700.00	2,655.96	2,435.06	2,291.24	10.50	14.33	39.08	261.63	661.90	605.97	588.17	17.80	34.044	
2,800.00	2,746.43	2,529.32	2,364.87	11.15	15.49	40.13	286.17	715.38	637.54	618.59	18.94	33.658	
2,900.00	2,836.90	2,623.57	2,438.50	11.82	16.67	41.09	310.71	768.87	669.28	649.15	20.12	33.259	
3,000.00	2,927.37	2,717.83	2,512.13	12.50	17.85	41.96	335.25	822.35	701.17	679.83	21.34	32.857	
3,100.00	3,017.85	2,812.09	2,585.76	13.21	19.05	42.76	359.80	875.83	733.21	710.62	22.59	32.460	
3,200.00	3,108.32	2,906.34	2,659.39	13.92	20.25	43.49	384.34	929.32	765.35	741.49	23.86	32.071	
3,300.00	3,198.79	3,000.60	2,733.02	14.64	21.46	44.16	408.88	982.80	797.61	772.44	25.16	31.695	
3,400.00	3,289.27	3,094.85	2,806.65	15.38	22.67	44.78	433.42	1,036.28	829.95	803.46	26.49	31.334	
3,500.00	3,379.74	3,189.11	2,880.28	16.12	23.89	45.35	457.96	1,089.77	862.37	834.54	27.83	30.989	
3,600.00	3,470.21	3,283.36	2,953.91	16.87	25.12	45.88	482.51	1,143.25	894.87	865.68	29.19	30.660	
3,700.00	3,560.68	3,377.62	3,027.53	17.62	26.34	46.38	507.05	1,196.73	927.43	896.87	30.56	30.347	
3,800.00	3,651.16	3,471.87	3,101.16	18.39	27.57	46.84	531.59	1,250.22	960.05	928.10	31.95	30.050	
3,900.00	3,741.63	3,566.13	3,174.79	19.15	28.80	47.27	556.13	1,303.70	992.72	959.37	33.35	29.768	
4,000.00	3,832.10	3,660.39	3,248.42	19.92	30.03	47.67	580.68	1,357.18	1,025.44	990.68	34.76	29.501	
4,100.00	3,922.57	3,754.64	3,322.05	20.69	31.27	48.05	605.22	1,410.67	1,058.20	1,022.02	36.18	29.248	
4,200.00	4,013.05	3,848.90	3,395.68	21.47	32.51	48.41	629.76	1,464.15	1,091.00	1,053.39	37.61	29.008	
4,300.00	4,103.52	3,943.15	3,469.31	22.25	33.74	48.74	654.30	1,517.63	1,123.84	1,084.79	39.05	28.781	
4,400.00	4,193.99	4,037.41	3,542.94	23.03	34.98	49.06	678.84	1,571.12	1,156.70	1,116.21	40.49	28.566	
4,500.00	4,284.47	4,131.66	3,616.57	23.81	36.22	49.36	703.39	1,624.60	1,189.60	1,147.66	41.94	28.361	
4,600.00	4,374.94	4,225.92	3,690.20	24.60	37.46	49.64	727.93	1,678.08	1,222.53	1,179.13	43.40	28.167	
4,700.00	4,465.41	4,320.17	3,763.83	25.39	38.71	49.91	752.47	1,731.57	1,255.48	1,210.61	44.87	27.983	
4,800.00	4,555.88	4,414.43	3,837.46	26.18	39.95	50.17	777.01	1,785.05	1,288.45	1,242.12	46.34	27.807	
4,900.00	4,646.36	4,508.69	3,911.09	26.97	41.20	50.41	801.55	1,838.53	1,321.45	1,273.64	47.81	27.640	
5,000.00	4,736.83	4,602.94	3,984.72	27.76	42.44	50.64	826.10	1,892.02	1,354.47	1,305.18	49.29	27.481	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	4,702.80	4,058.35	28.55	43.76	50.86	850.64	1,945.50	1,387.50	1,336.69	50.81	27.306	
5,200.00	4,917.77	4,808.55	4,131.98	29.35	45.16	51.07	875.18	1,998.99	1,420.55	1,368.16	52.39	27.116	
5,300.00	5,008.25	4,885.71	4,205.61	30.15	46.18	51.27	899.72	2,052.47	1,453.62	1,399.88	53.74	27.047	
5,400.00	5,098.72	4,979.96	4,279.24	30.94	47.43	51.46	924.26	2,105.95	1,486.71	1,431.47	55.24	26.915	
5,500.00	5,189.19	5,074.22	4,352.87	31.74	48.67	51.64	948.81	2,159.44	1,519.80	1,463.07	56.73	26.789	
5,600.00	5,279.67	5,168.47	4,426.50	32.54	49.92	51.81	973.35	2,212.92	1,552.91	1,494.68	58.23	26.668	
5,700.00	5,370.14	5,262.73	4,500.13	33.34	51.17	51.98	997.89	2,266.40	1,586.04	1,526.30	59.73	26.553	
5,800.00	5,460.61	5,356.99	4,573.76	34.14	52.42	52.14	1,022.43	2,319.89	1,619.17	1,557.94	61.23	26.442	
5,900.00	5,551.08	5,451.24	4,647.39	34.94	53.67	52.30	1,046.98	2,373.37	1,652.32	1,589.58	62.74	26.336	
6,000.00	5,641.56	5,545.50	4,721.02	35.75	54.92	52.44	1,071.52	2,426.85	1,685.47	1,621.22	64.25	26.234	
6,100.00	5,732.03	5,639.75	4,794.64	36.55	56.17	52.59	1,096.06	2,480.34	1,718.64	1,652.88	65.76	26.136	
6,200.00	5,822.50	5,734.01	4,868.27	37.35	57.42	52.72	1,120.60	2,533.82	1,751.81	1,684.54	67.27	26.042	
6,300.00	5,912.97	5,828.26	4,941.90	38.16	58.67	52.86	1,145.14	2,587.30	1,784.99	1,716.21	68.78	25.951	
6,400.00	6,003.45	5,922.52	5,015.53	38.96	59.92	52.98	1,169.69	2,640.79	1,818.19	1,747.89	70.30	25.864	
6,500.00	6,093.92	6,016.77	5,089.16	39.77	61.17	53.11	1,194.23	2,694.27	1,851.38	1,779.57	71.82	25.780	
6,600.00	6,184.39	6,111.03	5,162.79	40.57	62.42	53.22	1,218.77	2,747.75	1,884.59	1,811.26	73.33	25.699	
6,700.00	6,274.87	6,205.29	5,236.42	41.38	63.68	53.34	1,243.31	2,801.24	1,917.80	1,842.95	74.85	25.621	
6,800.00	6,365.34	6,300.46	5,310.05	42.18	64.94	53.45	1,267.85	2,854.72	1,951.02	1,874.64	76.38	25.543	
6,900.00	6,455.81	6,406.20	5,383.68	42.99	66.34	53.55	1,292.40	2,908.20	1,984.25	1,906.25	78.00	25.440	
7,000.00	6,546.28	6,488.05	5,457.31	43.80	67.43	53.66	1,316.94	2,961.69	2,017.48	1,938.06	79.42	25.403	
7,100.00	6,636.76	6,582.31	5,530.94	44.61	68.68	53.76	1,341.48	3,015.17	2,050.72	1,969.77	80.94	25.335	
7,200.00	6,727.23	6,676.56	5,604.57	45.41	69.94	53.85	1,366.02	3,068.65	2,083.96	2,001.49	82.47	25.269	
7,300.00	6,817.70	6,770.82	5,678.20	46.22	71.19	53.95	1,390.57	3,122.14	2,117.21	2,033.21	84.00	25.206	
7,383.79	6,893.51	6,849.79	5,739.89	46.90	72.24	54.02	1,411.13	3,166.95	2,145.07	2,059.79	85.28	25.154	
7,400.00	6,908.25	6,865.09	5,751.84	47.03	72.44	52.25	1,415.11	3,175.63	2,150.44	2,064.93	85.52	25.146	
7,450.00	6,954.52	6,912.29	5,788.71	47.40	73.07	44.94	1,427.40	3,202.41	2,166.76	2,080.61	86.16	25.149	
7,500.00	7,001.74	6,959.28	5,825.42	47.72	73.69	34.28	1,439.64	3,229.07	2,182.61	2,095.97	86.64	25.192	
7,550.00	7,049.55	7,005.69	5,861.67	47.99	74.31	20.13	1,451.72	3,255.41	2,197.90	2,110.94	86.96	25.275	
7,600.00	7,097.58	7,051.17	5,897.20	48.21	74.92	4.02	1,463.56	3,281.22	2,212.58	2,125.47	87.12	25.398	
7,650.00	7,145.48	7,104.62	5,931.74	48.37	75.63	-11.11	1,475.07	3,306.30	2,226.63	2,139.43	87.19	25.537	
7,700.00	7,192.88	7,137.98	5,965.01	48.48	76.07	-23.25	1,486.17	3,330.47	2,240.02	2,153.05	86.96	25.759	
7,750.00	7,239.41	7,178.64	5,996.78	48.54	76.61	-32.21	1,496.75	3,353.55	2,252.77	2,166.11	86.66	25.997	
7,800.00	7,284.72	7,217.06	6,026.79	48.56	77.12	-38.67	1,506.76	3,375.35	2,264.90	2,178.70	86.21	26.272	
7,850.00	7,328.47	7,252.94	6,054.82	48.54	77.60	-43.33	1,516.10	3,395.71	2,276.47	2,190.84	85.63	26.584	
7,900.00	7,370.32	7,286.02	6,080.66	48.47	78.04	-46.75	1,524.71	3,414.48	2,287.51	2,202.57	84.93	26.933	
7,950.00	7,409.96	7,316.03	6,104.10	48.37	78.44	-49.27	1,532.53	3,431.50	2,298.07	2,213.94	84.13	27.317	
8,000.00	7,447.08	7,342.75	6,124.97	48.24	78.79	-51.13	1,539.48	3,446.67	2,308.20	2,224.98	83.22	27.735	
8,050.00	7,481.41	7,365.98	6,143.12	48.07	79.10	-52.49	1,545.53	3,459.85	2,317.96	2,235.71	82.25	28.182	
8,100.00	7,512.67	7,385.53	6,158.40	47.87	79.36	-53.44	1,550.62	3,470.94	2,327.37	2,246.16	81.21	28.657	
8,150.00	7,540.64	7,401.27	6,170.69	47.65	79.57	-54.06	1,554.72	3,479.87	2,336.47	2,256.33	80.14	29.155	
8,200.00	7,565.09	7,413.07	6,179.91	47.40	79.73	-54.38	1,557.79	3,486.57	2,345.26	2,266.21	79.05	29.669	
8,250.00	7,585.85	7,420.84	6,185.98	47.14	79.83	-54.44	1,559.82	3,490.98	2,353.75	2,275.79	77.96	30.193	
8,300.00	7,602.75	7,424.53	6,188.86	46.86	79.88	-54.28	1,560.78	3,493.07	2,361.91	2,285.02	76.89	30.720	
8,350.00	7,615.67	7,424.09	6,188.52	46.58	79.87	-53.90	1,560.66	3,492.82	2,369.70	2,293.85	75.85	31.242	
8,400.00	7,624.51	7,419.55	6,184.97	46.28	79.81	-53.35	1,559.48	3,490.25	2,377.07	2,302.21	74.87	31.750	
8,450.00	7,629.19	7,410.93	6,178.23	45.98	79.70	-52.62	1,557.24	3,485.35	2,383.94	2,310.00	73.95	32.237	
8,481.00	7,630.00	7,403.56	6,172.48	45.79	79.60	-52.10	1,555.32	3,481.17	2,387.91	2,314.50	73.42	32.525	
8,500.00	7,630.00	7,401.42	6,168.58	45.68	79.57	-51.98	1,554.02	3,478.34	2,390.34	2,317.22	73.12	32.689	
8,600.00	7,630.00	7,372.35	6,148.09	45.11	79.19	-51.37	1,547.19	3,463.46	2,405.38	2,333.68	71.70	33.548	
8,700.00	7,630.00	7,346.12	6,127.61	44.56	78.84	-50.76	1,540.36	3,448.58	2,424.17	2,353.50	70.68	34.299	
8,800.00	7,630.00	7,319.89	6,107.12	44.05	78.49	-50.15	1,533.53	3,433.69	2,446.63	2,376.59	70.04	34.934	
8,900.00	7,630.00	7,306.34	6,086.63	43.57	78.31	-49.54	1,526.70	3,418.81	2,472.65	2,402.82	69.83	35.408	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,000.00	7,630.00	7,267.43	6,066.14	43.12	77.79	-48.93	1,519.87	3,403.93	2,502.13	2,432.30	69.83	35.832	
9,100.00	7,630.00	7,241.20	6,045.65	42.70	77.44	-48.33	1,513.04	3,389.04	2,534.93	2,464.72	70.21	36.106	
9,200.00	7,630.00	7,214.97	6,025.16	42.31	77.09	-47.72	1,506.21	3,374.16	2,570.94	2,500.09	70.86	36.283	
9,300.00	7,630.00	7,188.74	6,004.67	41.94	76.74	-47.12	1,499.38	3,359.28	2,610.03	2,538.29	71.74	36.383	
9,400.00	7,630.00	7,162.51	5,984.18	41.59	76.40	-46.51	1,492.55	3,344.39	2,652.05	2,579.24	72.81	36.425	
9,500.00	7,630.00	7,136.28	5,963.69	41.26	76.05	-45.91	1,485.72	3,329.51	2,696.87	2,622.85	74.03	36.431	
9,600.00	7,630.00	7,110.05	5,943.20	40.96	75.70	-45.31	1,478.89	3,314.63	2,744.36	2,669.00	75.36	36.419	
9,700.00	7,630.00	7,083.82	5,922.71	40.68	75.35	-44.72	1,472.06	3,299.74	2,794.37	2,717.61	76.76	36.402	
9,800.00	7,630.00	7,057.59	5,902.22	40.42	75.00	-44.12	1,465.23	3,284.86	2,846.77	2,768.55	78.22	36.394	
9,900.00	7,630.00	7,031.36	5,881.73	40.17	74.65	-43.53	1,458.41	3,269.98	2,901.44	2,821.74	79.70	36.404	
10,000.00	7,630.00	7,005.13	5,861.24	39.96	74.30	-42.94	1,451.58	3,255.09	2,958.25	2,877.06	81.18	36.438	
10,100.00	7,630.00	11,388.87	7,730.00	40.05	97.15	-91.95	-363.90	4,604.28	3,001.01	2,914.62	86.40	34.734	
10,200.00	7,630.00	11,488.87	7,730.00	40.95	97.06	-91.95	-463.90	4,603.94	3,001.01	2,913.31	87.71	34.216	
10,300.00	7,630.00	11,588.87	7,730.00	41.94	96.99	-91.95	-563.90	4,603.61	3,001.01	2,911.88	89.14	33.667	
10,400.00	7,630.00	11,688.87	7,730.00	42.98	96.94	-91.95	-663.90	4,603.27	3,001.01	2,910.33	90.68	33.094	
10,500.00	7,630.00	11,788.87	7,730.00	44.06	96.90	-91.95	-763.90	4,602.93	3,001.01	2,908.68	92.34	32.501	
10,600.00	7,630.00	11,888.87	7,730.00	45.17	96.88	-91.95	-863.90	4,602.59	3,001.01	2,906.92	94.09	31.895	
10,700.00	7,630.00	11,988.87	7,730.00	46.32	96.88	-91.95	-963.90	4,602.25	3,001.01	2,905.07	95.95	31.278	
10,800.00	7,630.00	12,088.87	7,730.00	47.50	96.89	-91.95	-1,063.90	4,601.91	3,001.01	2,903.12	97.89	30.657	
10,900.00	7,630.00	12,188.87	7,730.00	48.70	96.93	-91.95	-1,163.90	4,601.58	3,001.01	2,901.09	99.92	30.033	
11,000.00	7,630.00	12,288.87	7,730.00	49.94	96.99	-91.95	-1,263.90	4,601.24	3,001.01	2,898.98	102.04	29.411	
11,100.00	7,630.00	12,388.87	7,730.00	51.20	97.07	-91.95	-1,363.90	4,600.90	3,001.01	2,896.79	104.23	28.793	
11,200.00	7,630.00	12,488.87	7,730.00	52.48	97.17	-91.95	-1,463.90	4,600.56	3,001.01	2,894.52	106.49	28.182	
11,300.00	7,630.00	12,588.87	7,730.00	53.79	97.30	-91.95	-1,563.90	4,600.22	3,001.01	2,892.20	108.82	27.579	
11,400.00	7,630.00	12,688.87	7,730.00	55.12	97.45	-91.95	-1,663.90	4,599.88	3,001.01	2,889.80	111.21	26.986	
11,500.00	7,630.00	12,788.87	7,730.00	56.46	97.62	-91.95	-1,763.89	4,599.55	3,001.01	2,887.35	113.66	26.404	
11,600.00	7,630.00	12,888.87	7,730.00	57.83	97.83	-91.95	-1,863.89	4,599.21	3,001.01	2,884.85	116.16	25.835	
11,700.00	7,630.00	12,988.87	7,730.00	59.22	98.06	-91.95	-1,963.89	4,598.87	3,001.01	2,882.29	118.72	25.278	
11,800.00	7,630.00	13,088.87	7,730.00	60.62	98.32	-91.95	-2,063.89	4,598.53	3,001.01	2,879.68	121.33	24.735	
11,900.00	7,630.00	13,188.87	7,730.00	62.04	98.61	-91.95	-2,163.89	4,598.19	3,001.01	2,877.03	123.98	24.206	
12,000.00	7,630.00	13,288.87	7,730.00	63.48	98.94	-91.95	-2,263.89	4,597.85	3,001.01	2,874.34	126.67	23.691	
12,100.00	7,630.00	13,388.87	7,730.00	64.93	99.30	-91.95	-2,363.89	4,597.51	3,001.01	2,871.60	129.41	23.191	
12,200.00	7,630.00	13,488.87	7,730.00	66.39	99.69	-91.95	-2,463.89	4,597.18	3,001.01	2,868.83	132.18	22.704	
12,300.00	7,630.00	13,588.87	7,730.00	67.86	100.12	-91.95	-2,563.89	4,596.84	3,001.01	2,866.02	134.98	22.232	
12,400.00	7,630.00	13,688.87	7,730.00	69.35	100.59	-91.95	-2,663.89	4,596.50	3,001.01	2,863.18	137.83	21.774	
12,500.00	7,630.00	13,788.87	7,730.00	70.85	101.10	-91.95	-2,763.89	4,596.16	3,001.01	2,860.31	140.70	21.330	
12,600.00	7,630.00	13,888.87	7,730.00	72.36	101.64	-91.95	-2,863.89	4,595.82	3,001.01	2,857.41	143.60	20.899	
12,700.00	7,630.00	13,988.87	7,730.00	73.88	102.23	-91.95	-2,963.89	4,595.48	3,001.01	2,854.48	146.53	20.481	
12,800.00	7,630.00	14,088.87	7,730.00	75.41	102.86	-91.95	-3,063.89	4,595.15	3,001.01	2,851.53	149.48	20.076	
12,900.00	7,630.00	14,188.87	7,730.00	76.95	103.52	-91.95	-3,163.89	4,594.81	3,001.01	2,848.55	152.46	19.684	
13,000.00	7,630.00	14,288.87	7,730.00	78.49	104.23	-91.95	-3,263.89	4,594.47	3,001.01	2,845.55	155.46	19.304	
13,100.00	7,630.00	14,388.87	7,730.00	80.05	104.98	-91.95	-3,363.89	4,594.13	3,001.01	2,842.52	158.48	18.936	
13,200.00	7,630.00	14,488.87	7,730.00	81.61	105.77	-91.95	-3,463.88	4,593.79	3,001.01	2,839.48	161.53	18.579	
13,300.00	7,630.00	14,588.87	7,730.00	83.18	106.60	-91.95	-3,563.88	4,593.45	3,001.01	2,836.41	164.59	18.233	
13,400.00	7,630.00	14,688.87	7,730.00	84.76	107.47	-91.95	-3,663.88	4,593.12	3,001.01	2,833.33	167.67	17.898	
13,500.00	7,630.00	14,788.87	7,730.00	86.34	108.38	-91.95	-3,763.88	4,592.78	3,001.00	2,830.23	170.77	17.573	
13,600.00	7,630.00	14,888.87	7,730.00	87.94	109.32	-91.95	-3,863.88	4,592.44	3,001.00	2,827.11	173.89	17.258	
13,700.00	7,630.00	14,988.87	7,730.00	89.53	110.30	-91.95	-3,963.88	4,592.10	3,001.00	2,823.98	177.02	16.953	
13,800.00	7,630.00	15,088.87	7,730.00	91.13	111.32	-91.95	-4,063.88	4,591.76	3,001.00	2,820.84	180.17	16.657	
13,900.00	7,630.00	15,188.87	7,730.00	92.74	112.37	-91.95	-4,163.88	4,591.42	3,001.00	2,817.68	183.33	16.370	
14,000.00	7,630.00	15,288.87	7,730.00	94.35	113.45	-91.95	-4,263.88	4,591.09	3,001.00	2,814.50	186.50	16.091	
14,100.00	7,630.00	15,388.87	7,730.00	95.97	114.56	-91.95	-4,363.88	4,590.75	3,001.00	2,811.31	189.69	15.821	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,630.00	15,488.87	7,730.00	97.60	115.70	-91.95	-4,463.88	4,590.41	3,001.00	2,808.12	192.89	15.558	
14,300.00	7,630.00	15,588.87	7,730.00	99.22	116.86	-91.95	-4,563.88	4,590.07	3,001.00	2,804.91	196.10	15.304	
14,400.00	7,630.00	15,688.87	7,730.00	100.85	118.05	-91.95	-4,663.88	4,589.73	3,001.00	2,801.69	199.32	15.056	
14,500.00	7,630.00	15,788.87	7,730.00	102.49	119.27	-91.95	-4,763.88	4,589.39	3,001.00	2,798.45	202.55	14.816	
14,600.00	7,630.00	15,888.87	7,730.00	104.13	120.51	-91.95	-4,863.88	4,589.06	3,001.00	2,795.21	205.79	14.583	
14,700.00	7,630.00	15,988.87	7,730.00	105.77	121.77	-91.95	-4,963.88	4,588.72	3,001.00	2,791.96	209.04	14.356	
14,800.00	7,630.00	16,088.87	7,730.00	107.42	123.05	-91.95	-5,063.88	4,588.38	3,001.00	2,788.70	212.30	14.136	
14,900.00	7,630.00	16,188.87	7,730.00	109.07	124.35	-91.95	-5,163.88	4,588.04	3,001.00	2,785.43	215.57	13.921	
15,000.00	7,630.00	16,288.87	7,730.00	110.72	125.67	-91.95	-5,263.87	4,587.70	3,001.00	2,782.16	218.84	13.713	
15,100.00	7,630.00	16,388.87	7,730.00	112.38	127.01	-91.95	-5,363.87	4,587.36	3,001.00	2,778.87	222.13	13.510	
15,200.00	7,630.00	16,488.87	7,730.00	114.04	128.37	-91.95	-5,463.87	4,587.03	3,001.00	2,775.58	225.42	13.313	
15,300.00	7,630.00	16,588.87	7,730.00	115.71	129.74	-91.95	-5,563.87	4,586.69	3,001.00	2,772.28	228.72	13.121	
15,400.00	7,630.00	16,688.87	7,730.00	117.37	131.12	-91.95	-5,663.87	4,586.35	3,001.00	2,768.98	232.02	12.934	
15,500.00	7,630.00	16,788.87	7,730.00	119.04	132.52	-91.95	-5,763.87	4,586.01	3,001.00	2,765.66	235.34	12.752	
15,600.00	7,630.00	16,888.87	7,730.00	120.71	133.93	-91.95	-5,863.87	4,585.67	3,001.00	2,762.35	238.65	12.575	
15,700.00	7,630.00	16,988.87	7,730.00	122.39	135.35	-91.95	-5,963.87	4,585.33	3,001.00	2,759.02	241.98	12.402	
15,800.00	7,630.00	17,088.87	7,730.00	124.06	136.79	-91.95	-6,063.87	4,585.00	3,001.00	2,755.69	245.31	12.234	
15,900.00	7,630.00	17,188.87	7,730.00	125.74	138.23	-91.95	-6,163.87	4,584.66	3,001.00	2,752.35	248.65	12.069	
16,000.00	7,630.00	17,288.87	7,730.00	127.42	139.69	-91.95	-6,263.87	4,584.32	3,001.00	2,749.01	251.99	11.909	
16,100.00	7,630.00	17,388.87	7,730.00	129.10	141.16	-91.95	-6,363.87	4,583.98	3,001.00	2,745.67	255.33	11.753	
16,200.00	7,630.00	17,488.87	7,730.00	130.79	142.63	-91.95	-6,463.87	4,583.64	3,001.00	2,742.31	258.68	11.601	
16,300.00	7,630.00	17,588.87	7,730.00	132.48	144.12	-91.95	-6,563.87	4,583.30	3,001.00	2,738.96	262.04	11.452	
16,400.00	7,630.00	17,688.87	7,730.00	134.17	145.61	-91.95	-6,663.87	4,582.97	3,001.00	2,735.60	265.40	11.307	
16,500.00	7,630.00	17,788.87	7,730.00	135.86	147.11	-91.95	-6,763.87	4,582.63	3,001.00	2,732.23	268.77	11.166	
16,600.00	7,630.00	17,888.87	7,730.00	137.55	148.62	-91.95	-6,863.87	4,582.29	3,001.00	2,728.86	272.14	11.028	
16,700.00	7,630.00	17,988.87	7,730.00	139.24	150.14	-91.95	-6,963.86	4,581.95	3,001.00	2,725.49	275.51	10.893	
16,800.00	7,630.00	18,088.87	7,730.00	140.94	151.66	-91.95	-7,063.86	4,581.61	3,001.00	2,722.11	278.89	10.761	
16,900.00	7,630.00	18,188.87	7,730.00	142.64	153.20	-91.95	-7,163.86	4,581.27	3,001.00	2,718.73	282.27	10.632	
17,000.00	7,630.00	18,288.87	7,730.00	144.34	154.73	-91.95	-7,263.86	4,580.93	3,001.00	2,715.34	285.65	10.506	
17,100.00	7,630.00	18,388.87	7,730.00	146.04	156.28	-91.95	-7,363.86	4,580.60	3,001.00	2,711.95	289.04	10.383	
17,200.00	7,630.00	18,488.87	7,730.00	147.74	157.83	-91.95	-7,463.86	4,580.26	3,000.99	2,708.56	292.43	10.262	
17,300.00	7,630.00	18,588.87	7,730.00	149.44	159.38	-91.95	-7,563.86	4,579.92	3,000.99	2,705.17	295.83	10.144	
17,400.00	7,630.00	18,688.87	7,730.00	151.15	160.94	-91.95	-7,663.86	4,579.58	3,000.99	2,701.77	299.23	10.029	
17,500.00	7,630.00	18,788.87	7,730.00	152.86	162.51	-91.95	-7,763.86	4,579.24	3,000.99	2,698.37	302.63	9.916	
17,600.00	7,630.00	18,888.87	7,730.00	154.56	164.08	-91.95	-7,863.86	4,578.90	3,000.99	2,694.96	306.03	9.806	
17,700.00	7,630.00	18,988.87	7,730.00	156.27	165.65	-91.95	-7,963.86	4,578.57	3,000.99	2,691.55	309.44	9.698	
17,800.00	7,630.00	19,088.87	7,730.00	157.98	167.23	-91.95	-8,063.86	4,578.23	3,000.99	2,688.14	312.85	9.592	
17,900.00	7,630.00	19,188.87	7,730.00	159.70	168.82	-91.95	-8,163.86	4,577.89	3,000.99	2,684.73	316.26	9.489	
18,000.00	7,630.00	19,288.87	7,730.00	161.41	170.40	-91.95	-8,263.86	4,577.55	3,000.99	2,681.31	319.68	9.388	
18,100.00	7,630.00	19,388.87	7,730.00	163.12	172.00	-91.95	-8,363.86	4,577.21	3,000.99	2,677.90	323.10	9.288	
18,143.69	7,630.00	19,432.56	7,730.00	163.87	172.69	-91.95	-8,407.54	4,577.06	3,000.99	2,676.40	324.59	9.245	
18,154.00	7,630.00	19,430.54	7,730.00	164.05	172.66	-91.95	-8,405.52	4,577.07	3,001.02	2,676.01	325.01	9.234	SF

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	90.42	-0.73	100.24	100.24				
100.00	100.00	102.00	98.00	0.13	0.14	90.42	-0.73	100.24	100.24	99.97	0.28	363.171	
200.00	200.00	202.00	198.00	0.49	0.50	90.42	-0.73	100.24	100.24	99.25	0.99	100.954	
300.00	300.00	302.00	298.00	0.85	0.86	90.42	-0.73	100.24	100.24	98.53	1.71	58.625	
400.00	400.00	398.00	398.00	1.21	1.20	90.42	-0.73	100.24	100.24	97.83	2.41	41.552	CC, ES
500.00	500.00	494.92	494.91	1.57	1.55	90.06	-0.11	101.69	101.73	98.62	3.11	32.661	
600.00	600.00	591.57	591.42	1.93	1.89	89.03	1.80	106.12	106.34	102.53	3.81	27.886	
700.00	700.00	687.78	687.29	2.29	2.24	87.49	4.98	113.51	114.12	109.61	4.51	25.306	
800.00	800.00	783.34	782.20	2.64	2.60	85.66	9.39	123.77	125.12	119.92	5.20	24.055	
900.00	900.00	878.05	875.84	3.00	2.98	83.74	15.00	136.80	139.39	133.50	5.89	23.678	
1,000.00	1,000.00	971.72	967.93	3.36	3.37	81.89	21.74	152.47	156.92	150.36	6.56	23.906	
1,100.00	1,100.00	1,064.17	1,058.23	3.72	3.79	80.17	29.56	170.65	177.70	170.46	7.23	24.570	
1,200.00	1,200.00	1,155.23	1,146.51	4.08	4.23	78.65	38.38	191.16	201.66	193.77	7.89	25.575	
1,300.00	1,300.00	1,244.75	1,232.56	4.44	4.70	77.31	48.13	213.83	228.74	220.21	8.53	26.815	
1,400.00	1,400.00	1,332.61	1,316.22	4.79	5.20	76.16	58.73	238.46	258.84	249.68	9.16	28.251	
1,500.00	1,499.98	1,419.15	1,397.79	5.15	5.72	37.16	70.15	265.02	290.58	280.80	9.78	29.719	
1,600.00	1,599.84	1,504.81	1,477.63	5.51	6.28	36.42	82.42	293.53	322.53	312.15	10.38	31.069	
1,700.00	1,699.45	1,589.59	1,555.70	5.87	6.88	36.00	95.48	323.89	354.62	343.64	10.98	32.291	
1,800.00	1,798.70	1,673.51	1,631.97	6.23	7.52	35.82	109.29	356.01	386.80	375.22	11.58	33.396	
1,900.00	1,897.47	1,756.55	1,706.42	6.60	8.19	35.81	123.84	389.81	419.05	406.87	12.18	34.393	
2,000.00	1,995.62	1,838.75	1,779.03	6.99	8.90	35.94	139.06	425.20	451.35	438.56	12.79	35.285	
2,100.00	2,093.06	1,920.10	1,849.77	7.39	9.64	36.17	154.93	462.10	483.69	470.29	13.41	36.072	
2,200.00	2,189.64	2,000.62	1,918.63	7.82	10.42	36.48	171.42	500.43	516.09	502.04	14.04	36.754	
2,300.00	2,285.27	2,080.32	1,985.62	8.28	11.24	36.86	188.48	540.10	548.53	533.83	14.70	37.318	
2,400.00	2,379.82	2,159.22	2,050.72	8.77	12.10	37.27	206.09	581.04	581.02	565.64	15.38	37.768	
2,500.00	2,473.17	2,237.32	2,113.93	9.31	13.00	37.72	224.22	623.17	613.57	597.47	16.10	38.099	
2,600.00	2,565.21	2,314.65	2,175.26	9.88	13.92	38.20	242.83	666.43	646.18	629.32	16.87	38.309	
2,660.67	2,620.37	2,361.19	2,211.56	10.25	14.50	38.49	254.34	693.20	666.00	648.65	17.36	38.373	
2,700.00	2,655.96	2,391.18	2,234.69	10.50	14.88	38.85	261.88	710.73	679.06	661.38	17.68	38.410	
2,800.00	2,746.43	2,477.37	2,300.40	11.15	16.00	39.78	283.92	761.96	713.64	694.94	18.70	38.157	
2,900.00	2,836.90	2,570.42	2,371.24	11.82	17.23	40.69	307.76	817.39	748.58	728.70	19.88	37.658	
3,000.00	2,927.37	2,663.48	2,442.07	12.50	18.47	41.52	331.61	872.82	783.67	762.59	21.09	37.161	
3,100.00	3,017.85	2,756.53	2,512.91	13.21	19.71	42.28	355.45	928.25	818.90	796.57	22.33	36.674	
3,200.00	3,108.32	2,849.58	2,583.75	13.92	20.97	42.98	379.29	983.67	854.25	830.65	23.60	36.202	
3,300.00	3,198.79	2,942.63	2,654.59	14.64	22.23	43.62	403.14	1,039.10	889.70	864.81	24.89	35.747	
3,400.00	3,289.27	3,035.69	2,725.42	15.38	23.50	44.22	426.98	1,094.53	925.24	899.03	26.20	35.312	
3,500.00	3,379.74	3,128.74	2,796.26	16.12	24.77	44.77	450.82	1,149.96	960.86	933.32	27.53	34.898	
3,600.00	3,470.21	3,221.79	2,867.10	16.87	26.04	45.28	474.67	1,205.39	996.55	967.67	28.88	34.504	
3,700.00	3,560.68	3,314.84	2,937.94	17.62	27.32	45.76	498.51	1,260.82	1,032.31	1,002.07	30.25	34.131	
3,800.00	3,651.16	3,407.90	3,008.77	18.39	28.60	46.20	522.35	1,316.25	1,068.13	1,036.51	31.62	33.777	
3,900.00	3,741.63	3,500.95	3,079.61	19.15	29.88	46.62	546.20	1,371.67	1,104.00	1,070.99	33.01	33.443	
4,000.00	3,832.10	3,606.00	3,150.45	19.92	31.33	47.01	570.04	1,427.10	1,139.92	1,105.42	34.50	33.040	
4,100.00	3,922.57	3,687.05	3,221.28	20.69	32.45	47.38	593.88	1,482.53	1,175.88	1,140.06	35.82	32.826	
4,200.00	4,013.05	3,780.10	3,292.12	21.47	33.74	47.72	617.73	1,537.96	1,211.88	1,174.64	37.24	32.542	
4,300.00	4,103.52	3,873.16	3,362.96	22.25	35.03	48.05	641.57	1,593.39	1,247.92	1,209.25	38.67	32.273	
4,400.00	4,193.99	3,966.21	3,433.80	23.03	36.32	48.35	665.41	1,648.82	1,283.99	1,243.89	40.10	32.018	
4,500.00	4,284.47	4,059.26	3,504.63	23.81	37.61	48.64	689.26	1,704.25	1,320.09	1,278.55	41.54	31.776	
4,600.00	4,374.94	4,152.31	3,575.47	24.60	38.90	48.92	713.10	1,759.68	1,356.22	1,313.23	42.99	31.547	
4,700.00	4,465.41	4,245.37	3,646.31	25.39	40.20	49.18	736.95	1,815.10	1,392.37	1,347.93	44.44	31.330	
4,800.00	4,555.88	4,338.42	3,717.15	26.18	41.49	49.42	760.79	1,870.53	1,428.55	1,382.65	45.90	31.123	
4,900.00	4,646.36	4,431.47	3,787.98	26.97	42.79	49.66	784.63	1,925.96	1,464.75	1,417.39	47.36	30.926	
5,000.00	4,736.83	4,524.52	3,858.82	27.76	44.08	49.88	808.48	1,981.39	1,500.98	1,452.15	48.83	30.739	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	4,617.58	3,929.66	28.55	45.38	50.10	832.32	2,036.82	1,537.22	1,486.91	50.30	30.560	
5,200.00	4,917.77	4,710.63	4,000.49	29.35	46.68	50.30	856.16	2,092.25	1,573.47	1,521.70	51.78	30.390	
5,300.00	5,008.25	4,803.68	4,071.33	30.15	47.97	50.50	880.01	2,147.68	1,609.75	1,556.49	53.25	30.227	
5,400.00	5,098.72	4,903.27	4,142.17	30.94	49.36	50.68	903.85	2,203.10	1,646.04	1,591.25	54.79	30.044	
5,500.00	5,189.19	4,989.79	4,213.01	31.74	50.57	50.86	927.69	2,258.53	1,682.34	1,626.12	56.22	29.924	
5,600.00	5,279.67	5,082.84	4,283.84	32.54	51.87	51.03	951.54	2,313.96	1,718.66	1,660.95	57.71	29.782	
5,700.00	5,370.14	5,175.89	4,354.68	33.34	53.17	51.19	975.38	2,369.39	1,754.99	1,695.79	59.20	29.646	
5,800.00	5,460.61	5,268.94	4,425.52	34.14	54.47	51.35	999.22	2,424.82	1,791.33	1,730.64	60.69	29.516	
5,900.00	5,551.08	5,362.00	4,496.36	34.94	55.77	51.50	1,023.07	2,480.25	1,827.69	1,765.50	62.19	29.391	
6,000.00	5,641.56	5,455.05	4,567.19	35.75	57.07	51.64	1,046.91	2,535.68	1,864.05	1,800.37	63.68	29.271	
6,100.00	5,732.03	5,548.10	4,638.03	36.55	58.37	51.78	1,070.75	2,591.10	1,900.43	1,835.25	65.18	29.156	
6,200.00	5,822.50	5,641.15	4,708.87	37.35	59.67	51.92	1,094.60	2,646.53	1,936.81	1,870.13	66.68	29.045	
6,300.00	5,912.97	5,734.21	4,779.70	38.16	60.97	52.05	1,118.44	2,701.96	1,973.20	1,905.02	68.19	28.939	
6,400.00	6,003.45	5,827.26	4,850.54	38.96	62.27	52.17	1,142.28	2,757.39	2,009.60	1,939.91	69.69	28.836	
6,500.00	6,093.92	5,920.31	4,921.38	39.77	63.58	52.29	1,166.13	2,812.82	2,046.01	1,974.82	71.20	28.738	
6,600.00	6,184.39	6,013.36	4,992.22	40.57	64.88	52.41	1,189.97	2,868.25	2,082.43	2,009.72	72.70	28.643	
6,700.00	6,274.87	6,106.42	5,063.05	41.38	66.18	52.52	1,213.81	2,923.68	2,118.85	2,044.64	74.21	28.551	
6,800.00	6,365.34	6,200.53	5,133.89	42.18	67.50	52.63	1,237.66	2,979.10	2,155.28	2,079.55	75.73	28.459	
6,900.00	6,455.81	6,307.48	5,204.73	42.99	68.99	52.73	1,261.50	3,034.53	2,191.72	2,114.36	77.36	28.331	
7,000.00	6,546.28	6,385.57	5,275.57	43.80	70.09	52.83	1,285.34	3,089.96	2,228.16	2,149.41	78.75	28.295	
7,100.00	6,636.76	6,478.63	5,346.40	44.61	71.39	52.93	1,309.19	3,145.39	2,264.61	2,184.35	80.26	28.215	
7,200.00	6,727.23	6,571.68	5,417.24	45.41	72.69	53.02	1,333.03	3,200.82	2,301.06	2,219.29	81.78	28.138	
7,300.00	6,817.70	6,664.73	5,488.08	46.22	74.00	53.12	1,356.87	3,256.25	2,337.52	2,254.23	83.29	28.063	
7,383.79	6,893.51	6,742.70	5,547.43	46.90	75.09	53.19	1,376.85	3,302.69	2,368.08	2,283.51	84.57	28.003	
7,400.00	6,908.25	6,757.79	5,558.92	47.03	75.30	51.48	1,380.72	3,311.68	2,373.97	2,289.17	84.80	27.993	
7,450.00	6,954.52	6,804.40	5,594.40	47.40	75.95	44.38	1,392.66	3,339.44	2,391.94	2,306.50	85.44	27.994	
7,500.00	7,001.74	6,850.79	5,629.72	47.72	76.60	33.94	1,404.55	3,367.08	2,409.49	2,323.55	85.93	28.039	
7,550.00	7,049.55	6,903.38	5,664.61	47.99	77.34	20.01	1,416.29	3,394.38	2,426.51	2,340.18	86.33	28.109	
7,600.00	7,097.58	6,941.53	5,698.80	48.21	77.87	4.14	1,427.80	3,421.13	2,442.92	2,356.47	86.45	28.258	
7,650.00	7,145.48	6,985.19	5,732.03	48.37	78.48	-10.76	1,438.99	3,447.14	2,458.69	2,372.21	86.48	28.431	
7,700.00	7,192.88	7,027.27	5,764.06	48.48	79.07	-22.67	1,449.77	3,472.20	2,473.76	2,387.40	86.36	28.645	
7,750.00	7,239.41	7,067.43	5,794.64	48.54	79.64	-31.40	1,460.06	3,496.13	2,488.14	2,402.04	86.10	28.899	
7,800.00	7,284.72	7,105.38	5,823.53	48.56	80.17	-37.64	1,469.79	3,518.73	2,501.82	2,416.12	85.70	29.192	
7,850.00	7,328.47	7,140.84	5,850.52	48.54	80.67	-42.10	1,478.87	3,539.85	2,514.82	2,429.64	85.18	29.523	
7,900.00	7,370.32	7,173.51	5,875.39	48.47	81.12	-45.32	1,487.24	3,559.31	2,527.16	2,442.62	84.55	29.891	
7,950.00	7,409.96	7,203.17	5,897.97	48.37	81.54	-47.67	1,494.84	3,576.98	2,538.88	2,455.07	83.81	30.294	
8,000.00	7,447.08	7,229.58	5,918.08	48.24	81.91	-49.39	1,501.61	3,592.71	2,549.99	2,467.01	82.98	30.731	
8,050.00	7,481.41	7,252.55	5,935.56	48.07	82.23	-50.63	1,507.49	3,606.39	2,560.52	2,478.45	82.08	31.197	
8,100.00	7,512.67	7,271.89	5,950.28	47.87	82.50	-51.49	1,512.45	3,617.91	2,570.51	2,489.39	81.12	31.689	
8,150.00	7,540.64	7,287.46	5,962.14	47.65	82.72	-52.04	1,516.44	3,627.19	2,579.95	2,499.83	80.12	32.203	
8,200.00	7,565.09	7,299.15	5,971.04	47.40	82.88	-52.33	1,519.44	3,634.15	2,588.86	2,509.77	79.10	32.731	
8,250.00	7,585.85	7,306.86	5,976.90	47.14	82.99	-52.39	1,521.41	3,638.74	2,597.23	2,519.16	78.07	33.268	
8,300.00	7,602.75	7,310.53	5,979.70	46.86	83.04	-52.27	1,522.35	3,640.93	2,605.02	2,527.97	77.06	33.806	
8,350.00	7,615.67	7,310.14	5,979.40	46.58	83.04	-51.96	1,522.25	3,640.70	2,612.22	2,536.14	76.08	34.337	
8,400.00	7,624.51	7,305.69	5,976.02	46.28	82.98	-51.51	1,521.11	3,638.05	2,618.76	2,543.62	75.14	34.854	
8,450.00	7,629.19	7,302.79	5,969.56	45.98	82.93	-50.91	1,518.94	3,633.00	2,624.57	2,550.29	74.29	35.331	
8,481.00	7,630.00	7,289.96	5,964.04	45.79	82.76	-50.48	1,517.08	3,628.68	2,627.79	2,554.05	73.73	35.639	
8,500.00	7,630.00	7,285.06	5,960.31	45.68	82.69	-50.38	1,515.82	3,625.76	2,629.72	2,556.29	73.43	35.813	
8,600.00	7,630.00	7,259.23	5,940.65	45.11	82.32	-49.83	1,509.21	3,610.37	2,641.98	2,569.94	72.04	36.674	
8,700.00	7,630.00	7,233.41	5,920.99	44.56	81.96	-49.29	1,502.59	3,594.99	2,657.69	2,586.69	71.00	37.433	
8,800.00	7,630.00	7,207.58	5,901.33	44.05	81.60	-48.74	1,495.97	3,579.61	2,676.80	2,606.50	70.30	38.075	
8,900.00	7,630.00	7,181.76	5,881.67	43.57	81.24	-48.20	1,489.36	3,564.23	2,699.24	2,629.29	69.95	38.588	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,000.00	7,630.00	7,155.93	5,862.01	43.12	80.88	-47.65	1,482.74	3,548.84	2,724.91	2,654.99	69.92	38.971	
9,100.00	7,630.00	7,130.11	5,842.35	42.70	80.52	-47.11	1,476.12	3,533.46	2,753.74	2,683.55	70.19	39.232	
9,200.00	7,630.00	7,104.28	5,822.69	42.31	80.15	-46.57	1,469.50	3,518.08	2,785.63	2,714.90	70.73	39.385	
9,300.00	7,630.00	7,078.46	5,803.03	41.94	79.79	-46.03	1,462.89	3,502.69	2,820.46	2,748.96	71.50	39.446	
9,400.00	7,630.00	7,052.63	5,783.37	41.59	79.43	-45.49	1,456.27	3,487.31	2,858.13	2,785.66	72.48	39.436	
9,500.00	7,630.00	7,026.81	5,763.71	41.26	79.07	-44.95	1,449.65	3,471.93	2,898.54	2,824.93	73.61	39.376	
9,600.00	7,630.00	7,000.98	5,744.05	40.96	78.71	-44.41	1,443.03	3,456.54	2,941.57	2,866.69	74.88	39.284	
9,700.00	7,630.00	6,975.16	5,724.39	40.68	78.34	-43.87	1,436.42	3,441.16	2,987.10	2,910.85	76.24	39.178	
9,800.00	7,630.00	6,949.33	5,704.73	40.42	77.98	-43.34	1,429.80	3,425.78	3,035.02	2,957.34	77.68	39.072	
9,900.00	7,630.00	6,923.51	5,685.07	40.17	77.62	-42.80	1,423.18	3,410.39	3,085.23	3,006.07	79.16	38.976	
10,000.00	7,630.00	6,902.32	5,665.42	39.96	77.32	-42.27	1,416.57	3,395.01	3,137.61	3,056.92	80.69	38.885	
10,100.00	7,630.00	6,871.86	5,645.76	40.05	76.90	-41.74	1,409.95	3,379.63	3,192.05	3,109.89	82.16	38.850	
10,200.00	7,630.00	6,846.03	5,626.10	40.95	76.54	-41.21	1,403.33	3,364.24	3,248.45	3,164.80	83.66	38.830	
10,300.00	7,630.00	6,820.21	5,606.44	41.94	76.17	-40.69	1,396.71	3,348.86	3,306.72	3,221.59	85.13	38.844	
10,400.00	7,630.00	11,778.36	7,630.00	42.98	104.51	-90.03	-664.93	4,923.02	3,319.03	3,226.46	92.57	35.853	
10,500.00	7,630.00	11,878.36	7,630.00	44.06	104.46	-90.03	-764.93	4,922.68	3,319.03	3,224.82	94.21	35.229	
10,600.00	7,630.00	11,978.36	7,630.00	45.17	104.43	-90.03	-864.93	4,922.34	3,319.03	3,223.08	95.95	34.590	
10,700.00	7,630.00	12,078.36	7,630.00	46.32	104.42	-90.03	-964.93	4,922.01	3,319.03	3,221.25	97.79	33.941	
10,800.00	7,630.00	12,178.36	7,630.00	47.50	104.42	-90.03	-1,064.93	4,921.67	3,319.04	3,219.32	99.72	33.284	
10,900.00	7,630.00	12,278.36	7,630.00	48.70	104.44	-90.03	-1,164.93	4,921.33	3,319.04	3,217.31	101.73	32.626	
11,000.00	7,630.00	12,378.36	7,630.00	49.94	104.48	-90.03	-1,264.93	4,921.00	3,319.04	3,215.22	103.82	31.968	
11,100.00	7,630.00	12,478.36	7,630.00	51.20	104.53	-90.03	-1,364.93	4,920.66	3,319.04	3,213.05	105.99	31.314	
11,200.00	7,630.00	12,578.36	7,630.00	52.48	104.61	-90.03	-1,464.93	4,920.32	3,319.04	3,210.81	108.23	30.666	
11,300.00	7,630.00	12,678.36	7,630.00	53.79	104.70	-90.03	-1,564.93	4,919.98	3,319.04	3,208.50	110.54	30.026	
11,400.00	7,630.00	12,778.36	7,630.00	55.12	104.82	-90.03	-1,664.93	4,919.65	3,319.04	3,206.13	112.91	29.395	
11,500.00	7,630.00	12,878.36	7,630.00	56.46	104.96	-90.03	-1,764.93	4,919.31	3,319.04	3,203.70	115.34	28.776	
11,600.00	7,630.00	12,978.36	7,630.00	57.83	105.12	-90.03	-1,864.93	4,918.97	3,319.05	3,201.22	117.82	28.169	
11,700.00	7,630.00	13,078.36	7,630.00	59.22	105.30	-90.03	-1,964.93	4,918.64	3,319.05	3,198.69	120.36	27.576	
11,800.00	7,630.00	13,178.36	7,630.00	60.62	105.51	-90.03	-2,064.92	4,918.30	3,319.05	3,196.10	122.95	26.996	
11,900.00	7,630.00	13,278.36	7,630.00	62.04	105.74	-90.03	-2,164.92	4,917.96	3,319.05	3,193.47	125.58	26.430	
12,000.00	7,630.00	13,378.36	7,630.00	63.48	106.00	-90.03	-2,264.92	4,917.63	3,319.05	3,190.80	128.25	25.879	
12,100.00	7,630.00	13,478.36	7,630.00	64.93	106.29	-90.03	-2,364.92	4,917.29	3,319.05	3,188.08	130.97	25.343	
12,200.00	7,630.00	13,578.36	7,630.00	66.39	106.61	-90.03	-2,464.92	4,916.95	3,319.05	3,185.33	133.72	24.821	
12,300.00	7,630.00	13,678.36	7,630.00	67.86	106.95	-90.03	-2,564.92	4,916.62	3,319.05	3,182.55	136.51	24.314	
12,400.00	7,630.00	13,778.36	7,630.00	69.35	107.33	-90.03	-2,664.92	4,916.28	3,319.06	3,179.73	139.33	23.822	
12,500.00	7,630.00	13,878.36	7,630.00	70.85	107.74	-90.03	-2,764.92	4,915.94	3,319.06	3,176.87	142.18	23.343	
12,600.00	7,630.00	13,978.36	7,630.00	72.36	108.18	-90.03	-2,864.92	4,915.61	3,319.06	3,173.99	145.07	22.879	
12,700.00	7,630.00	14,078.36	7,630.00	73.88	108.66	-90.03	-2,964.92	4,915.27	3,319.06	3,171.08	147.98	22.429	
12,800.00	7,630.00	14,178.36	7,630.00	75.41	109.17	-90.03	-3,064.92	4,914.93	3,319.06	3,168.14	150.92	21.993	
12,900.00	7,630.00	14,278.36	7,630.00	76.95	109.72	-90.03	-3,164.92	4,914.59	3,319.06	3,165.18	153.88	21.569	
13,000.00	7,630.00	14,378.36	7,630.00	78.49	110.30	-90.03	-3,264.92	4,914.26	3,319.06	3,162.20	156.86	21.159	
13,100.00	7,630.00	14,478.36	7,630.00	80.05	110.92	-90.03	-3,364.92	4,913.92	3,319.06	3,159.19	159.87	20.761	
13,200.00	7,630.00	14,578.36	7,630.00	81.61	111.58	-90.03	-3,464.92	4,913.58	3,319.07	3,156.16	162.90	20.375	
13,300.00	7,630.00	14,678.36	7,630.00	83.18	112.27	-90.03	-3,564.92	4,913.25	3,319.07	3,153.11	165.95	20.000	
13,400.00	7,630.00	14,778.36	7,630.00	84.76	113.00	-90.03	-3,664.92	4,912.91	3,319.07	3,150.05	169.02	19.637	
13,500.00	7,630.00	14,878.36	7,630.00	86.34	113.77	-90.03	-3,764.91	4,912.57	3,319.07	3,146.96	172.11	19.285	
13,600.00	7,630.00	14,978.36	7,630.00	87.94	114.57	-90.03	-3,864.91	4,912.24	3,319.07	3,143.86	175.21	18.944	
13,700.00	7,630.00	15,078.36	7,630.00	89.53	115.41	-90.03	-3,964.91	4,911.90	3,319.07	3,140.74	178.33	18.612	
13,800.00	7,630.00	15,178.36	7,630.00	91.13	116.29	-90.03	-4,064.91	4,911.56	3,319.07	3,137.61	181.46	18.291	
13,900.00	7,630.00	15,278.36	7,630.00	92.74	117.20	-90.03	-4,164.91	4,911.23	3,319.07	3,134.47	184.61	17.979	
14,000.00	7,630.00	15,378.36	7,630.00	94.35	118.14	-90.03	-4,264.91	4,910.89	3,319.08	3,131.30	187.77	17.676	
14,100.00	7,630.00	15,478.36	7,630.00	95.97	119.12	-90.03	-4,364.91	4,910.55	3,319.08	3,128.13	190.95	17.382	

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

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

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

Reference		Offset		Semi Major Axis			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	7,630.00	15,578.36	7,630.00	97.60	120.13	-90.03	-4,464.91	4,910.22	3,319.08	3,124.94	194.13	17.097	
14,300.00	7,630.00	15,678.36	7,630.00	99.22	121.17	-90.03	-4,564.91	4,909.88	3,319.08	3,121.75	197.33	16.820	
14,400.00	7,630.00	15,778.36	7,630.00	100.85	122.24	-90.03	-4,664.91	4,909.54	3,319.08	3,118.54	200.54	16.551	
14,500.00	7,630.00	15,878.36	7,630.00	102.49	123.34	-90.03	-4,764.91	4,909.21	3,319.08	3,115.32	203.76	16.289	
14,600.00	7,630.00	15,978.36	7,630.00	104.13	124.46	-90.03	-4,864.91	4,908.87	3,319.08	3,112.09	206.99	16.035	
14,700.00	7,630.00	16,078.36	7,630.00	105.77	125.62	-90.03	-4,964.91	4,908.53	3,319.08	3,108.85	210.24	15.787	
14,800.00	7,630.00	16,178.36	7,630.00	107.42	126.79	-90.03	-5,064.91	4,908.19	3,319.09	3,105.60	213.49	15.547	
14,900.00	7,630.00	16,278.36	7,630.00	109.07	127.99	-90.03	-5,164.91	4,907.86	3,319.09	3,102.34	216.74	15.313	
15,000.00	7,630.00	16,378.36	7,630.00	110.72	129.21	-90.03	-5,264.91	4,907.52	3,319.09	3,099.08	220.01	15.086	
15,100.00	7,630.00	16,478.36	7,630.00	112.38	130.46	-90.03	-5,364.91	4,907.18	3,319.09	3,095.80	223.29	14.865	
15,200.00	7,630.00	16,578.36	7,630.00	114.04	131.72	-90.03	-5,464.91	4,906.85	3,319.09	3,092.52	226.57	14.649	
15,300.00	7,630.00	16,678.36	7,630.00	115.71	133.01	-90.03	-5,564.90	4,906.51	3,319.09	3,089.23	229.86	14.439	
15,400.00	7,630.00	16,778.36	7,630.00	117.37	134.31	-90.03	-5,664.90	4,906.17	3,319.09	3,085.93	233.16	14.235	
15,500.00	7,630.00	16,878.36	7,630.00	119.04	135.63	-90.03	-5,764.90	4,905.84	3,319.09	3,082.63	236.46	14.036	
15,600.00	7,630.00	16,978.36	7,630.00	120.71	136.96	-90.03	-5,864.90	4,905.50	3,319.10	3,079.32	239.78	13.842	
15,700.00	7,630.00	17,078.36	7,630.00	122.39	138.31	-90.03	-5,964.90	4,905.16	3,319.10	3,076.00	243.09	13.654	
15,800.00	7,630.00	17,178.36	7,630.00	124.06	139.68	-90.03	-6,064.90	4,904.83	3,319.10	3,072.68	246.42	13.469	
15,900.00	7,630.00	17,278.36	7,630.00	125.74	141.06	-90.03	-6,164.90	4,904.49	3,319.10	3,069.35	249.75	13.290	
16,000.00	7,630.00	17,378.36	7,630.00	127.42	142.45	-90.03	-6,264.90	4,904.15	3,319.10	3,066.02	253.08	13.115	
16,100.00	7,630.00	17,478.36	7,630.00	129.10	143.86	-90.03	-6,364.90	4,903.82	3,319.10	3,062.68	256.42	12.944	
16,200.00	7,630.00	17,578.36	7,630.00	130.79	145.27	-90.03	-6,464.90	4,903.48	3,319.10	3,059.34	259.77	12.777	
16,300.00	7,630.00	17,678.36	7,630.00	132.48	146.70	-90.03	-6,564.90	4,903.14	3,319.10	3,055.99	263.12	12.615	
16,400.00	7,630.00	17,778.36	7,630.00	134.17	148.14	-90.03	-6,664.90	4,902.80	3,319.11	3,052.63	266.47	12.456	
16,500.00	7,630.00	17,878.36	7,630.00	135.86	149.59	-90.03	-6,764.90	4,902.47	3,319.11	3,049.27	269.83	12.301	
16,600.00	7,630.00	17,978.36	7,630.00	137.55	151.05	-90.03	-6,864.90	4,902.13	3,319.11	3,045.91	273.20	12.149	
16,700.00	7,630.00	18,078.36	7,630.00	139.24	152.52	-90.03	-6,964.90	4,901.79	3,319.11	3,042.54	276.56	12.001	
16,800.00	7,630.00	18,178.36	7,630.00	140.94	154.00	-90.03	-7,064.90	4,901.46	3,319.11	3,039.17	279.94	11.857	
16,900.00	7,630.00	18,278.36	7,630.00	142.64	155.49	-90.03	-7,164.90	4,901.12	3,319.11	3,035.80	283.31	11.715	
17,000.00	7,630.00	18,378.36	7,630.00	144.34	156.98	-90.03	-7,264.90	4,900.78	3,319.11	3,032.42	286.69	11.577	
17,100.00	7,630.00	18,478.36	7,630.00	146.04	158.48	-90.03	-7,364.89	4,900.45	3,319.11	3,029.04	290.08	11.442	
17,200.00	7,630.00	18,578.36	7,630.00	147.74	159.99	-90.03	-7,464.89	4,900.11	3,319.12	3,025.65	293.46	11.310	
17,300.00	7,630.00	18,678.36	7,630.00	149.44	161.51	-90.03	-7,564.89	4,899.77	3,319.12	3,022.26	296.86	11.181	
17,400.00	7,630.00	18,778.36	7,630.00	151.15	163.03	-90.03	-7,664.89	4,899.44	3,319.12	3,018.87	300.25	11.055	
17,500.00	7,630.00	18,878.36	7,630.00	152.86	164.56	-90.03	-7,764.89	4,899.10	3,319.12	3,015.47	303.65	10.931	
17,600.00	7,630.00	18,978.36	7,630.00	154.56	166.10	-90.03	-7,864.89	4,898.76	3,319.12	3,012.07	307.05	10.810	
17,700.00	7,630.00	19,078.36	7,630.00	156.27	167.64	-90.03	-7,964.89	4,898.43	3,319.12	3,008.67	310.45	10.691	
17,800.00	7,630.00	19,178.36	7,630.00	157.98	169.19	-90.03	-8,064.89	4,898.09	3,319.12	3,005.27	313.86	10.575	
17,900.00	7,630.00	19,278.36	7,630.00	159.70	170.74	-90.03	-8,164.89	4,897.75	3,319.12	3,001.86	317.27	10.462	
18,000.00	7,630.00	19,378.36	7,630.00	161.41	172.30	-90.03	-8,264.89	4,897.42	3,319.13	2,998.45	320.68	10.350	
18,100.00	7,630.00	19,478.36	7,630.00	163.12	173.87	-90.03	-8,364.89	4,897.08	3,319.13	2,995.03	324.09	10.241	
18,100.23	7,630.00	19,478.59	7,630.00	163.13	173.87	-90.03	-8,365.12	4,897.08	3,319.13	2,995.03	324.10	10.241	
18,154.00	7,630.00	19,518.56	7,630.00	164.05	174.50	-90.03	-8,405.09	4,896.94	3,319.16	2,993.16	326.00	10.182	SF

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	90.38	-0.73	110.32	110.32				
100.00	100.00	102.00	98.00	0.13	0.14	90.38	-0.73	110.32	110.32	110.05	0.28	399.689	
200.00	200.00	202.00	198.00	0.49	0.50	90.38	-0.73	110.32	110.32	109.33	0.99	111.105	
300.00	300.00	298.00	298.00	0.85	0.84	90.38	-0.73	110.32	110.32	108.63	1.70	65.066	CC, ES
400.00	400.00	394.59	394.58	1.21	1.19	90.08	-0.15	111.77	111.82	109.43	2.40	46.636	
500.00	500.00	490.90	490.76	1.57	1.53	89.19	1.64	116.22	116.46	113.36	3.10	37.593	
600.00	600.00	586.78	586.30	1.93	1.88	87.86	4.61	123.63	124.27	120.47	3.80	32.732	
700.00	700.00	682.02	680.89	2.29	2.25	86.27	8.74	133.93	135.30	130.81	4.49	30.120	
800.00	800.00	776.42	774.22	2.64	2.63	84.57	13.98	147.00	149.57	144.39	5.18	28.866	
900.00	900.00	869.78	866.03	3.00	3.03	82.89	20.30	162.74	167.09	161.22	5.86	28.493	
1,000.00	1,000.00	961.94	956.06	3.36	3.45	81.33	27.61	180.98	187.82	181.28	6.54	28.728	
1,100.00	1,100.00	1,052.72	1,044.09	3.72	3.90	79.91	35.87	201.58	211.72	204.52	7.20	29.387	
1,200.00	1,200.00	1,141.98	1,129.91	4.08	4.38	78.66	45.00	224.34	238.72	230.87	7.85	30.411	
1,300.00	1,300.00	1,229.59	1,213.36	4.44	4.88	77.56	54.92	249.08	268.74	260.25	8.49	31.649	
1,400.00	1,400.00	1,315.43	1,294.30	4.79	5.41	76.62	65.56	275.61	301.68	292.56	9.12	33.084	
1,500.00	1,499.98	1,399.90	1,373.08	5.15	5.97	37.72	76.91	303.90	336.17	326.44	9.73	34.552	
1,600.00	1,599.84	1,483.46	1,450.08	5.51	6.57	37.01	88.98	333.99	370.82	360.49	10.33	35.896	
1,700.00	1,699.45	1,566.11	1,525.29	5.87	7.20	36.59	101.74	365.80	405.56	394.64	10.93	37.112	
1,800.00	1,798.70	1,647.87	1,598.69	6.23	7.87	36.38	115.15	399.23	440.35	428.83	11.53	38.208	
1,900.00	1,897.47	1,728.74	1,670.25	6.60	8.58	36.33	129.17	434.19	475.16	463.03	12.12	39.193	
2,000.00	1,995.62	1,808.74	1,739.96	6.99	9.31	36.40	143.78	470.61	509.97	497.24	12.73	40.068	
2,100.00	2,093.06	1,887.87	1,807.81	7.39	10.09	36.57	158.94	508.40	544.78	531.44	13.34	40.829	
2,200.00	2,189.64	1,966.16	1,873.80	7.82	10.90	36.81	174.61	547.48	579.59	565.62	13.97	41.474	
2,300.00	2,285.27	2,043.61	1,937.93	8.28	11.75	37.10	190.77	587.78	614.40	599.77	14.63	42.003	
2,400.00	2,379.82	2,120.23	2,000.21	8.77	12.62	37.44	207.39	629.22	649.21	633.90	15.31	42.412	
2,500.00	2,473.17	2,196.05	2,060.63	9.31	13.53	37.81	224.44	671.73	684.01	667.99	16.02	42.695	
2,600.00	2,565.21	2,271.09	2,119.21	9.88	14.47	38.21	241.89	715.24	718.83	702.05	16.78	42.839	
2,660.67	2,620.37	2,316.23	2,153.85	10.25	15.05	38.46	252.67	742.10	739.96	722.70	17.26	42.872	
2,700.00	2,655.96	2,349.77	2,179.35	10.50	15.50	38.85	260.78	762.33	753.79	736.14	17.65	42.708	
2,800.00	2,746.43	2,442.42	2,249.74	11.15	16.73	39.86	283.20	818.23	789.18	770.39	18.79	42.000	
2,900.00	2,836.90	2,535.06	2,320.13	11.82	17.98	40.79	305.63	874.14	824.77	804.80	19.97	41.304	
3,000.00	2,927.37	2,627.70	2,390.52	12.50	19.24	41.63	328.05	930.05	860.54	839.35	21.18	40.628	
3,100.00	3,017.85	2,720.35	2,460.90	13.21	20.50	42.42	350.47	985.95	896.46	874.03	22.42	39.978	
3,200.00	3,108.32	2,812.99	2,531.29	13.92	21.77	43.14	372.89	1,041.86	932.51	908.82	23.69	39.356	
3,300.00	3,198.79	2,905.63	2,601.68	14.64	23.04	43.81	395.32	1,097.76	968.69	943.70	24.99	38.765	
3,400.00	3,289.27	3,001.72	2,672.07	15.38	24.37	44.43	417.74	1,153.67	1,004.97	978.65	26.33	38.170	
3,500.00	3,379.74	3,090.92	2,742.46	16.12	25.60	45.01	440.16	1,209.58	1,041.36	1,013.72	27.64	37.674	
3,600.00	3,470.21	3,183.56	2,812.84	16.87	26.89	45.55	462.59	1,265.48	1,077.82	1,048.83	28.99	37.174	
3,700.00	3,560.68	3,276.21	2,883.23	17.62	28.17	46.05	485.01	1,321.39	1,114.37	1,084.01	30.36	36.703	
3,800.00	3,651.16	3,368.85	2,953.62	18.39	29.46	46.52	507.43	1,377.30	1,150.99	1,119.25	31.74	36.258	
3,900.00	3,741.63	3,461.49	3,024.01	19.15	30.75	46.97	529.86	1,433.20	1,187.67	1,154.53	33.14	35.839	
4,000.00	3,832.10	3,554.13	3,094.40	19.92	32.05	47.39	552.28	1,489.11	1,224.41	1,189.87	34.54	35.444	
4,100.00	3,922.57	3,646.78	3,164.78	20.69	33.34	47.78	574.70	1,545.02	1,261.21	1,225.25	35.96	35.072	
4,200.00	4,013.05	3,739.42	3,235.17	21.47	34.64	48.15	597.13	1,600.92	1,298.05	1,260.66	37.39	34.720	
4,300.00	4,103.52	3,832.06	3,305.56	22.25	35.93	48.50	619.55	1,656.83	1,334.94	1,296.12	38.82	34.388	
4,400.00	4,193.99	3,924.71	3,375.95	23.03	37.23	48.83	641.97	1,712.73	1,371.87	1,331.60	40.26	34.074	
4,500.00	4,284.47	4,017.35	3,446.34	23.81	38.53	49.15	664.39	1,768.64	1,408.83	1,367.12	41.71	33.777	
4,600.00	4,374.94	4,109.99	3,516.72	24.60	39.83	49.45	686.82	1,824.55	1,445.83	1,402.67	43.17	33.495	
4,700.00	4,465.41	4,202.64	3,587.11	25.39	41.13	49.73	709.24	1,880.45	1,482.87	1,438.24	44.63	33.229	
4,800.00	4,555.88	4,295.28	3,657.50	26.18	42.43	50.00	731.66	1,936.36	1,519.93	1,473.84	46.09	32.976	
4,900.00	4,646.36	4,387.92	3,727.89	26.97	43.73	50.26	754.09	1,992.27	1,557.03	1,509.46	47.56	32.735	
5,000.00	4,736.83	4,480.57	3,798.27	27.76	45.03	50.51	776.51	2,048.17	1,594.14	1,545.10	49.04	32.507	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	4,573.21	3,868.66	28.55	46.34	50.74	798.93	2,104.08	1,631.29	1,580.77	50.52	32.289	
5,200.00	4,917.77	4,665.85	3,939.05	29.35	47.64	50.96	821.36	2,159.99	1,668.45	1,616.45	52.01	32.082	
5,300.00	5,008.25	4,758.50	4,009.44	30.15	48.95	51.18	843.78	2,215.89	1,705.64	1,652.14	53.49	31.885	
5,400.00	5,098.72	4,851.14	4,079.83	30.94	50.25	51.38	866.20	2,271.80	1,742.84	1,687.86	54.99	31.696	
5,500.00	5,189.19	4,943.78	4,150.21	31.74	51.55	51.58	888.62	2,327.71	1,780.07	1,723.59	56.48	31.517	
5,600.00	5,279.67	5,036.43	4,220.60	32.54	52.86	51.77	911.05	2,383.61	1,817.31	1,759.33	57.98	31.345	
5,700.00	5,370.14	5,129.07	4,290.99	33.34	54.16	51.95	933.47	2,439.52	1,854.57	1,795.09	59.48	31.180	
5,800.00	5,460.61	5,221.71	4,361.38	34.14	55.47	52.12	955.89	2,495.42	1,891.84	1,830.86	60.98	31.023	
5,900.00	5,551.08	5,314.36	4,431.77	34.94	56.78	52.29	978.32	2,551.33	1,929.13	1,866.64	62.49	30.872	
6,000.00	5,641.56	5,407.00	4,502.15	35.75	58.08	52.45	1,000.74	2,607.24	1,966.43	1,902.43	64.00	30.727	
6,100.00	5,732.03	5,500.36	4,572.54	36.55	59.40	52.61	1,023.16	2,663.14	2,003.75	1,938.23	65.51	30.585	
6,200.00	5,822.50	5,607.71	4,642.93	37.35	60.91	52.75	1,045.59	2,719.05	2,041.07	1,973.93	67.15	30.397	
6,300.00	5,912.97	5,684.93	4,713.32	38.16	62.00	52.90	1,068.01	2,774.96	2,078.41	2,009.88	68.53	30.326	
6,400.00	6,003.45	5,777.57	4,783.70	38.96	63.31	53.04	1,090.43	2,830.86	2,115.76	2,045.71	70.05	30.203	
6,500.00	6,093.92	5,870.22	4,854.09	39.77	64.62	53.17	1,112.86	2,886.77	2,153.12	2,081.55	71.57	30.084	
6,600.00	6,184.39	5,962.86	4,924.48	40.57	65.93	53.30	1,135.28	2,942.68	2,190.49	2,117.40	73.09	29.970	
6,700.00	6,274.87	6,055.50	4,994.87	41.38	67.23	53.43	1,157.70	2,998.58	2,227.87	2,153.26	74.61	29.860	
6,800.00	6,365.34	6,148.15	5,065.26	42.18	68.54	53.55	1,180.12	3,054.49	2,265.25	2,189.12	76.13	29.754	
6,900.00	6,455.81	6,240.79	5,135.64	42.99	69.85	53.66	1,202.55	3,110.39	2,302.65	2,224.99	77.66	29.651	
7,000.00	6,546.28	6,333.43	5,206.03	43.80	71.16	53.78	1,224.97	3,166.30	2,340.05	2,260.87	79.18	29.552	
7,100.00	6,636.76	6,426.08	5,276.42	44.61	72.47	53.89	1,247.39	3,222.21	2,377.47	2,296.76	80.71	29.457	
7,200.00	6,727.23	6,518.72	5,346.81	45.41	73.77	53.99	1,269.82	3,278.11	2,414.88	2,332.65	82.24	29.365	
7,300.00	6,817.70	6,611.36	5,417.20	46.22	75.08	54.10	1,292.24	3,334.02	2,452.31	2,368.54	83.77	29.275	
7,383.79	6,893.51	6,688.99	5,476.17	46.90	76.18	54.18	1,311.03	3,380.86	2,483.67	2,398.62	85.05	29.203	
7,400.00	6,908.25	6,704.02	5,487.59	47.03	76.39	52.49	1,314.67	3,389.94	2,489.73	2,404.43	85.29	29.191	
7,450.00	6,954.52	6,750.47	5,522.89	47.40	77.05	45.45	1,325.91	3,417.97	2,508.12	2,422.18	85.94	29.185	
7,500.00	7,001.74	6,796.77	5,558.06	47.72	77.70	35.06	1,337.11	3,445.90	2,526.02	2,439.57	86.44	29.221	
7,550.00	7,049.55	6,842.56	5,592.86	47.99	78.35	21.18	1,348.20	3,473.54	2,543.30	2,456.50	86.80	29.301	
7,600.00	7,097.58	6,887.51	5,627.00	48.21	78.98	5.34	1,359.08	3,500.66	2,559.90	2,472.90	87.00	29.423	
7,650.00	7,145.48	6,931.26	5,660.24	48.37	79.60	-9.53	1,369.67	3,527.06	2,575.76	2,488.70	87.06	29.586	
7,700.00	7,192.88	6,973.48	5,692.33	48.48	80.20	-21.42	1,379.89	3,552.55	2,590.82	2,503.85	86.97	29.790	
7,750.00	7,239.41	7,013.86	5,723.00	48.54	80.77	-30.15	1,389.66	3,576.91	2,605.09	2,518.34	86.74	30.033	
7,800.00	7,284.72	7,052.08	5,752.04	48.56	81.31	-36.39	1,398.91	3,599.98	2,618.55	2,532.16	86.38	30.314	
7,850.00	7,328.47	7,087.86	5,779.22	48.54	81.82	-40.87	1,407.57	3,621.57	2,631.21	2,545.31	85.90	30.633	
7,900.00	7,370.32	7,120.92	5,804.34	48.47	82.28	-44.12	1,415.57	3,641.52	2,643.10	2,557.81	85.30	30.988	
7,950.00	7,409.96	7,151.00	5,827.20	48.37	82.71	-46.52	1,422.85	3,659.67	2,654.24	2,569.65	84.59	31.378	
8,000.00	7,447.08	7,177.89	5,847.63	48.24	83.09	-48.29	1,429.36	3,675.90	2,664.67	2,580.87	83.79	31.800	
8,050.00	7,481.41	7,201.38	5,865.48	48.07	83.42	-49.60	1,435.05	3,690.07	2,674.40	2,591.48	82.92	32.252	
8,100.00	7,512.67	7,221.28	5,880.60	47.87	83.70	-50.55	1,439.86	3,702.08	2,683.47	2,601.49	81.99	32.730	
8,150.00	7,540.64	7,237.46	5,892.88	47.65	83.93	-51.20	1,443.78	3,711.84	2,691.90	2,610.89	81.01	33.230	
8,200.00	7,565.09	7,249.77	5,902.24	47.40	84.10	-51.61	1,446.76	3,719.27	2,699.69	2,619.69	80.00	33.745	
8,250.00	7,585.85	7,258.13	5,908.60	47.14	84.22	-51.80	1,448.78	3,724.32	2,706.84	2,627.86	78.99	34.270	
8,300.00	7,602.75	7,262.48	5,911.90	46.86	84.28	-51.81	1,449.84	3,726.94	2,713.35	2,635.38	77.97	34.798	
8,350.00	7,615.67	7,262.78	5,912.13	46.58	84.29	-51.65	1,449.91	3,727.13	2,719.19	2,642.20	76.99	35.321	
8,400.00	7,624.51	7,259.04	5,909.28	46.28	84.24	-51.35	1,449.00	3,724.87	2,724.31	2,648.28	76.03	35.831	
8,450.00	7,629.19	7,251.27	5,903.38	45.98	84.13	-50.92	1,447.12	3,720.18	2,728.66	2,653.54	75.13	36.322	
8,481.00	7,630.00	7,244.46	5,898.21	45.79	84.03	-50.59	1,445.47	3,716.07	2,730.96	2,656.36	74.59	36.612	
8,500.00	7,630.00	7,239.82	5,894.68	45.68	83.96	-50.49	1,444.35	3,713.27	2,732.32	2,658.04	74.28	36.786	
8,600.00	7,630.00	7,215.41	5,876.14	45.11	83.62	-50.00	1,438.44	3,698.54	2,741.54	2,668.72	72.81	37.651	
8,700.00	7,630.00	7,208.99	5,857.59	44.56	83.53	-49.50	1,432.54	3,683.81	2,754.14	2,682.35	71.79	38.363	
8,800.00	7,630.00	7,166.60	5,839.05	44.05	82.93	-49.00	1,426.63	3,669.08	2,770.08	2,699.20	70.88	39.079	
8,900.00	7,630.00	7,142.19	5,820.51	43.57	82.58	-48.50	1,420.72	3,654.35	2,789.31	2,718.89	70.42	39.610	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,000.00	7,630.00	7,117.78	5,801.96	43.12	82.24	-48.01	1,414.81	3,639.62	2,811.74	2,741.47	70.28	40.010	
9,100.00	7,630.00	7,106.62	5,783.42	42.70	82.08	-47.51	1,408.91	3,624.90	2,837.32	2,766.81	70.51	40.240	
9,200.00	7,630.00	7,068.97	5,764.87	42.31	81.55	-47.02	1,403.00	3,610.17	2,865.96	2,795.09	70.87	40.440	
9,300.00	7,630.00	7,044.56	5,746.33	41.94	81.20	-46.52	1,397.09	3,595.44	2,897.55	2,826.00	71.55	40.496	
9,400.00	7,630.00	7,020.15	5,727.78	41.59	80.86	-46.03	1,391.18	3,580.71	2,932.02	2,859.57	72.45	40.471	
9,500.00	7,630.00	7,004.25	5,709.24	41.26	80.63	-45.54	1,385.28	3,565.98	2,969.25	2,895.67	73.58	40.356	
9,600.00	7,630.00	6,971.34	5,690.70	40.96	80.17	-45.05	1,379.37	3,551.25	3,009.15	2,934.40	74.75	40.256	
9,700.00	7,630.00	6,946.93	5,672.15	40.68	79.82	-44.55	1,373.46	3,536.52	3,051.61	2,975.52	76.09	40.105	
9,800.00	7,630.00	6,922.52	5,653.61	40.42	79.48	-44.06	1,367.55	3,521.79	3,096.53	3,019.01	77.52	39.945	
9,900.00	7,630.00	6,898.12	5,635.06	40.17	79.13	-43.58	1,361.65	3,507.06	3,143.79	3,064.79	79.01	39.791	
10,000.00	7,630.00	6,873.71	5,616.52	39.96	78.79	-43.09	1,355.74	3,492.34	3,193.31	3,112.77	80.53	39.651	
10,100.00	7,630.00	6,849.30	5,597.98	40.05	78.44	-42.60	1,349.83	3,477.61	3,244.96	3,162.88	82.08	39.535	
10,200.00	7,630.00	6,824.89	5,579.43	40.95	78.10	-42.12	1,343.92	3,462.88	3,298.66	3,215.04	83.62	39.447	
10,300.00	7,630.00	6,800.49	5,560.89	41.94	77.76	-41.63	1,338.01	3,448.15	3,354.30	3,269.15	85.15	39.391	
10,400.00	7,630.00	6,776.08	5,542.34	42.98	77.41	-41.15	1,332.11	3,433.42	3,411.80	3,325.14	86.66	39.370	
10,500.00	7,630.00	6,751.67	5,523.80	44.06	77.07	-40.67	1,326.20	3,418.69	3,471.05	3,382.92	88.13	39.385	
10,600.00	7,630.00	6,727.26	5,505.25	45.17	76.72	-40.19	1,320.29	3,403.96	3,531.97	3,442.40	89.56	39.436	
10,700.00	7,630.00	6,702.86	5,486.71	46.32	76.38	-39.71	1,314.38	3,389.23	3,594.47	3,503.52	90.95	39.523	
10,800.00	7,630.00	6,678.45	5,468.17	47.50	76.03	-39.24	1,308.48	3,374.50	3,658.48	3,566.20	92.28	39.645	
10,900.00	7,630.00	12,650.60	7,870.00	48.70	112.18	-93.77	-1,166.05	5,271.33	3,677.01	3,576.58	100.43	36.614	
11,000.00	7,630.00	12,750.60	7,870.00	49.94	112.21	-93.77	-1,266.05	5,270.99	3,677.01	3,574.51	102.50	35.874	
11,100.00	7,630.00	12,850.60	7,870.00	51.20	112.25	-93.77	-1,366.05	5,270.66	3,677.01	3,572.37	104.64	35.138	
11,200.00	7,630.00	12,950.60	7,870.00	52.48	112.32	-93.77	-1,466.05	5,270.32	3,677.02	3,570.15	106.87	34.408	
11,300.00	7,630.00	13,050.60	7,870.00	53.79	112.40	-93.77	-1,566.05	5,269.99	3,677.02	3,567.87	109.15	33.687	
11,400.00	7,630.00	13,150.60	7,870.00	55.12	112.50	-93.77	-1,666.05	5,269.65	3,677.02	3,565.52	111.51	32.976	
11,500.00	7,630.00	13,250.60	7,870.00	56.46	112.62	-93.77	-1,766.04	5,269.32	3,677.02	3,563.11	113.92	32.278	
11,600.00	7,630.00	13,350.60	7,870.00	57.83	112.75	-93.77	-1,866.04	5,268.98	3,677.03	3,560.64	116.39	31.593	
11,700.00	7,630.00	13,450.60	7,870.00	59.22	112.91	-93.77	-1,966.04	5,268.65	3,677.03	3,558.12	118.91	30.923	
11,800.00	7,630.00	13,550.60	7,870.00	60.62	113.09	-93.77	-2,066.04	5,268.31	3,677.03	3,555.55	121.48	30.269	
11,900.00	7,630.00	13,650.60	7,870.00	62.04	113.29	-93.77	-2,166.04	5,267.98	3,677.04	3,552.94	124.10	29.630	
12,000.00	7,630.00	13,750.60	7,870.00	63.48	113.51	-93.77	-2,266.04	5,267.64	3,677.04	3,550.28	126.76	29.008	
12,100.00	7,630.00	13,850.60	7,870.00	64.93	113.76	-93.77	-2,366.04	5,267.31	3,677.04	3,547.58	129.46	28.403	
12,200.00	7,630.00	13,950.60	7,870.00	66.39	114.03	-93.77	-2,466.04	5,266.97	3,677.04	3,544.84	132.20	27.814	
12,300.00	7,630.00	14,050.60	7,870.00	67.86	114.33	-93.77	-2,566.04	5,266.64	3,677.05	3,542.07	134.98	27.242	
12,400.00	7,630.00	14,150.60	7,870.00	69.35	114.65	-93.77	-2,666.04	5,266.30	3,677.05	3,539.26	137.79	26.686	
12,500.00	7,630.00	14,250.60	7,870.00	70.85	115.00	-93.77	-2,766.04	5,265.97	3,677.05	3,536.42	140.63	26.146	
12,600.00	7,630.00	14,350.60	7,870.00	72.36	115.38	-93.77	-2,866.04	5,265.63	3,677.06	3,533.55	143.51	25.623	
12,700.00	7,630.00	14,450.60	7,870.00	73.88	115.78	-93.77	-2,966.04	5,265.30	3,677.06	3,530.65	146.41	25.115	
12,800.00	7,630.00	14,550.60	7,870.00	75.41	116.22	-93.77	-3,066.04	5,264.96	3,677.06	3,527.73	149.34	24.623	
12,900.00	7,630.00	14,650.60	7,870.00	76.95	116.68	-93.77	-3,166.04	5,264.62	3,677.07	3,524.78	152.29	24.145	
13,000.00	7,630.00	14,750.60	7,870.00	78.49	117.18	-93.77	-3,266.04	5,264.29	3,677.07	3,521.80	155.27	23.682	
13,100.00	7,630.00	14,850.60	7,870.00	80.05	117.71	-93.77	-3,366.04	5,263.95	3,677.07	3,518.80	158.27	23.233	
13,200.00	7,630.00	14,950.60	7,870.00	81.61	118.27	-93.77	-3,466.04	5,263.62	3,677.07	3,515.79	161.29	22.798	
13,300.00	7,630.00	15,050.60	7,870.00	83.18	118.86	-93.77	-3,566.03	5,263.28	3,677.08	3,512.75	164.33	22.376	
13,400.00	7,630.00	15,150.60	7,870.00	84.76	119.49	-93.77	-3,666.03	5,262.95	3,677.08	3,509.69	167.39	21.967	
13,500.00	7,630.00	15,250.60	7,870.00	86.34	120.14	-93.77	-3,766.03	5,262.61	3,677.08	3,506.61	170.47	21.571	
13,600.00	7,630.00	15,350.60	7,870.00	87.94	120.84	-93.77	-3,866.03	5,262.28	3,677.09	3,503.52	173.56	21.186	
13,700.00	7,630.00	15,450.60	7,870.00	89.53	121.56	-93.77	-3,966.03	5,261.94	3,677.09	3,500.41	176.67	20.813	
13,800.00	7,630.00	15,550.60	7,870.00	91.13	122.32	-93.77	-4,066.03	5,261.61	3,677.09	3,497.29	179.80	20.451	
13,900.00	7,630.00	15,650.60	7,870.00	92.74	123.12	-93.77	-4,166.03	5,261.27	3,677.09	3,494.15	182.94	20.100	
14,000.00	7,630.00	15,750.60	7,870.00	94.35	123.94	-93.77	-4,266.03	5,260.94	3,677.10	3,491.00	186.10	19.759	
14,100.00	7,630.00	15,850.60	7,870.00	95.97	124.80	-93.77	-4,366.03	5,260.60	3,677.10	3,487.83	189.27	19.428	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,630.00	15,950.60	7,870.00	97.60	125.69	-93.77	-4,466.03	5,260.27	3,677.10	3,484.66	192.45	19.107	
14,300.00	7,630.00	16,050.60	7,870.00	99.22	126.61	-93.77	-4,566.03	5,259.93	3,677.11	3,481.47	195.64	18.795	
14,400.00	7,630.00	16,150.60	7,870.00	100.85	127.56	-93.77	-4,666.03	5,259.60	3,677.11	3,478.27	198.84	18.493	
14,500.00	7,630.00	16,250.60	7,870.00	102.49	128.54	-93.77	-4,766.03	5,259.26	3,677.11	3,475.05	202.06	18.198	
14,600.00	7,630.00	16,350.60	7,870.00	104.13	129.55	-93.77	-4,866.03	5,258.93	3,677.11	3,471.83	205.28	17.913	
14,700.00	7,630.00	16,450.60	7,870.00	105.77	130.59	-93.77	-4,966.03	5,258.59	3,677.12	3,468.60	208.52	17.635	
14,800.00	7,630.00	16,550.60	7,870.00	107.42	131.65	-93.77	-5,066.03	5,258.26	3,677.12	3,465.36	211.76	17.365	
14,900.00	7,630.00	16,650.60	7,870.00	109.07	132.74	-93.77	-5,166.03	5,257.92	3,677.12	3,462.11	215.01	17.102	
15,000.00	7,630.00	16,750.60	7,870.00	110.72	133.86	-93.77	-5,266.03	5,257.59	3,677.13	3,458.85	218.27	16.846	
15,100.00	7,630.00	16,850.60	7,870.00	112.38	135.00	-93.77	-5,366.02	5,257.25	3,677.13	3,455.58	221.54	16.598	
15,200.00	7,630.00	16,950.60	7,870.00	114.04	136.16	-93.77	-5,466.02	5,256.92	3,677.13	3,452.31	224.82	16.356	
15,300.00	7,630.00	17,050.60	7,870.00	115.71	137.35	-93.77	-5,566.02	5,256.58	3,677.13	3,449.03	228.11	16.120	
15,400.00	7,630.00	17,150.60	7,870.00	117.37	138.55	-93.77	-5,666.02	5,256.24	3,677.14	3,445.74	231.40	15.891	
15,500.00	7,630.00	17,250.60	7,870.00	119.04	139.78	-93.77	-5,766.02	5,255.91	3,677.14	3,442.44	234.70	15.668	
15,600.00	7,630.00	17,350.60	7,870.00	120.71	141.03	-93.77	-5,866.02	5,255.57	3,677.14	3,439.14	238.00	15.450	
15,700.00	7,630.00	17,450.60	7,870.00	122.39	142.29	-93.77	-5,966.02	5,255.24	3,677.15	3,435.83	241.31	15.238	
15,800.00	7,630.00	17,550.60	7,870.00	124.06	143.57	-93.77	-6,066.02	5,254.90	3,677.15	3,432.52	244.63	15.031	
15,900.00	7,630.00	17,650.60	7,870.00	125.74	144.87	-93.77	-6,166.02	5,254.57	3,677.15	3,429.20	247.95	14.830	
16,000.00	7,630.00	17,750.60	7,870.00	127.42	146.19	-93.77	-6,266.02	5,254.23	3,677.15	3,425.87	251.28	14.633	
16,100.00	7,630.00	17,850.60	7,870.00	129.10	147.52	-93.77	-6,366.02	5,253.90	3,677.16	3,422.54	254.62	14.442	
16,200.00	7,630.00	17,950.60	7,870.00	130.79	148.87	-93.77	-6,466.02	5,253.56	3,677.16	3,419.20	257.96	14.255	
16,300.00	7,630.00	18,050.60	7,870.00	132.48	150.22	-93.77	-6,566.02	5,253.23	3,677.16	3,415.86	261.30	14.072	
16,400.00	7,630.00	18,150.60	7,870.00	134.17	151.60	-93.77	-6,666.02	5,252.89	3,677.17	3,412.51	264.65	13.894	
16,500.00	7,630.00	18,250.60	7,870.00	135.86	152.98	-93.77	-6,766.02	5,252.56	3,677.17	3,409.16	268.01	13.720	
16,600.00	7,630.00	18,350.60	7,870.00	137.55	154.38	-93.77	-6,866.02	5,252.22	3,677.17	3,405.81	271.36	13.551	
16,700.00	7,630.00	18,450.60	7,870.00	139.24	155.79	-93.77	-6,966.02	5,251.89	3,677.17	3,402.45	274.73	13.385	
16,800.00	7,630.00	18,550.60	7,870.00	140.94	157.21	-93.77	-7,066.02	5,251.55	3,677.18	3,399.08	278.09	13.223	
16,900.00	7,630.00	18,650.60	7,870.00	142.64	158.64	-93.77	-7,166.01	5,251.22	3,677.18	3,395.72	281.46	13.064	
17,000.00	7,630.00	18,750.60	7,870.00	144.34	160.08	-93.77	-7,266.01	5,250.88	3,677.18	3,392.35	284.84	12.910	
17,100.00	7,630.00	18,850.60	7,870.00	146.04	161.53	-93.77	-7,366.01	5,250.55	3,677.19	3,388.97	288.22	12.758	
17,200.00	7,630.00	18,950.60	7,870.00	147.74	162.99	-93.77	-7,466.01	5,250.21	3,677.19	3,385.59	291.60	12.610	
17,300.00	7,630.00	19,050.61	7,870.00	149.44	164.45	-93.77	-7,566.01	5,249.88	3,677.19	3,382.21	294.98	12.466	
17,400.00	7,630.00	19,150.61	7,870.00	151.15	165.93	-93.77	-7,666.01	5,249.54	3,677.19	3,378.82	298.37	12.324	
17,500.00	7,630.00	19,250.61	7,870.00	152.86	167.42	-93.77	-7,766.01	5,249.21	3,677.20	3,375.43	301.76	12.186	
17,600.00	7,630.00	19,350.61	7,870.00	154.56	168.91	-93.77	-7,866.01	5,248.87	3,677.20	3,372.04	305.16	12.050	
17,700.00	7,630.00	19,450.61	7,870.00	156.27	170.41	-93.77	-7,966.01	5,248.54	3,677.20	3,368.65	308.56	11.917	
17,800.00	7,630.00	19,550.61	7,870.00	157.98	171.91	-93.77	-8,066.01	5,248.20	3,677.21	3,365.25	311.96	11.788	
17,900.00	7,630.00	19,650.61	7,870.00	159.70	173.43	-93.77	-8,166.01	5,247.86	3,677.21	3,361.85	315.36	11.660	
18,000.00	7,630.00	19,750.61	7,870.00	161.41	174.94	-93.77	-8,266.01	5,247.53	3,677.21	3,358.45	318.77	11.536	
18,100.00	7,630.00	19,850.61	7,870.00	163.12	176.47	-93.77	-8,366.01	5,247.19	3,677.22	3,355.04	322.17	11.414	
18,100.14	7,630.00	19,850.75	7,870.00	163.12	176.47	-93.77	-8,366.15	5,247.19	3,677.22	3,355.04	322.18	11.414	
18,154.00	7,630.00	19,889.26	7,870.00	164.05	177.06	-93.77	-8,404.66	5,247.06	3,677.25	3,353.18	324.07	11.347	SF

Anticollision Report

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	90.35	-0.73	120.12	120.12				
100.00	100.00	102.00	98.00	0.13	0.14	90.35	-0.73	120.12	120.12	119.85	0.28	435.193	
200.00	200.00	198.00	198.00	0.49	0.49	90.35	-0.73	120.12	120.12	119.14	0.98	122.747	CC, ES
300.00	300.00	294.28	294.26	0.85	0.83	90.08	-0.18	121.57	121.63	119.95	1.68	72.325	
400.00	400.00	390.26	390.12	1.21	1.17	89.32	1.51	126.03	126.28	123.90	2.38	52.960	
500.00	500.00	485.83	485.35	1.57	1.53	88.15	4.31	133.45	134.11	131.03	3.09	43.454	
600.00	600.00	580.75	579.63	1.93	1.89	86.73	8.21	143.75	145.15	141.37	3.79	38.344	
700.00	700.00	674.85	672.68	2.29	2.28	85.21	13.16	156.85	159.42	154.94	4.48	35.586	
800.00	800.00	767.92	764.21	2.64	2.69	83.68	19.11	172.60	176.92	171.75	5.17	34.234	
900.00	900.00	859.80	853.98	3.00	3.12	82.24	26.02	190.88	197.61	191.76	5.85	33.791	
1,000.00	1,000.00	950.31	941.76	3.36	3.57	80.92	33.82	211.50	221.45	214.93	6.52	33.962	
1,100.00	1,100.00	1,039.32	1,027.36	3.72	4.06	79.73	42.44	234.31	248.38	241.20	7.17	34.634	
1,200.00	1,200.00	1,126.68	1,110.61	4.08	4.57	78.69	51.81	259.10	278.30	270.48	7.82	35.568	
1,300.00	1,300.00	1,212.30	1,191.37	4.44	5.11	77.78	61.87	285.68	311.15	302.69	8.46	36.773	
1,400.00	1,400.00	1,296.07	1,269.53	4.79	5.67	76.99	72.52	313.87	346.81	337.73	9.09	38.174	
1,500.00	1,499.98	1,378.43	1,345.48	5.15	6.27	38.15	83.78	343.65	383.94	374.25	9.69	39.608	
1,600.00	1,599.84	1,459.86	1,419.64	5.51	6.91	37.46	95.67	375.10	421.18	410.89	10.29	40.927	
1,700.00	1,699.45	1,540.37	1,492.00	5.87	7.57	37.02	108.15	408.11	458.45	447.56	10.89	42.117	
1,800.00	1,798.70	1,619.97	1,562.53	6.23	8.27	36.77	121.19	442.61	495.72	484.24	11.48	43.187	
1,900.00	1,897.47	1,698.67	1,631.24	6.60	9.00	36.67	134.77	478.51	532.95	520.88	12.07	44.142	
2,000.00	1,995.62	1,776.49	1,698.12	6.99	9.77	36.69	148.84	515.73	570.14	557.47	12.68	44.975	
2,100.00	2,093.06	1,853.44	1,763.16	7.39	10.57	36.79	163.38	554.19	607.28	593.99	13.29	45.695	
2,200.00	2,189.64	1,929.54	1,826.37	7.82	11.40	36.96	178.36	593.81	644.35	630.43	13.92	46.300	
2,300.00	2,285.27	2,004.79	1,887.75	8.28	12.26	37.18	193.75	634.53	681.36	666.80	14.56	46.784	
2,400.00	2,379.82	2,079.21	1,947.31	8.77	13.16	37.44	209.53	676.27	718.32	703.08	15.24	47.133	
2,500.00	2,473.17	2,152.83	2,005.07	9.31	14.09	37.74	225.67	718.97	755.21	739.26	15.95	47.349	
2,600.00	2,565.21	2,225.66	2,061.03	9.88	15.04	38.06	242.15	762.56	792.05	775.35	16.70	47.432	
2,660.67	2,620.37	2,269.47	2,094.12	10.25	15.63	38.27	252.31	789.41	814.37	797.20	17.17	47.418	
2,700.00	2,655.96	2,300.00	2,116.92	10.50	16.05	38.62	259.49	808.41	829.03	811.51	17.52	47.308	
2,800.00	2,746.43	2,368.48	2,167.26	11.15	17.02	39.33	275.91	851.84	867.99	849.67	18.32	47.388	
2,900.00	2,836.90	2,451.24	2,226.98	11.82	18.23	40.11	296.17	905.42	908.86	889.50	19.36	46.948	
3,000.00	2,927.37	2,541.62	2,292.12	12.50	19.56	40.89	318.33	964.04	950.04	929.49	20.55	46.225	
3,100.00	3,017.85	2,632.01	2,357.26	13.21	20.90	41.61	340.49	1,022.65	991.36	969.58	21.78	45.526	
3,200.00	3,108.32	2,722.40	2,422.40	13.92	22.25	42.26	362.65	1,081.26	1,032.79	1,009.77	23.02	44.856	
3,300.00	3,198.79	2,812.79	2,487.54	14.64	23.60	42.87	384.81	1,139.88	1,074.33	1,050.03	24.30	44.217	
3,400.00	3,289.27	2,903.17	2,552.68	15.38	24.96	43.43	406.97	1,198.49	1,115.96	1,090.37	25.59	43.610	
3,500.00	3,379.74	3,006.44	2,617.82	16.12	26.51	43.96	429.13	1,257.11	1,157.68	1,130.69	26.99	42.886	
3,600.00	3,470.21	3,083.95	2,682.95	16.87	27.68	44.44	451.29	1,315.72	1,199.47	1,171.24	28.23	42.491	
3,700.00	3,560.68	3,174.33	2,748.09	17.62	29.05	44.90	473.45	1,374.33	1,241.33	1,211.76	29.57	41.977	
3,800.00	3,651.16	3,264.72	2,813.23	18.39	30.42	45.32	495.61	1,432.95	1,283.25	1,252.33	30.93	41.493	
3,900.00	3,741.63	3,355.11	2,878.37	19.15	31.79	45.72	517.76	1,491.56	1,325.23	1,292.93	32.29	41.036	
4,000.00	3,832.10	3,445.49	2,943.51	19.92	33.17	46.10	539.92	1,550.17	1,367.25	1,333.58	33.67	40.605	
4,100.00	3,922.57	3,535.88	3,008.65	20.69	34.55	46.45	562.08	1,608.79	1,409.32	1,374.26	35.06	40.197	
4,200.00	4,013.05	3,626.27	3,073.79	21.47	35.92	46.78	584.24	1,667.40	1,451.44	1,414.98	36.46	39.813	
4,300.00	4,103.52	3,716.65	3,138.93	22.25	37.30	47.09	606.40	1,726.02	1,493.59	1,455.73	37.86	39.449	
4,400.00	4,193.99	3,807.04	3,204.07	23.03	38.68	47.39	628.56	1,784.63	1,535.77	1,496.50	39.27	39.105	
4,500.00	4,284.47	3,897.43	3,269.21	23.81	40.06	47.67	650.72	1,843.24	1,577.99	1,537.30	40.69	38.779	
4,600.00	4,374.94	3,987.81	3,334.35	24.60	41.45	47.93	672.88	1,901.86	1,620.24	1,578.12	42.12	38.470	
4,700.00	4,465.41	4,078.20	3,399.49	25.39	42.83	48.19	695.04	1,960.47	1,662.51	1,618.96	43.55	38.177	
4,800.00	4,555.88	4,168.59	3,464.63	26.18	44.21	48.43	717.20	2,019.08	1,704.81	1,659.83	44.98	37.899	
4,900.00	4,646.36	4,258.97	3,529.77	26.97	45.60	48.66	739.36	2,077.70	1,747.13	1,700.71	46.42	37.635	
5,000.00	4,736.83	4,349.36	3,594.91	27.76	46.98	48.87	761.52	2,136.31	1,789.48	1,741.61	47.87	37.384	

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,827.30	4,439.75	3,660.05	28.55	48.37	49.08	783.68	2,194.92	1,831.84	1,782.53	49.32	37.144	
5,200.00	4,917.77	4,530.13	3,725.19	29.35	49.76	49.28	805.84	2,253.54	1,874.23	1,823.46	50.77	36.916	
5,300.00	5,008.25	4,620.52	3,790.33	30.15	51.14	49.47	828.00	2,312.15	1,916.63	1,864.40	52.23	36.699	
5,400.00	5,098.72	4,710.91	3,855.46	30.94	52.53	49.65	850.16	2,370.77	1,959.05	1,905.36	53.69	36.491	
5,500.00	5,189.19	4,801.29	3,920.60	31.74	53.92	49.82	872.32	2,429.38	2,001.48	1,946.33	55.15	36.293	
5,600.00	5,279.67	4,891.68	3,985.74	32.54	55.31	49.99	894.48	2,487.99	2,043.93	1,987.32	56.61	36.103	
5,700.00	5,370.14	4,982.07	4,050.88	33.34	56.70	50.15	916.64	2,546.61	2,086.39	2,028.31	58.08	35.921	
5,800.00	5,460.61	5,072.45	4,116.02	34.14	58.08	50.30	938.80	2,605.22	2,128.87	2,069.31	59.55	35.747	
5,900.00	5,551.08	5,162.84	4,181.16	34.94	59.47	50.45	960.96	2,663.83	2,171.35	2,110.33	61.03	35.581	
6,000.00	5,641.56	5,253.23	4,246.30	35.75	60.86	50.59	983.12	2,722.45	2,213.85	2,151.35	62.50	35.421	
6,100.00	5,732.03	5,343.61	4,311.44	36.55	62.25	50.73	1,005.28	2,781.06	2,256.36	2,192.38	63.98	35.267	
6,200.00	5,822.50	5,434.00	4,376.58	37.35	63.64	50.86	1,027.44	2,839.68	2,298.88	2,233.42	65.46	35.120	
6,300.00	5,912.97	5,524.39	4,441.72	38.16	65.03	50.99	1,049.60	2,898.29	2,341.41	2,274.47	66.94	34.978	
6,400.00	6,003.45	5,614.77	4,506.86	38.96	66.43	51.11	1,071.76	2,956.90	2,383.94	2,315.52	68.42	34.841	
6,500.00	6,093.92	5,705.16	4,572.00	39.77	67.82	51.23	1,093.92	3,015.52	2,426.49	2,356.58	69.91	34.710	
6,600.00	6,184.39	5,804.45	4,637.14	40.57	69.34	51.34	1,116.08	3,074.13	2,469.04	2,397.57	71.47	34.546	
6,700.00	6,274.87	5,885.93	4,702.28	41.38	70.60	51.45	1,138.24	3,132.74	2,511.60	2,438.72	72.88	34.461	
6,800.00	6,365.34	5,976.32	4,767.42	42.18	71.99	51.56	1,160.40	3,191.36	2,554.17	2,479.80	74.37	34.343	
6,900.00	6,455.81	6,066.71	4,832.56	42.99	73.38	51.66	1,182.56	3,249.97	2,596.75	2,520.89	75.86	34.229	
7,000.00	6,546.28	6,157.10	4,897.70	43.80	74.77	51.76	1,204.72	3,308.58	2,639.33	2,561.98	77.36	34.119	
7,100.00	6,636.76	6,247.48	4,962.84	44.61	76.17	51.85	1,226.88	3,367.20	2,681.92	2,603.07	78.85	34.013	
7,200.00	6,727.23	6,337.87	5,027.97	45.41	77.56	51.95	1,249.04	3,425.81	2,724.52	2,644.17	80.34	33.911	
7,300.00	6,817.70	6,428.26	5,093.11	46.22	78.95	52.04	1,271.20	3,484.43	2,767.12	2,685.28	81.84	33.811	
7,383.79	6,893.51	6,503.99	5,147.69	46.90	80.12	52.11	1,289.76	3,533.54	2,802.82	2,719.72	83.09	33.731	
7,400.00	6,908.25	6,518.65	5,158.26	47.03	80.34	50.53	1,293.36	3,543.05	2,809.71	2,726.38	83.33	33.718	
7,450.00	6,954.52	6,563.94	5,190.90	47.40	81.04	43.85	1,304.46	3,572.41	2,830.81	2,746.84	83.97	33.713	
7,500.00	7,001.74	6,609.03	5,223.39	47.72	81.73	33.83	1,315.52	3,601.65	2,851.53	2,767.06	84.47	33.758	
7,550.00	7,049.55	6,653.59	5,255.51	47.99	82.42	20.34	1,326.44	3,630.55	2,871.74	2,786.91	84.83	33.852	
7,600.00	7,097.58	6,702.72	5,286.99	48.21	83.18	4.90	1,337.15	3,658.88	2,891.34	2,806.24	85.10	33.977	
7,650.00	7,145.48	6,739.76	5,317.61	48.37	83.75	-9.57	1,347.57	3,686.43	2,910.22	2,825.10	85.13	34.187	
7,700.00	7,192.88	6,780.72	5,347.13	48.48	84.38	-21.07	1,357.61	3,712.99	2,928.33	2,843.26	85.07	34.423	
7,750.00	7,239.41	6,819.84	5,375.32	48.54	84.98	-29.41	1,367.20	3,738.36	2,945.61	2,860.73	84.88	34.703	
7,800.00	7,284.72	6,856.82	5,401.97	48.56	85.55	-35.28	1,376.27	3,762.34	2,962.03	2,877.46	84.57	35.024	
7,850.00	7,328.47	6,908.61	5,426.88	48.54	86.35	-39.39	1,384.74	3,784.76	2,977.55	2,893.27	84.28	35.328	
7,900.00	7,370.32	6,923.27	5,449.86	48.47	86.58	-42.30	1,392.56	3,805.43	2,992.17	2,908.56	83.61	35.787	
7,950.00	7,409.96	6,952.23	5,470.73	48.37	87.02	-44.38	1,399.66	3,824.21	3,005.87	2,922.89	82.98	36.223	
8,000.00	7,447.08	6,978.04	5,489.33	48.24	87.42	-45.87	1,405.99	3,840.95	3,018.66	2,936.39	82.27	36.693	
8,050.00	7,481.41	7,000.52	5,505.53	48.07	87.77	-46.91	1,411.50	3,855.52	3,030.52	2,949.04	81.49	37.191	
8,100.00	7,512.67	7,019.48	5,519.19	47.87	88.06	-47.63	1,416.14	3,867.82	3,041.46	2,960.82	80.65	37.714	
8,150.00	7,540.64	7,034.78	5,530.22	47.65	88.29	-48.10	1,419.90	3,877.74	3,051.47	2,971.71	79.77	38.256	
8,200.00	7,565.09	7,046.32	5,538.53	47.40	88.47	-48.35	1,422.72	3,885.22	3,060.54	2,981.68	78.86	38.810	
8,250.00	7,585.85	7,053.99	5,544.06	47.14	88.59	-48.44	1,424.61	3,890.20	3,068.65	2,990.70	77.94	39.371	
8,300.00	7,602.75	7,057.74	5,546.77	46.86	88.65	-48.38	1,425.53	3,892.63	3,075.77	2,998.74	77.03	39.930	
8,350.00	7,615.67	7,057.55	5,546.63	46.58	88.65	-48.21	1,425.48	3,892.51	3,081.88	3,005.74	76.13	40.480	
8,400.00	7,624.51	7,053.41	5,543.65	46.28	88.58	-47.92	1,424.46	3,889.82	3,086.93	3,011.66	75.27	41.013	
8,450.00	7,629.19	7,045.36	5,537.84	45.98	88.46	-47.55	1,422.49	3,884.60	3,090.87	3,016.43	74.44	41.521	
8,481.00	7,630.00	7,038.42	5,532.85	45.79	88.35	-47.28	1,420.79	3,880.10	3,092.73	3,018.78	73.95	41.821	
8,500.00	7,630.00	7,033.72	5,529.46	45.68	88.28	-47.20	1,419.64	3,877.06	3,093.79	3,020.13	73.66	41.999	
8,600.00	7,630.00	7,008.99	5,511.63	45.11	87.90	-46.75	1,413.57	3,861.02	3,101.15	3,028.83	72.32	42.881	
8,700.00	7,630.00	6,984.25	5,493.81	44.56	87.52	-46.31	1,407.51	3,844.97	3,111.51	3,040.24	71.27	43.658	
8,800.00	7,630.00	6,959.51	5,475.98	44.05	87.13	-45.86	1,401.44	3,828.93	3,124.85	3,054.33	70.52	44.312	
8,900.00	7,630.00	6,934.78	5,458.15	43.57	86.75	-45.42	1,395.38	3,812.89	3,141.11	3,071.05	70.06	44.833	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,630.00	6,910.04	5,440.33	43.12	86.37	-44.98	1,389.31	3,796.85	3,160.27	3,090.37	69.90	45.213	
9,100.00	7,630.00	6,885.31	5,422.50	42.70	85.99	-44.53	1,383.25	3,780.81	3,182.26	3,112.26	70.00	45.458	
9,200.00	7,630.00	6,860.57	5,404.67	42.31	85.61	-44.09	1,377.19	3,764.77	3,207.03	3,136.66	70.37	45.575	
9,300.00	7,630.00	6,835.84	5,386.85	41.94	85.23	-43.65	1,371.12	3,748.73	3,234.51	3,163.55	70.97	45.579	
9,400.00	7,630.00	6,811.10	5,369.02	41.59	84.85	-43.21	1,365.06	3,732.69	3,264.64	3,192.87	71.77	45.488	
9,500.00	7,630.00	6,786.36	5,351.19	41.26	84.47	-42.77	1,358.99	3,716.65	3,297.34	3,224.59	72.75	45.322	
9,600.00	7,630.00	6,761.63	5,333.37	40.96	84.09	-42.33	1,352.93	3,700.61	3,332.54	3,258.65	73.89	45.102	
9,700.00	7,630.00	6,736.89	5,315.54	40.68	83.70	-41.89	1,346.86	3,684.57	3,370.16	3,295.01	75.15	44.845	
9,800.00	7,630.00	6,712.16	5,297.72	40.42	83.32	-41.45	1,340.80	3,668.53	3,410.12	3,333.61	76.51	44.570	
9,900.00	7,630.00	6,687.42	5,279.89	40.17	82.94	-41.01	1,334.74	3,652.49	3,452.33	3,374.38	77.95	44.290	
10,000.00	7,630.00	6,662.69	5,262.06	39.96	82.56	-40.57	1,328.67	3,636.45	3,496.72	3,417.28	79.44	44.018	
10,100.00	7,630.00	6,637.95	5,244.24	40.05	82.18	-40.13	1,322.61	3,620.41	3,543.21	3,462.24	80.96	43.763	
10,200.00	7,630.00	6,613.21	5,226.41	40.95	81.80	-39.70	1,316.54	3,604.37	3,591.70	3,509.20	82.51	43.532	
10,300.00	7,630.00	6,588.48	5,208.58	41.94	81.42	-39.26	1,310.48	3,588.33	3,642.13	3,558.08	84.05	43.332	
10,400.00	7,630.00	6,563.74	5,190.76	42.98	81.04	-38.83	1,304.41	3,572.29	3,694.41	3,608.83	85.59	43.165	
10,500.00	7,630.00	6,539.01	5,172.93	44.06	80.66	-38.40	1,298.35	3,556.25	3,748.47	3,661.37	87.10	43.035	
10,600.00	7,630.00	6,514.27	5,155.10	45.17	80.27	-37.97	1,292.29	3,540.20	3,804.23	3,715.64	88.59	42.941	
10,700.00	7,630.00	6,489.54	5,137.28	46.32	79.89	-37.53	1,286.22	3,524.16	3,861.62	3,771.57	90.04	42.886	
10,800.00	7,630.00	6,464.80	5,119.45	47.50	79.51	-37.11	1,280.16	3,508.12	3,920.56	3,829.10	91.45	42.869	
10,900.00	7,630.00	6,440.06	5,101.62	48.70	79.13	-36.68	1,274.09	3,492.08	3,980.98	3,888.16	92.82	42.889	
11,000.00	7,630.00	12,658.76	7,480.00	49.94	121.49	-87.89	-1,267.27	5,620.92	4,021.69	3,914.98	106.71	37.688	
11,100.00	7,630.00	12,758.76	7,480.00	51.20	121.51	-87.89	-1,367.27	5,620.58	4,021.69	3,912.85	108.84	36.952	
11,200.00	7,630.00	12,858.76	7,480.00	52.48	121.55	-87.89	-1,467.27	5,620.24	4,021.69	3,910.66	111.03	36.220	
11,300.00	7,630.00	12,958.76	7,480.00	53.79	121.60	-87.89	-1,567.27	5,619.91	4,021.69	3,908.39	113.30	35.496	
11,400.00	7,630.00	13,058.76	7,480.00	55.12	121.67	-87.89	-1,667.27	5,619.57	4,021.69	3,906.07	115.63	34.782	
11,500.00	7,630.00	13,158.76	7,480.00	56.46	121.75	-87.89	-1,767.27	5,619.24	4,021.70	3,903.68	118.01	34.078	
11,600.00	7,630.00	13,258.76	7,480.00	57.83	121.85	-87.89	-1,867.27	5,618.90	4,021.70	3,901.24	120.46	33.387	
11,700.00	7,630.00	13,358.76	7,480.00	59.22	121.97	-87.89	-1,967.27	5,618.56	4,021.70	3,898.75	122.95	32.710	
11,800.00	7,630.00	13,458.76	7,480.00	60.62	122.10	-87.89	-2,067.26	5,618.23	4,021.70	3,896.21	125.49	32.047	
11,900.00	7,630.00	13,558.76	7,480.00	62.04	122.25	-87.89	-2,167.26	5,617.89	4,021.70	3,893.62	128.08	31.399	
12,000.00	7,630.00	13,658.76	7,480.00	63.48	122.42	-87.89	-2,267.26	5,617.55	4,021.70	3,890.99	130.72	30.766	
12,100.00	7,630.00	13,758.76	7,480.00	64.93	122.61	-87.89	-2,367.26	5,617.22	4,021.71	3,888.31	133.39	30.149	
12,200.00	7,630.00	13,858.76	7,480.00	66.39	122.81	-87.89	-2,467.26	5,616.88	4,021.71	3,885.60	136.11	29.549	
12,300.00	7,630.00	13,958.76	7,480.00	67.86	123.04	-87.89	-2,567.26	5,616.54	4,021.71	3,882.86	138.85	28.963	
12,400.00	7,630.00	14,058.76	7,480.00	69.35	123.29	-87.89	-2,667.26	5,616.21	4,021.71	3,880.07	141.64	28.394	
12,500.00	7,630.00	14,158.76	7,480.00	70.85	123.56	-87.89	-2,767.26	5,615.87	4,021.71	3,877.26	144.45	27.841	
12,600.00	7,630.00	14,258.76	7,480.00	72.36	123.86	-87.89	-2,867.26	5,615.53	4,021.71	3,874.41	147.30	27.303	
12,700.00	7,630.00	14,358.76	7,480.00	73.88	124.17	-87.89	-2,967.26	5,615.20	4,021.72	3,871.54	150.18	26.780	
12,800.00	7,630.00	14,458.76	7,480.00	75.41	124.51	-87.89	-3,067.26	5,614.86	4,021.72	3,868.64	153.08	26.272	
12,900.00	7,630.00	14,558.76	7,480.00	76.95	124.88	-87.89	-3,167.26	5,614.53	4,021.72	3,865.71	156.01	25.779	
13,000.00	7,630.00	14,658.76	7,480.00	78.49	125.27	-87.89	-3,267.26	5,614.19	4,021.72	3,862.76	158.96	25.300	
13,100.00	7,630.00	14,758.76	7,480.00	80.05	125.69	-87.89	-3,367.26	5,613.85	4,021.72	3,859.79	161.94	24.835	
13,200.00	7,630.00	14,858.76	7,480.00	81.61	126.13	-87.89	-3,467.26	5,613.52	4,021.73	3,856.79	164.93	24.384	
13,300.00	7,630.00	14,958.76	7,480.00	83.18	126.61	-87.89	-3,567.26	5,613.18	4,021.73	3,853.78	167.95	23.946	
13,400.00	7,630.00	15,058.76	7,480.00	84.76	127.11	-87.89	-3,667.26	5,612.84	4,021.73	3,850.74	170.99	23.521	
13,500.00	7,630.00	15,158.76	7,480.00	86.34	127.63	-87.89	-3,767.26	5,612.51	4,021.73	3,847.69	174.04	23.108	
13,600.00	7,630.00	15,258.76	7,480.00	87.94	128.19	-87.89	-3,867.25	5,612.17	4,021.73	3,844.61	177.12	22.707	
13,700.00	7,630.00	15,358.76	7,480.00	89.53	128.78	-87.89	-3,967.25	5,611.83	4,021.73	3,841.53	180.21	22.317	
13,800.00	7,630.00	15,458.76	7,480.00	91.13	129.40	-87.89	-4,067.25	5,611.50	4,021.74	3,838.42	183.31	21.939	
13,900.00	7,630.00	15,558.76	7,480.00	92.74	130.05	-87.89	-4,167.25	5,611.16	4,021.74	3,835.30	186.43	21.572	
14,000.00	7,630.00	15,658.76	7,480.00	94.35	130.72	-87.89	-4,267.25	5,610.82	4,021.74	3,832.17	189.57	21.215	
14,100.00	7,630.00	15,758.76	7,480.00	95.97	131.43	-87.89	-4,367.25	5,610.49	4,021.74	3,829.02	192.72	20.868	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,630.00	15,858.76	7,480.00	97.60	132.17	-87.89	-4,467.25	5,610.15	4,021.74	3,825.86	195.88	20.532	
14,300.00	7,630.00	15,958.76	7,480.00	99.22	132.94	-87.89	-4,567.25	5,609.82	4,021.74	3,822.69	199.06	20.204	
14,400.00	7,630.00	16,058.76	7,480.00	100.85	133.74	-87.89	-4,667.25	5,609.48	4,021.75	3,819.50	202.24	19.886	
14,500.00	7,630.00	16,158.76	7,480.00	102.49	134.58	-87.89	-4,767.25	5,609.14	4,021.75	3,816.31	205.44	19.576	
14,600.00	7,630.00	16,258.76	7,480.00	104.13	135.44	-87.89	-4,867.25	5,608.81	4,021.75	3,813.10	208.65	19.275	
14,700.00	7,630.00	16,358.76	7,480.00	105.77	136.33	-87.89	-4,967.25	5,608.47	4,021.75	3,809.88	211.87	18.983	
14,800.00	7,630.00	16,458.76	7,480.00	107.42	137.24	-87.89	-5,067.25	5,608.13	4,021.75	3,806.66	215.09	18.698	
14,900.00	7,630.00	16,558.76	7,480.00	109.07	138.19	-87.89	-5,167.25	5,607.80	4,021.75	3,803.42	218.33	18.420	
15,000.00	7,630.00	16,658.76	7,480.00	110.72	139.17	-87.89	-5,267.25	5,607.46	4,021.76	3,800.18	221.58	18.151	
15,100.00	7,630.00	16,758.76	7,480.00	112.38	140.17	-87.89	-5,367.25	5,607.12	4,021.76	3,796.92	224.83	17.888	
15,200.00	7,630.00	16,858.76	7,480.00	114.04	141.20	-87.89	-5,467.25	5,606.79	4,021.76	3,793.66	228.10	17.632	
15,300.00	7,630.00	16,958.76	7,480.00	115.71	142.25	-87.89	-5,567.24	5,606.45	4,021.76	3,790.39	231.37	17.383	
15,400.00	7,630.00	17,058.76	7,480.00	117.37	143.33	-87.89	-5,667.24	5,606.12	4,021.76	3,787.12	234.65	17.140	
15,500.00	7,630.00	17,158.76	7,480.00	119.04	144.43	-87.89	-5,767.24	5,605.78	4,021.76	3,783.83	237.93	16.903	
15,600.00	7,630.00	17,258.76	7,480.00	120.71	145.55	-87.89	-5,867.24	5,605.44	4,021.77	3,780.54	241.23	16.672	
15,700.00	7,630.00	17,358.76	7,480.00	122.39	146.70	-87.89	-5,967.24	5,605.11	4,021.77	3,777.24	244.53	16.447	
15,800.00	7,630.00	17,458.76	7,480.00	124.06	147.87	-87.89	-6,067.24	5,604.77	4,021.77	3,773.94	247.83	16.228	
15,900.00	7,630.00	17,558.76	7,480.00	125.74	149.06	-87.89	-6,167.24	5,604.43	4,021.77	3,770.63	251.14	16.014	
16,000.00	7,630.00	17,658.76	7,480.00	127.42	150.27	-87.89	-6,267.24	5,604.10	4,021.77	3,767.31	254.46	15.805	
16,100.00	7,630.00	17,758.76	7,480.00	129.10	151.50	-87.89	-6,367.24	5,603.76	4,021.77	3,763.99	257.79	15.601	
16,200.00	7,630.00	17,858.76	7,480.00	130.79	152.74	-87.89	-6,467.24	5,603.42	4,021.78	3,760.66	261.11	15.402	
16,300.00	7,630.00	17,958.76	7,480.00	132.48	154.01	-87.89	-6,567.24	5,603.09	4,021.78	3,757.33	264.45	15.208	
16,400.00	7,630.00	18,058.76	7,480.00	134.17	155.29	-87.89	-6,667.24	5,602.75	4,021.78	3,753.99	267.79	15.018	
16,500.00	7,630.00	18,158.76	7,480.00	135.86	156.58	-87.89	-6,767.24	5,602.41	4,021.78	3,750.65	271.13	14.833	
16,600.00	7,630.00	18,258.76	7,480.00	137.55	157.90	-87.89	-6,867.24	5,602.08	4,021.78	3,747.30	274.48	14.652	
16,700.00	7,630.00	18,358.76	7,480.00	139.24	159.22	-87.89	-6,967.24	5,601.74	4,021.78	3,743.95	277.84	14.475	
16,800.00	7,630.00	18,458.76	7,480.00	140.94	160.56	-87.89	-7,067.24	5,601.41	4,021.79	3,740.59	281.19	14.303	
16,900.00	7,630.00	18,558.76	7,480.00	142.64	161.92	-87.89	-7,167.24	5,601.07	4,021.79	3,737.23	284.56	14.134	
17,000.00	7,630.00	18,658.76	7,480.00	144.34	163.29	-87.89	-7,267.24	5,600.73	4,021.79	3,733.87	287.92	13.968	
17,100.00	7,630.00	18,758.76	7,480.00	146.04	164.67	-87.89	-7,367.23	5,600.40	4,021.79	3,730.50	291.29	13.807	
17,200.00	7,630.00	18,858.76	7,480.00	147.74	166.06	-87.89	-7,467.23	5,600.06	4,021.79	3,727.13	294.67	13.649	
17,300.00	7,630.00	18,958.76	7,480.00	149.44	167.46	-87.89	-7,567.23	5,599.72	4,021.79	3,723.75	298.04	13.494	
17,400.00	7,630.00	19,058.76	7,480.00	151.15	168.87	-87.89	-7,667.23	5,599.39	4,021.80	3,720.37	301.43	13.343	
17,500.00	7,630.00	19,158.76	7,480.00	152.86	170.30	-87.89	-7,767.23	5,599.05	4,021.80	3,716.99	304.81	13.194	
17,600.00	7,630.00	19,258.76	7,480.00	154.56	171.73	-87.89	-7,867.23	5,598.71	4,021.80	3,713.60	308.20	13.049	
17,700.00	7,630.00	19,358.76	7,480.00	156.27	173.17	-87.89	-7,967.23	5,598.38	4,021.80	3,710.21	311.59	12.907	
17,800.00	7,630.00	19,458.76	7,480.00	157.98	174.62	-87.89	-8,067.23	5,598.04	4,021.80	3,706.82	314.98	12.768	
17,900.00	7,630.00	19,558.76	7,480.00	159.70	176.09	-87.89	-8,167.23	5,597.70	4,021.80	3,703.42	318.38	12.632	
18,000.00	7,630.00	19,658.76	7,480.00	161.41	177.55	-87.89	-8,267.23	5,597.37	4,021.81	3,700.02	321.78	12.499	
18,100.00	7,630.00	19,758.76	7,480.00	163.12	179.03	-87.89	-8,367.23	5,597.03	4,021.81	3,696.62	325.18	12.368	
18,100.00	7,630.00	19,758.76	7,480.00	163.12	179.03	-87.89	-8,367.23	5,597.03	4,021.81	3,696.62	325.18	12.368	
18,154.00	7,630.00	19,796.12	7,480.00	164.05	179.59	-87.89	-8,404.58	5,596.91	4,021.84	3,694.78	327.07	12.297	SF

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	90.48	-1.09	130.20	130.21				
100.00	100.00	98.00	98.00	0.13	0.13	90.48	-1.09	130.20	130.21	129.94	0.27	489.191	CC, ES
200.00	200.00	193.95	193.94	0.49	0.47	90.25	-0.58	131.65	131.72	130.75	0.97	136.037	
300.00	300.00	289.61	289.48	0.85	0.82	89.58	1.01	136.11	136.38	134.71	1.68	81.411	
400.00	400.00	384.85	384.38	1.21	1.17	88.55	3.64	143.54	144.23	141.85	2.38	60.576	
500.00	500.00	479.47	478.36	1.57	1.55	87.28	7.30	153.85	155.27	152.19	3.08	50.343	
600.00	600.00	573.25	571.10	1.93	1.94	85.90	11.96	166.95	169.53	165.75	3.78	44.810	
700.00	700.00	666.03	662.35	2.29	2.35	84.51	17.56	182.73	187.00	182.52	4.48	41.770	
800.00	800.00	757.62	751.85	2.64	2.79	83.18	24.05	201.02	207.64	202.48	5.16	40.216	
900.00	900.00	847.85	839.39	3.00	3.26	81.94	31.38	221.67	231.42	225.58	5.84	39.616	
1,000.00	1,000.00	936.60	924.76	3.36	3.75	80.83	39.49	244.50	258.27	251.76	6.51	39.671	
1,100.00	1,100.00	1,023.73	1,007.80	3.72	4.27	79.83	48.30	269.33	288.11	280.95	7.16	40.223	
1,200.00	1,200.00	1,109.12	1,088.38	4.08	4.81	78.96	57.76	295.96	320.85	313.05	7.81	41.088	
1,300.00	1,300.00	1,192.67	1,166.37	4.44	5.39	78.19	67.79	324.20	356.41	347.97	8.44	42.217	
1,400.00	1,400.00	1,274.32	1,241.71	4.79	5.99	77.52	78.31	353.86	394.68	385.62	9.06	43.545	
1,500.00	1,499.98	1,354.53	1,314.81	5.15	6.63	38.72	89.35	384.95	434.34	424.67	9.67	44.923	
1,600.00	1,599.84	1,433.79	1,386.13	5.51	7.29	38.03	100.93	417.55	474.05	463.79	10.26	46.195	
1,700.00	1,699.45	1,512.14	1,455.64	5.87	7.98	37.57	113.02	451.60	513.75	502.90	10.85	47.339	
1,800.00	1,798.70	1,589.57	1,523.35	6.23	8.71	37.28	125.58	486.99	553.40	541.96	11.44	48.360	
1,900.00	1,897.47	1,666.10	1,589.25	6.60	9.47	37.13	138.60	523.65	592.97	580.93	12.04	49.260	
2,000.00	1,995.62	1,741.74	1,653.34	6.99	10.26	37.08	152.04	561.51	632.44	619.81	12.64	50.047	
2,100.00	2,093.06	1,816.51	1,715.63	7.39	11.08	37.12	165.88	600.49	671.81	658.57	13.25	50.720	
2,200.00	2,189.64	1,890.43	1,776.13	7.82	11.93	37.22	180.09	640.51	711.07	697.20	13.87	51.269	
2,300.00	2,285.27	1,963.50	1,834.84	8.28	12.81	37.37	194.64	681.50	750.21	735.69	14.51	51.686	
2,400.00	2,379.82	2,035.75	1,891.77	8.77	13.72	37.56	209.52	723.41	789.23	774.04	15.19	51.973	
2,500.00	2,473.17	2,107.20	1,946.96	9.31	14.65	37.79	224.70	766.17	828.14	812.25	15.89	52.128	
2,600.00	2,565.21	2,177.85	2,000.40	9.88	15.62	38.04	240.16	809.73	866.93	850.30	16.63	52.132	
2,660.67	2,620.37	2,220.34	2,031.99	10.25	16.21	38.21	249.67	836.51	890.41	873.31	17.10	52.072	
2,700.00	2,655.96	2,247.70	2,052.10	10.50	16.61	38.51	255.88	853.98	905.81	888.39	17.41	52.017	
2,800.00	2,746.43	2,324.11	2,107.44	11.15	17.72	39.30	273.50	903.63	946.45	928.11	18.34	51.605	
2,900.00	2,836.90	2,414.21	2,172.43	11.82	19.05	40.16	294.38	962.44	987.74	968.23	19.50	50.645	
3,000.00	2,927.37	2,504.31	2,237.41	12.50	20.40	40.95	315.26	1,021.25	1,029.19	1,008.49	20.70	49.722	
3,100.00	3,017.85	2,605.60	2,302.40	13.21	21.91	41.68	336.15	1,080.06	1,070.80	1,048.80	22.00	48.674	
3,200.00	3,108.32	2,684.50	2,367.38	13.92	23.10	42.36	357.03	1,138.88	1,112.55	1,089.37	23.17	48.007	
3,300.00	3,198.79	2,774.60	2,432.36	14.64	24.46	42.99	377.91	1,197.69	1,154.41	1,129.96	24.45	47.217	
3,400.00	3,289.27	2,864.70	2,497.35	15.38	25.82	43.57	398.79	1,256.50	1,196.38	1,170.64	25.74	46.472	
3,500.00	3,379.74	2,954.80	2,562.33	16.12	27.19	44.12	419.67	1,315.31	1,238.45	1,211.40	27.06	45.771	
3,600.00	3,470.21	3,044.90	2,627.32	16.87	28.56	44.63	440.55	1,374.13	1,280.61	1,252.22	28.39	45.112	
3,700.00	3,560.68	3,135.00	2,692.30	17.62	29.93	45.11	461.43	1,432.94	1,322.85	1,293.12	29.73	44.492	
3,800.00	3,651.16	3,225.10	2,757.28	18.39	31.30	45.56	482.31	1,491.75	1,365.16	1,334.07	31.09	43.909	
3,900.00	3,741.63	3,315.20	2,822.27	19.15	32.68	45.98	503.19	1,550.56	1,407.53	1,375.07	32.46	43.360	
4,000.00	3,832.10	3,405.30	2,887.25	19.92	34.06	46.38	524.07	1,609.38	1,449.97	1,416.12	33.84	42.843	
4,100.00	3,922.57	3,504.60	2,952.24	20.69	35.58	46.75	544.95	1,668.19	1,492.46	1,457.15	35.31	42.273	
4,200.00	4,013.05	3,585.49	3,017.22	21.47	36.82	47.11	565.83	1,727.00	1,534.99	1,498.36	36.64	41.898	
4,300.00	4,103.52	3,675.59	3,082.20	22.25	38.20	47.44	586.71	1,785.82	1,577.58	1,539.53	38.05	41.465	
4,400.00	4,193.99	3,765.69	3,147.19	23.03	39.58	47.76	607.59	1,844.63	1,620.21	1,580.74	39.46	41.056	
4,500.00	4,284.47	3,855.79	3,212.17	23.81	40.96	48.06	628.48	1,903.44	1,662.87	1,621.99	40.89	40.670	
4,600.00	4,374.94	3,945.89	3,277.16	24.60	42.35	48.35	649.36	1,962.25	1,705.58	1,663.26	42.32	40.304	
4,700.00	4,465.41	4,035.99	3,342.14	25.39	43.73	48.62	670.24	2,021.07	1,748.31	1,704.56	43.75	39.958	
4,800.00	4,555.88	4,126.09	3,407.12	26.18	45.12	48.88	691.12	2,079.88	1,791.08	1,745.88	45.20	39.629	
4,900.00	4,646.36	4,216.19	3,472.11	26.97	46.50	49.13	712.00	2,138.69	1,833.88	1,787.23	46.64	39.317	
5,000.00	4,736.83	4,306.29	3,537.09	27.76	47.89	49.37	732.88	2,197.50	1,876.70	1,828.60	48.09	39.021	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	4,396.39	3,602.08	28.55	49.28	49.59	753.76	2,256.32	1,919.55	1,870.00	49.55	38.739	
5,200.00	4,917.77	4,486.49	3,667.06	29.35	50.66	49.81	774.64	2,315.13	1,962.42	1,911.41	51.01	38.471	
5,300.00	5,008.25	4,576.58	3,732.04	30.15	52.05	50.02	795.52	2,373.94	2,005.31	1,952.84	52.47	38.215	
5,400.00	5,098.72	4,666.68	3,797.03	30.94	53.44	50.22	816.40	2,432.75	2,048.23	1,994.29	53.94	37.971	
5,500.00	5,189.19	4,756.78	3,862.01	31.74	54.83	50.41	837.28	2,491.57	2,091.16	2,035.75	55.41	37.738	
5,600.00	5,279.67	4,846.88	3,926.99	32.54	56.22	50.59	858.16	2,550.38	2,134.11	2,077.23	56.89	37.515	
5,700.00	5,370.14	4,936.98	3,991.98	33.34	57.60	50.77	879.04	2,609.19	2,177.08	2,118.72	58.36	37.302	
5,800.00	5,460.61	5,027.08	4,056.96	34.14	58.99	50.94	899.93	2,668.00	2,220.07	2,160.23	59.84	37.098	
5,900.00	5,551.08	5,117.18	4,121.95	34.94	60.38	51.10	920.81	2,726.82	2,263.07	2,201.74	61.33	36.903	
6,000.00	5,641.56	5,207.28	4,186.93	35.75	61.77	51.25	941.69	2,785.63	2,306.09	2,243.28	62.81	36.715	
6,100.00	5,732.03	5,302.62	4,251.91	36.55	63.25	51.40	962.57	2,844.44	2,349.11	2,284.77	64.34	36.511	
6,200.00	5,822.50	5,387.48	4,316.90	37.35	64.55	51.55	983.45	2,903.26	2,392.15	2,326.37	65.79	36.363	
6,300.00	5,912.97	5,477.58	4,381.88	38.16	65.95	51.69	1,004.33	2,962.07	2,435.21	2,367.93	67.28	36.197	
6,400.00	6,003.45	5,567.67	4,446.87	38.96	67.34	51.83	1,025.21	3,020.88	2,478.27	2,409.50	68.77	36.038	
6,500.00	6,093.92	5,657.77	4,511.85	39.77	68.73	51.96	1,046.09	3,079.69	2,521.35	2,451.09	70.26	35.884	
6,600.00	6,184.39	5,747.87	4,576.83	40.57	70.12	52.08	1,066.97	3,138.51	2,564.44	2,492.68	71.76	35.736	
6,700.00	6,274.87	5,837.97	4,641.82	41.38	71.51	52.21	1,087.85	3,197.32	2,607.53	2,534.27	73.26	35.594	
6,800.00	6,365.34	5,928.07	4,706.80	42.18	72.90	52.32	1,108.73	3,256.13	2,650.64	2,575.88	74.76	35.456	
6,900.00	6,455.81	6,018.17	4,771.79	42.99	74.29	52.44	1,129.61	3,314.94	2,693.75	2,617.49	76.26	35.324	
7,000.00	6,546.28	6,108.27	4,836.77	43.80	75.68	52.55	1,150.49	3,373.76	2,736.88	2,659.11	77.76	35.196	
7,100.00	6,636.76	6,201.63	4,901.75	44.61	77.13	52.66	1,171.37	3,432.57	2,780.01	2,700.71	79.29	35.060	
7,200.00	6,727.23	6,288.47	4,966.74	45.41	78.47	52.76	1,192.26	3,491.38	2,823.15	2,742.38	80.77	34.953	
7,300.00	6,817.70	6,378.57	5,031.72	46.22	79.86	52.86	1,213.14	3,550.19	2,866.29	2,784.02	82.28	34.837	
7,383.79	6,893.51	6,454.06	5,086.17	46.90	81.03	52.94	1,230.63	3,599.47	2,902.45	2,818.91	83.54	34.743	
7,400.00	6,908.25	6,468.68	5,096.72	47.03	81.25	51.38	1,234.02	3,609.02	2,909.43	2,825.65	83.78	34.728	
7,450.00	6,954.52	6,513.87	5,129.31	47.40	81.95	44.73	1,244.49	3,638.51	2,930.76	2,846.33	84.42	34.714	
7,500.00	7,001.74	6,558.92	5,161.80	47.72	82.65	34.74	1,254.93	3,667.92	2,951.64	2,866.71	84.94	34.751	
7,550.00	7,049.55	6,603.50	5,193.96	47.99	83.34	21.27	1,265.27	3,697.02	2,971.96	2,886.64	85.31	34.836	
7,600.00	7,097.58	6,647.27	5,225.53	48.21	84.01	5.84	1,275.41	3,725.59	2,991.58	2,906.03	85.55	34.969	
7,650.00	7,145.48	6,689.90	5,256.27	48.37	84.67	-8.63	1,285.29	3,753.42	3,010.43	2,924.79	85.65	35.150	
7,700.00	7,192.88	6,731.05	5,285.95	48.48	85.31	-20.13	1,294.83	3,780.28	3,028.43	2,942.82	85.61	35.375	
7,750.00	7,239.41	6,770.42	5,314.35	48.54	85.92	-28.48	1,303.95	3,805.98	3,045.52	2,960.08	85.45	35.643	
7,800.00	7,284.72	6,807.71	5,341.24	48.56	86.49	-34.37	1,312.59	3,830.32	3,061.67	2,976.51	85.16	35.953	
7,850.00	7,328.47	6,842.63	5,366.43	48.54	87.03	-38.51	1,320.68	3,853.11	3,076.85	2,992.09	84.76	36.302	
7,900.00	7,370.32	6,874.92	5,389.71	48.47	87.53	-41.46	1,328.17	3,874.19	3,091.04	3,006.79	84.25	36.690	
7,950.00	7,409.96	6,904.32	5,410.93	48.37	87.99	-43.59	1,334.98	3,893.39	3,104.23	3,020.59	83.64	37.113	
8,000.00	7,447.08	6,930.63	5,429.90	48.24	88.39	-45.13	1,341.08	3,910.56	3,116.43	3,033.47	82.95	37.568	
8,050.00	7,481.41	6,953.64	5,446.49	48.07	88.75	-46.25	1,346.41	3,925.57	3,127.62	3,045.43	82.19	38.053	
8,100.00	7,512.67	6,973.16	5,460.57	47.87	89.05	-47.04	1,350.94	3,938.32	3,137.82	3,056.45	81.37	38.563	
8,150.00	7,540.64	6,989.06	5,472.04	47.65	89.30	-47.59	1,354.62	3,948.70	3,147.02	3,066.52	80.50	39.092	
8,200.00	7,565.09	7,001.22	5,480.81	47.40	89.48	-47.93	1,357.44	3,956.63	3,155.22	3,075.61	79.61	39.635	
8,250.00	7,585.85	7,009.53	5,486.81	47.14	89.61	-48.11	1,359.36	3,962.06	3,162.40	3,083.70	78.70	40.185	
8,300.00	7,602.75	7,013.94	5,489.99	46.86	89.68	-48.16	1,360.39	3,964.94	3,168.55	3,090.76	77.79	40.734	
8,350.00	7,615.67	7,014.42	5,490.33	46.58	89.69	-48.09	1,360.50	3,965.25	3,173.64	3,096.75	76.89	41.277	
8,400.00	7,624.51	7,010.95	5,487.83	46.28	89.63	-47.92	1,359.69	3,962.99	3,177.64	3,101.63	76.01	41.804	
8,450.00	7,629.19	7,003.57	5,482.51	45.98	89.52	-47.66	1,357.98	3,958.17	3,180.52	3,105.34	75.18	42.308	
8,481.00	7,630.00	6,997.06	5,477.81	45.79	89.42	-47.46	1,356.47	3,953.92	3,181.71	3,107.03	74.68	42.606	
8,500.00	7,630.00	6,992.61	5,474.60	45.68	89.35	-47.38	1,355.44	3,951.02	3,182.36	3,107.97	74.38	42.784	
8,600.00	7,630.00	6,969.22	5,457.73	45.11	88.99	-46.97	1,350.02	3,935.74	3,187.52	3,114.52	72.99	43.668	
8,700.00	7,630.00	6,945.82	5,440.85	44.56	88.63	-46.56	1,344.60	3,920.47	3,195.63	3,123.74	71.89	44.453	
8,800.00	7,630.00	6,922.42	5,423.98	44.05	88.27	-46.15	1,339.18	3,905.20	3,206.67	3,135.60	71.07	45.119	
8,900.00	7,630.00	6,900.97	5,407.11	43.57	87.93	-45.74	1,333.75	3,889.93	3,220.61	3,150.06	70.56	45.647	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,000.00	7,630.00	6,875.63	5,390.23	43.12	87.54	-45.33	1,328.33	3,874.66	3,237.41	3,167.11	70.30	46.051	
9,100.00	7,630.00	6,852.24	5,373.36	42.70	87.18	-44.92	1,322.91	3,859.38	3,257.03	3,186.70	70.33	46.310	
9,200.00	7,630.00	6,828.84	5,356.48	42.31	86.82	-44.52	1,317.49	3,844.11	3,279.41	3,208.79	70.62	46.437	
9,300.00	7,630.00	6,805.44	5,339.61	41.94	86.46	-44.11	1,312.07	3,828.84	3,304.50	3,233.36	71.15	46.445	
9,400.00	7,630.00	6,782.05	5,322.73	41.59	86.10	-43.70	1,306.64	3,813.57	3,332.25	3,260.36	71.89	46.351	
9,500.00	7,630.00	6,758.65	5,305.86	41.26	85.73	-43.29	1,301.22	3,798.30	3,362.57	3,289.75	72.82	46.174	
9,600.00	7,630.00	6,735.26	5,288.99	40.96	85.37	-42.89	1,295.80	3,783.03	3,395.41	3,321.49	73.92	45.934	
9,700.00	7,630.00	6,711.86	5,272.11	40.68	85.01	-42.48	1,290.38	3,767.75	3,430.69	3,355.54	75.15	45.651	
9,800.00	7,630.00	6,688.47	5,255.24	40.42	84.65	-42.07	1,284.96	3,752.48	3,468.34	3,391.85	76.49	45.341	
9,900.00	7,630.00	6,665.07	5,238.36	40.17	84.29	-41.67	1,279.53	3,737.21	3,508.28	3,430.36	77.93	45.021	
10,000.00	7,630.00	6,641.67	5,221.49	39.96	83.93	-41.26	1,274.11	3,721.94	3,550.44	3,471.01	79.42	44.704	
10,100.00	7,630.00	6,618.28	5,204.61	40.05	83.57	-40.86	1,268.69	3,706.67	3,594.72	3,513.76	80.96	44.400	
10,200.00	7,630.00	6,605.12	5,187.74	40.95	83.36	-40.46	1,263.27	3,691.40	3,641.07	3,558.47	82.60	44.079	
10,300.00	7,630.00	6,571.49	5,170.87	41.94	82.84	-40.05	1,257.85	3,676.12	3,689.40	3,605.29	84.11	43.863	
10,400.00	7,630.00	6,548.09	5,153.99	42.98	82.48	-39.65	1,252.42	3,660.85	3,739.63	3,653.94	85.69	43.641	
10,500.00	7,630.00	6,524.69	5,137.12	44.06	82.12	-39.25	1,247.00	3,645.58	3,791.69	3,704.43	87.26	43.455	
10,600.00	7,630.00	6,501.30	5,120.24	45.17	81.76	-38.85	1,241.58	3,630.31	3,845.50	3,756.70	88.80	43.305	
10,700.00	7,630.00	6,477.90	5,103.37	46.32	81.40	-38.45	1,236.16	3,615.04	3,901.00	3,810.69	90.31	43.194	
10,800.00	7,630.00	6,454.51	5,086.49	47.50	81.03	-38.05	1,230.74	3,599.76	3,958.10	3,866.31	91.79	43.121	
10,900.00	7,630.00	6,431.11	5,069.62	48.70	80.67	-37.65	1,225.31	3,584.49	4,016.75	3,923.52	93.23	43.087	
11,000.00	7,630.00	6,407.71	5,052.75	49.94	80.31	-37.26	1,219.89	3,569.22	4,076.87	3,982.26	94.61	43.089	
11,100.00	7,630.00	6,384.32	5,035.87	51.20	79.95	-36.86	1,214.47	3,553.95	4,138.40	4,042.45	95.96	43.128	
11,200.00	7,630.00	6,360.92	5,019.00	52.48	79.59	-36.47	1,209.05	3,538.68	4,201.29	4,104.04	97.25	43.202	
11,300.00	7,630.00	6,337.53	5,002.12	53.79	79.23	-36.08	1,203.63	3,523.41	4,265.46	4,166.97	98.49	43.310	
11,400.00	7,630.00	6,314.13	4,985.25	55.12	78.87	-35.68	1,198.20	3,508.13	4,330.86	4,231.19	99.67	43.450	
11,500.00	7,630.00	13,549.31	7,730.00	56.46	129.82	-91.33	-1,768.53	5,979.23	4,380.16	4,263.31	116.85	37.486	
11,600.00	7,630.00	13,649.31	7,730.00	57.83	129.91	-91.33	-1,868.53	5,978.89	4,380.16	4,260.88	119.28	36.722	
11,700.00	7,630.00	13,749.31	7,730.00	59.22	130.01	-91.33	-1,968.53	5,978.56	4,380.16	4,258.40	121.76	35.973	
11,800.00	7,630.00	13,849.31	7,730.00	60.62	130.13	-91.33	-2,068.53	5,978.22	4,380.16	4,255.87	124.29	35.240	
11,900.00	7,630.00	13,949.31	7,730.00	62.04	130.26	-91.33	-2,168.53	5,977.88	4,380.16	4,253.29	126.88	34.523	
12,000.00	7,630.00	14,049.31	7,730.00	63.48	130.41	-91.33	-2,268.53	5,977.54	4,380.16	4,250.66	129.50	33.824	
12,100.00	7,630.00	14,149.31	7,730.00	64.93	130.58	-91.33	-2,368.53	5,977.21	4,380.16	4,248.00	132.17	33.141	
12,200.00	7,630.00	14,249.31	7,730.00	66.39	130.76	-91.33	-2,468.52	5,976.87	4,380.16	4,245.29	134.87	32.477	
12,300.00	7,630.00	14,349.31	7,730.00	67.86	130.96	-91.33	-2,568.52	5,976.53	4,380.16	4,242.55	137.61	31.829	
12,400.00	7,630.00	14,449.31	7,730.00	69.35	131.18	-91.33	-2,668.52	5,976.19	4,380.16	4,239.77	140.39	31.200	
12,500.00	7,630.00	14,549.31	7,730.00	70.85	131.42	-91.33	-2,768.52	5,975.86	4,380.16	4,236.96	143.20	30.587	
12,600.00	7,630.00	14,649.31	7,730.00	72.36	131.68	-91.33	-2,868.52	5,975.52	4,380.16	4,234.12	146.04	29.992	
12,700.00	7,630.00	14,749.31	7,730.00	73.88	131.96	-91.33	-2,968.52	5,975.18	4,380.17	4,231.25	148.91	29.414	
12,800.00	7,630.00	14,849.31	7,730.00	75.41	132.26	-91.33	-3,068.52	5,974.84	4,380.17	4,228.35	151.81	28.853	
12,900.00	7,630.00	14,949.31	7,730.00	76.95	132.58	-91.33	-3,168.52	5,974.51	4,380.17	4,225.43	154.74	28.307	
13,000.00	7,630.00	15,049.31	7,730.00	78.49	132.92	-91.33	-3,268.52	5,974.17	4,380.17	4,222.48	157.69	27.778	
13,100.00	7,630.00	15,149.31	7,730.00	80.05	133.29	-91.33	-3,368.52	5,973.83	4,380.17	4,219.51	160.66	27.264	
13,200.00	7,630.00	15,249.31	7,730.00	81.61	133.68	-91.33	-3,468.52	5,973.49	4,380.17	4,216.52	163.65	26.765	
13,300.00	7,630.00	15,349.31	7,730.00	83.18	134.09	-91.33	-3,568.52	5,973.16	4,380.17	4,213.50	166.67	26.281	
13,400.00	7,630.00	15,449.31	7,730.00	84.76	134.52	-91.33	-3,668.52	5,972.82	4,380.17	4,210.47	169.70	25.811	
13,500.00	7,630.00	15,549.31	7,730.00	86.34	134.99	-91.33	-3,768.52	5,972.48	4,380.17	4,207.41	172.76	25.355	
13,600.00	7,630.00	15,649.31	7,730.00	87.94	135.47	-91.33	-3,868.52	5,972.14	4,380.17	4,204.34	175.83	24.912	
13,700.00	7,630.00	15,749.31	7,730.00	89.53	135.99	-91.33	-3,968.52	5,971.81	4,380.17	4,201.25	178.92	24.482	
13,800.00	7,630.00	15,849.31	7,730.00	91.13	136.53	-91.33	-4,068.52	5,971.47	4,380.17	4,198.15	182.02	24.064	
13,900.00	7,630.00	15,949.31	7,730.00	92.74	137.09	-91.33	-4,168.51	5,971.13	4,380.17	4,195.03	185.14	23.659	
14,000.00	7,630.00	16,049.31	7,730.00	94.35	137.69	-91.33	-4,268.51	5,970.79	4,380.17	4,191.90	188.27	23.265	
14,100.00	7,630.00	16,149.31	7,730.00	95.97	138.31	-91.33	-4,368.51	5,970.45	4,380.17	4,188.75	191.42	22.882	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,630.00	16,249.31	7,730.00	97.60	138.96	-91.33	-4,468.51	5,970.12	4,380.17	4,185.59	194.58	22.510	
14,300.00	7,630.00	16,349.31	7,730.00	99.22	139.63	-91.33	-4,568.51	5,969.78	4,380.17	4,182.42	197.76	22.149	
14,400.00	7,630.00	16,449.31	7,730.00	100.85	140.34	-91.33	-4,668.51	5,969.44	4,380.17	4,179.23	200.94	21.798	
14,500.00	7,630.00	16,549.31	7,730.00	102.49	141.07	-91.33	-4,768.51	5,969.10	4,380.17	4,176.03	204.14	21.457	
14,600.00	7,630.00	16,649.31	7,730.00	104.13	141.83	-91.33	-4,868.51	5,968.77	4,380.17	4,172.83	207.35	21.125	
14,700.00	7,630.00	16,749.31	7,730.00	105.77	142.62	-91.33	-4,968.51	5,968.43	4,380.18	4,169.61	210.57	20.802	
14,800.00	7,630.00	16,849.31	7,730.00	107.42	143.43	-91.33	-5,068.51	5,968.09	4,380.18	4,166.38	213.79	20.488	
14,900.00	7,630.00	16,949.31	7,730.00	109.07	144.27	-91.33	-5,168.51	5,967.75	4,380.18	4,163.14	217.03	20.182	
15,000.00	7,630.00	17,049.31	7,730.00	110.72	145.14	-91.33	-5,268.51	5,967.42	4,380.18	4,159.90	220.28	19.885	
15,100.00	7,630.00	17,149.31	7,730.00	112.38	146.04	-91.33	-5,368.51	5,967.08	4,380.18	4,156.64	223.53	19.595	
15,200.00	7,630.00	17,249.31	7,730.00	114.04	146.96	-91.33	-5,468.51	5,966.74	4,380.18	4,153.38	226.80	19.313	
15,300.00	7,630.00	17,349.31	7,730.00	115.71	147.91	-91.33	-5,568.51	5,966.40	4,380.18	4,150.11	230.07	19.038	
15,400.00	7,630.00	17,449.31	7,730.00	117.37	148.89	-91.33	-5,668.51	5,966.07	4,380.18	4,146.83	233.35	18.771	
15,500.00	7,630.00	17,549.31	7,730.00	119.04	149.89	-91.33	-5,768.51	5,965.73	4,380.18	4,143.54	236.64	18.510	
15,600.00	7,630.00	17,649.31	7,730.00	120.71	150.91	-91.33	-5,868.51	5,965.39	4,380.18	4,140.25	239.93	18.256	
15,700.00	7,630.00	17,749.31	7,730.00	122.39	151.96	-91.33	-5,968.50	5,965.05	4,380.18	4,136.95	243.23	18.008	
15,800.00	7,630.00	17,849.31	7,730.00	124.06	153.03	-91.33	-6,068.50	5,964.72	4,380.18	4,133.65	246.54	17.767	
15,900.00	7,630.00	17,949.31	7,730.00	125.74	154.12	-91.33	-6,168.50	5,964.38	4,380.18	4,130.33	249.85	17.531	
16,000.00	7,630.00	18,049.31	7,730.00	127.42	155.23	-91.33	-6,268.50	5,964.04	4,380.18	4,127.02	253.17	17.302	
16,100.00	7,630.00	18,149.31	7,730.00	129.10	156.36	-91.33	-6,368.50	5,963.70	4,380.18	4,123.69	256.49	17.077	
16,200.00	7,630.00	18,249.31	7,730.00	130.79	157.52	-91.33	-6,468.50	5,963.37	4,380.18	4,120.36	259.82	16.858	
16,300.00	7,630.00	18,349.31	7,730.00	132.48	158.69	-91.33	-6,568.50	5,963.03	4,380.18	4,117.03	263.16	16.645	
16,400.00	7,630.00	18,449.31	7,730.00	134.17	159.89	-91.33	-6,668.50	5,962.69	4,380.18	4,113.69	266.50	16.436	
16,500.00	7,630.00	18,549.31	7,730.00	135.86	161.10	-91.33	-6,768.50	5,962.35	4,380.18	4,110.34	269.84	16.232	
16,600.00	7,630.00	18,649.31	7,730.00	137.55	162.33	-91.33	-6,868.50	5,962.02	4,380.19	4,106.99	273.19	16.033	
16,700.00	7,630.00	18,749.31	7,730.00	139.24	163.57	-91.33	-6,968.50	5,961.68	4,380.19	4,103.64	276.55	15.839	
16,800.00	7,630.00	18,849.31	7,730.00	140.94	164.83	-91.33	-7,068.50	5,961.34	4,380.19	4,100.28	279.91	15.649	
16,900.00	7,630.00	18,949.31	7,730.00	142.64	166.11	-91.33	-7,168.50	5,961.00	4,380.19	4,096.92	283.27	15.463	
17,000.00	7,630.00	19,049.31	7,730.00	144.34	167.40	-91.33	-7,268.50	5,960.67	4,380.19	4,093.55	286.64	15.281	
17,100.00	7,630.00	19,149.31	7,730.00	146.04	168.71	-91.33	-7,368.50	5,960.33	4,380.19	4,090.18	290.01	15.104	
17,200.00	7,630.00	19,249.31	7,730.00	147.74	170.03	-91.33	-7,468.50	5,959.99	4,380.19	4,086.81	293.38	14.930	
17,300.00	7,630.00	19,349.31	7,730.00	149.44	171.36	-91.33	-7,568.50	5,959.65	4,380.19	4,083.43	296.76	14.760	
17,400.00	7,630.00	19,449.31	7,730.00	151.15	172.71	-91.33	-7,668.49	5,959.31	4,380.19	4,080.05	300.14	14.594	
17,500.00	7,630.00	19,549.31	7,730.00	152.86	174.07	-91.33	-7,768.49	5,958.98	4,380.19	4,076.66	303.53	14.431	
17,600.00	7,630.00	19,649.31	7,730.00	154.56	175.44	-91.33	-7,868.49	5,958.64	4,380.19	4,073.27	306.92	14.271	
17,700.00	7,630.00	19,749.31	7,730.00	156.27	176.82	-91.33	-7,968.49	5,958.30	4,380.19	4,069.88	310.31	14.115	
17,800.00	7,630.00	19,849.31	7,730.00	157.98	178.21	-91.33	-8,068.49	5,957.96	4,380.19	4,066.48	313.71	13.963	
17,900.00	7,630.00	19,949.31	7,730.00	159.70	179.62	-91.33	-8,168.49	5,957.63	4,380.19	4,063.09	317.11	13.813	
18,000.00	7,630.00	20,049.31	7,730.00	161.41	181.03	-91.33	-8,268.49	5,957.29	4,380.19	4,059.69	320.51	13.666	
18,100.00	7,630.00	20,149.31	7,730.00	163.12	182.45	-91.33	-8,368.49	5,956.95	4,380.19	4,056.28	323.91	13.523	
18,102.06	7,630.00	20,151.37	7,730.00	163.16	182.48	-91.33	-8,370.55	5,956.94	4,380.19	4,056.21	323.98	13.520	
18,154.00	7,630.00	20,184.95	7,730.00	164.05	182.96	-91.33	-8,404.13	5,956.83	4,380.23	4,054.45	325.78	13.445	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	49.67	1,787.46	2,105.55	8,201.77				
100.00	100.00	16,236.00	7,569.74	0.13	158.98	49.67	1,787.46	2,105.55	8,107.68	8,027.73	79.95	101.409	
200.00	200.00	16,236.00	7,569.74	0.49	158.98	49.67	1,787.46	2,105.55	8,013.74	7,933.61	80.13	100.012	
300.00	300.00	16,236.00	7,569.74	0.85	158.98	49.67	1,787.46	2,105.55	7,919.94	7,839.62	80.32	98.602	
400.00	400.00	16,236.00	7,569.74	1.21	158.98	49.67	1,787.46	2,105.55	7,826.29	7,745.76	80.53	97.179	
500.00	500.00	16,236.00	7,569.74	1.57	158.98	49.67	1,787.46	2,105.55	7,732.81	7,652.04	80.76	95.745	
600.00	600.00	16,236.00	7,569.74	1.93	158.98	49.67	1,787.46	2,105.55	7,639.49	7,558.47	81.01	94.299	
700.00	700.00	16,236.00	7,569.74	2.29	158.98	49.67	1,787.46	2,105.55	7,546.34	7,465.06	81.28	92.844	
800.00	800.00	16,236.00	7,569.74	2.64	158.98	49.67	1,787.46	2,105.55	7,453.37	7,371.80	81.56	91.381	
900.00	900.00	16,236.00	7,569.74	3.00	158.98	49.67	1,787.46	2,105.55	7,360.58	7,278.71	81.87	89.911	
1,000.00	1,000.00	16,236.00	7,569.74	3.36	158.98	49.67	1,787.46	2,105.55	7,267.98	7,185.80	82.18	88.435	
1,100.00	1,100.00	16,236.00	7,569.74	3.72	158.98	49.67	1,787.46	2,105.55	7,175.59	7,093.06	82.52	86.955	
1,200.00	1,200.00	16,236.00	7,569.74	4.08	158.98	49.67	1,787.46	2,105.55	7,083.39	7,000.52	82.87	85.472	
1,300.00	1,300.00	16,236.00	7,569.74	4.44	158.98	49.67	1,787.46	2,105.55	6,991.42	6,908.17	83.24	83.988	
1,400.00	1,400.00	16,236.00	7,569.74	4.79	158.98	49.67	1,787.46	2,105.55	6,899.67	6,816.04	83.63	82.502	
1,500.00	1,499.98	16,236.00	7,569.74	5.15	158.98	12.88	1,787.46	2,105.55	6,807.47	6,723.44	84.03	81.010	
1,600.00	1,599.84	16,236.00	7,569.74	5.51	158.98	14.09	1,787.46	2,105.55	6,714.21	6,629.77	84.44	79.518	
1,700.00	1,699.45	16,236.00	7,569.74	5.87	158.98	15.53	1,787.46	2,105.55	6,619.95	6,535.12	84.83	78.037	
1,800.00	1,798.70	16,236.00	7,569.74	6.23	158.98	17.29	1,787.46	2,105.55	6,524.77	6,439.56	85.22	76.568	
1,900.00	1,897.47	16,236.00	7,569.74	6.60	158.98	19.46	1,787.46	2,105.55	6,428.75	6,343.16	85.59	75.114	
2,000.00	1,995.62	16,236.00	7,569.74	6.99	158.98	22.19	1,787.46	2,105.55	6,331.96	6,246.01	85.95	73.675	
2,100.00	2,093.06	16,236.00	7,569.74	7.39	158.98	25.73	1,787.46	2,105.55	6,234.49	6,148.21	86.29	72.252	
2,200.00	2,189.64	16,236.00	7,569.74	7.82	158.98	30.44	1,787.46	2,105.55	6,136.44	6,049.82	86.62	70.847	
2,300.00	2,285.27	16,236.00	7,569.74	8.28	158.98	36.87	1,787.46	2,105.55	6,037.89	5,950.96	86.93	69.460	
2,400.00	2,379.82	16,236.00	7,569.74	8.77	158.98	45.90	1,787.46	2,105.55	5,938.94	5,851.73	87.22	68.094	
2,500.00	2,473.17	16,236.00	7,569.74	9.31	158.98	58.63	1,787.46	2,105.55	5,839.71	5,752.22	87.49	66.748	
2,600.00	2,565.21	16,236.00	7,569.74	9.88	158.98	75.65	1,787.46	2,105.55	5,740.28	5,652.54	87.74	65.423	
2,660.67	2,620.37	16,236.00	7,569.74	10.25	158.98	87.49	1,787.46	2,105.55	5,679.92	5,592.04	87.88	64.630	
2,700.00	2,655.96	16,236.00	7,569.74	10.50	158.98	87.49	1,787.46	2,105.55	5,640.79	5,552.82	87.97	64.119	
2,800.00	2,746.43	16,236.00	7,569.74	11.15	158.98	87.49	1,787.46	2,105.55	5,541.31	5,453.10	88.21	62.820	
2,900.00	2,836.90	16,236.00	7,569.74	11.82	158.98	87.49	1,787.46	2,105.55	5,441.85	5,353.39	88.45	61.522	
3,000.00	2,927.37	16,236.00	7,569.74	12.50	158.98	87.49	1,787.46	2,105.55	5,342.40	5,253.69	88.71	60.223	
3,100.00	3,017.85	16,236.00	7,569.74	13.21	158.98	87.49	1,787.46	2,105.55	5,242.98	5,154.00	88.98	58.925	
3,200.00	3,108.32	16,236.00	7,569.74	13.92	158.98	87.49	1,787.46	2,105.55	5,143.58	5,054.33	89.25	57.628	
3,300.00	3,198.79	16,236.00	7,569.74	14.64	158.98	87.49	1,787.46	2,105.55	5,044.21	4,954.66	89.54	56.332	
3,400.00	3,289.27	16,236.00	7,569.74	15.38	158.98	87.49	1,787.46	2,105.55	4,944.86	4,855.01	89.85	55.036	
3,500.00	3,379.74	16,236.00	7,569.74	16.12	158.98	87.49	1,787.46	2,105.55	4,845.53	4,755.37	90.16	53.743	
3,600.00	3,470.21	16,236.00	7,569.74	16.87	158.98	87.49	1,787.46	2,105.55	4,746.24	4,655.75	90.49	52.450	
3,700.00	3,560.68	16,236.00	7,569.74	17.62	158.98	87.49	1,787.46	2,105.55	4,646.97	4,556.14	90.83	51.159	
3,800.00	3,651.16	16,236.00	7,569.74	18.39	158.98	87.49	1,787.46	2,105.55	4,547.74	4,456.55	91.19	49.871	
3,900.00	3,741.63	16,236.00	7,569.74	19.15	158.98	87.49	1,787.46	2,105.55	4,448.54	4,356.98	91.56	48.584	
4,000.00	3,832.10	16,236.00	7,569.74	19.92	158.98	87.49	1,787.46	2,105.55	4,349.38	4,257.43	91.95	47.299	
4,100.00	3,922.57	16,236.00	7,569.74	20.69	158.98	87.49	1,787.46	2,105.55	4,250.26	4,157.90	92.36	46.017	
4,200.00	4,013.05	16,236.00	7,569.74	21.47	158.98	87.49	1,787.46	2,105.55	4,151.18	4,058.39	92.79	44.738	
4,300.00	4,103.52	16,236.00	7,569.74	22.25	158.98	87.49	1,787.46	2,105.55	4,052.14	3,958.91	93.24	43.462	
4,400.00	4,193.99	16,236.00	7,569.74	23.03	158.98	87.49	1,787.46	2,105.55	3,953.16	3,859.45	93.70	42.188	
4,500.00	4,284.47	16,236.00	7,569.74	23.81	158.98	87.49	1,787.46	2,105.55	3,854.22	3,760.03	94.19	40.918	
4,600.00	4,374.94	16,236.00	7,569.74	24.60	158.98	87.49	1,787.46	2,105.55	3,755.34	3,660.64	94.71	39.651	
4,700.00	4,465.41	16,236.00	7,569.74	25.39	158.98	87.49	1,787.46	2,105.55	3,656.53	3,561.28	95.25	38.388	
4,800.00	4,555.88	16,236.00	7,569.74	26.18	158.98	87.49	1,787.46	2,105.55	3,557.78	3,461.96	95.82	37.129	
4,900.00	4,646.36	16,236.00	7,569.74	26.97	158.98	87.49	1,787.46	2,105.55	3,459.10	3,362.68	96.42	35.874	
5,000.00	4,736.83	16,236.00	7,569.74	27.76	158.98	87.49	1,787.46	2,105.55	3,360.50	3,263.44	97.06	34.624	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	16,236.00	7,569.74	28.55	158.98	87.49	1,787.46	2,105.55	3,261.98	3,164.26	97.73	33.378	
5,200.00	4,917.77	16,236.00	7,569.74	29.35	158.98	87.49	1,787.46	2,105.55	3,163.56	3,065.12	98.44	32.137	
5,300.00	5,008.25	16,236.00	7,569.74	30.15	158.98	87.49	1,787.46	2,105.55	3,065.24	2,966.05	99.19	30.902	
5,400.00	5,098.72	16,236.00	7,569.74	30.94	158.98	87.49	1,787.46	2,105.55	2,967.03	2,867.04	99.99	29.672	
5,500.00	5,189.19	16,236.00	7,569.74	31.74	158.98	87.49	1,787.46	2,105.55	2,868.95	2,768.10	100.85	28.448	
5,600.00	5,279.67	16,236.00	7,569.74	32.54	158.98	87.49	1,787.46	2,105.55	2,771.00	2,669.24	101.76	27.231	
5,700.00	5,370.14	16,236.00	7,569.74	33.34	158.98	87.49	1,787.46	2,105.55	2,673.21	2,570.47	102.74	26.020	
5,800.00	5,460.61	16,236.00	7,569.74	34.14	158.98	87.49	1,787.46	2,105.55	2,575.58	2,471.80	103.78	24.817	
5,900.00	5,551.08	16,236.00	7,569.74	34.94	158.98	87.49	1,787.46	2,105.55	2,478.15	2,373.24	104.91	23.622	
6,000.00	5,641.56	16,236.00	7,569.74	35.75	158.98	87.49	1,787.46	2,105.55	2,380.92	2,274.80	106.13	22.435	
6,100.00	5,732.03	16,236.00	7,569.74	36.55	158.98	87.49	1,787.46	2,105.55	2,283.94	2,176.50	107.44	21.258	
6,200.00	5,822.50	16,236.00	7,569.74	37.35	158.98	87.49	1,787.46	2,105.55	2,187.23	2,078.36	108.87	20.090	
6,300.00	5,912.97	16,236.00	7,569.74	38.16	158.98	87.49	1,787.46	2,105.55	2,090.82	1,980.40	110.42	18.934	
6,400.00	6,003.45	16,236.00	7,569.74	38.96	158.98	87.49	1,787.46	2,105.55	1,994.77	1,882.65	112.13	17.791	
6,500.00	6,093.92	16,236.00	7,569.74	39.77	158.98	87.49	1,787.46	2,105.55	1,899.13	1,785.14	113.99	16.660	
6,600.00	6,184.39	16,236.00	7,569.74	40.57	158.98	87.49	1,787.46	2,105.55	1,803.97	1,687.92	116.05	15.545	
6,700.00	6,274.87	16,236.00	7,569.74	41.38	158.98	87.49	1,787.46	2,105.55	1,709.35	1,591.03	118.32	14.447	
6,800.00	6,365.34	16,236.00	7,569.74	42.18	158.98	87.49	1,787.46	2,105.55	1,615.38	1,494.54	120.85	13.367	
6,900.00	6,455.81	16,236.00	7,569.74	42.99	158.98	87.49	1,787.46	2,105.55	1,522.18	1,398.52	123.66	12.309	
7,000.00	6,546.28	16,236.00	7,569.74	43.80	158.98	87.49	1,787.46	2,105.55	1,429.90	1,303.09	126.81	11.276	
7,100.00	6,636.76	16,236.00	7,569.74	44.61	158.98	87.49	1,787.46	2,105.55	1,338.73	1,208.38	130.35	10.270	
7,200.00	6,727.23	16,236.00	7,569.74	45.41	158.98	87.49	1,787.46	2,105.55	1,248.92	1,114.58	134.34	9.297	
7,300.00	6,817.70	16,236.00	7,569.74	46.22	158.98	87.49	1,787.46	2,105.55	1,160.77	1,021.92	138.85	8.360	
7,383.79	6,893.51	16,235.11	7,569.74	46.90	158.96	87.42	1,788.35	2,105.56	1,088.48	945.45	143.03	7.610	
7,400.00	6,908.25	16,229.71	7,569.77	47.03	158.87	82.49	1,793.74	2,105.66	1,074.60	930.90	143.70	7.478	
7,450.00	6,954.52	16,215.84	7,569.85	47.40	158.63	64.80	1,807.62	2,105.91	1,031.24	885.31	145.92	7.067	
7,500.00	7,001.74	16,206.20	7,569.90	47.72	158.46	43.13	1,817.25	2,106.08	987.36	838.99	148.38	6.654	
7,550.00	7,049.55	16,200.87	7,569.92	47.99	158.37	18.01	1,822.58	2,106.18	943.40	792.34	151.06	6.245	
7,600.00	7,097.58	16,199.90	7,569.93	48.21	158.35	-8.26	1,823.55	2,106.19	899.77	745.78	153.99	5.843	
7,650.00	7,145.48	16,203.28	7,569.91	48.37	158.41	-32.24	1,820.17	2,106.13	856.89	699.75	157.14	5.453	
7,700.00	7,192.88	16,211.00	7,569.87	48.48	158.54	-51.67	1,812.45	2,106.00	815.18	654.66	160.52	5.078	
7,750.00	7,239.41	16,222.99	7,569.81	48.54	158.75	-66.40	1,800.47	2,105.78	775.05	610.95	164.10	4.723	
7,800.00	7,284.72	16,239.17	7,569.72	48.56	159.03	-77.26	1,784.29	2,105.49	736.87	569.03	167.84	4.390	
7,850.00	7,328.47	16,236.00	7,569.74	48.54	158.98	-87.24	1,787.46	2,105.55	701.39	530.94	170.45	4.115	
7,900.00	7,370.32	16,236.00	7,569.74	48.47	158.98	-94.68	1,787.46	2,105.55	669.42	496.61	172.81	3.874	
7,950.00	7,409.96	16,236.00	7,569.74	48.37	158.98	-100.38	1,787.46	2,105.55	641.76	467.24	174.52	3.677	
8,000.00	7,447.08	16,236.00	7,569.74	48.24	158.98	-104.70	1,787.46	2,105.55	619.22	443.87	175.35	3.531	
8,050.00	7,481.41	16,236.00	7,569.74	48.07	158.98	-107.88	1,787.46	2,105.55	602.54	427.48	175.07	3.442	
8,100.00	7,512.67	16,236.00	7,569.74	47.87	158.98	-110.10	1,787.46	2,105.55	592.35	418.85	173.50	3.414	SF
8,148.26	7,539.72	16,236.00	7,569.74	47.66	158.98	-111.45	1,787.46	2,105.55	589.07	418.31	170.76	3.450	CC, ES
8,150.00	7,540.64	16,236.00	7,569.74	47.65	158.98	-111.48	1,787.46	2,105.55	589.08	418.43	170.64	3.452	
8,200.00	7,565.09	16,236.00	7,569.74	47.40	158.98	-112.08	1,787.46	2,105.55	592.84	426.23	166.61	3.558	
8,250.00	7,585.85	16,236.00	7,569.74	47.14	158.98	-111.94	1,787.46	2,105.55	603.50	441.82	161.68	3.733	
8,300.00	7,602.75	16,236.00	7,569.74	46.86	158.98	-111.04	1,787.46	2,105.55	620.61	464.42	156.18	3.974	
8,350.00	7,615.67	16,236.00	7,569.74	46.58	158.98	-109.35	1,787.46	2,105.55	643.53	493.07	150.47	4.277	
8,400.00	7,624.51	16,236.00	7,569.74	46.28	158.98	-106.81	1,787.46	2,105.55	671.52	526.71	144.81	4.637	
8,450.00	7,629.19	16,236.00	7,569.74	45.98	158.98	-103.33	1,787.46	2,105.55	703.75	564.33	139.42	5.048	
8,481.00	7,630.00	16,236.00	7,569.74	45.79	158.98	-100.65	1,787.46	2,105.55	725.53	589.25	136.28	5.324	
8,500.00	7,630.00	16,236.00	7,569.74	45.68	158.98	-100.65	1,787.46	2,105.55	739.37	604.93	134.44	5.500	
8,600.00	7,630.00	16,236.00	7,569.74	45.11	158.98	-100.65	1,787.46	2,105.55	815.62	689.93	125.69	6.489	
8,700.00	7,630.00	16,236.00	7,569.74	44.56	158.98	-100.65	1,787.46	2,105.55	896.56	778.16	118.40	7.572	
8,800.00	7,630.00	16,236.00	7,569.74	44.05	158.98	-100.65	1,787.46	2,105.55	981.02	868.71	112.31	8.735	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	16,236.00	7,569.74	43.57	158.98	-100.65	1,787.46	2,105.55	1,068.17	960.97	107.20	9.964	
9,000.00	7,630.00	16,236.00	7,569.74	43.12	158.98	-100.65	1,787.46	2,105.55	1,157.39	1,054.51	102.88	11.249	
9,100.00	7,630.00	16,236.00	7,569.74	42.70	158.98	-100.65	1,787.46	2,105.55	1,248.25	1,149.03	99.23	12.580	
9,200.00	7,630.00	16,236.00	7,569.74	42.31	158.98	-100.65	1,787.46	2,105.55	1,340.42	1,244.31	96.10	13.947	
9,300.00	7,630.00	16,236.00	7,569.74	41.94	158.98	-100.65	1,787.46	2,105.55	1,433.63	1,340.20	93.43	15.345	
9,400.00	7,630.00	16,236.00	7,569.74	41.59	158.98	-100.65	1,787.46	2,105.55	1,527.70	1,436.58	91.12	16.765	
9,500.00	7,630.00	16,236.00	7,569.74	41.26	158.98	-100.65	1,787.46	2,105.55	1,622.48	1,533.36	89.13	18.205	
9,600.00	7,630.00	16,236.00	7,569.74	40.96	158.98	-100.65	1,787.46	2,105.55	1,717.85	1,630.47	87.39	19.658	
9,700.00	7,630.00	16,236.00	7,569.74	40.68	158.98	-100.65	1,787.46	2,105.55	1,813.73	1,727.85	85.87	21.121	
9,800.00	7,630.00	16,236.00	7,569.74	40.42	158.98	-100.65	1,787.46	2,105.55	1,910.02	1,825.48	84.55	22.591	
9,900.00	7,630.00	16,236.00	7,569.74	40.17	158.98	-100.65	1,787.46	2,105.55	2,006.68	1,923.30	83.38	24.067	
10,000.00	7,630.00	16,236.00	7,569.74	39.96	158.98	-100.65	1,787.46	2,105.55	2,103.65	2,021.30	82.35	25.545	
10,100.00	7,630.00	16,236.00	7,569.74	40.05	158.98	-100.65	1,787.46	2,105.55	2,200.89	2,119.45	81.44	27.024	
10,200.00	7,630.00	16,236.00	7,569.74	40.95	158.98	-100.65	1,787.46	2,105.55	2,298.37	2,217.73	80.64	28.503	
10,300.00	7,630.00	16,236.00	7,569.74	41.94	158.98	-100.65	1,787.46	2,105.55	2,396.05	2,316.13	79.92	29.980	
10,400.00	7,630.00	16,236.00	7,569.74	42.98	158.98	-100.65	1,787.46	2,105.55	2,493.92	2,414.64	79.28	31.455	
10,500.00	7,630.00	16,236.00	7,569.74	44.06	158.98	-100.65	1,787.46	2,105.55	2,591.96	2,513.24	78.72	32.927	
10,600.00	7,630.00	16,236.00	7,569.74	45.17	158.98	-100.65	1,787.46	2,105.55	2,690.13	2,611.92	78.21	34.396	
10,700.00	7,630.00	16,236.00	7,569.74	46.32	158.98	-100.65	1,787.46	2,105.55	2,788.44	2,710.68	77.76	35.861	
10,800.00	7,630.00	16,236.00	7,569.74	47.50	158.98	-100.65	1,787.46	2,105.55	2,886.86	2,809.51	77.35	37.322	
10,900.00	7,630.00	16,236.00	7,569.74	48.70	158.98	-100.65	1,787.46	2,105.55	2,985.39	2,908.40	76.98	38.779	
11,000.00	7,630.00	16,236.00	7,569.74	49.94	158.98	-100.65	1,787.46	2,105.55	3,084.01	3,007.35	76.66	40.231	
11,100.00	7,630.00	16,236.00	7,569.74	51.20	158.98	-100.65	1,787.46	2,105.55	3,182.72	3,106.36	76.36	41.679	
11,200.00	7,630.00	16,236.00	7,569.74	52.48	158.98	-100.65	1,787.46	2,105.55	3,281.51	3,205.41	76.10	43.122	
11,300.00	7,630.00	16,236.00	7,569.74	53.79	158.98	-100.65	1,787.46	2,105.55	3,380.36	3,304.50	75.86	44.561	
11,400.00	7,630.00	16,236.00	7,569.74	55.12	158.98	-100.65	1,787.46	2,105.55	3,479.29	3,403.64	75.65	45.995	
11,500.00	7,630.00	16,236.00	7,569.74	56.46	158.98	-100.65	1,787.46	2,105.55	3,578.27	3,502.82	75.45	47.424	
11,600.00	7,630.00	16,236.00	7,569.74	57.83	158.98	-100.65	1,787.46	2,105.55	3,677.31	3,602.03	75.28	48.849	
11,700.00	7,630.00	16,236.00	7,569.74	59.22	158.98	-100.65	1,787.46	2,105.55	3,776.40	3,701.27	75.12	50.270	
11,800.00	7,630.00	16,236.00	7,569.74	60.62	158.98	-100.65	1,787.46	2,105.55	3,875.53	3,800.55	74.98	51.686	
11,900.00	7,630.00	16,236.00	7,569.74	62.04	158.98	-100.65	1,787.46	2,105.55	3,974.71	3,899.86	74.86	53.099	
12,000.00	7,630.00	16,236.00	7,569.74	63.48	158.98	-100.65	1,787.46	2,105.55	4,073.93	3,999.19	74.74	54.507	
12,100.00	7,630.00	16,236.00	7,569.74	64.93	158.98	-100.65	1,787.46	2,105.55	4,173.19	4,098.55	74.64	55.911	
12,200.00	7,630.00	16,236.00	7,569.74	66.39	158.98	-100.65	1,787.46	2,105.55	4,272.48	4,197.93	74.55	57.311	
12,300.00	7,630.00	16,236.00	7,569.74	67.86	158.98	-100.65	1,787.46	2,105.55	4,371.80	4,297.33	74.47	58.707	
12,400.00	7,630.00	16,236.00	7,569.74	69.35	158.98	-100.65	1,787.46	2,105.55	4,471.15	4,396.76	74.40	60.100	
12,500.00	7,630.00	16,236.00	7,569.74	70.85	158.98	-100.65	1,787.46	2,105.55	4,570.54	4,496.20	74.33	61.488	
12,600.00	7,630.00	16,236.00	7,569.74	72.36	158.98	-100.65	1,787.46	2,105.55	4,669.94	4,595.67	74.28	62.874	
12,700.00	7,630.00	16,236.00	7,569.74	73.88	158.98	-100.65	1,787.46	2,105.55	4,769.38	4,695.15	74.23	64.255	
12,800.00	7,630.00	16,236.00	7,569.74	75.41	158.98	-100.65	1,787.46	2,105.55	4,868.83	4,794.65	74.18	65.633	
12,900.00	7,630.00	16,236.00	7,569.74	76.95	158.98	-100.65	1,787.46	2,105.55	4,968.31	4,894.17	74.15	67.008	
13,000.00	7,630.00	16,236.00	7,569.74	78.49	158.98	-100.65	1,787.46	2,105.55	5,067.81	4,993.70	74.11	68.379	
13,100.00	7,630.00	16,236.00	7,569.74	80.05	158.98	-100.65	1,787.46	2,105.55	5,167.33	5,093.24	74.09	69.747	
13,200.00	7,630.00	16,236.00	7,569.74	81.61	158.98	-100.65	1,787.46	2,105.55	5,266.86	5,192.80	74.06	71.112	
13,300.00	7,630.00	16,236.00	7,569.74	83.18	158.98	-100.65	1,787.46	2,105.55	5,366.42	5,292.37	74.05	72.474	
13,400.00	7,630.00	16,236.00	7,569.74	84.76	158.98	-100.65	1,787.46	2,105.55	5,465.99	5,391.95	74.03	73.832	
13,500.00	7,630.00	16,236.00	7,569.74	86.34	158.98	-100.65	1,787.46	2,105.55	5,565.57	5,491.55	74.02	75.188	
13,600.00	7,630.00	16,236.00	7,569.74	87.94	158.98	-100.65	1,787.46	2,105.55	5,665.17	5,591.16	74.02	76.540	
13,700.00	7,630.00	16,236.00	7,569.74	89.53	158.98	-100.65	1,787.46	2,105.55	5,764.78	5,690.77	74.01	77.890	
13,800.00	7,630.00	16,236.00	7,569.74	91.13	158.98	-100.65	1,787.46	2,105.55	5,864.41	5,790.40	74.01	79.236	
13,900.00	7,630.00	16,236.00	7,569.74	92.74	158.98	-100.65	1,787.46	2,105.55	5,964.05	5,890.04	74.01	80.580	
14,000.00	7,630.00	16,236.00	7,569.74	94.35	158.98	-100.65	1,787.46	2,105.55	6,063.70	5,989.68	74.02	81.920	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,100.00	7,630.00	16,236.00	7,569.74	95.97	158.98	-100.65	1,787.46	2,105.55	6,163.36	6,089.34	74.03	83.258	
14,200.00	7,630.00	16,236.00	7,569.74	97.60	158.98	-100.65	1,787.46	2,105.55	6,263.04	6,189.00	74.04	84.593	
14,300.00	7,630.00	16,236.00	7,569.74	99.22	158.98	-100.65	1,787.46	2,105.55	6,362.72	6,288.67	74.05	85.926	
14,400.00	7,630.00	16,236.00	7,569.74	100.85	158.98	-100.65	1,787.46	2,105.55	6,462.41	6,388.35	74.06	87.255	
14,500.00	7,630.00	16,236.00	7,569.74	102.49	158.98	-100.65	1,787.46	2,105.55	6,562.12	6,488.04	74.08	88.582	
14,600.00	7,630.00	16,236.00	7,569.74	104.13	158.98	-100.65	1,787.46	2,105.55	6,661.83	6,587.73	74.10	89.906	
14,700.00	7,630.00	16,236.00	7,569.74	105.77	158.98	-100.65	1,787.46	2,105.55	6,761.55	6,687.43	74.12	91.227	
14,800.00	7,630.00	16,236.00	7,569.74	107.42	158.98	-100.65	1,787.46	2,105.55	6,861.28	6,787.14	74.14	92.545	
14,900.00	7,630.00	16,236.00	7,569.74	109.07	158.98	-100.65	1,787.46	2,105.55	6,961.01	6,886.85	74.16	93.861	
15,000.00	7,630.00	16,236.00	7,569.74	110.72	158.98	-100.65	1,787.46	2,105.55	7,060.75	6,986.57	74.19	95.174	
15,100.00	7,630.00	16,236.00	7,569.74	112.38	158.98	-100.65	1,787.46	2,105.55	7,160.51	7,086.29	74.21	96.485	
15,200.00	7,630.00	16,236.00	7,569.74	114.04	158.98	-100.65	1,787.46	2,105.55	7,260.26	7,186.02	74.24	97.793	
15,300.00	7,630.00	16,236.00	7,569.74	115.71	158.98	-100.65	1,787.46	2,105.55	7,360.03	7,285.76	74.27	99.098	
15,400.00	7,630.00	16,236.00	7,569.74	117.37	158.98	-100.65	1,787.46	2,105.55	7,459.80	7,385.50	74.30	100.400	
15,500.00	7,630.00	16,236.00	7,569.74	119.04	158.98	-100.65	1,787.46	2,105.55	7,559.57	7,485.24	74.33	101.700	
15,600.00	7,630.00	16,236.00	7,569.74	120.71	158.98	-100.65	1,787.46	2,105.55	7,659.36	7,584.99	74.36	102.997	
15,700.00	7,630.00	16,236.00	7,569.74	122.39	158.98	-100.65	1,787.46	2,105.55	7,759.14	7,684.75	74.40	104.292	
15,800.00	7,630.00	16,236.00	7,569.74	124.06	158.98	-100.65	1,787.46	2,105.55	7,858.94	7,784.50	74.43	105.584	
15,900.00	7,630.00	16,236.00	7,569.74	125.74	158.98	-100.65	1,787.46	2,105.55	7,958.74	7,884.27	74.47	106.873	
16,000.00	7,630.00	16,236.00	7,569.74	127.42	158.98	-100.65	1,787.46	2,105.55	8,058.54	7,984.03	74.51	108.160	
16,100.00	7,630.00	16,236.00	7,569.74	129.10	158.98	-100.65	1,787.46	2,105.55	8,158.35	8,083.80	74.54	109.444	
16,200.00	7,630.00	16,236.00	7,569.74	130.79	158.98	-100.65	1,787.46	2,105.55	8,258.16	8,183.58	74.58	110.725	
16,300.00	7,630.00	16,236.00	7,569.74	132.48	158.98	-100.65	1,787.46	2,105.55	8,357.98	8,283.35	74.62	112.004	
16,400.00	7,630.00	16,236.00	7,569.74	134.17	158.98	-100.65	1,787.46	2,105.55	8,457.80	8,383.14	74.66	113.280	
16,500.00	7,630.00	16,236.00	7,569.74	135.86	158.98	-100.65	1,787.46	2,105.55	8,557.62	8,482.92	74.70	114.554	
16,600.00	7,630.00	16,236.00	7,569.74	137.55	158.98	-100.65	1,787.46	2,105.55	8,657.45	8,582.71	74.75	115.825	
16,700.00	7,630.00	16,236.00	7,569.74	139.24	158.98	-100.65	1,787.46	2,105.55	8,757.29	8,682.50	74.79	117.093	
16,800.00	7,630.00	16,236.00	7,569.74	140.94	158.98	-100.65	1,787.46	2,105.55	8,857.13	8,782.29	74.83	118.359	
16,900.00	7,630.00	16,236.00	7,569.74	142.64	158.98	-100.65	1,787.46	2,105.55	8,956.97	8,882.09	74.88	119.622	
17,000.00	7,630.00	16,236.00	7,569.74	144.34	158.98	-100.65	1,787.46	2,105.55	9,056.81	8,981.89	74.92	120.882	
17,100.00	7,630.00	16,236.00	7,569.74	146.04	158.98	-100.65	1,787.46	2,105.55	9,156.66	9,081.69	74.97	122.139	
17,200.00	7,630.00	16,236.00	7,569.74	147.74	158.98	-100.65	1,787.46	2,105.55	9,256.51	9,181.49	75.02	123.394	
17,300.00	7,630.00	16,236.00	7,569.74	149.44	158.98	-100.65	1,787.46	2,105.55	9,356.36	9,281.30	75.06	124.647	
17,400.00	7,630.00	16,236.00	7,569.74	151.15	158.98	-100.65	1,787.46	2,105.55	9,456.22	9,381.11	75.11	125.896	
17,500.00	7,630.00	16,236.00	7,569.74	152.86	158.98	-100.65	1,787.46	2,105.55	9,556.08	9,480.92	75.16	127.143	
17,600.00	7,630.00	16,236.00	7,569.74	154.56	158.98	-100.65	1,787.46	2,105.55	9,655.95	9,580.74	75.21	128.387	
17,700.00	7,630.00	16,236.00	7,569.74	156.27	158.98	-100.65	1,787.46	2,105.55	9,755.81	9,680.55	75.26	129.629	
17,800.00	7,630.00	16,236.00	7,569.74	157.98	158.98	-100.65	1,787.46	2,105.55	9,855.68	9,780.37	75.31	130.868	
17,900.00	7,630.00	16,236.00	7,569.74	159.70	158.98	-100.65	1,787.46	2,105.55	9,955.55	9,880.19	75.36	132.104	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	39.73	1,781.78	1,481.03	8,167.15				
100.00	100.00	16,659.00	7,678.61	0.13	161.70	39.73	1,781.78	1,481.03	8,071.31	7,992.13	79.18	101.934	
200.00	200.00	16,659.00	7,678.61	0.49	161.70	39.73	1,781.78	1,481.03	7,975.57	7,896.31	79.26	100.631	
300.00	300.00	16,659.00	7,678.61	0.85	161.70	39.73	1,781.78	1,481.03	7,879.93	7,800.59	79.34	99.317	
400.00	400.00	16,659.00	7,678.61	1.21	161.70	39.73	1,781.78	1,481.03	7,784.41	7,704.97	79.44	97.992	
500.00	500.00	16,659.00	7,678.61	1.57	161.70	39.73	1,781.78	1,481.03	7,689.00	7,609.45	79.55	96.656	
600.00	600.00	16,659.00	7,678.61	1.93	161.70	39.73	1,781.78	1,481.03	7,593.71	7,514.03	79.67	95.310	
700.00	700.00	16,659.00	7,678.61	2.29	161.70	39.73	1,781.78	1,481.03	7,498.54	7,418.73	79.81	93.956	
800.00	800.00	16,659.00	7,678.61	2.64	161.70	39.73	1,781.78	1,481.03	7,403.50	7,323.54	79.96	92.593	
900.00	900.00	16,659.00	7,678.61	3.00	161.70	39.73	1,781.78	1,481.03	7,308.59	7,228.47	80.12	91.224	
1,000.00	1,000.00	16,659.00	7,678.61	3.36	161.70	39.73	1,781.78	1,481.03	7,213.81	7,133.52	80.29	89.848	
1,100.00	1,100.00	16,659.00	7,678.61	3.72	161.70	39.73	1,781.78	1,481.03	7,119.18	7,038.71	80.47	88.468	
1,200.00	1,200.00	16,659.00	7,678.61	4.08	161.70	39.73	1,781.78	1,481.03	7,024.70	6,944.04	80.67	87.083	
1,300.00	1,300.00	16,659.00	7,678.61	4.44	161.70	39.73	1,781.78	1,481.03	6,930.38	6,849.50	80.87	85.695	
1,400.00	1,400.00	16,659.00	7,678.61	4.79	161.70	39.73	1,781.78	1,481.03	6,836.21	6,755.12	81.09	84.305	
1,500.00	1,499.98	16,659.00	7,678.61	5.15	161.70	2.13	1,781.78	1,481.03	6,741.64	6,660.32	81.32	82.905	
1,600.00	1,599.84	16,659.00	7,678.61	5.51	161.70	2.39	1,781.78	1,481.03	6,646.12	6,564.57	81.55	81.499	
1,700.00	1,699.45	16,659.00	7,678.61	5.87	161.70	2.71	1,781.78	1,481.03	6,549.74	6,467.97	81.77	80.101	
1,800.00	1,798.70	16,659.00	7,678.61	6.23	161.70	3.13	1,781.78	1,481.03	6,452.58	6,370.61	81.98	78.711	
1,900.00	1,897.47	16,659.00	7,678.61	6.60	161.70	3.69	1,781.78	1,481.03	6,354.73	6,272.56	82.18	77.332	
2,000.00	1,995.62	16,659.00	7,678.61	6.99	161.70	4.50	1,781.78	1,481.03	6,256.27	6,173.91	82.36	75.964	
2,100.00	2,093.06	16,659.00	7,678.61	7.39	161.70	5.73	1,781.78	1,481.03	6,157.30	6,074.77	82.53	74.608	
2,200.00	2,189.64	16,659.00	7,678.61	7.82	161.70	7.86	1,781.78	1,481.03	6,057.92	5,975.23	82.68	73.267	
2,300.00	2,285.27	16,659.00	7,678.61	8.28	161.70	12.38	1,781.78	1,481.03	5,958.22	5,875.40	82.82	71.942	
2,400.00	2,379.82	16,659.00	7,678.61	8.77	161.70	27.60	1,781.78	1,481.03	5,858.33	5,775.39	82.94	70.633	
2,500.00	2,473.17	16,659.00	7,678.61	9.31	161.70	124.59	1,781.78	1,481.03	5,758.34	5,675.30	83.04	69.343	
2,600.00	2,565.21	16,659.00	7,678.61	9.88	161.70	162.88	1,781.78	1,481.03	5,658.39	5,575.27	83.13	68.071	
2,660.67	2,620.37	16,659.00	7,678.61	10.25	161.70	168.17	1,781.78	1,481.03	5,597.82	5,514.66	83.17	67.309	
2,700.00	2,655.96	16,659.00	7,678.61	10.50	161.70	168.17	1,781.78	1,481.03	5,558.59	5,475.39	83.19	66.817	
2,800.00	2,746.43	16,659.00	7,678.61	11.15	161.70	168.17	1,781.78	1,481.03	5,458.82	5,375.57	83.26	65.565	
2,900.00	2,836.90	16,659.00	7,678.61	11.82	161.70	168.17	1,781.78	1,481.03	5,359.07	5,275.74	83.33	64.313	
3,000.00	2,927.37	16,659.00	7,678.61	12.50	161.70	168.17	1,781.78	1,481.03	5,259.33	5,175.93	83.40	63.061	
3,100.00	3,017.85	16,659.00	7,678.61	13.21	161.70	168.17	1,781.78	1,481.03	5,159.59	5,076.12	83.48	61.808	
3,200.00	3,108.32	16,659.00	7,678.61	13.92	161.70	168.17	1,781.78	1,481.03	5,059.87	4,976.31	83.56	60.556	
3,300.00	3,198.79	16,659.00	7,678.61	14.64	161.70	168.17	1,781.78	1,481.03	4,960.16	4,876.52	83.64	59.305	
3,400.00	3,289.27	16,659.00	7,678.61	15.38	161.70	168.17	1,781.78	1,481.03	4,860.46	4,776.73	83.72	58.053	
3,500.00	3,379.74	16,659.00	7,678.61	16.12	161.70	168.17	1,781.78	1,481.03	4,760.77	4,676.96	83.81	56.803	
3,600.00	3,470.21	16,659.00	7,678.61	16.87	161.70	168.17	1,781.78	1,481.03	4,661.10	4,577.19	83.90	55.553	
3,700.00	3,560.68	16,659.00	7,678.61	17.62	161.70	168.17	1,781.78	1,481.03	4,561.44	4,477.44	84.00	54.305	
3,800.00	3,651.16	16,659.00	7,678.61	18.39	161.70	168.17	1,781.78	1,481.03	4,461.79	4,377.70	84.09	53.058	
3,900.00	3,741.63	16,659.00	7,678.61	19.15	161.70	168.17	1,781.78	1,481.03	4,362.16	4,277.97	84.19	51.812	
4,000.00	3,832.10	16,659.00	7,678.61	19.92	161.70	168.17	1,781.78	1,481.03	4,262.55	4,178.26	84.29	50.567	
4,100.00	3,922.57	16,659.00	7,678.61	20.69	161.70	168.17	1,781.78	1,481.03	4,162.96	4,078.56	84.40	49.324	
4,200.00	4,013.05	16,659.00	7,678.61	21.47	161.70	168.17	1,781.78	1,481.03	4,063.39	3,978.88	84.51	48.083	
4,300.00	4,103.52	16,659.00	7,678.61	22.25	161.70	168.17	1,781.78	1,481.03	3,963.84	3,879.22	84.62	46.844	
4,400.00	4,193.99	16,659.00	7,678.61	23.03	161.70	168.17	1,781.78	1,481.03	3,864.31	3,779.58	84.73	45.607	
4,500.00	4,284.47	16,659.00	7,678.61	23.81	161.70	168.17	1,781.78	1,481.03	3,764.81	3,679.96	84.85	44.372	
4,600.00	4,374.94	16,659.00	7,678.61	24.60	161.70	168.17	1,781.78	1,481.03	3,665.33	3,580.37	84.97	43.139	
4,700.00	4,465.41	16,659.00	7,678.61	25.39	161.70	168.17	1,781.78	1,481.03	3,565.88	3,480.80	85.09	41.909	
4,800.00	4,555.88	16,659.00	7,678.61	26.18	161.70	168.17	1,781.78	1,481.03	3,466.47	3,381.26	85.21	40.681	
4,900.00	4,646.36	16,659.00	7,678.61	26.97	161.70	168.17	1,781.78	1,481.03	3,367.09	3,281.75	85.34	39.456	
5,000.00	4,736.83	16,659.00	7,678.61	27.76	161.70	168.17	1,781.78	1,481.03	3,267.75	3,182.28	85.47	38.234	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	16,659.00	7,678.61	28.55	161.70	168.17	1,781.78	1,481.03	3,168.45	3,082.85	85.60	37.015	
5,200.00	4,917.77	16,659.00	7,678.61	29.35	161.70	168.17	1,781.78	1,481.03	3,069.19	2,983.46	85.73	35.800	
5,300.00	5,008.25	16,659.00	7,678.61	30.15	161.70	168.17	1,781.78	1,481.03	2,969.99	2,884.12	85.87	34.587	
5,400.00	5,098.72	16,659.00	7,678.61	30.94	161.70	168.17	1,781.78	1,481.03	2,870.84	2,784.83	86.01	33.378	
5,500.00	5,189.19	16,659.00	7,678.61	31.74	161.70	168.17	1,781.78	1,481.03	2,771.75	2,685.60	86.15	32.172	
5,600.00	5,279.67	16,659.00	7,678.61	32.54	161.70	168.17	1,781.78	1,481.03	2,672.73	2,586.43	86.30	30.970	
5,700.00	5,370.14	16,659.00	7,678.61	33.34	161.70	168.17	1,781.78	1,481.03	2,573.78	2,487.33	86.45	29.772	
5,800.00	5,460.61	16,659.00	7,678.61	34.14	161.70	168.17	1,781.78	1,481.03	2,474.92	2,388.32	86.60	28.577	
5,900.00	5,551.08	16,659.00	7,678.61	34.94	161.70	168.17	1,781.78	1,481.03	2,376.16	2,289.40	86.76	27.387	
6,000.00	5,641.56	16,659.00	7,678.61	35.75	161.70	168.17	1,781.78	1,481.03	2,277.50	2,190.58	86.92	26.201	
6,100.00	5,732.03	16,659.00	7,678.61	36.55	161.70	168.17	1,781.78	1,481.03	2,178.97	2,091.88	87.09	25.020	
6,200.00	5,822.50	16,659.00	7,678.61	37.35	161.70	168.17	1,781.78	1,481.03	2,080.57	1,993.31	87.26	23.843	
6,300.00	5,912.97	16,659.00	7,678.61	38.16	161.70	168.17	1,781.78	1,481.03	1,982.34	1,894.90	87.44	22.671	
6,400.00	6,003.45	16,659.00	7,678.61	38.96	161.70	168.17	1,781.78	1,481.03	1,884.29	1,796.66	87.62	21.504	
6,500.00	6,093.92	16,659.00	7,678.61	39.77	161.70	168.17	1,781.78	1,481.03	1,786.46	1,698.64	87.82	20.343	
6,600.00	6,184.39	16,659.00	7,678.61	40.57	161.70	168.17	1,781.78	1,481.03	1,688.88	1,600.86	88.02	19.187	
6,700.00	6,274.87	16,659.00	7,678.61	41.38	161.70	168.17	1,781.78	1,481.03	1,591.60	1,503.36	88.24	18.037	
6,800.00	6,365.34	16,659.00	7,678.61	42.18	161.70	168.17	1,781.78	1,481.03	1,494.68	1,406.21	88.47	16.894	
6,900.00	6,455.81	16,659.00	7,678.61	42.99	161.70	168.17	1,781.78	1,481.03	1,398.20	1,309.47	88.72	15.759	
7,000.00	6,546.28	16,659.00	7,678.61	43.80	161.70	168.17	1,781.78	1,481.03	1,302.24	1,213.24	89.00	14.632	
7,100.00	6,636.76	16,659.00	7,678.61	44.61	161.70	168.17	1,781.78	1,481.03	1,206.95	1,117.64	89.31	13.514	
7,200.00	6,727.23	16,659.00	7,678.61	45.41	161.70	168.17	1,781.78	1,481.03	1,112.48	1,022.81	89.66	12.407	
7,300.00	6,817.70	16,650.89	7,678.52	46.22	161.55	168.74	1,789.89	1,480.97	1,019.03	929.21	89.82	11.345	
7,383.79	6,893.51	16,623.75	7,678.19	46.90	161.08	170.81	1,817.02	1,480.77	941.17	851.81	89.36	10.532	
7,400.00	6,908.25	16,618.72	7,678.13	47.03	161.00	171.14	1,822.05	1,480.73	926.07	836.79	89.28	10.373	
7,450.00	6,954.52	16,606.42	7,677.99	47.40	160.78	172.90	1,834.35	1,480.64	878.75	789.70	89.05	9.868	
7,500.00	7,001.74	16,598.63	7,677.90	47.72	160.65	176.16	1,842.14	1,480.58	830.65	741.78	88.87	9.347	
7,550.00	7,049.55	16,594.74	7,677.86	47.99	160.58	-179.58	1,846.04	1,480.55	782.14	693.40	88.74	8.814	
7,600.00	7,097.58	16,594.83	7,677.86	48.21	160.58	-176.88	1,845.94	1,480.55	733.62	644.95	88.67	8.273	
7,650.00	7,145.48	16,598.98	7,677.91	48.37	160.65	-177.26	1,841.79	1,480.58	685.50	596.78	88.72	7.726	
7,700.00	7,192.88	16,615.06	7,677.99	48.48	160.93	-179.43	1,833.83	1,480.64	638.19	549.21	88.98	7.172	
7,750.00	7,239.41	16,620.07	7,678.15	48.54	161.02	177.76	1,820.70	1,480.74	592.10	502.72	89.37	6.625	
7,800.00	7,284.72	16,637.35	7,678.35	48.56	161.32	175.08	1,803.43	1,480.87	547.62	457.49	90.13	6.076	
7,850.00	7,328.47	16,658.65	7,678.61	48.54	161.69	172.61	1,782.13	1,481.03	505.14	413.87	91.27	5.535	
7,900.00	7,370.32	16,659.00	7,678.61	48.47	161.70	172.65	1,781.78	1,481.03	465.69	373.27	92.42	5.039	
7,950.00	7,409.96	16,659.00	7,678.61	48.37	161.70	172.43	1,781.78	1,481.03	431.00	336.62	94.38	4.567	
8,000.00	7,447.08	16,659.00	7,678.61	48.24	161.70	171.99	1,781.78	1,481.03	402.59	305.36	97.23	4.141	
8,050.00	7,481.41	16,659.00	7,678.61	48.07	161.70	171.34	1,781.78	1,481.03	382.11	281.36	100.75	3.793	
8,100.00	7,512.67	16,659.00	7,678.61	47.87	161.70	170.49	1,781.78	1,481.03	371.02	266.69	104.33	3.556	
8,128.58	7,529.08	16,659.00	7,678.61	47.74	161.70	169.90	1,781.78	1,481.03	369.30	263.20	106.10	3.481	CC
8,150.00	7,540.64	16,659.00	7,678.61	47.65	161.70	169.40	1,781.78	1,481.03	370.27	263.07	107.19	3.454	ES, SF
8,200.00	7,565.09	16,659.00	7,678.61	47.40	161.70	168.02	1,781.78	1,481.03	379.91	271.17	108.74	3.494	
8,250.00	7,585.85	16,659.00	7,678.61	47.14	161.70	166.26	1,781.78	1,481.03	399.13	290.31	108.83	3.668	
8,300.00	7,602.75	16,659.00	7,678.61	46.86	161.70	163.99	1,781.78	1,481.03	426.51	318.80	107.70	3.960	
8,350.00	7,615.67	16,659.00	7,678.61	46.58	161.70	161.01	1,781.78	1,481.03	460.39	354.63	105.76	4.353	
8,400.00	7,624.51	16,659.00	7,678.61	46.28	161.70	156.99	1,781.78	1,481.03	499.24	395.87	103.37	4.830	
8,450.00	7,629.19	16,659.00	7,678.61	45.98	161.70	151.46	1,781.78	1,481.03	541.72	440.93	100.79	5.375	
8,481.00	7,630.00	16,659.00	7,678.61	45.79	161.70	146.94	1,781.78	1,481.03	569.41	470.23	99.17	5.742	
8,500.00	7,630.00	16,659.00	7,678.61	45.68	161.70	146.94	1,781.78	1,481.03	586.68	488.47	98.21	5.974	
8,600.00	7,630.00	16,659.00	7,678.61	45.11	161.70	146.94	1,781.78	1,481.03	679.13	585.20	93.93	7.230	
8,700.00	7,630.00	16,659.00	7,678.61	44.56	161.70	146.94	1,781.78	1,481.03	773.46	682.77	90.69	8.529	
8,800.00	7,630.00	16,659.00	7,678.61	44.05	161.70	146.94	1,781.78	1,481.03	869.05	780.87	88.18	9.855	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	16,659.00	7,678.61	43.57	161.70	146.94	1,781.78	1,481.03	965.54	879.34	86.21	11.201	
9,000.00	7,630.00	16,659.00	7,678.61	43.12	161.70	146.94	1,781.78	1,481.03	1,062.68	978.06	84.62	12.558	
9,100.00	7,630.00	16,659.00	7,678.61	42.70	161.70	146.94	1,781.78	1,481.03	1,160.31	1,076.98	83.33	13.924	
9,200.00	7,630.00	16,659.00	7,678.61	42.31	161.70	146.94	1,781.78	1,481.03	1,258.31	1,176.04	82.27	15.295	
9,300.00	7,630.00	16,659.00	7,678.61	41.94	161.70	146.94	1,781.78	1,481.03	1,356.60	1,275.22	81.38	16.671	
9,400.00	7,630.00	16,659.00	7,678.61	41.59	161.70	146.94	1,781.78	1,481.03	1,455.12	1,374.50	80.62	18.049	
9,500.00	7,630.00	16,659.00	7,678.61	41.26	161.70	146.94	1,781.78	1,481.03	1,553.83	1,473.86	79.98	19.429	
9,600.00	7,630.00	16,659.00	7,678.61	40.96	161.70	146.94	1,781.78	1,481.03	1,652.70	1,573.28	79.42	20.810	
9,700.00	7,630.00	16,659.00	7,678.61	40.68	161.70	146.94	1,781.78	1,481.03	1,751.69	1,672.76	78.94	22.191	
9,800.00	7,630.00	16,659.00	7,678.61	40.42	161.70	146.94	1,781.78	1,481.03	1,850.80	1,772.29	78.51	23.573	
9,900.00	7,630.00	16,659.00	7,678.61	40.17	161.70	146.94	1,781.78	1,481.03	1,949.99	1,871.85	78.14	24.955	
10,000.00	7,630.00	16,659.00	7,678.61	39.96	161.70	146.94	1,781.78	1,481.03	2,049.27	1,971.46	77.81	26.337	
10,100.00	7,630.00	16,659.00	7,678.61	40.05	161.70	146.94	1,781.78	1,481.03	2,148.61	2,071.09	77.51	27.719	
10,200.00	7,630.00	16,659.00	7,678.61	40.95	161.70	146.94	1,781.78	1,481.03	2,248.01	2,170.76	77.25	29.100	
10,300.00	7,630.00	16,659.00	7,678.61	41.94	161.70	146.94	1,781.78	1,481.03	2,347.46	2,270.44	77.01	30.481	
10,400.00	7,630.00	16,659.00	7,678.61	42.98	161.70	146.94	1,781.78	1,481.03	2,446.95	2,370.15	76.80	31.862	
10,500.00	7,630.00	16,659.00	7,678.61	44.06	161.70	146.94	1,781.78	1,481.03	2,546.49	2,469.88	76.61	33.241	
10,600.00	7,630.00	16,659.00	7,678.61	45.17	161.70	146.94	1,781.78	1,481.03	2,646.06	2,569.63	76.43	34.620	
10,700.00	7,630.00	16,659.00	7,678.61	46.32	161.70	146.94	1,781.78	1,481.03	2,745.66	2,669.39	76.27	35.999	
10,800.00	7,630.00	16,659.00	7,678.61	47.50	161.70	146.94	1,781.78	1,481.03	2,845.29	2,769.16	76.13	37.376	
10,900.00	7,630.00	16,659.00	7,678.61	48.70	161.70	146.94	1,781.78	1,481.03	2,944.94	2,868.95	75.99	38.753	
11,000.00	7,630.00	16,659.00	7,678.61	49.94	161.70	146.94	1,781.78	1,481.03	3,044.62	2,968.75	75.87	40.129	
11,100.00	7,630.00	16,659.00	7,678.61	51.20	161.70	146.94	1,781.78	1,481.03	3,144.31	3,068.56	75.76	41.505	
11,200.00	7,630.00	16,659.00	7,678.61	52.48	161.70	146.94	1,781.78	1,481.03	3,244.03	3,168.37	75.66	42.879	
11,300.00	7,630.00	16,659.00	7,678.61	53.79	161.70	146.94	1,781.78	1,481.03	3,343.76	3,268.20	75.56	44.252	
11,400.00	7,630.00	16,659.00	7,678.61	55.12	161.70	146.94	1,781.78	1,481.03	3,443.51	3,368.04	75.47	45.625	
11,500.00	7,630.00	16,659.00	7,678.61	56.46	161.70	146.94	1,781.78	1,481.03	3,543.27	3,467.88	75.39	46.996	
11,600.00	7,630.00	16,659.00	7,678.61	57.83	161.70	146.94	1,781.78	1,481.03	3,643.05	3,567.73	75.32	48.367	
11,700.00	7,630.00	16,659.00	7,678.61	59.22	161.70	146.94	1,781.78	1,481.03	3,742.84	3,667.58	75.25	49.736	
11,800.00	7,630.00	16,659.00	7,678.61	60.62	161.70	146.94	1,781.78	1,481.03	3,842.64	3,767.44	75.19	51.105	
11,900.00	7,630.00	16,659.00	7,678.61	62.04	161.70	146.94	1,781.78	1,481.03	3,942.44	3,867.31	75.13	52.472	
12,000.00	7,630.00	16,659.00	7,678.61	63.48	161.70	146.94	1,781.78	1,481.03	4,042.26	3,967.18	75.08	53.838	
12,100.00	7,630.00	16,659.00	7,678.61	64.93	161.70	146.94	1,781.78	1,481.03	4,142.09	4,067.06	75.03	55.203	
12,200.00	7,630.00	16,659.00	7,678.61	66.39	161.70	146.94	1,781.78	1,481.03	4,241.93	4,166.94	74.99	56.566	
12,300.00	7,630.00	16,659.00	7,678.61	67.86	161.70	146.94	1,781.78	1,481.03	4,341.77	4,266.82	74.95	57.929	
12,400.00	7,630.00	16,659.00	7,678.61	69.35	161.70	146.94	1,781.78	1,481.03	4,441.62	4,366.70	74.91	59.290	
12,500.00	7,630.00	16,659.00	7,678.61	70.85	161.70	146.94	1,781.78	1,481.03	4,541.47	4,466.59	74.88	60.650	
12,600.00	7,630.00	16,659.00	7,678.61	72.36	161.70	146.94	1,781.78	1,481.03	4,641.34	4,566.49	74.85	62.009	
12,700.00	7,630.00	16,659.00	7,678.61	73.88	161.70	146.94	1,781.78	1,481.03	4,741.21	4,666.38	74.82	63.366	
12,800.00	7,630.00	16,659.00	7,678.61	75.41	161.70	146.94	1,781.78	1,481.03	4,841.08	4,766.28	74.80	64.722	
12,900.00	7,630.00	16,659.00	7,678.61	76.95	161.70	146.94	1,781.78	1,481.03	4,940.96	4,866.18	74.78	66.076	
13,000.00	7,630.00	16,659.00	7,678.61	78.49	161.70	146.94	1,781.78	1,481.03	5,040.84	4,966.08	74.76	67.429	
13,100.00	7,630.00	16,659.00	7,678.61	80.05	161.70	146.94	1,781.78	1,481.03	5,140.73	5,065.99	74.74	68.780	
13,200.00	7,630.00	16,659.00	7,678.61	81.61	161.70	146.94	1,781.78	1,481.03	5,240.62	5,165.90	74.73	70.130	
13,300.00	7,630.00	16,659.00	7,678.61	83.18	161.70	146.94	1,781.78	1,481.03	5,340.52	5,265.80	74.71	71.479	
13,400.00	7,630.00	16,659.00	7,678.61	84.76	161.70	146.94	1,781.78	1,481.03	5,440.42	5,365.71	74.70	72.825	
13,500.00	7,630.00	16,659.00	7,678.61	86.34	161.70	146.94	1,781.78	1,481.03	5,540.32	5,465.63	74.70	74.171	
13,600.00	7,630.00	16,659.00	7,678.61	87.94	161.70	146.94	1,781.78	1,481.03	5,640.23	5,565.54	74.69	75.514	
13,700.00	7,630.00	16,659.00	7,678.61	89.53	161.70	146.94	1,781.78	1,481.03	5,740.14	5,665.45	74.69	76.856	
13,800.00	7,630.00	16,659.00	7,678.61	91.13	161.70	146.94	1,781.78	1,481.03	5,840.06	5,765.37	74.68	78.196	
13,900.00	7,630.00	16,659.00	7,678.61	92.74	161.70	146.94	1,781.78	1,481.03	5,939.97	5,865.29	74.68	79.534	
14,000.00	7,630.00	16,659.00	7,678.61	94.35	161.70	146.94	1,781.78	1,481.03	6,039.89	5,965.21	74.69	80.871	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	16,659.00	7,678.61	95.97	161.70	146.94	1,781.78	1,481.03	6,139.81	6,065.13	74.69	82.206	
14,200.00	7,630.00	16,659.00	7,678.61	97.60	161.70	146.94	1,781.78	1,481.03	6,239.74	6,165.05	74.69	83.539	
14,300.00	7,630.00	16,659.00	7,678.61	99.22	161.70	146.94	1,781.78	1,481.03	6,339.66	6,264.97	74.70	84.870	
14,400.00	7,630.00	16,659.00	7,678.61	100.85	161.70	146.94	1,781.78	1,481.03	6,439.59	6,364.89	74.71	86.199	
14,500.00	7,630.00	16,659.00	7,678.61	102.49	161.70	146.94	1,781.78	1,481.03	6,539.53	6,464.81	74.71	87.527	
14,600.00	7,630.00	16,659.00	7,678.61	104.13	161.70	146.94	1,781.78	1,481.03	6,639.46	6,564.73	74.72	88.852	
14,700.00	7,630.00	16,659.00	7,678.61	105.77	161.70	146.94	1,781.78	1,481.03	6,739.39	6,664.66	74.74	90.175	
14,800.00	7,630.00	16,659.00	7,678.61	107.42	161.70	146.94	1,781.78	1,481.03	6,839.33	6,764.58	74.75	91.497	
14,900.00	7,630.00	16,659.00	7,678.61	109.07	161.70	146.94	1,781.78	1,481.03	6,939.27	6,864.51	74.76	92.816	
15,000.00	7,630.00	16,659.00	7,678.61	110.72	161.70	146.94	1,781.78	1,481.03	7,039.21	6,964.43	74.78	94.133	
15,100.00	7,630.00	16,659.00	7,678.61	112.38	161.70	146.94	1,781.78	1,481.03	7,139.15	7,064.36	74.80	95.449	
15,200.00	7,630.00	16,659.00	7,678.61	114.04	161.70	146.94	1,781.78	1,481.03	7,239.10	7,164.28	74.81	96.762	
15,300.00	7,630.00	16,659.00	7,678.61	115.71	161.70	146.94	1,781.78	1,481.03	7,339.04	7,264.21	74.83	98.073	
15,400.00	7,630.00	16,659.00	7,678.61	117.37	161.70	146.94	1,781.78	1,481.03	7,438.99	7,364.14	74.85	99.381	
15,500.00	7,630.00	16,659.00	7,678.61	119.04	161.70	146.94	1,781.78	1,481.03	7,538.94	7,464.06	74.87	100.688	
15,600.00	7,630.00	16,659.00	7,678.61	120.71	161.70	146.94	1,781.78	1,481.03	7,638.89	7,563.99	74.90	101.992	
15,700.00	7,630.00	16,659.00	7,678.61	122.39	161.70	146.94	1,781.78	1,481.03	7,738.84	7,663.92	74.92	103.294	
15,800.00	7,630.00	16,659.00	7,678.61	124.06	161.70	146.94	1,781.78	1,481.03	7,838.79	7,763.85	74.94	104.594	
15,900.00	7,630.00	16,659.00	7,678.61	125.74	161.70	146.94	1,781.78	1,481.03	7,938.74	7,863.77	74.97	105.891	
16,000.00	7,630.00	16,659.00	7,678.61	127.42	161.70	146.94	1,781.78	1,481.03	8,038.70	7,963.70	75.00	107.187	
16,100.00	7,630.00	16,659.00	7,678.61	129.10	161.70	146.94	1,781.78	1,481.03	8,138.66	8,063.63	75.02	108.479	
16,200.00	7,630.00	16,659.00	7,678.61	130.79	161.70	146.94	1,781.78	1,481.03	8,238.61	8,163.56	75.05	109.770	
16,300.00	7,630.00	16,659.00	7,678.61	132.48	161.70	146.94	1,781.78	1,481.03	8,338.57	8,263.49	75.08	111.058	
16,400.00	7,630.00	16,659.00	7,678.61	134.17	161.70	146.94	1,781.78	1,481.03	8,438.53	8,363.41	75.11	112.343	
16,500.00	7,630.00	16,659.00	7,678.61	135.86	161.70	146.94	1,781.78	1,481.03	8,538.49	8,463.34	75.15	113.626	
16,600.00	7,630.00	16,659.00	7,678.61	137.55	161.70	146.94	1,781.78	1,481.03	8,638.45	8,563.27	75.18	114.907	
16,700.00	7,630.00	16,659.00	7,678.61	139.24	161.70	146.94	1,781.78	1,481.03	8,738.41	8,663.20	75.21	116.185	
16,800.00	7,630.00	16,659.00	7,678.61	140.94	161.70	146.94	1,781.78	1,481.03	8,838.37	8,763.13	75.25	117.461	
16,900.00	7,630.00	16,659.00	7,678.61	142.64	161.70	146.94	1,781.78	1,481.03	8,938.34	8,863.06	75.28	118.734	
17,000.00	7,630.00	16,659.00	7,678.61	144.34	161.70	146.94	1,781.78	1,481.03	9,038.30	8,962.98	75.32	120.004	
17,100.00	7,630.00	16,659.00	7,678.61	146.04	161.70	146.94	1,781.78	1,481.03	9,138.27	9,062.91	75.35	121.272	
17,200.00	7,630.00	16,659.00	7,678.61	147.74	161.70	146.94	1,781.78	1,481.03	9,238.23	9,162.84	75.39	122.538	
17,300.00	7,630.00	16,659.00	7,678.61	149.44	161.70	146.94	1,781.78	1,481.03	9,338.20	9,262.77	75.43	123.800	
17,400.00	7,630.00	16,659.00	7,678.61	151.15	161.70	146.94	1,781.78	1,481.03	9,438.17	9,362.70	75.47	125.060	
17,500.00	7,630.00	16,659.00	7,678.61	152.86	161.70	146.94	1,781.78	1,481.03	9,538.13	9,462.62	75.51	126.317	
17,600.00	7,630.00	16,659.00	7,678.61	154.56	161.70	146.94	1,781.78	1,481.03	9,638.10	9,562.55	75.55	127.572	
17,700.00	7,630.00	16,659.00	7,678.61	156.27	161.70	146.94	1,781.78	1,481.03	9,738.07	9,662.48	75.59	128.824	
17,800.00	7,630.00	16,659.00	7,678.61	157.98	161.70	146.94	1,781.78	1,481.03	9,838.04	9,762.41	75.63	130.073	
17,900.00	7,630.00	16,659.00	7,678.61	159.70	161.70	146.94	1,781.78	1,481.03	9,938.01	9,862.33	75.68	131.320	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	43.44	1,779.44	1,685.02	8,312.41				
100.00	100.00	16,530.00	7,789.95	0.13	159.85	43.44	1,779.44	1,685.02	8,216.91	8,139.23	77.68	105.775	
200.00	200.00	16,530.00	7,789.95	0.49	159.85	43.44	1,779.44	1,685.02	8,121.52	8,043.73	77.78	104.412	
300.00	300.00	16,530.00	7,789.95	0.85	159.85	43.44	1,779.44	1,685.02	8,026.24	7,948.34	77.90	103.036	
400.00	400.00	16,530.00	7,789.95	1.21	159.85	43.44	1,779.44	1,685.02	7,931.07	7,853.05	78.02	101.649	
500.00	500.00	16,530.00	7,789.95	1.57	159.85	43.44	1,779.44	1,685.02	7,836.02	7,757.86	78.17	100.249	
600.00	600.00	16,530.00	7,789.95	1.93	159.85	43.44	1,779.44	1,685.02	7,741.10	7,662.78	78.32	98.839	
700.00	700.00	16,530.00	7,789.95	2.29	159.85	43.44	1,779.44	1,685.02	7,646.31	7,567.82	78.49	97.419	
800.00	800.00	16,530.00	7,789.95	2.64	159.85	43.44	1,779.44	1,685.02	7,551.66	7,472.98	78.67	95.990	
900.00	900.00	16,530.00	7,789.95	3.00	159.85	43.44	1,779.44	1,685.02	7,457.14	7,378.27	78.87	94.554	
1,000.00	1,000.00	16,530.00	7,789.95	3.36	159.85	43.44	1,779.44	1,685.02	7,362.77	7,283.69	79.08	93.111	
1,100.00	1,100.00	16,530.00	7,789.95	3.72	159.85	43.44	1,779.44	1,685.02	7,268.54	7,189.25	79.30	91.663	
1,200.00	1,200.00	16,530.00	7,789.95	4.08	159.85	43.44	1,779.44	1,685.02	7,174.48	7,094.95	79.53	90.210	
1,300.00	1,300.00	16,530.00	7,789.95	4.44	159.85	43.44	1,779.44	1,685.02	7,080.58	7,000.80	79.78	88.754	
1,400.00	1,400.00	16,530.00	7,789.95	4.79	159.85	43.44	1,779.44	1,685.02	6,986.84	6,906.81	80.04	87.296	
1,500.00	1,499.98	16,530.00	7,789.95	5.15	159.85	6.21	1,779.44	1,685.02	6,892.69	6,812.38	80.31	85.828	
1,600.00	1,599.84	16,530.00	7,789.95	5.51	159.85	6.91	1,779.44	1,685.02	6,797.56	6,716.98	80.58	84.356	
1,700.00	1,699.45	16,530.00	7,789.95	5.87	159.85	7.79	1,779.44	1,685.02	6,701.55	6,620.70	80.84	82.894	
1,800.00	1,798.70	16,530.00	7,789.95	6.23	159.85	8.92	1,779.44	1,685.02	6,604.72	6,523.62	81.10	81.442	
1,900.00	1,897.47	16,530.00	7,789.95	6.60	159.85	10.41	1,779.44	1,685.02	6,507.17	6,425.83	81.34	80.003	
2,000.00	1,995.62	16,530.00	7,789.95	6.99	159.85	12.47	1,779.44	1,685.02	6,408.98	6,327.42	81.56	78.578	
2,100.00	2,093.06	16,530.00	7,789.95	7.39	159.85	15.48	1,779.44	1,685.02	6,310.25	6,228.47	81.77	77.168	
2,200.00	2,189.64	16,530.00	7,789.95	7.82	159.85	20.25	1,779.44	1,685.02	6,211.06	6,129.10	81.97	75.774	
2,300.00	2,285.27	16,530.00	7,789.95	8.28	159.85	28.78	1,779.44	1,685.02	6,111.54	6,029.39	82.15	74.398	
2,400.00	2,379.82	16,530.00	7,789.95	8.77	159.85	46.69	1,779.44	1,685.02	6,011.77	5,929.46	82.31	73.042	
2,500.00	2,473.17	16,530.00	7,789.95	9.31	159.85	85.53	1,779.44	1,685.02	5,911.88	5,829.43	82.45	71.705	
2,600.00	2,565.21	16,530.00	7,789.95	9.88	159.85	127.66	1,779.44	1,685.02	5,811.98	5,729.41	82.57	70.390	
2,660.67	2,620.37	16,530.00	7,789.95	10.25	159.85	142.00	1,779.44	1,685.02	5,751.42	5,668.78	82.63	69.603	
2,700.00	2,655.96	16,530.00	7,789.95	10.50	159.85	142.00	1,779.44	1,685.02	5,712.18	5,629.51	82.67	69.095	
2,800.00	2,746.43	16,530.00	7,789.95	11.15	159.85	142.00	1,779.44	1,685.02	5,612.42	5,529.64	82.78	67.803	
2,900.00	2,836.90	16,530.00	7,789.95	11.82	159.85	142.00	1,779.44	1,685.02	5,512.66	5,429.78	82.88	66.511	
3,000.00	2,927.37	16,530.00	7,789.95	12.50	159.85	142.00	1,779.44	1,685.02	5,412.92	5,329.92	83.00	65.218	
3,100.00	3,017.85	16,530.00	7,789.95	13.21	159.85	142.00	1,779.44	1,685.02	5,313.18	5,230.07	83.11	63.926	
3,200.00	3,108.32	16,530.00	7,789.95	13.92	159.85	142.00	1,779.44	1,685.02	5,213.46	5,130.22	83.24	62.634	
3,300.00	3,198.79	16,530.00	7,789.95	14.64	159.85	142.00	1,779.44	1,685.02	5,113.75	5,030.38	83.36	61.342	
3,400.00	3,289.27	16,530.00	7,789.95	15.38	159.85	142.00	1,779.44	1,685.02	5,014.04	4,930.55	83.50	60.051	
3,500.00	3,379.74	16,530.00	7,789.95	16.12	159.85	142.00	1,779.44	1,685.02	4,914.35	4,830.72	83.63	58.761	
3,600.00	3,470.21	16,530.00	7,789.95	16.87	159.85	142.00	1,779.44	1,685.02	4,814.68	4,730.90	83.77	57.472	
3,700.00	3,560.68	16,530.00	7,789.95	17.62	159.85	142.00	1,779.44	1,685.02	4,715.01	4,631.09	83.92	56.184	
3,800.00	3,651.16	16,530.00	7,789.95	18.39	159.85	142.00	1,779.44	1,685.02	4,615.37	4,531.29	84.07	54.898	
3,900.00	3,741.63	16,530.00	7,789.95	19.15	159.85	142.00	1,779.44	1,685.02	4,515.73	4,431.50	84.23	53.613	
4,000.00	3,832.10	16,530.00	7,789.95	19.92	159.85	142.00	1,779.44	1,685.02	4,416.12	4,331.72	84.39	52.329	
4,100.00	3,922.57	16,530.00	7,789.95	20.69	159.85	142.00	1,779.44	1,685.02	4,316.52	4,231.96	84.56	51.048	
4,200.00	4,013.05	16,530.00	7,789.95	21.47	159.85	142.00	1,779.44	1,685.02	4,216.94	4,132.21	84.73	49.768	
4,300.00	4,103.52	16,530.00	7,789.95	22.25	159.85	142.00	1,779.44	1,685.02	4,117.38	4,032.47	84.91	48.491	
4,400.00	4,193.99	16,530.00	7,789.95	23.03	159.85	142.00	1,779.44	1,685.02	4,017.84	3,932.74	85.10	47.215	
4,500.00	4,284.47	16,530.00	7,789.95	23.81	159.85	142.00	1,779.44	1,685.02	3,918.33	3,833.04	85.29	45.942	
4,600.00	4,374.94	16,530.00	7,789.95	24.60	159.85	142.00	1,779.44	1,685.02	3,818.84	3,733.35	85.49	44.672	
4,700.00	4,465.41	16,530.00	7,789.95	25.39	159.85	142.00	1,779.44	1,685.02	3,719.38	3,633.68	85.69	43.405	
4,800.00	4,555.88	16,530.00	7,789.95	26.18	159.85	142.00	1,779.44	1,685.02	3,619.94	3,534.04	85.90	42.140	
4,900.00	4,646.36	16,530.00	7,789.95	26.97	159.85	142.00	1,779.44	1,685.02	3,520.54	3,434.42	86.12	40.878	
5,000.00	4,736.83	16,530.00	7,789.95	27.76	159.85	142.00	1,779.44	1,685.02	3,421.18	3,334.83	86.35	39.620	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	16,530.00	7,789.95	28.55	159.85	142.00	1,779.44	1,685.02	3,321.85	3,235.27	86.59	38.364	
5,200.00	4,917.77	16,530.00	7,789.95	29.35	159.85	142.00	1,779.44	1,685.02	3,222.57	3,135.74	86.83	37.112	
5,300.00	5,008.25	16,530.00	7,789.95	30.15	159.85	142.00	1,779.44	1,685.02	3,123.33	3,036.24	87.09	35.864	
5,400.00	5,098.72	16,530.00	7,789.95	30.94	159.85	142.00	1,779.44	1,685.02	3,024.14	2,936.79	87.35	34.620	
5,500.00	5,189.19	16,530.00	7,789.95	31.74	159.85	142.00	1,779.44	1,685.02	2,925.01	2,837.38	87.63	33.379	
5,600.00	5,279.67	16,530.00	7,789.95	32.54	159.85	142.00	1,779.44	1,685.02	2,825.93	2,738.02	87.92	32.143	
5,700.00	5,370.14	16,530.00	7,789.95	33.34	159.85	142.00	1,779.44	1,685.02	2,726.93	2,638.71	88.22	30.910	
5,800.00	5,460.61	16,530.00	7,789.95	34.14	159.85	142.00	1,779.44	1,685.02	2,628.00	2,539.46	88.54	29.682	
5,900.00	5,551.08	16,530.00	7,789.95	34.94	159.85	142.00	1,779.44	1,685.02	2,529.15	2,440.29	88.87	28.459	
6,000.00	5,641.56	16,530.00	7,789.95	35.75	159.85	142.00	1,779.44	1,685.02	2,430.40	2,341.18	89.22	27.241	
6,100.00	5,732.03	16,530.00	7,789.95	36.55	159.85	142.00	1,779.44	1,685.02	2,331.76	2,242.17	89.59	26.027	
6,200.00	5,822.50	16,530.00	7,789.95	37.35	159.85	142.00	1,779.44	1,685.02	2,233.24	2,143.26	89.98	24.819	
6,300.00	5,912.97	16,530.00	7,789.95	38.16	159.85	142.00	1,779.44	1,685.02	2,134.85	2,044.45	90.40	23.617	
6,400.00	6,003.45	16,530.00	7,789.95	38.96	159.85	142.00	1,779.44	1,685.02	2,036.62	1,945.78	90.84	22.420	
6,500.00	6,093.92	16,530.00	7,789.95	39.77	159.85	142.00	1,779.44	1,685.02	1,938.57	1,847.26	91.31	21.230	
6,600.00	6,184.39	16,530.00	7,789.95	40.57	159.85	142.00	1,779.44	1,685.02	1,840.73	1,748.91	91.82	20.046	
6,700.00	6,274.87	16,530.00	7,789.95	41.38	159.85	142.00	1,779.44	1,685.02	1,743.14	1,650.77	92.38	18.870	
6,800.00	6,365.34	16,530.00	7,789.95	42.18	159.85	142.00	1,779.44	1,685.02	1,645.84	1,552.86	92.97	17.702	
6,900.00	6,455.81	16,530.00	7,789.95	42.99	159.85	142.00	1,779.44	1,685.02	1,548.88	1,455.25	93.63	16.543	
7,000.00	6,546.28	16,530.00	7,789.95	43.80	159.85	142.00	1,779.44	1,685.02	1,452.33	1,357.98	94.34	15.394	
7,100.00	6,636.76	16,530.00	7,789.95	44.61	159.85	142.00	1,779.44	1,685.02	1,356.28	1,261.14	95.14	14.256	
7,200.00	6,727.23	16,530.00	7,789.95	45.41	159.85	142.00	1,779.44	1,685.02	1,260.85	1,164.83	96.01	13.132	
7,300.00	6,817.70	16,530.00	7,789.95	46.22	159.85	142.00	1,779.44	1,685.02	1,166.18	1,069.19	96.99	12.023	
7,383.79	6,893.51	16,526.94	7,790.05	46.90	159.80	142.04	1,782.50	1,684.90	1,087.59	989.81	97.78	11.123	
7,400.00	6,908.25	16,521.40	7,790.23	47.03	159.70	139.97	1,788.03	1,684.67	1,072.36	974.62	97.74	10.971	
7,450.00	6,954.52	16,507.05	7,790.70	47.40	159.45	132.27	1,802.36	1,684.10	1,024.51	926.87	97.64	10.493	
7,500.00	7,001.74	16,496.92	7,791.03	47.72	159.27	122.72	1,812.48	1,683.69	975.58	878.02	97.56	9.999	
7,550.00	7,049.55	16,493.74	7,791.11	47.99	159.22	115.03	1,815.66	1,683.56	925.93	828.30	97.63	9.484	
7,600.00	7,097.58	16,491.84	7,791.18	48.21	159.19	-160.66	1,817.55	1,683.48	875.99	778.40	97.59	8.976	
7,650.00	7,145.48	16,495.01	7,791.06	48.37	159.24	-125.55	1,814.39	1,683.61	826.09	728.47	97.62	8.462	
7,700.00	7,192.88	16,499.68	7,790.94	48.48	159.32	-132.77	1,809.73	1,683.80	776.65	679.12	97.54	7.963	
7,750.00	7,239.41	16,511.16	7,790.57	48.54	159.52	-140.38	1,798.26	1,684.26	728.01	630.39	97.62	7.458	
7,800.00	7,284.72	16,526.82	7,790.06	48.56	159.79	-146.34	1,782.62	1,684.89	680.55	582.80	97.75	6.962	
7,850.00	7,328.47	16,530.00	7,789.95	48.54	159.85	-150.83	1,779.44	1,685.02	634.84	537.92	96.93	6.550	
7,900.00	7,370.32	16,530.00	7,789.95	48.47	159.85	-154.27	1,779.44	1,685.02	591.96	496.41	95.56	6.195	
7,950.00	7,409.96	16,530.00	7,789.95	48.37	159.85	-156.94	1,779.44	1,685.02	552.95	459.14	93.81	5.895	
8,000.00	7,447.08	16,530.00	7,789.95	48.24	159.85	-159.04	1,779.44	1,685.02	518.98	427.25	91.73	5.657	
8,050.00	7,481.41	16,530.00	7,789.95	48.07	159.85	-160.71	1,779.44	1,685.02	491.41	401.85	89.56	5.487	
8,100.00	7,512.67	16,530.00	7,789.95	47.87	159.85	-162.05	1,779.44	1,685.02	471.58	383.99	87.58	5.384	
8,150.00	7,540.64	16,530.00	7,789.95	47.65	159.85	-163.13	1,779.44	1,685.02	460.63	374.69	85.94	5.360	SF
8,181.77	7,556.59	16,530.00	7,789.95	47.49	159.85	-163.71	1,779.44	1,685.02	458.66	373.65	85.01	5.395	CC, ES
8,200.00	7,565.09	16,530.00	7,789.95	47.40	159.85	-164.02	1,779.44	1,685.02	459.31	374.83	84.48	5.437	
8,250.00	7,585.85	16,530.00	7,789.95	47.14	159.85	-164.74	1,779.44	1,685.02	467.69	384.70	82.99	5.636	
8,300.00	7,602.75	16,530.00	7,789.95	46.86	159.85	-165.34	1,779.44	1,685.02	485.22	403.80	81.42	5.959	
8,350.00	7,615.67	16,530.00	7,789.95	46.58	159.85	-165.84	1,779.44	1,685.02	510.83	430.95	79.87	6.395	
8,400.00	7,624.51	16,530.00	7,789.95	46.28	159.85	-166.27	1,779.44	1,685.02	543.19	464.72	78.47	6.922	
8,450.00	7,629.19	16,530.00	7,789.95	45.98	159.85	-166.66	1,779.44	1,685.02	580.97	503.68	77.29	7.517	
8,481.00	7,630.00	16,530.00	7,789.95	45.79	159.85	-166.91	1,779.44	1,685.02	606.55	529.87	76.68	7.910	
8,500.00	7,630.00	16,530.00	7,789.95	45.68	159.85	-166.91	1,779.44	1,685.02	622.75	546.40	76.35	8.157	
8,600.00	7,630.00	16,530.00	7,789.95	45.11	159.85	-166.91	1,779.44	1,685.02	710.28	635.43	74.86	9.489	
8,700.00	7,630.00	16,530.00	7,789.95	44.56	159.85	-166.91	1,779.44	1,685.02	800.75	726.98	73.77	10.855	
8,800.00	7,630.00	16,530.00	7,789.95	44.05	159.85	-166.91	1,779.44	1,685.02	893.25	820.26	72.99	12.239	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	16,530.00	7,789.95	43.57	159.85	-166.91	1,779.44	1,685.02	987.21	914.78	72.42	13.631	
9,000.00	7,630.00	16,530.00	7,789.95	43.12	159.85	-166.91	1,779.44	1,685.02	1,082.25	1,010.23	72.02	15.027	
9,100.00	7,630.00	16,530.00	7,789.95	42.70	159.85	-166.91	1,779.44	1,685.02	1,178.12	1,106.38	71.73	16.423	
9,200.00	7,630.00	16,530.00	7,789.95	42.31	159.85	-166.91	1,779.44	1,685.02	1,274.62	1,203.09	71.53	17.819	
9,300.00	7,630.00	16,530.00	7,789.95	41.94	159.85	-166.91	1,779.44	1,685.02	1,371.62	1,300.23	71.39	19.213	
9,400.00	7,630.00	16,530.00	7,789.95	41.59	159.85	-166.91	1,779.44	1,685.02	1,469.02	1,397.73	71.30	20.604	
9,500.00	7,630.00	16,530.00	7,789.95	41.26	159.85	-166.91	1,779.44	1,685.02	1,566.76	1,495.52	71.23	21.994	
9,600.00	7,630.00	16,530.00	7,789.95	40.96	159.85	-166.91	1,779.44	1,685.02	1,664.76	1,593.56	71.20	23.383	
9,700.00	7,630.00	16,530.00	7,789.95	40.68	159.85	-166.91	1,779.44	1,685.02	1,762.98	1,691.80	71.18	24.769	
9,800.00	7,630.00	16,530.00	7,789.95	40.42	159.85	-166.91	1,779.44	1,685.02	1,861.40	1,790.22	71.17	26.153	
9,900.00	7,630.00	16,530.00	7,789.95	40.17	159.85	-166.91	1,779.44	1,685.02	1,959.97	1,888.79	71.18	27.536	
10,000.00	7,630.00	16,530.00	7,789.95	39.96	159.85	-166.91	1,779.44	1,685.02	2,058.68	1,987.49	71.19	28.918	
10,100.00	7,630.00	16,530.00	7,789.95	40.05	159.85	-166.91	1,779.44	1,685.02	2,157.52	2,086.31	71.21	30.298	
10,200.00	7,630.00	16,530.00	7,789.95	40.95	159.85	-166.91	1,779.44	1,685.02	2,256.45	2,185.22	71.23	31.677	
10,300.00	7,630.00	16,530.00	7,789.95	41.94	159.85	-166.91	1,779.44	1,685.02	2,355.47	2,284.21	71.26	33.054	
10,400.00	7,630.00	16,530.00	7,789.95	42.98	159.85	-166.91	1,779.44	1,685.02	2,454.58	2,383.29	71.29	34.430	
10,500.00	7,630.00	16,530.00	7,789.95	44.06	159.85	-166.91	1,779.44	1,685.02	2,553.75	2,482.43	71.32	35.805	
10,600.00	7,630.00	16,530.00	7,789.95	45.17	159.85	-166.91	1,779.44	1,685.02	2,652.98	2,581.63	71.36	37.179	
10,700.00	7,630.00	16,530.00	7,789.95	46.32	159.85	-166.91	1,779.44	1,685.02	2,752.28	2,680.88	71.39	38.552	
10,800.00	7,630.00	16,530.00	7,789.95	47.50	159.85	-166.91	1,779.44	1,685.02	2,851.62	2,780.19	71.43	39.924	
10,900.00	7,630.00	16,530.00	7,789.95	48.70	159.85	-166.91	1,779.44	1,685.02	2,951.00	2,879.54	71.46	41.295	
11,000.00	7,630.00	16,530.00	7,789.95	49.94	159.85	-166.91	1,779.44	1,685.02	3,050.43	2,978.93	71.50	42.664	
11,100.00	7,630.00	16,530.00	7,789.95	51.20	159.85	-166.91	1,779.44	1,685.02	3,149.89	3,078.35	71.53	44.033	
11,200.00	7,630.00	16,530.00	7,789.95	52.48	159.85	-166.91	1,779.44	1,685.02	3,249.38	3,177.81	71.57	45.400	
11,300.00	7,630.00	16,530.00	7,789.95	53.79	159.85	-166.91	1,779.44	1,685.02	3,348.91	3,277.30	71.61	46.767	
11,400.00	7,630.00	16,530.00	7,789.95	55.12	159.85	-166.91	1,779.44	1,685.02	3,448.46	3,376.81	71.65	48.132	
11,500.00	7,630.00	16,530.00	7,789.95	56.46	159.85	-166.91	1,779.44	1,685.02	3,548.03	3,476.35	71.68	49.496	
11,600.00	7,630.00	16,530.00	7,789.95	57.83	159.85	-166.91	1,779.44	1,685.02	3,647.63	3,575.92	71.72	50.860	
11,700.00	7,630.00	16,530.00	7,789.95	59.22	159.85	-166.91	1,779.44	1,685.02	3,747.26	3,675.50	71.76	52.222	
11,800.00	7,630.00	16,530.00	7,789.95	60.62	159.85	-166.91	1,779.44	1,685.02	3,846.90	3,775.10	71.79	53.582	
11,900.00	7,630.00	16,530.00	7,789.95	62.04	159.85	-166.91	1,779.44	1,685.02	3,946.56	3,874.73	71.83	54.942	
12,000.00	7,630.00	16,530.00	7,789.95	63.48	159.85	-166.91	1,779.44	1,685.02	4,046.23	3,974.36	71.87	56.301	
12,100.00	7,630.00	16,530.00	7,789.95	64.93	159.85	-166.91	1,779.44	1,685.02	4,145.93	4,074.02	71.91	57.658	
12,200.00	7,630.00	16,530.00	7,789.95	66.39	159.85	-166.91	1,779.44	1,685.02	4,245.63	4,173.69	71.94	59.014	
12,300.00	7,630.00	16,530.00	7,789.95	67.86	159.85	-166.91	1,779.44	1,685.02	4,345.35	4,273.37	71.98	60.369	
12,400.00	7,630.00	16,530.00	7,789.95	69.35	159.85	-166.91	1,779.44	1,685.02	4,445.08	4,373.07	72.02	61.722	
12,500.00	7,630.00	16,530.00	7,789.95	70.85	159.85	-166.91	1,779.44	1,685.02	4,544.83	4,472.77	72.06	63.074	
12,600.00	7,630.00	16,530.00	7,789.95	72.36	159.85	-166.91	1,779.44	1,685.02	4,644.58	4,572.49	72.09	64.425	
12,700.00	7,630.00	16,530.00	7,789.95	73.88	159.85	-166.91	1,779.44	1,685.02	4,744.35	4,672.22	72.13	65.774	
12,800.00	7,630.00	16,530.00	7,789.95	75.41	159.85	-166.91	1,779.44	1,685.02	4,844.12	4,771.96	72.17	67.123	
12,900.00	7,630.00	16,530.00	7,789.95	76.95	159.85	-166.91	1,779.44	1,685.02	4,943.91	4,871.70	72.21	68.469	
13,000.00	7,630.00	16,530.00	7,789.95	78.49	159.85	-166.91	1,779.44	1,685.02	5,043.70	4,971.46	72.24	69.814	
13,100.00	7,630.00	16,530.00	7,789.95	80.05	159.85	-166.91	1,779.44	1,685.02	5,143.50	5,071.22	72.28	71.158	
13,200.00	7,630.00	16,530.00	7,789.95	81.61	159.85	-166.91	1,779.44	1,685.02	5,243.31	5,170.99	72.32	72.500	
13,300.00	7,630.00	16,530.00	7,789.95	83.18	159.85	-166.91	1,779.44	1,685.02	5,343.13	5,270.77	72.36	73.841	
13,400.00	7,630.00	16,530.00	7,789.95	84.76	159.85	-166.91	1,779.44	1,685.02	5,442.95	5,370.55	72.40	75.180	
13,500.00	7,630.00	16,530.00	7,789.95	86.34	159.85	-166.91	1,779.44	1,685.02	5,542.78	5,470.34	72.44	76.517	
13,600.00	7,630.00	16,530.00	7,789.95	87.94	159.85	-166.91	1,779.44	1,685.02	5,642.61	5,570.13	72.48	77.853	
13,700.00	7,630.00	16,530.00	7,789.95	89.53	159.85	-166.91	1,779.44	1,685.02	5,742.45	5,669.93	72.52	79.187	
13,800.00	7,630.00	16,530.00	7,789.95	91.13	159.85	-166.91	1,779.44	1,685.02	5,842.30	5,769.74	72.56	80.520	
13,900.00	7,630.00	16,530.00	7,789.95	92.74	159.85	-166.91	1,779.44	1,685.02	5,942.15	5,869.55	72.60	81.851	
14,000.00	7,630.00	16,530.00	7,789.95	94.35	159.85	-166.91	1,779.44	1,685.02	6,042.01	5,969.37	72.64	83.180	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 25-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	16,530.00	7,789.95	95.97	159.85	-166.91	1,779.44	1,685.02	6,141.87	6,069.19	72.68	84.507	
14,200.00	7,630.00	16,530.00	7,789.95	97.60	159.85	-166.91	1,779.44	1,685.02	6,241.73	6,169.01	72.72	85.833	
14,300.00	7,630.00	16,530.00	7,789.95	99.22	159.85	-166.91	1,779.44	1,685.02	6,341.60	6,268.84	72.76	87.156	
14,400.00	7,630.00	16,530.00	7,789.95	100.85	159.85	-166.91	1,779.44	1,685.02	6,441.47	6,368.67	72.80	88.478	
14,500.00	7,630.00	16,530.00	7,789.95	102.49	159.85	-166.91	1,779.44	1,685.02	6,541.35	6,468.51	72.85	89.798	
14,600.00	7,630.00	16,530.00	7,789.95	104.13	159.85	-166.91	1,779.44	1,685.02	6,641.23	6,568.35	72.89	91.116	
14,700.00	7,630.00	16,530.00	7,789.95	105.77	159.85	-166.91	1,779.44	1,685.02	6,741.12	6,668.19	72.93	92.432	
14,800.00	7,630.00	16,530.00	7,789.95	107.42	159.85	-166.91	1,779.44	1,685.02	6,841.01	6,768.03	72.97	93.746	
14,900.00	7,630.00	16,530.00	7,789.95	109.07	159.85	-166.91	1,779.44	1,685.02	6,940.90	6,867.88	73.02	95.059	
15,000.00	7,630.00	16,530.00	7,789.95	110.72	159.85	-166.91	1,779.44	1,685.02	7,040.79	6,967.73	73.06	96.369	
15,100.00	7,630.00	16,530.00	7,789.95	112.38	159.85	-166.91	1,779.44	1,685.02	7,140.69	7,067.58	73.11	97.677	
15,200.00	7,630.00	16,530.00	7,789.95	114.04	159.85	-166.91	1,779.44	1,685.02	7,240.59	7,167.44	73.15	98.983	
15,300.00	7,630.00	16,530.00	7,789.95	115.71	159.85	-166.91	1,779.44	1,685.02	7,340.49	7,267.30	73.20	100.287	
15,400.00	7,630.00	16,530.00	7,789.95	117.37	159.85	-166.91	1,779.44	1,685.02	7,440.40	7,367.16	73.24	101.589	
15,500.00	7,630.00	16,530.00	7,789.95	119.04	159.85	-166.91	1,779.44	1,685.02	7,540.30	7,467.02	73.29	102.888	
15,600.00	7,630.00	16,530.00	7,789.95	120.71	159.85	-166.91	1,779.44	1,685.02	7,640.22	7,566.88	73.33	104.186	
15,700.00	7,630.00	16,530.00	7,789.95	122.39	159.85	-166.91	1,779.44	1,685.02	7,740.13	7,666.75	73.38	105.481	
15,800.00	7,630.00	16,530.00	7,789.95	124.06	159.85	-166.91	1,779.44	1,685.02	7,840.04	7,766.62	73.43	106.774	
15,900.00	7,630.00	16,530.00	7,789.95	125.74	159.85	-166.91	1,779.44	1,685.02	7,939.96	7,866.49	73.47	108.065	
16,000.00	7,630.00	16,530.00	7,789.95	127.42	159.85	-166.91	1,779.44	1,685.02	8,039.88	7,966.36	73.52	109.353	
16,100.00	7,630.00	16,530.00	7,789.95	129.10	159.85	-166.91	1,779.44	1,685.02	8,139.80	8,066.23	73.57	110.640	
16,200.00	7,630.00	16,530.00	7,789.95	130.79	159.85	-166.91	1,779.44	1,685.02	8,239.72	8,166.10	73.62	111.923	
16,300.00	7,630.00	16,530.00	7,789.95	132.48	159.85	-166.91	1,779.44	1,685.02	8,339.65	8,265.98	73.67	113.205	
16,400.00	7,630.00	16,530.00	7,789.95	134.17	159.85	-166.91	1,779.44	1,685.02	8,439.57	8,365.86	73.72	114.484	
16,500.00	7,630.00	16,530.00	7,789.95	135.86	159.85	-166.91	1,779.44	1,685.02	8,539.50	8,465.73	73.77	115.761	
16,600.00	7,630.00	16,530.00	7,789.95	137.55	159.85	-166.91	1,779.44	1,685.02	8,639.43	8,565.61	73.82	117.035	
16,700.00	7,630.00	16,530.00	7,789.95	139.24	159.85	-166.91	1,779.44	1,685.02	8,739.36	8,665.49	73.87	118.307	
16,800.00	7,630.00	16,530.00	7,789.95	140.94	159.85	-166.91	1,779.44	1,685.02	8,839.30	8,765.38	73.92	119.577	
16,900.00	7,630.00	16,530.00	7,789.95	142.64	159.85	-166.91	1,779.44	1,685.02	8,939.23	8,865.26	73.97	120.844	
17,000.00	7,630.00	16,530.00	7,789.95	144.34	159.85	-166.91	1,779.44	1,685.02	9,039.17	8,965.14	74.03	122.108	
17,100.00	7,630.00	16,530.00	7,789.95	146.04	159.85	-166.91	1,779.44	1,685.02	9,139.11	9,065.03	74.08	123.370	
17,200.00	7,630.00	16,530.00	7,789.95	147.74	159.85	-166.91	1,779.44	1,685.02	9,239.04	9,164.91	74.13	124.630	
17,300.00	7,630.00	16,530.00	7,789.95	149.44	159.85	-166.91	1,779.44	1,685.02	9,338.98	9,264.80	74.19	125.887	
17,400.00	7,630.00	16,530.00	7,789.95	151.15	159.85	-166.91	1,779.44	1,685.02	9,438.93	9,364.69	74.24	127.141	
17,500.00	7,630.00	16,530.00	7,789.95	152.86	159.85	-166.91	1,779.44	1,685.02	9,538.87	9,464.57	74.29	128.392	
17,600.00	7,630.00	16,530.00	7,789.95	154.56	159.85	-166.91	1,779.44	1,685.02	9,638.81	9,564.46	74.35	129.641	
17,700.00	7,630.00	16,530.00	7,789.95	156.27	159.85	-166.91	1,779.44	1,685.02	9,738.76	9,664.35	74.41	130.888	
17,800.00	7,630.00	16,530.00	7,789.95	157.98	159.85	-166.91	1,779.44	1,685.02	9,838.70	9,764.24	74.46	132.132	
17,900.00	7,630.00	16,530.00	7,789.95	159.70	159.85	-166.91	1,779.44	1,685.02	9,938.65	9,864.13	74.52	133.373	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-52.92	786.52	-1,040.74	1,304.57				
100.00	100.00	83.88	83.88	0.13	0.13	-52.92	786.55	-1,040.88	1,304.65	1,304.38	0.27	4,898.984	
200.00	200.00	179.20	179.20	0.49	0.28	-52.93	786.65	-1,041.39	1,305.14	1,304.37	0.77	1,685.498	ES
300.00	300.00	276.40	276.40	0.85	0.62	-52.95	786.89	-1,042.17	1,305.93	1,304.46	1.47	887.461	
400.00	400.00	374.71	374.70	1.21	0.97	-52.95	787.32	-1,043.06	1,306.92	1,304.73	2.18	598.890	
500.00	500.00	480.45	480.43	1.57	1.35	-52.96	787.69	-1,043.84	1,307.71	1,304.80	2.92	447.919	
600.00	600.00	561.44	561.42	1.93	1.64	-52.97	788.01	-1,044.50	1,308.68	1,305.12	3.57	366.724	
700.00	700.00	616.17	616.11	2.29	1.84	-52.97	789.16	-1,046.00	1,312.27	1,308.15	4.12	318.220	
800.00	800.00	666.87	666.66	2.64	2.03	-52.93	792.12	-1,048.54	1,319.70	1,315.04	4.66	283.238	
900.00	900.00	728.44	727.84	3.00	2.26	-52.83	797.88	-1,052.37	1,330.32	1,325.09	5.23	254.394	
1,000.00	1,000.00	803.28	801.92	3.36	2.54	-52.65	807.06	-1,057.69	1,343.38	1,337.54	5.85	229.685	
1,100.00	1,100.00	886.57	884.19	3.72	2.86	-52.45	818.21	-1,064.34	1,357.88	1,351.38	6.50	208.928	
1,200.00	1,200.00	973.76	970.17	4.08	3.22	-52.22	830.66	-1,071.73	1,373.33	1,366.17	7.17	191.577	
1,300.00	1,300.00	1,083.32	1,078.11	4.44	3.68	-51.91	847.05	-1,080.81	1,389.13	1,381.20	7.93	175.080	
1,400.00	1,400.00	1,187.26	1,180.59	4.79	4.12	-51.58	862.92	-1,087.89	1,403.98	1,395.29	8.68	161.716	
1,500.00	1,499.98	1,289.88	1,281.86	5.15	4.56	-88.87	877.90	-1,095.10	1,418.58	1,409.15	9.42	150.535	
1,600.00	1,599.84	1,405.59	1,396.12	5.51	5.05	-88.53	894.17	-1,103.41	1,432.98	1,422.76	10.22	140.201	
1,700.00	1,699.45	1,527.86	1,517.23	5.87	5.56	-88.39	909.66	-1,109.81	1,444.71	1,433.66	11.05	130.764	
1,800.00	1,798.70	1,626.38	1,614.84	6.23	5.97	-88.37	922.08	-1,114.74	1,456.26	1,444.47	11.78	123.599	
1,900.00	1,897.47	1,720.36	1,708.01	6.60	6.36	-88.53	932.98	-1,120.40	1,467.91	1,455.40	12.51	117.384	
2,000.00	1,995.62	1,815.69	1,802.57	6.99	6.75	-88.87	942.78	-1,127.48	1,479.88	1,466.63	13.25	111.726	
2,100.00	2,093.06	1,924.49	1,910.51	7.39	7.20	-89.40	954.35	-1,134.67	1,491.52	1,477.45	14.07	106.044	
2,200.00	2,189.64	2,022.39	2,007.60	7.82	7.60	-89.94	965.55	-1,140.50	1,503.37	1,488.50	14.87	101.124	
2,300.00	2,285.27	2,131.36	2,115.70	8.28	8.05	-90.67	978.14	-1,145.71	1,514.64	1,498.90	15.75	96.184	
2,400.00	2,379.82	2,221.23	2,204.85	8.77	8.42	-91.31	988.83	-1,149.74	1,526.33	1,509.75	16.58	92.042	
2,500.00	2,473.17	2,314.73	2,297.56	9.31	8.80	-92.09	999.99	-1,154.37	1,538.97	1,521.50	17.47	88.074	
2,600.00	2,565.21	2,408.62	2,390.74	9.88	9.19	-92.99	1,010.43	-1,159.40	1,552.26	1,533.85	18.41	84.328	
2,660.67	2,620.37	2,465.83	2,447.51	10.25	9.42	-93.57	1,016.77	-1,162.48	1,560.78	1,541.78	19.00	82.159	
2,700.00	2,655.96	2,503.26	2,484.64	10.50	9.57	-94.07	1,021.09	-1,164.35	1,566.45	1,547.06	19.39	80.796	
2,800.00	2,746.43	2,603.81	2,584.41	11.15	9.99	-95.39	1,032.62	-1,169.09	1,581.16	1,560.74	20.42	77.419	
2,900.00	2,836.90	2,703.18	2,683.11	11.82	10.39	-96.69	1,043.33	-1,173.57	1,596.17	1,574.70	21.47	74.346	
3,000.00	2,927.37	2,797.50	2,776.75	12.50	10.77	-97.88	1,053.97	-1,177.31	1,611.74	1,589.23	22.51	71.608	
3,100.00	3,017.85	2,896.01	2,874.54	13.21	11.17	-99.09	1,065.21	-1,180.97	1,627.89	1,604.31	23.58	69.048	
3,200.00	3,108.32	2,984.36	2,962.35	13.92	11.52	-100.19	1,074.36	-1,184.31	1,644.38	1,619.77	24.60	66.838	
3,300.00	3,198.79	3,053.01	3,030.56	14.64	11.80	-101.04	1,081.47	-1,187.69	1,662.56	1,637.02	25.54	65.102	
3,400.00	3,289.27	3,115.00	3,092.01	15.38	12.05	-101.79	1,088.55	-1,191.58	1,682.96	1,656.52	26.44	63.662	
3,500.00	3,379.74	3,200.54	3,176.68	16.12	12.42	-102.78	1,099.12	-1,197.73	1,705.12	1,677.67	27.46	62.106	
3,600.00	3,470.21	3,314.09	3,289.18	16.87	12.89	-104.10	1,112.36	-1,205.60	1,727.49	1,698.87	28.62	60.358	
3,700.00	3,560.68	3,428.73	3,402.99	17.62	13.36	-105.42	1,124.15	-1,212.61	1,749.36	1,719.57	29.78	58.742	
3,800.00	3,651.16	3,530.31	3,503.93	18.39	13.77	-106.56	1,134.43	-1,217.39	1,770.51	1,739.64	30.87	57.349	
3,900.00	3,741.63	3,607.00	3,580.06	19.15	14.08	-107.37	1,142.97	-1,221.10	1,792.69	1,760.85	31.84	56.303	
4,000.00	3,832.10	3,684.10	3,656.48	19.92	14.40	-108.17	1,152.20	-1,225.44	1,816.33	1,783.52	32.81	55.366	
4,100.00	3,922.57	3,781.55	3,753.08	20.69	14.80	-109.16	1,163.53	-1,231.39	1,840.83	1,806.95	33.88	54.341	
4,200.00	4,013.05	3,887.45	3,858.27	21.47	15.23	-110.25	1,174.31	-1,237.27	1,864.97	1,829.99	34.98	53.317	
4,300.00	4,103.52	3,972.28	3,942.54	22.25	15.58	-111.10	1,182.90	-1,241.94	1,889.61	1,853.65	35.96	52.542	
4,400.00	4,193.99	4,097.65	4,067.09	23.03	16.08	-112.34	1,195.38	-1,248.68	1,914.75	1,877.60	37.16	51.531	
4,500.00	4,284.47	4,198.02	4,167.09	23.81	16.46	-113.35	1,203.05	-1,252.89	1,938.74	1,900.54	38.20	50.758	
4,600.00	4,374.94	4,271.24	4,239.97	24.60	16.75	-114.07	1,209.08	-1,256.14	1,963.57	1,924.48	39.09	50.228	
4,700.00	4,465.41	4,348.02	4,316.31	25.39	17.05	-114.78	1,216.33	-1,260.03	1,989.65	1,949.65	40.00	49.735	
4,800.00	4,555.88	4,431.73	4,399.50	26.18	17.39	-115.54	1,224.41	-1,264.78	2,016.74	1,975.79	40.95	49.249	
4,900.00	4,646.36	4,516.78	4,483.96	26.97	17.73	-116.28	1,233.02	-1,269.77	2,044.50	2,002.61	41.90	48.798	
5,000.00	4,736.83	4,599.62	4,566.20	27.76	18.07	-116.99	1,241.49	-1,274.98	2,073.04	2,030.22	42.83	48.405	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,827.30	4,696.21	4,662.04	28.55	18.47	-117.78	1,251.81	-1,281.26	2,102.22	2,058.38	43.84	47.954	
5,200.00	4,917.77	4,823.68	4,788.37	29.35	19.00	-118.74	1,267.42	-1,287.85	2,130.65	2,085.60	45.05	47.299	
5,300.00	5,008.25	4,918.03	4,881.77	30.15	19.40	-119.39	1,280.20	-1,291.71	2,158.49	2,112.43	46.06	46.862	
5,400.00	5,098.72	4,993.25	4,956.20	30.94	19.71	-119.89	1,290.56	-1,295.10	2,187.00	2,140.05	46.96	46.576	
5,500.00	5,189.19	5,096.00	5,057.84	31.74	20.15	-120.56	1,304.74	-1,300.17	2,216.17	2,168.15	48.02	46.154	
5,600.00	5,279.67	5,198.99	5,160.02	32.54	20.57	-121.27	1,316.76	-1,304.69	2,244.93	2,195.88	49.06	45.763	
5,700.00	5,370.14	5,290.67	5,251.07	33.34	20.94	-121.91	1,326.74	-1,308.60	2,273.81	2,223.80	50.01	45.464	
5,800.00	5,460.61	5,383.98	5,343.72	34.14	21.32	-122.53	1,337.12	-1,312.52	2,302.91	2,251.93	50.98	45.174	
5,900.00	5,551.08	5,464.84	5,423.92	34.94	21.66	-123.05	1,346.79	-1,316.11	2,332.52	2,280.65	51.87	44.968	
6,000.00	5,641.56	5,536.43	5,494.83	35.75	21.96	-123.48	1,355.88	-1,319.78	2,363.00	2,310.30	52.70	44.836	
6,100.00	5,732.03	5,633.22	5,590.72	36.55	22.36	-124.06	1,367.96	-1,325.19	2,394.12	2,340.43	53.69	44.589	
6,200.00	5,822.50	5,720.35	5,677.16	37.35	22.72	-124.59	1,377.75	-1,329.95	2,425.34	2,370.73	54.60	44.417	
6,300.00	5,912.97	5,780.98	5,737.32	38.16	22.97	-124.96	1,384.36	-1,333.67	2,457.43	2,402.10	55.33	44.411	
6,400.00	6,003.45	5,850.31	5,805.93	38.96	23.27	-125.35	1,392.79	-1,338.92	2,490.94	2,434.83	56.12	44.388	
6,500.00	6,093.92	5,960.60	5,915.07	39.77	23.73	-125.96	1,406.29	-1,347.26	2,524.71	2,467.52	57.19	44.146	
6,600.00	6,184.39	6,062.88	6,016.53	40.57	24.16	-126.54	1,417.32	-1,354.06	2,557.84	2,499.65	58.19	43.959	
6,700.00	6,274.87	6,140.71	6,093.75	41.38	24.48	-126.98	1,425.46	-1,359.33	2,591.30	2,532.29	59.01	43.914	
6,800.00	6,365.34	6,215.81	6,168.21	42.18	24.79	-127.39	1,433.44	-1,364.92	2,625.56	2,565.75	59.81	43.900	
6,900.00	6,455.81	6,306.35	6,257.90	42.99	25.17	-127.86	1,443.48	-1,372.11	2,660.42	2,599.71	60.72	43.816	
7,000.00	6,546.28	6,423.99	6,374.58	43.80	25.65	-128.48	1,455.82	-1,380.67	2,694.90	2,633.09	61.81	43.601	
7,100.00	6,636.76	6,553.52	6,503.18	44.61	26.18	-129.14	1,469.12	-1,388.64	2,728.56	2,665.59	62.97	43.333	
7,200.00	6,727.23	6,678.32	6,627.17	45.41	26.68	-129.76	1,482.18	-1,394.20	2,760.68	2,696.60	64.08	43.079	
7,300.00	6,817.70	6,760.33	6,708.81	46.22	27.00	-130.20	1,489.12	-1,397.59	2,792.96	2,728.06	64.90	43.035	
7,383.79	6,893.51	6,827.03	6,775.22	46.90	27.26	-130.55	1,494.53	-1,400.60	2,820.46	2,754.89	65.56	43.019	
7,400.00	6,908.25	6,840.22	6,788.36	47.03	27.31	-133.53	1,495.60	-1,401.22	2,825.82	2,760.13	65.69	43.016	
7,450.00	6,954.52	6,881.40	6,829.35	47.40	27.47	-144.40	1,498.93	-1,403.21	2,842.38	2,776.31	66.07	43.020	
7,500.00	7,001.74	6,930.65	6,878.40	47.72	27.65	-158.36	1,502.70	-1,405.60	2,858.81	2,792.34	66.47	43.011	
7,550.00	7,049.55	6,981.90	6,929.49	47.99	27.85	-175.51	1,505.98	-1,407.95	2,874.85	2,808.01	66.84	43.012	
7,600.00	7,097.58	7,028.74	6,976.21	48.21	28.02	165.71	1,508.54	-1,410.03	2,890.42	2,823.28	67.14	43.048	
7,650.00	7,145.48	7,075.61	7,022.99	48.37	28.19	148.20	1,510.78	-1,412.07	2,905.46	2,838.04	67.42	43.095	
7,700.00	7,192.88	7,114.20	7,061.52	48.48	28.32	133.93	1,511.86	-1,413.73	2,919.94	2,852.33	67.61	43.191	
7,750.00	7,239.41	7,153.60	7,100.89	48.54	28.45	123.08	1,512.00	-1,415.41	2,933.82	2,866.05	67.77	43.289	
7,800.00	7,284.72	7,157.00	7,104.28	48.56	28.46	114.67	1,511.97	-1,415.55	2,947.29	2,879.58	67.72	43.523	
7,850.00	7,328.47	7,184.51	7,131.74	48.54	28.53	108.40	1,511.11	-1,416.94	2,960.22	2,892.46	67.76	43.688	
7,900.00	7,370.32	7,198.42	7,145.59	48.47	28.57	103.39	1,510.24	-1,417.79	2,972.79	2,905.08	67.71	43.904	
7,950.00	7,409.96	7,211.94	7,159.04	48.37	28.61	99.37	1,509.12	-1,418.73	2,984.86	2,917.22	67.65	44.124	
8,000.00	7,447.08	7,246.00	7,192.74	48.24	28.70	96.35	1,505.10	-1,421.55	2,996.58	2,928.91	67.67	44.281	
8,050.00	7,481.41	7,246.00	7,192.74	48.07	28.70	93.50	1,505.10	-1,421.55	3,007.27	2,939.75	67.52	44.538	
8,100.00	7,512.67	7,246.00	7,192.74	47.87	28.70	91.10	1,505.10	-1,421.55	3,017.43	2,950.07	67.36	44.793	
8,150.00	7,540.64	7,246.00	7,192.74	47.65	28.70	89.05	1,505.10	-1,421.55	3,027.00	2,959.80	67.20	45.043	
8,200.00	7,565.09	7,275.85	7,222.04	47.40	28.76	87.78	1,500.25	-1,424.49	3,035.55	2,968.38	67.18	45.188	
8,250.00	7,585.85	7,287.45	7,233.36	47.14	28.79	86.52	1,498.05	-1,425.74	3,043.43	2,976.35	67.07	45.375	
8,300.00	7,602.75	7,298.15	7,243.77	46.86	28.81	85.50	1,495.87	-1,426.95	3,050.47	2,983.49	66.97	45.547	
8,350.00	7,615.67	7,307.86	7,253.18	46.58	28.83	84.70	1,493.77	-1,428.08	3,056.66	2,989.78	66.88	45.704	
8,400.00	7,624.51	7,335.00	7,279.30	46.28	28.89	84.42	1,487.24	-1,431.47	3,062.12	2,995.25	66.87	45.794	
8,450.00	7,629.19	7,335.00	7,279.30	45.98	28.89	83.88	1,487.24	-1,431.47	3,066.50	2,999.74	66.76	45.934	
8,481.00	7,630.00	7,335.00	7,279.30	45.79	28.89	83.65	1,487.24	-1,431.47	3,068.80	3,002.10	66.70	46.011	
8,500.00	7,630.00	7,335.00	7,279.30	45.68	28.89	83.65	1,487.24	-1,431.47	3,070.17	3,003.51	66.66	46.057	
8,600.00	7,630.00	7,354.94	7,298.37	45.11	28.92	84.01	1,482.01	-1,434.06	3,079.25	3,012.69	66.56	46.263	
8,700.00	7,630.00	7,958.26	7,784.20	44.56	29.19	93.09	1,157.31	-1,469.56	3,085.80	3,019.17	66.62	46.317	
8,800.00	7,630.00	8,186.77	7,885.08	44.05	29.16	94.96	953.10	-1,468.26	3,089.25	3,023.02	66.23	46.647	
8,857.32	7,630.00	8,242.53	7,899.73	43.78	29.20	95.23	899.32	-1,467.05	3,089.16	3,022.95	66.21	46.658	

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

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

Offset Site Error: 0.00 usft

Survey Program: 184-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			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
8,900.00	7,630.00	8,272.51	7,906.18	43.57	29.23	95.35	870.05	-1,466.61	3,089.25	3,023.03	66.22	46.651	
9,000.00	7,630.00	8,399.60	7,923.68	43.12	29.50	95.68	744.26	-1,465.91	3,089.81	3,023.48	66.33	46.582	
9,100.00	7,630.00	9,100.00	7,928.14	42.70	33.68	95.76	605.82	-1,464.99	3,089.26	3,020.20	69.06	44.733	
9,200.00	7,630.00	8,653.53	7,928.71	42.31	30.63	95.78	490.48	-1,462.62	3,086.86	3,019.63	67.24	45.909	
9,300.00	7,630.00	8,701.79	7,928.25	41.94	30.93	95.77	442.21	-1,462.12	3,085.49	3,017.73	67.76	45.539	
9,324.83	7,630.00	8,712.22	7,928.10	41.85	30.99	95.77	431.79	-1,462.15	3,085.43	3,017.53	67.90	45.443	
9,400.00	7,630.00	8,760.00	7,927.22	41.59	31.29	95.75	384.02	-1,462.91	3,086.06	3,017.68	68.38	45.132	
9,500.00	7,630.00	8,790.22	7,926.75	41.26	31.51	95.74	353.83	-1,463.86	3,088.27	3,019.31	68.96	44.783	
9,600.00	7,630.00	8,849.00	7,926.88	40.96	31.92	95.74	295.10	-1,466.49	3,092.26	3,022.53	69.73	44.345	
9,700.00	7,630.00	9,065.97	7,936.44	40.68	33.73	95.91	78.46	-1,471.88	3,094.85	3,023.12	71.73	43.144	
9,800.00	7,630.00	9,177.71	7,939.73	40.42	34.78	95.97	-33.23	-1,472.48	3,095.35	3,022.11	73.24	42.261	
9,900.00	7,630.00	9,294.58	7,941.72	40.17	35.95	96.00	-150.08	-1,472.76	3,095.43	3,020.48	74.95	41.300	
10,000.00	7,630.00	9,414.32	7,943.73	39.96	37.24	96.04	-269.80	-1,472.24	3,094.83	3,017.97	76.85	40.270	
10,100.00	7,630.00	9,522.80	7,945.75	40.05	38.47	96.08	-378.27	-1,471.34	3,093.87	3,015.09	78.78	39.273	
10,200.00	7,630.00	9,628.69	7,947.31	40.95	39.72	96.11	-484.13	-1,470.19	3,092.60	3,011.81	80.79	38.278	
10,300.00	7,630.00	10,300.00	7,948.01	41.94	47.96	96.13	-598.11	-1,468.57	3,090.90	3,001.10	89.81	34.418	
10,400.00	7,630.00	9,802.28	7,948.11	42.98	41.86	96.13	-657.71	-1,467.97	3,089.66	3,005.01	84.65	36.500	
10,441.06	7,630.00	9,829.00	7,948.24	43.42	42.20	96.14	-684.42	-1,468.02	3,089.61	3,004.24	85.37	36.193	
10,500.00	7,630.00	9,874.81	7,948.63	44.06	42.79	96.14	-730.24	-1,468.30	3,089.80	3,003.30	86.50	35.721	
10,600.00	7,630.00	9,972.79	7,949.97	45.17	44.07	96.17	-828.20	-1,468.99	3,090.31	3,001.55	88.75	34.819	
10,700.00	7,630.00	10,088.56	7,950.56	46.32	45.61	96.18	-943.96	-1,469.65	3,090.60	2,999.27	91.33	33.838	
10,721.24	7,630.00	10,114.38	7,950.56	46.57	45.96	96.18	-969.79	-1,469.72	3,090.58	2,998.67	91.91	33.625	
10,800.00	7,630.00	10,183.44	7,949.70	47.50	46.91	96.16	-1,038.84	-1,470.10	3,090.64	2,996.94	93.69	32.986	
10,900.00	7,630.00	10,264.26	7,948.78	48.70	48.03	96.14	-1,119.65	-1,470.84	3,091.09	2,995.19	95.90	32.231	
11,000.00	7,630.00	10,373.11	7,948.80	49.94	49.57	96.14	-1,228.49	-1,471.95	3,091.78	2,993.19	98.59	31.359	
11,100.00	7,630.00	10,487.20	7,947.99	51.20	51.21	96.13	-1,342.58	-1,472.69	3,092.00	2,990.57	101.43	30.483	
11,200.00	7,630.00	10,594.74	7,947.42	52.48	52.78	96.12	-1,450.12	-1,473.00	3,091.90	2,987.67	104.23	29.665	
11,300.00	7,630.00	10,707.69	7,947.89	53.79	54.45	96.13	-1,563.06	-1,472.88	3,091.51	2,984.34	107.17	28.848	
11,400.00	7,630.00	10,834.30	7,951.27	55.12	56.35	96.19	-1,689.61	-1,471.34	3,090.20	2,979.80	110.39	27.993	
11,500.00	7,630.00	10,916.90	7,952.13	56.46	57.61	96.21	-1,772.20	-1,470.63	3,089.09	2,976.17	112.92	27.356	
11,600.00	7,630.00	11,059.63	7,951.35	57.83	59.80	96.20	-1,914.92	-1,468.94	3,087.55	2,971.04	116.51	26.500	
11,700.00	7,630.00	11,135.18	7,950.82	59.22	60.97	96.19	-1,990.46	-1,467.65	3,085.48	2,966.49	118.99	25.930	
11,800.00	7,630.00	11,276.77	7,953.46	60.62	63.18	96.25	-2,131.98	-1,464.69	3,083.26	2,960.61	122.65	25.138	
11,900.00	7,630.00	11,344.00	7,954.85	62.04	64.24	96.28	-2,199.19	-1,463.57	3,081.31	2,956.26	125.05	24.641	
12,000.00	7,630.00	11,429.61	7,955.85	63.48	65.59	96.30	-2,284.79	-1,462.89	3,080.23	2,952.45	127.78	24.106	
12,100.00	7,630.00	11,548.13	7,956.87	64.93	67.47	96.32	-2,403.29	-1,460.86	3,078.23	2,947.10	131.13	23.474	
12,200.00	7,630.00	11,613.63	7,958.41	66.39	68.52	96.35	-2,468.76	-1,460.02	3,076.86	2,943.32	133.54	23.040	
12,300.00	7,630.00	11,755.38	7,960.27	67.86	70.80	96.39	-2,610.48	-1,458.25	3,075.46	2,938.09	137.37	22.388	
12,400.00	7,630.00	11,871.18	7,958.69	69.35	72.67	96.37	-2,726.24	-1,455.83	3,072.87	2,932.12	140.75	21.832	
12,500.00	7,630.00	11,945.64	7,956.17	70.85	73.88	96.32	-2,800.65	-1,454.61	3,070.56	2,927.16	143.40	21.413	
12,600.00	7,630.00	11,997.97	7,954.18	72.36	74.73	96.29	-2,852.94	-1,454.34	3,069.37	2,923.75	145.62	21.078	
12,616.82	7,630.00	12,005.28	7,953.92	72.62	74.85	96.28	-2,860.24	-1,454.38	3,069.35	2,923.38	145.96	21.028	
12,700.00	7,630.00	12,057.00	7,952.25	73.88	75.69	96.25	-2,911.93	-1,455.31	3,070.07	2,922.12	147.95	20.751	
12,800.00	7,630.00	12,110.17	7,950.67	75.41	76.55	96.22	-2,965.05	-1,456.93	3,072.17	2,922.02	150.15	20.461	
12,900.00	7,630.00	12,186.56	7,948.55	76.95	77.79	96.17	-3,041.36	-1,459.63	3,075.06	2,922.25	152.81	20.124	
13,000.00	7,630.00	12,334.34	7,946.36	78.49	80.20	96.12	-3,189.02	-1,464.98	3,078.44	2,921.49	156.95	19.614	
13,100.00	7,630.00	12,409.41	7,946.03	80.05	81.43	96.11	-3,264.06	-1,467.04	3,080.74	2,921.12	159.62	19.301	
13,200.00	7,630.00	12,601.19	7,951.22	81.61	84.60	96.21	-3,455.73	-1,469.39	3,082.00	2,917.33	164.67	18.716	
13,203.94	7,630.00	13,203.94	7,950.26	81.67	94.59	96.19	-3,431.12	-1,469.37	3,081.97	2,907.38	174.59	17.652	
13,300.00	7,630.00	12,644.58	7,953.32	83.18	85.32	96.25	-3,499.07	-1,469.67	3,082.65	2,915.90	166.75	18.487	
13,400.00	7,630.00	12,703.31	7,956.49	84.76	86.29	96.30	-3,557.70	-1,470.85	3,084.84	2,915.74	169.10	18.243	
13,500.00	7,630.00	12,785.55	7,958.80	86.34	87.66	96.34	-3,639.86	-1,473.49	3,087.99	2,916.05	171.94	17.960	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 184-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			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
13,600.00	7,630.00	12,899.35	7,958.75	87.94	89.54	96.33	-3,753.60	-1,477.36	3,091.02	2,915.55	175.47	17.616	
13,700.00	7,630.00	13,019.10	7,957.68	89.53	91.53	96.31	-3,873.28	-1,481.16	3,093.77	2,914.63	179.14	17.270	
13,800.00	7,630.00	13,130.42	7,954.58	91.13	93.39	96.24	-3,984.52	-1,484.19	3,095.83	2,913.18	182.64	16.950	
13,900.00	7,630.00	13,263.78	7,952.56	92.74	95.63	96.20	-4,117.84	-1,486.05	3,096.56	2,909.93	186.62	16.593	
14,000.00	7,630.00	13,338.19	7,953.23	94.35	96.87	96.21	-4,192.24	-1,487.16	3,097.80	2,908.43	189.37	16.359	
14,100.00	7,630.00	13,517.29	7,955.23	95.97	99.89	96.25	-4,371.30	-1,489.07	3,099.02	2,904.73	194.28	15.951	
14,200.00	7,630.00	13,629.52	7,957.17	97.60	101.79	96.29	-4,483.50	-1,487.86	3,097.78	2,899.95	197.83	15.659	
14,300.00	7,630.00	13,730.11	7,961.23	99.22	103.50	96.36	-4,584.01	-1,486.44	3,096.49	2,895.33	201.15	15.394	
14,400.00	7,630.00	14,400.00	7,965.93	100.85	114.93	96.46	-4,747.80	-1,482.80	3,094.34	2,880.02	214.32	14.438	
14,500.00	7,630.00	13,971.05	7,967.12	102.49	107.61	96.49	-4,824.77	-1,480.18	3,090.93	2,882.32	208.60	14.817	
14,600.00	7,630.00	14,017.00	7,968.03	104.13	108.39	96.51	-4,870.70	-1,479.53	3,089.27	2,878.40	210.87	14.650	
14,658.25	7,630.00	14,047.91	7,968.75	105.09	108.92	96.52	-4,901.60	-1,479.48	3,089.08	2,876.83	212.25	14.554	
14,700.00	7,630.00	14,077.10	7,969.45	105.77	109.42	96.53	-4,930.78	-1,479.56	3,089.17	2,875.79	213.38	14.477	
14,800.00	7,630.00	14,157.63	7,971.31	107.42	110.79	96.57	-5,011.29	-1,480.28	3,089.96	2,873.66	216.30	14.285	
14,900.00	7,630.00	14,253.48	7,972.81	109.07	112.42	96.59	-5,107.12	-1,481.55	3,091.12	2,871.57	219.55	14.079	
15,000.00	7,630.00	14,339.67	7,973.21	110.72	113.89	96.60	-5,193.30	-1,482.93	3,092.44	2,869.85	222.59	13.893	
15,100.00	7,630.00	14,475.66	7,976.25	112.38	116.21	96.65	-5,329.23	-1,484.75	3,093.78	2,867.07	226.71	13.646	
15,200.00	7,630.00	14,602.41	7,979.88	114.04	118.38	96.72	-5,455.93	-1,485.00	3,094.01	2,863.39	230.62	13.416	
15,274.96	7,630.00	14,663.14	7,980.56	115.29	119.42	96.73	-5,516.65	-1,484.78	3,093.64	2,860.80	232.84	13.286	
15,300.00	7,630.00	14,674.11	7,980.70	115.71	119.60	96.73	-5,527.63	-1,484.83	3,093.71	2,860.32	233.39	13.256	
15,400.00	7,630.00	14,730.00	7,981.85	117.37	120.56	96.75	-5,583.49	-1,485.82	3,095.18	2,859.40	235.78	13.127	
15,500.00	7,630.00	14,784.11	7,983.36	119.04	121.48	96.78	-5,637.56	-1,487.52	3,098.10	2,860.01	238.09	13.012	
15,600.00	7,630.00	15,027.66	7,989.51	120.71	125.67	96.89	-5,880.97	-1,487.81	3,096.73	2,852.15	244.58	12.661	
15,700.00	7,630.00	15,100.09	7,989.90	122.39	126.91	96.90	-5,953.39	-1,487.56	3,096.06	2,848.67	247.39	12.515	
15,800.00	7,630.00	15,251.39	7,992.96	124.06	129.52	96.96	-6,104.65	-1,486.08	3,095.04	2,843.23	251.81	12.291	
15,900.00	7,630.00	15,301.50	7,993.71	125.74	130.38	96.98	-6,154.75	-1,485.42	3,093.73	2,839.54	254.18	12.171	
15,919.19	7,630.00	15,309.28	7,993.78	126.06	130.52	96.98	-6,162.53	-1,485.42	3,093.69	2,839.10	254.59	12.152	
16,000.00	7,630.00	15,353.00	7,994.01	127.42	131.27	96.98	-6,206.24	-1,486.00	3,094.37	2,837.84	256.53	12.063	
16,100.00	7,630.00	15,590.85	7,997.92	129.10	135.38	97.06	-6,443.98	-1,482.85	3,092.34	2,829.61	262.73	11.770	
16,200.00	7,630.00	15,679.74	7,999.98	130.79	136.92	97.11	-6,532.81	-1,480.15	3,089.27	2,823.35	265.92	11.617	
16,300.00	7,630.00	15,770.59	8,002.05	132.48	138.50	97.15	-6,623.60	-1,477.69	3,086.53	2,817.39	269.14	11.468	
16,400.00	7,630.00	15,857.60	8,005.97	134.17	140.01	97.23	-6,710.49	-1,475.37	3,084.12	2,811.85	272.27	11.327	
16,500.00	7,630.00	15,992.03	8,011.32	135.86	142.35	97.34	-6,844.76	-1,471.67	3,081.61	2,805.29	276.32	11.152	
16,600.00	7,630.00	16,085.31	8,013.97	137.55	143.97	97.39	-6,937.95	-1,468.43	3,078.21	2,798.61	279.59	11.010	
16,700.00	7,630.00	16,155.00	8,016.36	139.24	145.18	97.44	-7,007.58	-1,466.85	3,075.93	2,793.53	282.41	10.892	
16,800.00	7,630.00	16,205.24	8,018.40	140.94	146.05	97.48	-7,057.77	-1,466.33	3,074.88	2,790.09	284.79	10.797	
16,900.00	7,630.00	16,330.79	8,022.88	142.64	148.23	97.57	-7,183.24	-1,465.57	3,074.52	2,785.81	288.70	10.649	
17,000.00	7,630.00	16,433.30	8,025.28	144.34	150.01	97.62	-7,285.71	-1,464.19	3,073.16	2,781.00	292.16	10.519	
17,100.00	7,630.00	16,532.14	8,026.04	146.04	151.73	97.63	-7,384.54	-1,463.05	3,071.78	2,776.23	295.55	10.393	
17,200.00	7,630.00	16,601.00	8,025.59	147.74	152.93	97.63	-7,453.40	-1,462.48	3,070.66	2,772.34	298.32	10.293	
17,254.32	7,630.00	16,645.45	8,025.31	148.67	153.70	97.62	-7,497.85	-1,462.40	3,070.39	2,770.42	299.97	10.236	
17,300.00	7,630.00	16,670.87	8,025.40	149.44	154.14	97.62	-7,523.27	-1,462.56	3,070.54	2,769.45	301.08	10.198	
17,400.00	7,630.00	16,736.52	8,026.17	151.15	155.27	97.64	-7,588.90	-1,463.54	3,071.81	2,768.10	303.71	10.114	
17,500.00	7,630.00	16,873.01	8,028.28	152.86	157.64	97.67	-7,725.36	-1,465.99	3,073.63	2,765.68	307.95	9.981	
17,600.00	7,630.00	16,959.03	8,031.01	154.56	159.13	97.72	-7,811.33	-1,466.69	3,074.51	2,763.47	311.04	9.885	
17,700.00	7,630.00	17,091.94	8,035.15	156.27	161.44	97.80	-7,944.17	-1,467.14	3,074.90	2,759.74	315.17	9.756	
17,800.00	7,630.00	17,195.90	8,036.54	157.98	163.25	97.82	-8,048.12	-1,467.14	3,074.75	2,756.08	318.67	9.649	
17,846.05	7,630.00	17,237.24	8,036.85	158.77	163.97	97.83	-8,089.46	-1,467.19	3,074.70	2,754.55	320.14	9.604	
17,900.00	7,630.00	17,278.89	8,036.92	159.70	164.69	97.83	-8,131.11	-1,467.40	3,074.80	2,753.08	321.72	9.557	
18,000.00	7,630.00	17,395.96	8,035.60	161.41	166.72	97.80	-8,248.16	-1,468.41	3,075.21	2,749.67	325.54	9.446	
18,100.00	7,630.00	17,511.11	8,032.48	163.12	168.73	97.75	-8,363.27	-1,468.68	3,074.73	2,745.40	329.33	9.336	
18,154.00	7,630.00	17,546.00	8,031.39	164.05	169.33	97.73	-8,398.14	-1,468.72	3,074.44	2,743.66	330.78	9.295	SF

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-52.65	786.52	-1,030.66	1,296.54				
100.00	100.00	94.64	94.64	0.13	0.14	-52.65	786.34	-1,030.49	1,296.26	1,295.98	0.28	4,683.220	
200.00	200.00	195.38	195.38	0.49	0.41	-52.66	785.86	-1,030.03	1,295.61	1,294.70	0.90	1,437.085	
300.00	300.00	291.18	291.17	0.85	0.75	-52.66	785.57	-1,029.76	1,295.20	1,293.60	1.60	807.857	
400.00	400.00	391.11	391.10	1.21	1.11	-52.66	785.45	-1,029.61	1,295.00	1,292.68	2.32	558.550	
500.00	500.00	492.65	492.64	1.57	1.47	-52.66	785.37	-1,029.28	1,294.70	1,291.66	3.04	426.021	
543.21	543.21	536.52	536.51	1.72	1.63	-52.65	785.35	-1,029.09	1,294.54	1,291.19	3.35	386.386	CC, ES
600.00	600.00	568.65	568.65	1.93	1.73	-52.65	785.65	-1,029.30	1,295.02	1,291.36	3.66	353.756	
700.00	700.00	635.61	635.57	2.29	1.96	-52.61	787.43	-1,030.27	1,297.79	1,293.54	4.24	305.799	
800.00	800.00	700.68	700.49	2.64	2.18	-52.50	791.53	-1,031.49	1,303.13	1,298.31	4.82	270.384	
900.00	900.00	763.45	762.95	3.00	2.40	-52.34	797.54	-1,033.29	1,311.26	1,305.87	5.39	243.411	
1,000.00	1,000.00	849.06	847.90	3.36	2.71	-52.07	807.67	-1,036.39	1,321.39	1,315.34	6.04	218.701	
1,100.00	1,100.00	942.44	940.43	3.72	3.07	-51.75	819.73	-1,039.75	1,332.22	1,325.49	6.73	197.905	
1,200.00	1,200.00	1,033.74	1,030.84	4.08	3.42	-51.42	832.02	-1,043.18	1,343.57	1,336.15	7.42	181.110	
1,300.00	1,300.00	1,124.06	1,120.15	4.44	3.78	-51.09	844.99	-1,046.77	1,355.69	1,347.58	8.11	167.249	
1,400.00	1,400.00	1,227.07	1,222.02	4.79	4.20	-50.73	859.62	-1,051.19	1,368.03	1,359.19	8.85	154.650	
1,500.00	1,499.98	1,331.84	1,325.79	5.15	4.63	-88.06	873.21	-1,056.07	1,379.84	1,370.24	9.59	143.834	
1,600.00	1,599.84	1,422.30	1,415.33	5.51	5.00	-87.73	885.46	-1,059.93	1,391.61	1,381.33	10.28	135.332	
1,700.00	1,699.45	1,508.18	1,500.05	5.87	5.36	-87.42	899.29	-1,062.77	1,404.18	1,393.22	10.96	128.097	
1,800.00	1,798.70	1,624.40	1,614.53	6.23	5.86	-87.22	919.00	-1,066.15	1,416.90	1,405.11	11.79	120.186	
1,900.00	1,897.47	1,716.20	1,705.00	6.60	6.26	-87.14	934.44	-1,067.90	1,428.56	1,416.04	12.52	114.094	
2,000.00	1,995.62	1,798.54	1,786.11	6.99	6.62	-87.15	948.46	-1,070.35	1,441.00	1,427.77	13.22	108.964	
2,100.00	2,093.06	1,951.71	1,937.18	7.39	7.28	-87.64	973.30	-1,074.10	1,452.62	1,438.35	14.27	101.774	
2,200.00	2,189.64	2,070.64	2,055.16	7.82	7.77	-88.27	988.28	-1,075.41	1,460.66	1,445.48	15.18	96.228	
2,300.00	2,285.27	2,161.39	2,145.25	8.28	8.14	-88.85	999.15	-1,076.72	1,468.81	1,452.82	15.99	91.842	
2,400.00	2,379.82	2,248.62	2,231.82	8.77	8.49	-89.51	1,009.68	-1,078.55	1,477.79	1,460.97	16.83	87.827	
2,500.00	2,473.17	2,346.94	2,329.39	9.31	8.89	-90.39	1,021.53	-1,080.95	1,487.48	1,469.73	17.75	83.814	
2,600.00	2,565.21	2,441.57	2,423.38	9.88	9.27	-91.36	1,032.18	-1,083.64	1,497.65	1,478.95	18.69	80.118	
2,660.67	2,620.37	2,498.90	2,480.34	10.25	9.50	-92.00	1,038.42	-1,085.38	1,504.19	1,484.90	19.29	77.988	
2,700.00	2,655.96	2,535.91	2,517.12	10.50	9.65	-92.50	1,042.45	-1,086.48	1,508.59	1,488.91	19.68	76.658	
2,800.00	2,746.43	2,629.48	2,610.12	11.15	10.02	-93.78	1,052.39	-1,089.37	1,520.31	1,499.62	20.69	73.485	
2,900.00	2,836.90	2,742.57	2,722.61	11.82	10.47	-95.33	1,063.55	-1,092.65	1,532.38	1,510.58	21.80	70.299	
3,000.00	2,927.37	2,861.36	2,840.77	12.50	10.93	-96.87	1,075.63	-1,093.46	1,543.56	1,520.61	22.95	67.257	
3,100.00	3,017.85	2,950.29	2,929.01	13.21	11.29	-97.91	1,086.57	-1,092.19	1,554.74	1,530.75	24.00	64.791	
3,200.00	3,108.32	3,023.27	3,001.34	13.92	11.59	-98.75	1,096.31	-1,091.75	1,567.65	1,542.67	24.98	62.753	
3,300.00	3,198.79	3,110.58	3,087.85	14.64	11.95	-99.74	1,108.11	-1,092.02	1,582.02	1,555.98	26.04	60.763	
3,400.00	3,289.27	3,203.62	3,180.07	15.38	12.34	-100.80	1,120.37	-1,092.56	1,597.08	1,569.96	27.12	58.892	
3,500.00	3,379.74	3,316.63	3,292.14	16.12	12.80	-102.06	1,134.92	-1,092.84	1,612.33	1,584.03	28.30	56.976	
3,600.00	3,470.21	3,409.08	3,383.98	16.87	13.17	-103.11	1,145.58	-1,092.87	1,627.48	1,598.11	29.37	55.409	
3,700.00	3,560.68	3,482.00	3,456.41	17.62	13.46	-103.93	1,153.89	-1,093.62	1,644.02	1,613.67	30.35	54.171	
3,800.00	3,651.16	3,538.75	3,512.69	18.39	13.70	-104.56	1,161.11	-1,094.96	1,662.76	1,631.53	31.24	53.230	
3,900.00	3,741.63	3,621.91	3,594.91	19.15	14.05	-105.42	1,173.21	-1,097.95	1,683.68	1,651.42	32.26	52.192	
4,000.00	3,832.10	3,743.85	3,715.80	19.92	14.56	-106.71	1,188.58	-1,101.94	1,704.31	1,670.83	33.48	50.900	
4,100.00	3,922.57	3,837.92	3,809.27	20.69	14.93	-107.73	1,198.91	-1,104.56	1,724.56	1,690.02	34.54	49.928	
4,200.00	4,013.05	3,929.30	3,899.91	21.47	15.31	-108.66	1,210.18	-1,106.79	1,745.40	1,709.82	35.59	49.043	
4,300.00	4,103.52	4,026.88	3,996.66	22.25	15.71	-109.61	1,222.79	-1,108.95	1,766.68	1,730.01	36.67	48.177	
4,400.00	4,193.99	4,129.76	4,098.96	23.03	16.12	-110.68	1,233.31	-1,111.42	1,787.96	1,750.20	37.76	47.356	
4,500.00	4,284.47	4,219.84	4,188.54	23.81	16.47	-111.59	1,242.58	-1,113.48	1,809.66	1,770.89	38.76	46.683	
4,600.00	4,374.94	4,309.56	4,277.61	24.60	16.84	-112.43	1,253.17	-1,115.35	1,831.99	1,792.21	39.78	46.057	
4,700.00	4,465.41	4,395.50	4,363.00	25.39	17.18	-113.24	1,262.65	-1,117.51	1,855.00	1,814.24	40.76	45.511	
4,800.00	4,555.88	4,477.14	4,443.98	26.18	17.52	-113.97	1,272.78	-1,119.80	1,878.94	1,837.23	41.72	45.041	
4,900.00	4,646.36	4,581.51	4,547.39	26.97	17.95	-114.85	1,286.56	-1,122.67	1,903.38	1,860.57	42.81	44.464	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,736.83	4,686.15	4,651.31	27.76	18.38	-115.76	1,298.56	-1,125.14	1,927.54	1,883.66	43.88	43.928	
5,100.00	4,827.30	4,758.67	4,723.15	28.55	18.68	-116.33	1,308.24	-1,126.93	1,952.41	1,907.63	44.77	43.607	
5,200.00	4,917.77	4,859.73	4,823.14	29.35	19.11	-117.09	1,322.72	-1,129.48	1,977.80	1,931.96	45.84	43.142	
5,300.00	5,008.25	4,953.08	4,915.67	30.15	19.50	-117.81	1,334.83	-1,131.83	2,003.34	1,956.49	46.85	42.762	
5,400.00	5,098.72	5,048.07	5,009.96	30.94	19.88	-118.56	1,346.00	-1,134.34	2,029.17	1,981.32	47.84	42.411	
5,500.00	5,189.19	5,146.09	5,107.42	31.74	20.27	-119.35	1,356.26	-1,136.82	2,055.10	2,006.26	48.84	42.077	
5,600.00	5,279.67	5,237.00	5,197.76	32.54	20.64	-120.05	1,366.13	-1,139.03	2,081.32	2,031.53	49.79	41.799	
5,700.00	5,370.14	5,330.23	5,290.29	33.34	21.02	-120.73	1,377.24	-1,141.36	2,108.00	2,057.23	50.76	41.525	
5,800.00	5,460.61	5,443.50	5,402.72	34.14	21.48	-121.53	1,390.89	-1,143.67	2,134.56	2,082.70	51.86	41.162	
5,900.00	5,551.08	5,545.52	5,503.83	34.94	21.90	-122.19	1,404.38	-1,144.78	2,160.52	2,107.64	52.89	40.852	
6,000.00	5,641.56	5,644.05	5,601.71	35.75	22.30	-122.87	1,415.59	-1,145.76	2,186.58	2,132.71	53.87	40.590	
6,100.00	5,732.03	5,721.38	5,678.61	36.55	22.60	-123.40	1,423.79	-1,146.71	2,213.11	2,158.39	54.72	40.447	
6,200.00	5,822.50	5,816.01	5,772.60	37.35	22.98	-124.03	1,434.55	-1,148.29	2,240.32	2,184.66	55.67	40.246	
6,300.00	5,912.97	5,890.42	5,846.61	38.16	23.28	-124.53	1,442.19	-1,149.69	2,268.00	2,211.52	56.48	40.159	
6,400.00	6,003.45	5,986.82	5,942.45	38.96	23.66	-125.16	1,452.29	-1,152.10	2,296.50	2,239.08	57.42	39.996	
6,500.00	6,093.92	6,091.11	6,045.88	39.77	24.09	-125.76	1,465.46	-1,154.16	2,324.71	2,266.28	58.43	39.785	
6,600.00	6,184.39	6,169.20	6,123.40	40.57	24.40	-126.23	1,474.66	-1,155.76	2,353.21	2,293.95	59.26	39.708	
6,700.00	6,274.87	6,264.74	6,218.39	41.38	24.79	-126.81	1,484.69	-1,158.05	2,382.29	2,322.10	60.19	39.580	
6,800.00	6,365.34	6,356.89	6,309.88	42.18	25.16	-127.33	1,495.49	-1,160.18	2,411.46	2,350.35	61.10	39.465	
6,900.00	6,455.81	6,435.21	6,387.52	42.99	25.48	-127.74	1,505.56	-1,162.27	2,441.10	2,379.17	61.93	39.415	
7,000.00	6,546.28	6,504.97	6,456.72	43.80	25.77	-128.11	1,514.09	-1,164.65	2,471.64	2,408.95	62.69	39.425	
7,100.00	6,636.76	6,582.75	6,533.98	44.61	26.08	-128.55	1,522.40	-1,167.96	2,503.20	2,439.72	63.48	39.431	
7,200.00	6,727.23	6,669.48	6,620.32	45.41	26.41	-129.06	1,529.65	-1,171.71	2,535.20	2,470.89	64.30	39.425	
7,300.00	6,817.70	6,757.87	6,708.44	46.22	26.74	-129.62	1,535.48	-1,175.62	2,567.65	2,502.54	65.11	39.435	
7,383.79	6,893.51	6,835.51	6,785.90	46.90	27.01	-130.12	1,539.36	-1,178.89	2,594.99	2,529.20	65.79	39.444	
7,400.00	6,908.25	6,849.62	6,799.99	47.03	27.06	-133.12	1,539.97	-1,179.47	2,600.30	2,534.39	65.91	39.451	
7,450.00	6,954.52	6,893.73	6,844.02	47.40	27.22	-144.04	1,541.70	-1,181.31	2,616.71	2,550.43	66.27	39.484	
7,500.00	7,001.74	7,500.00	6,922.61	47.72	29.01	-158.19	1,540.11	-1,183.20	2,632.28	2,563.99	68.29	38.543	
7,550.00	7,049.55	6,987.00	6,937.19	47.99	27.49	-175.33	1,539.77	-1,183.54	2,647.91	2,581.05	66.86	39.604	
7,600.00	7,097.58	7,024.68	6,974.63	48.21	27.57	165.72	1,535.66	-1,184.11	2,663.13	2,596.12	67.01	39.742	
7,650.00	7,145.48	7,040.60	6,990.37	48.37	27.61	147.99	1,533.33	-1,184.60	2,678.61	2,611.57	67.04	39.953	
7,700.00	7,192.88	7,076.00	7,025.14	48.48	27.68	133.47	1,526.88	-1,186.21	2,694.20	2,627.08	67.12	40.138	
7,750.00	7,239.41	7,076.00	7,025.14	48.54	27.68	122.27	1,526.88	-1,186.21	2,709.15	2,642.11	67.05	40.407	
7,800.00	7,284.72	7,800.00	7,094.81	48.56	28.86	113.99	1,509.49	-1,188.94	2,723.10	2,654.88	68.22	39.918	
7,850.00	7,328.47	7,194.89	7,139.97	48.54	27.86	107.68	1,496.60	-1,190.35	2,736.01	2,668.82	67.19	40.720	
7,900.00	7,370.32	7,215.69	7,159.62	48.47	27.89	102.68	1,489.84	-1,191.04	2,748.30	2,681.18	67.12	40.944	
7,950.00	7,409.96	7,255.00	7,196.25	48.37	27.93	98.81	1,475.66	-1,192.70	2,760.08	2,693.00	67.08	41.147	
8,000.00	7,447.08	7,255.00	7,196.25	48.24	27.93	95.47	1,475.66	-1,192.70	2,770.86	2,703.91	66.96	41.383	
8,050.00	7,481.41	7,255.00	7,196.25	48.07	27.93	92.66	1,475.66	-1,192.70	2,781.20	2,714.38	66.82	41.620	
8,100.00	7,512.67	7,285.75	7,224.47	47.87	27.96	90.63	1,463.59	-1,194.50	2,790.52	2,723.77	66.75	41.809	
8,150.00	7,540.64	7,299.68	7,237.16	47.65	27.97	88.83	1,457.94	-1,195.52	2,799.20	2,732.56	66.64	42.005	
8,200.00	7,565.09	7,312.99	7,249.24	47.40	27.98	87.36	1,452.44	-1,196.61	2,807.08	2,740.54	66.54	42.186	
8,250.00	7,585.85	7,344.00	7,277.15	47.14	28.01	86.43	1,439.26	-1,199.59	2,814.30	2,747.82	66.48	42.332	
8,300.00	7,602.75	7,344.00	7,277.15	46.86	28.01	85.33	1,439.26	-1,199.59	2,820.35	2,753.97	66.38	42.490	
8,350.00	7,615.67	7,451.22	7,369.93	46.58	28.07	86.08	1,386.47	-1,208.65	2,825.17	2,758.77	66.39	42.553	
8,400.00	7,624.51	7,492.57	7,403.25	46.28	28.08	86.11	1,362.15	-1,211.31	2,828.30	2,761.99	66.31	42.650	
8,450.00	7,629.19	7,537.13	7,437.00	45.98	28.09	86.43	1,333.19	-1,213.93	2,830.28	2,764.05	66.23	42.736	
8,481.00	7,630.00	7,549.72	7,446.16	45.79	28.08	86.52	1,324.59	-1,214.68	2,831.01	2,764.83	66.18	42.776	
8,500.00	7,630.00	7,561.07	7,454.25	45.68	28.08	86.68	1,316.66	-1,215.34	2,831.39	2,765.23	66.15	42.800	
8,600.00	7,630.00	7,844.92	7,616.24	45.11	28.12	89.96	1,085.76	-1,219.22	2,829.96	2,764.46	65.50	43.205	
8,700.00	7,630.00	8,004.78	7,654.11	44.56	28.28	90.73	931.03	-1,212.91	2,825.24	2,760.13	65.11	43.393	
8,800.00	7,630.00	8,057.00	7,660.81	44.05	28.37	90.87	879.27	-1,211.40	2,821.93	2,756.82	65.11	43.338	

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

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

Offset Site Error: 0.00 usft

Survey Program: 140-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,630.00	8,168.96	7,672.37	43.57	28.67	91.11	767.95	-1,208.48	2,819.17	2,754.00	65.17	43.260	
9,000.00	7,630.00	8,235.00	7,675.07	43.12	28.90	91.16	701.99	-1,207.00	2,816.66	2,751.28	65.38	43.083	
9,100.00	7,630.00	8,321.91	7,675.31	42.70	29.26	91.17	615.09	-1,205.84	2,814.99	2,749.28	65.71	42.839	
9,200.00	7,630.00	8,413.03	7,675.45	42.31	29.72	91.17	523.97	-1,204.97	2,813.71	2,747.50	66.21	42.499	
9,300.00	7,630.00	8,523.27	7,675.97	41.94	30.39	91.18	413.74	-1,204.05	2,812.56	2,745.62	66.94	42.017	
9,400.00	7,630.00	8,672.07	7,676.24	41.59	31.46	91.19	264.98	-1,200.75	2,809.91	2,741.85	68.06	41.285	
9,500.00	7,630.00	8,743.29	7,675.95	41.26	32.04	91.18	193.79	-1,199.00	2,807.13	2,738.15	68.98	40.694	
9,600.00	7,630.00	8,806.63	7,675.57	40.96	32.59	91.18	130.45	-1,198.21	2,805.55	2,735.61	69.94	40.111	
9,664.37	7,630.00	8,845.71	7,675.94	40.78	32.93	91.18	91.37	-1,198.15	2,805.26	2,734.66	70.60	39.733	
9,700.00	7,630.00	8,881.24	7,676.62	40.68	33.26	91.20	55.85	-1,198.31	2,805.31	2,734.23	71.08	39.467	
9,800.00	7,630.00	9,027.06	7,678.77	40.42	34.70	91.24	-89.95	-1,197.53	2,804.46	2,731.51	72.95	38.443	
9,900.00	7,630.00	9,144.77	7,679.03	40.17	35.95	91.25	-207.64	-1,195.50	2,802.38	2,727.62	74.76	37.483	
10,000.00	7,630.00	9,228.84	7,679.55	39.96	36.89	91.26	-291.70	-1,194.07	2,800.36	2,724.00	76.37	36.669	
10,100.00	7,630.00	9,304.00	7,680.16	40.05	37.76	91.27	-366.85	-1,193.43	2,799.17	2,721.21	77.96	35.906	
10,200.00	7,630.00	9,393.00	7,680.46	40.95	38.82	91.28	-455.85	-1,192.99	2,798.37	2,718.57	79.79	35.070	
10,254.27	7,630.00	9,435.72	7,680.70	41.47	39.35	91.28	-498.57	-1,192.92	2,798.13	2,717.37	80.77	34.645	
10,300.00	7,630.00	9,463.58	7,681.11	41.94	39.69	91.29	-526.42	-1,193.09	2,798.28	2,716.80	81.48	34.343	
10,400.00	7,630.00	9,554.76	7,683.45	42.98	40.84	91.34	-617.57	-1,194.24	2,799.24	2,715.73	83.51	33.521	
10,500.00	7,630.00	9,655.32	7,686.82	44.06	42.14	91.41	-718.06	-1,195.43	2,800.17	2,714.43	85.75	32.657	
10,600.00	7,630.00	9,768.66	7,690.90	45.17	43.65	91.49	-831.32	-1,196.49	2,800.86	2,712.59	88.26	31.733	
10,700.00	7,630.00	9,863.80	7,694.52	46.32	44.95	91.57	-926.40	-1,197.12	2,801.29	2,710.70	90.59	30.921	
10,800.00	7,630.00	9,940.94	7,695.73	47.50	46.02	91.59	-1,003.51	-1,198.17	2,802.35	2,709.66	92.70	30.232	
10,900.00	7,630.00	10,024.91	7,695.60	48.70	47.19	91.59	-1,087.46	-1,199.97	2,804.14	2,709.19	94.95	29.534	
11,000.00	7,630.00	10,145.14	7,694.28	49.94	48.90	91.56	-1,207.66	-1,202.44	2,805.83	2,707.98	97.84	28.676	
11,100.00	7,630.00	10,249.56	7,692.43	51.20	50.41	91.52	-1,312.05	-1,203.98	2,806.91	2,706.37	100.55	27.916	
11,200.00	7,630.00	10,379.67	7,688.96	52.48	52.33	91.45	-1,442.11	-1,205.56	2,807.78	2,704.04	103.75	27.064	
11,300.00	7,630.00	10,463.03	7,686.91	53.79	53.57	91.41	-1,525.43	-1,206.26	2,808.21	2,702.01	106.20	26.442	
11,400.00	7,630.00	10,560.10	7,687.76	55.12	55.04	91.42	-1,622.49	-1,207.28	2,808.95	2,700.01	108.94	25.784	
11,500.00	7,630.00	10,673.98	7,691.83	56.46	56.78	91.51	-1,736.29	-1,208.30	2,809.61	2,697.57	112.04	25.077	
11,600.00	7,630.00	10,814.52	7,692.88	57.83	58.95	91.53	-1,876.81	-1,208.10	2,809.14	2,693.48	115.66	24.289	
11,700.00	7,630.00	10,934.51	7,689.57	59.22	60.82	91.46	-1,996.74	-1,206.79	2,807.64	2,688.70	118.94	23.606	
11,800.00	7,630.00	11,032.40	7,685.59	60.62	62.36	91.38	-2,094.54	-1,205.18	2,805.57	2,683.71	121.86	23.024	
11,900.00	7,630.00	11,115.13	7,683.51	62.04	63.67	91.34	-2,177.24	-1,204.44	2,804.23	2,679.72	124.52	22.521	
12,000.00	7,630.00	11,212.75	7,681.51	63.48	65.22	91.30	-2,274.83	-1,203.53	2,802.93	2,675.44	127.48	21.987	
12,100.00	7,630.00	11,314.97	7,679.88	64.93	66.86	91.27	-2,377.04	-1,203.05	2,802.09	2,671.53	130.56	21.462	
12,200.00	7,630.00	11,443.85	7,678.93	66.39	68.93	91.25	-2,505.90	-1,201.24	2,800.31	2,666.13	134.18	20.870	
12,300.00	7,630.00	11,531.00	7,679.87	67.86	70.35	91.27	-2,593.02	-1,199.27	2,797.82	2,660.78	137.03	20.417	
12,400.00	7,630.00	11,590.19	7,680.81	69.35	71.31	91.29	-2,652.20	-1,198.50	2,796.45	2,657.11	139.34	20.069	
12,414.22	7,630.00	11,596.50	7,680.93	69.56	71.41	91.29	-2,658.51	-1,198.51	2,796.43	2,656.80	139.63	20.028	
12,500.00	7,630.00	11,645.46	7,681.86	70.85	72.21	91.31	-2,707.45	-1,199.08	2,797.10	2,655.54	141.55	19.760	
12,600.00	7,630.00	11,731.48	7,683.34	72.36	73.60	91.34	-2,793.44	-1,200.81	2,798.79	2,654.40	144.39	19.383	
12,700.00	7,630.00	11,863.28	7,685.08	73.88	75.75	91.37	-2,925.21	-1,202.93	2,800.11	2,651.90	148.21	18.893	
12,800.00	7,630.00	11,943.05	7,686.28	75.41	77.06	91.40	-3,004.97	-1,203.81	2,800.96	2,650.01	150.95	18.555	
12,900.00	7,630.00	12,023.49	7,688.64	76.95	78.38	91.44	-3,085.36	-1,205.56	2,802.84	2,649.12	153.72	18.234	
13,000.00	7,630.00	12,120.80	7,692.33	78.49	79.98	91.52	-3,182.57	-1,207.91	2,805.01	2,648.15	156.86	17.883	
13,100.00	7,630.00	12,220.43	7,696.60	80.05	81.63	91.60	-3,282.07	-1,210.32	2,807.22	2,647.16	160.06	17.539	
13,200.00	7,630.00	12,323.86	7,701.40	81.61	83.34	91.70	-3,385.36	-1,212.78	2,809.39	2,646.03	163.36	17.198	
13,300.00	7,630.00	12,407.31	7,705.03	83.18	84.73	91.77	-3,468.71	-1,214.91	2,811.75	2,645.52	166.23	16.915	
13,400.00	7,630.00	12,525.57	7,708.02	84.76	86.69	91.83	-3,586.88	-1,218.13	2,814.23	2,644.35	169.88	16.566	
13,500.00	7,630.00	12,650.16	7,709.83	86.34	88.77	91.87	-3,711.44	-1,220.50	2,815.84	2,642.16	173.67	16.213	
13,600.00	7,630.00	12,756.00	7,711.62	87.94	90.54	91.90	-3,817.25	-1,221.81	2,816.79	2,639.72	177.07	15.907	
13,700.00	7,630.00	12,866.64	7,716.36	89.53	92.40	92.00	-3,927.78	-1,222.93	2,817.61	2,637.02	180.59	15.602	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
13,800.00	7,630.00	12,972.45	7,721.80	91.13	94.18	92.11	-4,033.45	-1,223.61	2,818.11	2,634.09	184.02	15.314	
13,900.00	7,630.00	13,075.65	7,727.10	92.74	95.93	92.22	-4,136.51	-1,224.02	2,818.35	2,630.96	187.39	15.040	
14,000.00	7,630.00	13,168.66	7,730.46	94.35	97.50	92.29	-4,229.45	-1,224.61	2,818.79	2,628.24	190.55	14.793	
14,100.00	7,630.00	13,269.16	7,733.44	95.97	99.20	92.35	-4,329.91	-1,225.35	2,819.31	2,625.43	193.88	14.541	
14,200.00	7,630.00	13,382.96	7,736.15	97.60	101.13	92.40	-4,443.68	-1,226.02	2,819.67	2,622.16	197.51	14.276	
14,300.00	7,630.00	13,510.39	7,739.17	99.22	103.30	92.46	-4,571.07	-1,225.78	2,819.26	2,617.82	201.44	13.996	
14,400.00	7,630.00	13,625.01	7,741.70	100.85	105.25	92.52	-4,685.65	-1,224.37	2,817.75	2,612.66	205.09	13.739	
14,500.00	7,630.00	13,868.90	7,742.10	102.49	109.43	92.53	-4,929.34	-1,215.72	2,814.09	2,602.85	211.24	13.322	
14,600.00	7,630.00	13,916.62	7,741.95	104.13	110.25	92.53	-4,976.99	-1,213.19	2,808.44	2,594.79	213.65	13.145	
14,700.00	7,630.00	13,961.02	7,741.49	105.77	111.01	92.52	-5,021.35	-1,211.67	2,804.68	2,588.74	215.93	12.989	
14,800.00	7,630.00	14,002.93	7,740.83	107.42	111.73	92.51	-5,063.25	-1,211.13	2,802.96	2,584.88	218.08	12.853	
14,842.06	7,630.00	14,026.00	7,740.38	108.11	112.13	92.50	-5,086.32	-1,211.20	2,802.87	2,583.79	219.08	12.794	
14,900.00	7,630.00	14,067.22	7,739.49	109.07	112.83	92.48	-5,127.53	-1,211.60	2,803.14	2,582.49	220.65	12.704	
15,000.00	7,630.00	14,193.16	7,736.49	110.72	114.98	92.42	-5,253.43	-1,212.64	2,803.60	2,578.99	224.60	12.482	
15,048.32	7,630.00	14,232.32	7,735.62	111.53	115.65	92.40	-5,292.58	-1,212.70	2,803.47	2,577.44	226.03	12.403	
15,100.00	7,630.00	14,267.44	7,735.23	112.38	116.25	92.40	-5,327.70	-1,212.94	2,803.62	2,576.22	227.40	12.329	
15,200.00	7,630.00	14,360.84	7,735.60	114.04	117.85	92.40	-5,421.09	-1,214.07	2,804.50	2,573.87	230.63	12.160	
15,300.00	7,630.00	14,476.39	7,737.06	115.71	119.83	92.43	-5,536.62	-1,215.06	2,805.08	2,570.71	234.37	11.969	
15,400.00	7,630.00	14,605.19	7,739.00	117.37	122.05	92.47	-5,665.41	-1,215.16	2,804.90	2,566.50	238.40	11.765	
15,500.00	7,630.00	14,703.75	7,740.50	119.04	123.74	92.50	-5,763.96	-1,214.48	2,803.94	2,562.16	241.77	11.598	
15,600.00	7,630.00	14,796.13	7,740.21	120.71	125.34	92.50	-5,856.33	-1,214.38	2,803.47	2,558.47	245.00	11.443	
15,700.00	7,630.00	14,899.54	7,738.38	122.39	127.12	92.46	-5,959.72	-1,214.31	2,802.98	2,554.50	248.48	11.280	
15,800.00	7,630.00	14,998.45	7,737.83	124.06	128.82	92.45	-6,058.63	-1,214.12	2,802.44	2,550.57	251.87	11.127	
15,900.00	7,630.00	15,117.54	7,737.62	125.74	130.88	92.45	-6,177.72	-1,213.32	2,801.38	2,545.69	255.70	10.956	
16,000.00	7,630.00	15,195.17	7,739.05	127.42	132.22	92.48	-6,255.33	-1,212.95	2,800.64	2,542.01	258.62	10.829	
16,086.41	7,630.00	15,282.47	7,741.35	128.88	133.73	92.52	-6,342.60	-1,212.78	2,800.28	2,538.69	261.60	10.705	
16,100.00	7,630.00	15,273.00	7,741.13	129.10	133.57	92.52	-6,333.13	-1,212.80	2,800.32	2,538.78	261.54	10.707	
16,200.00	7,630.00	15,331.76	7,742.28	130.79	134.58	92.54	-6,391.88	-1,213.37	2,801.21	2,537.24	263.97	10.612	
16,300.00	7,630.00	15,385.23	7,742.97	132.48	135.50	92.56	-6,445.31	-1,215.03	2,803.97	2,537.76	266.22	10.533	
16,400.00	7,630.00	15,451.00	7,743.66	134.17	136.63	92.57	-6,511.02	-1,217.99	2,808.16	2,539.44	268.72	10.450	
16,500.00	7,630.00	15,638.76	7,745.74	135.86	139.85	92.60	-6,698.60	-1,225.51	2,812.33	2,537.96	274.37	10.250	
16,600.00	7,630.00	15,733.39	7,748.48	137.55	141.48	92.66	-6,793.17	-1,227.51	2,814.24	2,536.58	277.66	10.136	
16,700.00	7,630.00	15,857.80	7,751.73	139.24	143.63	92.72	-6,917.52	-1,229.48	2,815.60	2,533.93	281.67	9.996	
16,800.00	7,630.00	15,958.22	7,754.91	140.94	145.37	92.79	-7,017.89	-1,230.50	2,816.42	2,531.31	285.11	9.878	
16,900.00	7,630.00	16,073.30	7,758.83	142.64	147.36	92.87	-7,132.89	-1,231.59	2,817.22	2,528.33	288.89	9.752	
17,000.00	7,630.00	16,167.07	7,760.76	144.34	148.99	92.90	-7,226.64	-1,232.28	2,817.72	2,525.54	292.18	9.644	
17,100.00	7,630.00	16,233.51	7,762.38	146.04	150.14	92.94	-7,293.05	-1,233.25	2,818.96	2,524.15	294.81	9.562	
17,200.00	7,630.00	16,344.52	7,767.54	147.74	152.06	93.04	-7,403.92	-1,235.38	2,820.80	2,522.30	298.50	9.450	
17,300.00	7,630.00	16,431.74	7,771.98	149.44	153.58	93.13	-7,491.02	-1,236.90	2,822.47	2,520.85	301.62	9.358	
17,400.00	7,630.00	16,534.13	7,776.56	151.15	155.35	93.22	-7,593.28	-1,238.90	2,824.34	2,519.23	305.11	9.257	
17,500.00	7,630.00	16,641.76	7,780.70	152.86	157.22	93.30	-7,700.81	-1,240.78	2,825.96	2,517.23	308.73	9.153	
17,600.00	7,630.00	16,859.41	7,788.23	154.56	161.01	93.46	-7,918.30	-1,239.72	2,825.25	2,510.46	314.80	8.975	
17,700.00	7,630.00	16,978.42	7,791.13	156.27	163.09	93.52	-8,037.23	-1,236.49	2,822.37	2,503.74	318.63	8.858	
17,800.00	7,630.00	17,101.44	7,793.16	157.98	165.25	93.57	-8,160.15	-1,231.95	2,818.39	2,495.87	322.53	8.738	
17,900.00	7,630.00	17,210.86	7,794.06	159.70	167.17	93.59	-8,269.48	-1,227.70	2,814.25	2,488.08	326.17	8.628	
18,000.00	7,630.00	17,323.64	7,795.03	161.41	169.15	93.62	-8,382.14	-1,222.62	2,809.46	2,479.59	329.87	8.517	
18,100.00	7,630.00	17,340.00	7,795.17	163.12	169.43	93.62	-8,398.48	-1,221.86	2,805.79	2,474.08	331.71	8.459	
18,154.00	7,630.00	17,340.00	7,795.17	164.05	169.43	93.62	-8,398.48	-1,221.86	2,805.27	2,472.88	332.38	8.440	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-52.39	786.52	-1,020.86	1,288.75				
100.00	100.00	91.16	91.16	0.13	0.14	-52.39	786.38	-1,020.87	1,288.63	1,288.35	0.28	4,655.872	
200.00	200.00	193.58	193.58	0.49	0.30	-52.41	785.88	-1,020.92	1,288.37	1,287.58	0.80	1,620.368	
297.61	297.61	286.61	286.61	0.84	0.67	-52.43	785.39	-1,021.14	1,288.24	1,286.73	1.51	852.775	CC
300.00	300.00	288.91	288.91	0.85	0.68	-52.44	785.38	-1,021.14	1,288.24	1,286.71	1.53	843.391	
400.00	400.00	387.48	387.48	1.21	1.02	-52.46	785.03	-1,021.52	1,288.33	1,286.10	2.23	577.015	
500.00	500.00	487.03	487.02	1.57	1.37	-52.47	784.96	-1,021.75	1,288.46	1,285.53	2.94	438.369	
600.00	600.00	584.09	584.08	1.93	1.71	-52.50	784.45	-1,022.46	1,288.72	1,285.08	3.64	354.064	ES
700.00	700.00	658.74	658.72	2.29	1.97	-52.52	784.75	-1,023.49	1,290.07	1,285.81	4.26	302.848	
800.00	800.00	734.56	734.46	2.64	2.24	-52.43	787.98	-1,024.17	1,293.37	1,288.49	4.88	265.086	
900.00	900.00	807.08	806.72	3.00	2.49	-52.21	794.08	-1,024.21	1,298.59	1,293.10	5.49	236.744	
1,000.00	1,000.00	887.60	886.69	3.36	2.78	-51.89	803.42	-1,024.32	1,305.82	1,299.70	6.13	213.185	
1,100.00	1,100.00	980.37	978.69	3.72	3.12	-51.49	815.37	-1,024.54	1,314.03	1,307.21	6.82	192.747	
1,200.00	1,200.00	1,071.97	1,069.40	4.08	3.47	-51.05	828.09	-1,024.43	1,322.69	1,315.18	7.51	176.070	
1,300.00	1,300.00	1,160.92	1,157.32	4.44	3.83	-50.59	841.60	-1,024.21	1,332.15	1,323.95	8.20	162.391	
1,400.00	1,400.00	1,251.72	1,246.94	4.79	4.19	-50.10	856.19	-1,024.11	1,342.41	1,333.50	8.91	150.734	
1,500.00	1,499.98	1,348.62	1,342.58	5.15	4.59	-87.27	871.78	-1,024.51	1,353.09	1,343.45	9.64	140.404	
1,600.00	1,599.84	1,435.80	1,428.57	5.51	4.96	-86.79	886.12	-1,025.02	1,364.04	1,353.71	10.33	132.085	
1,700.00	1,699.45	1,519.47	1,510.97	5.87	5.32	-86.43	900.57	-1,026.11	1,375.89	1,364.88	11.01	125.010	
1,800.00	1,798.70	1,637.70	1,627.39	6.23	5.83	-86.20	921.08	-1,027.93	1,387.82	1,375.97	11.85	117.095	
1,900.00	1,897.47	1,736.33	1,724.79	6.60	6.25	-86.19	936.53	-1,029.50	1,398.40	1,385.78	12.62	110.850	
2,000.00	1,995.62	1,820.01	1,807.40	6.99	6.61	-86.28	949.67	-1,031.68	1,409.54	1,396.22	13.32	105.790	
2,100.00	2,093.06	1,948.86	1,934.90	7.39	7.15	-86.77	968.05	-1,034.71	1,419.31	1,405.05	14.26	99.560	
2,200.00	2,189.64	2,038.94	2,024.16	7.82	7.52	-87.22	979.88	-1,037.26	1,428.82	1,413.79	15.03	95.035	
2,300.00	2,285.27	2,146.30	2,130.53	8.28	7.96	-87.95	994.07	-1,040.60	1,438.74	1,422.82	15.92	90.363	
2,400.00	2,379.82	2,284.01	2,267.17	8.77	8.52	-89.10	1,010.98	-1,042.14	1,446.74	1,429.76	16.98	85.218	
2,500.00	2,473.17	2,388.91	2,371.37	9.31	8.94	-90.08	1,023.10	-1,041.63	1,453.49	1,435.56	17.93	81.066	
2,600.00	2,565.21	2,484.37	2,466.23	9.88	9.32	-91.07	1,033.82	-1,041.08	1,460.56	1,441.67	18.89	77.333	
2,660.67	2,620.37	2,542.08	2,523.57	10.25	9.55	-91.72	1,040.33	-1,040.72	1,465.20	1,445.71	19.49	75.183	
2,700.00	2,655.96	2,581.70	2,562.93	10.50	9.71	-92.24	1,044.88	-1,040.38	1,468.34	1,448.44	19.90	73.797	
2,800.00	2,746.43	2,677.57	2,657.97	11.15	10.10	-93.42	1,057.19	-1,038.20	1,476.41	1,455.47	20.94	70.512	
2,900.00	2,836.90	2,740.00	2,719.76	11.82	10.36	-94.15	1,066.04	-1,036.81	1,486.01	1,464.16	21.85	68.004	
3,000.00	2,927.37	2,805.35	2,784.32	12.50	10.65	-94.91	1,076.12	-1,036.43	1,498.17	1,475.39	22.79	65.748	
3,100.00	3,017.85	2,877.85	2,855.80	13.21	10.96	-95.74	1,088.16	-1,037.65	1,513.11	1,489.35	23.76	63.682	
3,200.00	3,108.32	2,971.14	2,947.81	13.92	11.37	-96.82	1,103.35	-1,040.01	1,529.25	1,504.40	24.85	61.542	
3,300.00	3,198.79	3,075.65	3,051.03	14.64	11.82	-98.03	1,119.54	-1,042.62	1,545.58	1,519.58	26.00	59.446	
3,400.00	3,289.27	3,183.05	3,157.31	15.38	12.28	-99.29	1,134.80	-1,045.01	1,561.75	1,534.59	27.16	57.496	
3,500.00	3,379.74	3,289.88	3,263.25	16.12	12.72	-100.55	1,148.43	-1,047.12	1,577.74	1,549.42	28.31	55.721	
3,600.00	3,470.21	3,392.77	3,365.43	16.87	13.14	-101.78	1,160.30	-1,048.79	1,593.57	1,564.13	29.44	54.123	
3,700.00	3,560.68	3,484.38	3,456.29	17.62	13.52	-102.82	1,171.99	-1,049.67	1,609.93	1,579.41	30.52	52.744	
3,800.00	3,651.16	3,580.56	3,551.45	18.39	13.92	-103.82	1,185.95	-1,049.96	1,626.91	1,595.28	31.63	51.436	
3,900.00	3,741.63	3,687.87	3,657.83	19.15	14.36	-104.96	1,200.06	-1,050.34	1,643.98	1,611.19	32.79	50.140	
4,000.00	3,832.10	3,795.36	3,764.66	19.92	14.79	-106.15	1,211.93	-1,050.48	1,660.70	1,626.78	33.93	48.952	
4,100.00	3,922.57	3,869.81	3,838.75	20.69	15.08	-106.99	1,219.16	-1,050.96	1,678.09	1,643.20	34.89	48.103	
4,200.00	4,013.05	3,944.63	3,913.24	21.47	15.37	-107.85	1,226.03	-1,052.60	1,697.27	1,661.44	35.83	47.370	
4,300.00	4,103.52	4,049.12	4,017.30	22.25	15.76	-109.05	1,234.95	-1,055.60	1,717.57	1,680.66	36.91	46.536	
4,400.00	4,193.99	4,133.61	4,101.56	23.03	16.08	-110.03	1,240.97	-1,057.64	1,737.73	1,699.86	37.87	45.886	
4,500.00	4,284.47	4,217.51	4,185.13	23.81	16.40	-110.97	1,247.79	-1,060.26	1,759.35	1,720.52	38.83	45.311	
4,600.00	4,374.94	4,359.22	4,325.72	24.60	16.97	-112.31	1,265.32	-1,061.62	1,780.58	1,740.46	40.13	44.373	
4,700.00	4,465.41	4,457.21	4,422.78	25.39	17.38	-113.15	1,278.71	-1,060.59	1,800.57	1,759.36	41.20	43.701	
4,800.00	4,555.88	4,523.27	4,488.23	26.18	17.66	-113.72	1,287.70	-1,060.33	1,821.53	1,779.43	42.09	43.273	
4,900.00	4,646.36	4,596.42	4,560.64	26.97	17.97	-114.33	1,298.07	-1,061.11	1,844.26	1,801.25	43.01	42.879	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,736.83	4,683.23	4,646.70	27.76	18.32	-115.07	1,309.30	-1,062.88	1,868.05	1,824.06	43.99	42.466	
5,100.00	4,827.30	4,772.67	4,735.55	28.55	18.69	-115.87	1,319.21	-1,065.07	1,892.32	1,847.36	44.96	42.087	
5,200.00	4,917.77	4,861.22	4,823.38	29.35	19.05	-116.61	1,330.25	-1,067.37	1,917.31	1,871.37	45.94	41.738	
5,300.00	5,008.25	4,950.51	4,911.37	30.15	19.45	-117.23	1,345.26	-1,069.23	1,942.71	1,895.77	46.95	41.380	
5,400.00	5,098.72	5,040.72	4,999.98	30.94	19.86	-117.78	1,362.07	-1,071.25	1,968.70	1,920.72	47.98	41.032	
5,500.00	5,189.19	5,140.50	5,098.26	31.74	20.30	-118.43	1,379.11	-1,073.60	1,994.82	1,945.76	49.06	40.661	
5,600.00	5,279.67	5,244.96	5,201.69	32.54	20.74	-119.18	1,393.57	-1,075.99	2,020.79	1,970.66	50.13	40.312	
5,700.00	5,370.14	5,344.87	5,301.02	33.34	21.14	-119.98	1,404.02	-1,078.11	2,046.62	1,995.49	51.12	40.033	
5,800.00	5,460.61	5,433.60	5,389.35	34.14	21.48	-120.70	1,412.33	-1,080.03	2,072.74	2,020.70	52.03	39.834	
5,900.00	5,551.08	5,514.70	5,469.78	34.94	21.82	-121.27	1,422.40	-1,081.93	2,099.54	2,046.62	52.92	39.671	
6,000.00	5,641.56	5,602.39	5,556.39	35.75	22.19	-121.81	1,435.92	-1,084.24	2,127.03	2,073.16	53.88	39.480	
6,100.00	5,732.03	5,696.22	5,649.35	36.55	22.59	-122.42	1,448.39	-1,086.92	2,154.86	2,100.01	54.85	39.289	
6,200.00	5,822.50	5,863.55	5,815.65	37.35	23.25	-123.58	1,466.70	-1,089.09	2,181.46	2,125.23	56.23	38.795	
6,300.00	5,912.97	5,987.90	5,938.96	38.16	23.76	-124.36	1,482.62	-1,087.30	2,205.67	2,148.30	57.36	38.451	
6,400.00	6,003.45	6,059.90	6,010.29	38.96	24.06	-124.78	1,492.33	-1,086.28	2,230.20	2,172.00	58.20	38.322	
6,500.00	6,093.92	6,122.84	6,072.69	39.77	24.32	-125.15	1,500.54	-1,086.14	2,256.06	2,197.10	58.96	38.266	
6,600.00	6,184.39	6,192.08	6,141.43	40.57	24.60	-125.57	1,508.89	-1,086.93	2,283.38	2,223.64	59.74	38.224	
6,700.00	6,274.87	6,272.42	6,221.12	41.38	24.93	-126.04	1,518.98	-1,088.46	2,311.65	2,251.07	60.58	38.157	
6,800.00	6,365.34	6,375.82	6,323.78	42.18	25.35	-126.66	1,531.08	-1,090.66	2,340.38	2,278.81	61.57	38.013	
6,900.00	6,455.81	6,465.47	6,412.80	42.99	25.71	-127.17	1,541.62	-1,091.92	2,368.62	2,306.16	62.46	37.925	
7,000.00	6,546.28	6,532.82	6,479.75	43.80	25.98	-127.57	1,548.74	-1,093.52	2,398.00	2,334.82	63.18	37.955	
7,100.00	6,636.76	6,606.72	6,553.32	44.61	26.27	-128.04	1,555.23	-1,095.87	2,428.44	2,364.52	63.92	37.991	
7,200.00	6,727.23	7,200.00	6,688.54	45.41	28.52	-128.88	1,566.33	-1,099.78	2,459.00	2,392.21	66.78	36.820	
7,300.00	6,817.70	6,881.95	6,827.49	46.22	27.30	-129.71	1,578.43	-1,100.04	2,486.87	2,420.69	66.18	37.577	
7,383.79	6,893.51	6,935.99	6,881.40	46.90	27.50	-130.05	1,582.21	-1,100.15	2,510.75	2,444.01	66.74	37.621	
7,400.00	6,908.25	6,946.41	6,891.80	47.03	27.54	-132.96	1,582.85	-1,100.22	2,515.48	2,448.63	66.84	37.632	
7,450.00	6,954.52	6,981.80	6,927.15	47.40	27.66	-143.64	1,584.59	-1,100.54	2,530.21	2,463.05	67.15	37.678	
7,500.00	7,001.74	7,018.58	6,963.92	47.72	27.77	-157.46	1,585.18	-1,100.91	2,545.02	2,477.59	67.43	37.744	
7,550.00	7,049.55	7,081.17	7,026.44	47.99	27.94	-174.59	1,582.87	-1,101.34	2,559.73	2,491.97	67.76	37.777	
7,600.00	7,097.58	7,600.00	7,080.00	48.21	29.16	166.59	1,576.18	-1,100.55	2,573.38	2,504.32	69.06	37.262	
7,650.00	7,145.48	7,162.24	7,106.60	48.37	28.11	149.03	1,571.11	-1,100.06	2,586.84	2,518.79	68.04	38.018	
7,700.00	7,192.88	7,179.19	7,123.13	48.48	28.14	134.67	1,567.39	-1,099.96	2,600.32	2,532.26	68.06	38.206	
7,750.00	7,239.41	7,196.09	7,139.51	48.54	28.16	123.65	1,563.25	-1,100.02	2,613.68	2,545.63	68.05	38.406	
7,800.00	7,284.72	7,224.00	7,166.32	48.56	28.21	115.33	1,555.50	-1,100.47	2,626.88	2,558.83	68.05	38.603	
7,850.00	7,328.47	7,224.00	7,166.32	48.54	28.21	108.86	1,555.50	-1,100.47	2,639.65	2,571.68	67.97	38.838	
7,900.00	7,370.32	7,224.00	7,166.32	48.47	28.21	103.70	1,555.50	-1,100.47	2,652.31	2,584.45	67.86	39.084	
7,950.00	7,409.96	7,259.04	7,199.51	48.37	28.24	99.78	1,544.33	-1,101.72	2,664.06	2,596.25	67.81	39.285	
8,000.00	7,447.08	7,273.61	7,213.15	48.24	28.25	96.47	1,539.27	-1,102.49	2,675.53	2,607.81	67.72	39.509	
8,050.00	7,481.41	7,313.00	7,249.50	48.07	28.29	93.99	1,524.38	-1,105.29	2,686.78	2,619.12	67.66	39.709	
8,100.00	7,512.67	7,313.00	7,249.50	47.87	28.29	91.60	1,524.38	-1,105.29	2,696.74	2,629.20	67.54	39.929	
8,150.00	7,540.64	7,313.00	7,249.50	47.65	28.29	89.55	1,524.38	-1,105.29	2,706.24	2,638.82	67.41	40.144	
8,200.00	7,565.09	7,334.70	7,269.23	47.40	28.30	88.10	1,515.55	-1,107.21	2,715.02	2,647.69	67.33	40.325	
8,250.00	7,585.85	7,352.43	7,285.23	47.14	28.31	86.90	1,508.11	-1,108.91	2,722.98	2,655.74	67.24	40.494	
8,300.00	7,602.75	7,369.25	7,300.31	46.86	28.32	85.95	1,500.87	-1,110.63	2,730.10	2,662.93	67.17	40.644	
8,350.00	7,615.67	7,402.00	7,329.39	46.58	28.34	85.51	1,486.25	-1,114.27	2,736.49	2,669.36	67.13	40.764	
8,400.00	7,624.51	7,402.00	7,329.39	46.28	28.34	84.76	1,486.25	-1,114.27	2,741.83	2,674.77	67.06	40.887	
8,450.00	7,629.19	7,440.21	7,362.82	45.98	28.36	84.88	1,468.27	-1,118.64	2,746.33	2,679.29	67.04	40.965	
8,481.00	7,630.00	7,748.72	7,597.77	45.79	28.40	89.56	1,273.62	-1,136.43	2,747.02	2,680.32	66.70	41.186	
8,500.00	7,630.00	7,787.01	7,619.39	45.68	28.39	90.01	1,242.02	-1,136.56	2,747.00	2,680.42	66.57	41.263	
8,600.00	7,630.00	7,935.59	7,693.62	45.11	28.45	91.56	1,113.41	-1,134.20	2,745.51	2,679.37	66.13	41.514	
8,700.00	7,630.00	8,243.22	7,785.86	44.56	29.04	93.50	822.95	-1,117.21	2,741.17	2,675.59	65.58	41.797	
8,800.00	7,630.00	8,293.00	7,789.70	44.05	29.19	93.59	773.43	-1,113.84	2,734.07	2,668.37	65.70	41.613	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
8,900.00	7,630.00	8,339.47	7,791.48	43.57	29.36	93.63	727.05	-1,111.68	2,728.82	2,662.92	65.90	41.406	
9,000.00	7,630.00	8,429.08	7,792.15	43.12	29.73	93.65	637.53	-1,107.83	2,724.26	2,658.06	66.19	41.156	
9,100.00	7,630.00	8,505.92	7,792.15	42.70	30.11	93.65	560.74	-1,105.02	2,720.28	2,653.67	66.61	40.839	
9,200.00	7,630.00	8,575.49	7,792.73	42.31	30.49	93.67	491.20	-1,103.18	2,717.36	2,650.24	67.13	40.480	
9,300.00	7,630.00	8,649.00	7,793.17	41.94	30.95	93.68	417.70	-1,102.06	2,715.53	2,647.76	67.77	40.072	
9,400.00	7,630.00	8,730.64	7,792.51	41.59	31.51	93.66	336.06	-1,101.57	2,714.52	2,645.96	68.56	39.592	
9,500.00	7,630.00	8,833.51	7,789.20	41.26	32.30	93.60	233.26	-1,101.37	2,713.79	2,644.19	69.60	38.990	
9,600.00	7,630.00	8,917.00	7,785.46	40.96	33.01	93.52	149.84	-1,101.28	2,713.11	2,642.43	70.67	38.389	
9,642.14	7,630.00	8,953.61	7,784.05	40.84	33.34	93.49	113.26	-1,101.38	2,712.98	2,641.80	71.19	38.111	
9,700.00	7,630.00	8,992.84	7,783.03	40.68	33.69	93.47	74.05	-1,101.71	2,713.18	2,641.38	71.80	37.788	
9,800.00	7,630.00	9,066.98	7,781.31	40.42	34.40	93.43	-0.06	-1,102.95	2,714.37	2,641.37	73.00	37.181	
9,900.00	7,630.00	9,306.37	7,763.18	40.17	36.91	93.05	-238.64	-1,103.44	2,714.29	2,638.35	75.94	35.742	
10,000.00	7,630.00	9,362.00	7,761.22	39.96	37.53	93.01	-294.22	-1,101.94	2,711.34	2,634.09	77.25	35.100	
10,100.00	7,630.00	9,416.93	7,761.14	40.05	38.17	93.01	-349.14	-1,101.28	2,710.03	2,631.43	78.60	34.479	
10,107.85	7,630.00	9,420.24	7,761.21	40.11	38.21	93.01	-352.45	-1,101.28	2,710.03	2,631.33	78.70	34.435	
10,200.00	7,630.00	9,466.47	7,762.91	40.95	38.75	93.04	-398.64	-1,101.84	2,710.91	2,630.98	79.93	33.917	
10,300.00	7,630.00	9,548.36	7,766.83	41.94	39.73	93.12	-480.42	-1,103.60	2,712.96	2,631.25	81.71	33.201	
10,400.00	7,630.00	9,649.33	7,770.56	42.98	40.98	93.20	-581.28	-1,106.14	2,715.34	2,631.51	83.83	32.390	
10,500.00	7,630.00	9,788.16	7,772.54	44.06	42.75	93.24	-720.07	-1,109.08	2,717.29	2,630.71	86.58	31.384	
10,600.00	7,630.00	9,916.30	7,775.66	45.17	44.45	93.30	-848.17	-1,109.66	2,717.51	2,628.20	89.31	30.428	
10,700.00	7,630.00	10,013.80	7,776.03	46.32	45.78	93.31	-945.66	-1,109.80	2,717.35	2,625.68	91.66	29.645	
10,707.07	7,630.00	10,019.79	7,776.06	46.40	45.86	93.31	-951.65	-1,109.82	2,717.35	2,625.53	91.82	29.594	
10,800.00	7,630.00	10,100.25	7,777.39	47.50	46.97	93.34	-1,032.10	-1,110.22	2,717.58	2,623.67	93.91	28.938	
10,900.00	7,630.00	10,198.96	7,779.44	48.70	48.36	93.38	-1,130.79	-1,111.01	2,718.16	2,621.75	96.41	28.193	
11,000.00	7,630.00	10,297.92	7,779.91	49.94	49.78	93.39	-1,229.74	-1,111.69	2,718.54	2,619.56	98.97	27.467	
11,100.00	7,630.00	10,383.60	7,781.74	51.20	51.02	93.43	-1,315.39	-1,112.58	2,719.37	2,618.00	101.36	26.828	
11,200.00	7,630.00	10,467.48	7,783.58	52.48	52.24	93.47	-1,399.25	-1,113.87	2,720.70	2,616.94	103.76	26.221	
11,300.00	7,630.00	10,551.85	7,783.49	53.79	53.49	93.46	-1,483.59	-1,115.87	2,722.71	2,616.52	106.20	25.639	
11,400.00	7,630.00	10,641.16	7,784.90	55.12	54.82	93.49	-1,572.86	-1,118.21	2,725.09	2,616.33	108.76	25.057	
11,500.00	7,630.00	10,699.00	7,786.06	56.46	55.68	93.51	-1,630.66	-1,120.00	2,728.19	2,617.44	110.75	24.634	
11,600.00	7,630.00	10,768.36	7,786.21	57.83	56.73	93.51	-1,699.94	-1,123.14	2,732.55	2,619.59	112.96	24.190	
11,700.00	7,630.00	11,144.00	7,785.27	59.22	62.54	93.50	-2,075.19	-1,120.11	2,727.50	2,606.43	121.07	22.527	
11,800.00	7,630.00	11,204.77	7,786.38	60.62	63.50	93.53	-2,135.90	-1,117.56	2,723.22	2,599.88	123.34	22.079	
11,900.00	7,630.00	11,275.43	7,788.05	62.04	64.63	93.56	-2,206.51	-1,115.90	2,720.60	2,594.81	125.79	21.629	
12,000.00	7,630.00	11,364.35	7,790.04	63.48	66.04	93.61	-2,295.39	-1,114.17	2,718.48	2,589.88	128.59	21.140	
12,100.00	7,630.00	11,472.34	7,789.41	64.93	67.77	93.60	-2,403.37	-1,112.65	2,716.71	2,584.93	131.78	20.615	
12,200.00	7,630.00	11,569.99	7,791.61	66.39	69.34	93.65	-2,500.96	-1,110.61	2,714.44	2,579.63	134.80	20.136	
12,300.00	7,630.00	11,655.63	7,797.06	67.86	70.73	93.76	-2,586.41	-1,108.99	2,712.62	2,575.01	137.61	19.712	
12,400.00	7,630.00	11,738.73	7,803.66	69.35	72.09	93.91	-2,669.24	-1,107.80	2,711.39	2,571.00	140.38	19.314	
12,500.00	7,630.00	11,827.89	7,810.90	70.85	73.54	94.06	-2,758.10	-1,107.02	2,710.73	2,567.44	143.29	18.918	
12,600.00	7,630.00	11,932.46	7,816.33	72.36	75.25	94.18	-2,862.52	-1,106.44	2,710.22	2,563.70	146.52	18.497	
12,700.00	7,630.00	12,063.16	7,819.39	73.88	77.40	94.24	-2,993.17	-1,105.03	2,708.97	2,558.67	150.30	18.023	
12,800.00	7,630.00	12,181.16	7,818.30	75.41	79.34	94.22	-3,111.14	-1,103.01	2,706.86	2,553.01	153.84	17.595	
12,900.00	7,630.00	12,247.98	7,815.72	76.95	80.45	94.17	-3,177.91	-1,101.93	2,704.75	2,548.40	156.35	17.299	
12,963.62	7,630.00	12,278.35	7,814.32	77.93	80.95	94.14	-3,208.24	-1,101.95	2,704.36	2,546.68	157.68	17.151	
13,000.00	7,630.00	12,302.00	7,813.17	78.49	81.34	94.12	-3,231.86	-1,102.22	2,704.51	2,545.94	158.57	17.056	
13,100.00	7,630.00	12,408.73	7,808.82	80.05	83.10	94.02	-3,338.49	-1,103.34	2,704.93	2,543.01	161.92	16.706	
13,200.00	7,630.00	12,486.73	7,807.73	81.61	84.39	94.00	-3,416.48	-1,104.25	2,705.63	2,540.98	164.65	16.433	
13,300.00	7,630.00	12,648.92	7,806.88	83.18	87.09	93.98	-3,578.65	-1,104.52	2,705.37	2,536.14	169.23	15.986	
13,400.00	7,630.00	12,736.14	7,804.96	84.76	88.55	93.94	-3,665.85	-1,103.98	2,704.27	2,532.06	172.21	15.704	
13,464.16	7,630.00	12,769.49	7,804.95	85.78	89.10	93.94	-3,699.20	-1,103.97	2,704.08	2,530.46	173.62	15.574	
13,500.00	7,630.00	12,784.94	7,805.07	86.34	89.36	93.95	-3,714.65	-1,104.12	2,704.34	2,530.01	174.33	15.513	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 177-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			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
13,600.00	7,630.00	12,837.00	7,806.04	87.94	90.23	93.96	-3,766.68	-1,105.47	2,706.53	2,530.05	176.48	15.336	
13,700.00	7,630.00	12,906.77	7,807.88	89.53	91.39	94.00	-3,836.37	-1,108.25	2,710.24	2,531.23	179.01	15.140	
13,800.00	7,630.00	12,984.85	7,809.43	91.13	92.68	94.03	-3,914.35	-1,111.81	2,714.60	2,532.86	181.74	14.937	
13,900.00	7,630.00	13,192.44	7,811.40	92.74	96.16	94.06	-4,121.82	-1,117.78	2,716.96	2,529.40	187.56	14.486	
14,000.00	7,630.00	13,287.21	7,812.62	94.35	97.75	94.09	-4,216.58	-1,118.92	2,717.92	2,527.18	190.74	14.249	
14,100.00	7,630.00	13,566.48	7,820.54	95.97	102.51	94.27	-4,495.34	-1,109.70	2,712.40	2,514.58	197.82	13.711	
14,200.00	7,630.00	13,618.98	7,822.92	97.60	103.40	94.32	-4,547.73	-1,107.24	2,707.72	2,507.49	200.23	13.523	
14,300.00	7,630.00	13,669.15	7,824.72	99.22	104.26	94.36	-4,597.85	-1,105.80	2,704.82	2,502.29	202.53	13.355	
14,400.00	7,630.00	13,728.00	7,825.86	100.85	105.26	94.39	-4,656.68	-1,105.43	2,703.83	2,498.87	204.97	13.192	
14,412.07	7,630.00	13,728.00	7,825.86	101.05	105.26	94.39	-4,656.68	-1,105.43	2,703.81	2,498.71	205.10	13.183	
14,500.00	7,630.00	13,799.83	7,826.12	102.49	106.48	94.39	-4,728.50	-1,105.98	2,704.18	2,496.52	207.66	13.022	
14,600.00	7,630.00	13,949.45	7,825.23	104.13	109.03	94.38	-4,878.11	-1,104.88	2,702.67	2,490.55	212.12	12.741	
14,700.00	7,630.00	14,015.46	7,825.67	105.77	110.16	94.39	-4,944.12	-1,104.89	2,702.29	2,487.57	214.71	12.585	
14,734.14	7,630.00	14,072.18	7,825.87	106.34	111.13	94.39	-5,000.84	-1,104.84	2,702.15	2,485.78	216.37	12.489	
14,800.00	7,630.00	14,130.30	7,826.21	107.42	112.12	94.40	-5,058.96	-1,104.55	2,701.64	2,483.24	218.41	12.370	
14,857.02	7,630.00	14,173.00	7,827.30	108.36	112.85	94.42	-5,101.64	-1,104.47	2,701.47	2,481.47	220.00	12.280	
14,900.00	7,630.00	14,196.74	7,828.00	109.07	113.26	94.44	-5,125.37	-1,104.57	2,701.61	2,480.62	220.99	12.225	
15,000.00	7,630.00	14,263.00	7,828.82	110.72	114.39	94.45	-5,191.61	-1,105.96	2,703.29	2,479.75	223.54	12.093	
15,100.00	7,630.00	14,462.13	7,825.83	112.38	117.79	94.39	-5,390.68	-1,106.30	2,702.59	2,473.39	229.20	11.791	
15,200.00	7,630.00	14,530.00	7,824.70	114.04	118.96	94.37	-5,458.54	-1,105.94	2,701.57	2,469.70	231.87	11.651	
15,300.00	7,630.00	14,648.41	7,825.68	115.71	120.99	94.39	-5,576.93	-1,104.83	2,700.29	2,464.63	235.66	11.458	
15,374.20	7,630.00	14,692.76	7,826.68	116.94	121.75	94.41	-5,621.27	-1,104.62	2,699.81	2,462.31	237.50	11.368	
15,400.00	7,630.00	14,708.00	7,827.07	117.37	122.02	94.42	-5,636.51	-1,104.65	2,699.84	2,461.71	238.12	11.338	
15,500.00	7,630.00	14,785.03	7,828.75	119.04	123.34	94.45	-5,713.52	-1,105.34	2,700.56	2,459.60	240.96	11.208	
15,600.00	7,630.00	14,897.96	7,828.86	120.71	125.27	94.46	-5,826.43	-1,106.85	2,701.58	2,456.92	244.65	11.042	
15,700.00	7,630.00	14,954.49	7,828.71	122.39	126.24	94.45	-5,882.95	-1,108.01	2,703.17	2,456.19	246.98	10.945	
15,800.00	7,630.00	15,041.30	7,829.44	124.06	127.73	94.46	-5,969.72	-1,110.60	2,705.85	2,455.82	250.03	10.822	
15,900.00	7,630.00	15,177.31	7,829.35	125.74	130.06	94.46	-6,105.68	-1,114.16	2,708.18	2,453.86	254.32	10.649	
16,000.00	7,630.00	15,337.91	7,829.50	127.42	132.82	94.46	-6,266.27	-1,115.04	2,708.33	2,449.18	259.15	10.451	
16,036.81	7,630.00	15,353.04	7,829.51	128.04	133.08	94.46	-6,281.40	-1,115.06	2,708.21	2,448.30	259.91	10.420	
16,100.00	7,630.00	15,385.59	7,829.87	129.10	133.65	94.47	-6,313.95	-1,115.32	2,708.57	2,447.24	261.33	10.365	
16,200.00	7,630.00	15,455.73	7,832.06	130.79	134.85	94.51	-6,384.03	-1,116.81	2,710.49	2,446.50	263.99	10.267	
16,300.00	7,630.00	15,555.88	7,835.04	132.48	136.58	94.57	-6,484.11	-1,119.05	2,712.62	2,445.23	267.39	10.145	
16,400.00	7,630.00	15,679.17	7,836.82	134.17	138.70	94.60	-6,607.35	-1,121.85	2,714.72	2,443.35	271.37	10.004	
16,500.00	7,630.00	15,775.68	7,839.44	135.86	140.36	94.66	-6,703.82	-1,123.29	2,716.09	2,441.40	274.69	9.888	
16,600.00	7,630.00	15,848.45	7,840.08	137.55	141.62	94.67	-6,776.56	-1,124.94	2,718.09	2,440.68	277.42	9.798	
16,700.00	7,630.00	16,071.36	7,841.78	139.24	145.48	94.70	-6,999.42	-1,125.13	2,717.37	2,433.63	283.74	9.577	
16,800.00	7,630.00	16,134.00	7,843.38	140.94	146.57	94.74	-7,062.03	-1,124.36	2,716.02	2,429.68	286.34	9.485	
16,870.15	7,630.00	16,186.71	7,845.07	142.13	147.48	94.77	-7,114.72	-1,124.21	2,715.78	2,427.45	288.33	9.419	
16,900.00	7,630.00	16,208.65	7,845.73	142.64	147.86	94.79	-7,136.65	-1,124.26	2,715.82	2,426.66	289.17	9.392	
17,000.00	7,630.00	16,287.77	7,847.21	144.34	149.23	94.82	-7,215.75	-1,124.96	2,716.52	2,424.43	292.09	9.300	
17,100.00	7,630.00	16,373.75	7,847.24	146.04	150.72	94.82	-7,301.71	-1,126.42	2,717.87	2,422.70	295.17	9.208	
17,200.00	7,630.00	16,505.34	7,849.13	147.74	153.00	94.86	-7,433.27	-1,128.16	2,719.00	2,419.64	299.36	9.083	
17,300.00	7,630.00	16,611.55	7,853.24	149.44	154.84	94.94	-7,539.40	-1,128.61	2,719.43	2,416.50	302.93	8.977	
17,400.00	7,630.00	16,717.54	7,857.29	151.15	156.68	95.03	-7,645.31	-1,128.48	2,719.30	2,412.80	306.49	8.872	
17,500.00	7,630.00	16,833.51	7,859.55	152.86	158.70	95.08	-7,761.25	-1,128.56	2,719.23	2,408.94	310.30	8.763	
17,600.00	7,630.00	16,932.18	7,862.13	154.56	160.42	95.13	-7,859.90	-1,128.01	2,718.57	2,404.87	313.70	8.666	
17,655.80	7,630.00	16,972.66	7,863.06	155.52	161.12	95.15	-7,900.36	-1,127.94	2,718.40	2,403.15	315.26	8.623	
17,700.00	7,630.00	17,003.98	7,863.32	156.27	161.67	95.16	-7,931.68	-1,128.09	2,718.51	2,402.04	316.47	8.590	
17,800.00	7,630.00	17,124.55	7,864.53	157.98	163.77	95.18	-8,052.23	-1,128.80	2,718.90	2,398.50	320.40	8.486	
17,900.00	7,630.00	17,257.61	7,869.03	159.70	166.09	95.28	-8,185.21	-1,127.30	2,717.66	2,393.09	324.58	8.373	
18,000.00	7,630.00	17,356.55	7,869.67	161.41	167.82	95.30	-8,284.14	-1,126.11	2,716.19	2,388.19	328.00	8.281	

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

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

Offset Site Error: 0.00 usft

Survey Program: 177-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,100.00	7,630.00	17,474.70	7,867.14	163.12	169.88	95.25	-8,402.25	-1,124.51	2,714.28	2,382.42	331.86	8.179	
18,153.97	7,630.00	17,471.00	7,867.23	164.05	169.81	95.25	-8,398.55	-1,124.57	2,713.75	2,381.32	332.42	8.163	
18,154.00	7,630.00	17,471.00	7,867.23	164.05	169.81	95.25	-8,398.55	-1,124.57	2,713.75	2,381.32	332.43	8.163	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-52.11	786.52	-1,010.78	1,280.78				
100.00	100.00	88.02	88.02	0.13	0.15	-52.11	786.55	-1,010.79	1,280.77	1,280.49	0.28	4,561.375	CC
200.00	200.00	186.93	186.93	0.49	0.31	-52.11	786.68	-1,010.85	1,280.89	1,280.09	0.80	1,593.766	
300.00	300.00	285.83	285.83	0.85	0.48	-52.10	786.89	-1,010.94	1,281.09	1,279.77	1.33	965.706	
400.00	400.00	382.06	382.05	1.21	0.76	-52.09	787.26	-1,011.08	1,281.45	1,279.49	1.97	651.092	ES
500.00	500.00	476.99	476.98	1.57	1.10	-52.07	788.06	-1,011.35	1,282.19	1,279.53	2.67	480.774	
600.00	600.00	571.91	571.90	1.93	1.44	-52.04	789.31	-1,011.75	1,283.33	1,279.96	3.37	381.309	
700.00	700.00	674.59	674.56	2.29	1.81	-51.99	790.92	-1,012.15	1,284.60	1,280.51	4.09	313.941	
800.00	800.00	764.45	764.41	2.64	2.13	-51.96	792.32	-1,012.78	1,286.12	1,281.35	4.77	269.520	
900.00	900.00	864.74	864.67	3.00	2.49	-51.92	794.36	-1,013.67	1,288.07	1,282.58	5.49	234.639	
1,000.00	1,000.00	971.75	971.67	3.36	2.87	-51.86	796.25	-1,014.19	1,289.53	1,283.30	6.23	206.939	
1,100.00	1,100.00	1,068.74	1,068.58	3.72	3.22	-51.72	799.79	-1,013.26	1,291.04	1,284.10	6.94	186.130	
1,200.00	1,200.00	1,179.44	1,179.16	4.08	3.61	-51.49	804.74	-1,011.18	1,292.35	1,284.66	7.69	168.045	
1,300.00	1,300.00	1,283.76	1,283.33	4.44	3.99	-51.24	809.41	-1,008.19	1,292.92	1,284.49	8.42	153.507	
1,400.00	1,400.00	1,370.03	1,369.39	4.79	4.30	-50.98	814.54	-1,005.18	1,293.93	1,284.84	9.09	142.302	
1,500.00	1,499.98	1,460.21	1,459.13	5.15	4.63	-88.44	822.36	-1,001.02	1,295.80	1,286.02	9.78	132.484	
1,600.00	1,599.84	1,553.25	1,551.38	5.51	4.98	-88.08	832.96	-995.38	1,298.23	1,287.74	10.49	123.801	
1,700.00	1,699.45	1,643.28	1,640.31	5.87	5.34	-87.76	845.41	-988.79	1,301.17	1,289.97	11.19	116.254	
1,800.00	1,798.70	1,724.00	1,719.87	6.23	5.66	-87.53	857.81	-983.17	1,305.24	1,293.36	11.87	109.943	
1,900.00	1,897.47	1,804.00	1,798.71	6.60	5.99	-87.42	870.61	-978.72	1,310.65	1,298.09	12.56	104.358	
2,000.00	1,995.62	1,885.64	1,879.18	6.99	6.32	-87.43	883.96	-975.37	1,317.26	1,304.00	13.27	99.289	
2,100.00	2,093.06	1,965.07	1,957.48	7.39	6.65	-87.55	897.13	-973.43	1,325.18	1,311.20	13.98	94.783	
2,200.00	2,189.64	2,064.74	2,055.76	7.82	7.06	-87.92	913.66	-972.29	1,334.02	1,319.20	14.82	90.044	
2,300.00	2,285.27	2,192.73	2,181.84	8.28	7.60	-88.56	935.24	-967.97	1,341.27	1,325.45	15.82	84.760	
2,400.00	2,379.82	2,286.20	2,273.75	8.77	8.01	-89.07	951.66	-963.48	1,348.00	1,331.28	16.71	80.651	
2,500.00	2,473.17	2,384.01	2,369.95	9.31	8.43	-89.76	968.75	-958.98	1,355.01	1,337.35	17.67	76.703	
2,600.00	2,565.21	2,479.87	2,464.35	9.88	8.85	-90.58	984.91	-955.08	1,362.42	1,343.77	18.65	73.048	
2,660.67	2,620.37	2,537.59	2,521.23	10.25	9.10	-91.13	994.48	-952.88	1,367.18	1,347.92	19.27	70.955	
2,700.00	2,655.96	2,580.96	2,563.98	10.50	9.29	-91.64	1,001.61	-951.25	1,370.38	1,350.67	19.70	69.545	
2,800.00	2,746.43	2,727.71	2,708.55	11.15	9.93	-93.29	1,025.10	-942.33	1,376.81	1,355.80	21.01	65.539	
2,900.00	2,836.90	2,802.12	2,781.56	11.82	10.26	-94.05	1,037.94	-935.93	1,382.43	1,360.43	22.00	62.832	
3,000.00	2,927.37	2,881.49	2,859.62	12.50	10.61	-94.90	1,051.48	-931.08	1,390.31	1,367.28	23.03	60.377	
3,100.00	3,017.85	2,973.36	2,950.27	13.21	11.01	-95.95	1,065.79	-926.93	1,399.28	1,375.17	24.11	58.032	
3,200.00	3,108.32	3,112.21	3,087.74	13.92	11.60	-97.63	1,084.20	-920.81	1,407.99	1,382.58	25.41	55.414	
3,300.00	3,198.79	3,220.83	3,195.11	14.64	12.06	-98.86	1,098.47	-912.56	1,414.34	1,387.77	26.58	53.215	
3,400.00	3,289.27	3,299.66	3,272.83	15.38	12.40	-99.70	1,110.18	-906.50	1,421.95	1,394.32	27.63	51.468	
3,500.00	3,379.74	3,390.46	3,362.53	16.12	12.79	-100.70	1,122.93	-900.59	1,430.72	1,401.99	28.73	49.799	
3,600.00	3,470.21	3,482.44	3,453.22	16.87	13.20	-101.66	1,136.92	-894.34	1,440.25	1,410.41	29.84	48.266	
3,700.00	3,560.68	3,570.97	3,540.63	17.62	13.58	-102.60	1,149.94	-888.97	1,450.68	1,419.75	30.93	46.903	
3,800.00	3,651.16	3,676.56	3,645.19	18.39	14.02	-103.79	1,163.61	-883.65	1,461.88	1,429.80	32.08	45.567	
3,900.00	3,741.63	3,768.98	3,736.69	19.15	14.42	-104.81	1,175.27	-878.00	1,472.53	1,439.36	33.17	44.393	
4,000.00	3,832.10	3,842.06	3,808.80	19.92	14.73	-105.55	1,186.37	-873.94	1,485.05	1,450.88	34.17	43.460	
4,100.00	3,922.57	3,919.15	3,884.69	20.69	15.08	-106.28	1,199.45	-870.25	1,499.28	1,464.09	35.19	42.607	
4,200.00	4,013.05	3,998.93	3,963.46	21.47	15.42	-107.08	1,211.81	-867.92	1,515.12	1,478.92	36.20	41.852	
4,300.00	4,103.52	4,107.29	4,070.63	22.25	15.89	-108.18	1,227.56	-864.93	1,531.27	1,493.91	37.36	40.986	
4,400.00	4,193.99	4,218.28	4,179.97	23.03	16.38	-109.19	1,246.11	-860.43	1,547.33	1,508.78	38.55	40.137	
4,500.00	4,284.47	4,309.52	4,269.73	23.81	16.79	-109.98	1,261.76	-855.69	1,562.80	1,523.16	39.63	39.430	
4,600.00	4,374.94	4,400.62	4,359.33	24.60	17.21	-110.74	1,277.71	-851.77	1,579.47	1,538.76	40.71	38.796	
4,700.00	4,465.41	4,495.25	4,452.40	25.39	17.63	-111.52	1,294.32	-847.43	1,596.24	1,554.43	41.80	38.183	
4,800.00	4,555.88	4,584.05	4,539.96	26.18	18.03	-112.28	1,308.76	-844.37	1,614.05	1,571.21	42.84	37.672	
4,900.00	4,646.36	4,725.18	4,679.26	26.97	18.65	-113.50	1,330.37	-837.70	1,630.85	1,586.68	44.16	36.928	
5,000.00	4,736.83	4,839.16	4,791.54	27.76	19.16	-114.42	1,348.36	-830.01	1,646.17	1,600.84	45.33	36.314	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,827.30	4,965.96	4,915.68	28.55	19.76	-115.30	1,371.31	-818.20	1,659.63	1,613.04	46.59	35.620	
5,200.00	4,917.77	5,052.35	5,000.26	29.35	20.16	-115.89	1,386.89	-810.04	1,673.33	1,625.69	47.64	35.126	
5,300.00	5,008.25	5,132.06	5,078.57	30.15	20.53	-116.47	1,400.18	-803.37	1,688.08	1,639.46	48.62	34.719	
5,400.00	5,098.72	5,257.23	5,202.00	30.94	21.09	-117.45	1,418.61	-793.82	1,703.68	1,653.88	49.80	34.209	
5,500.00	5,189.19	5,342.04	5,285.58	31.74	21.46	-118.11	1,430.78	-786.19	1,718.05	1,667.27	50.78	33.836	
5,600.00	5,279.67	5,427.82	5,370.15	32.54	21.84	-118.76	1,443.38	-779.21	1,733.56	1,681.81	51.75	33.500	
5,700.00	5,370.14	5,509.02	5,450.02	33.34	22.21	-119.32	1,456.58	-772.96	1,749.95	1,697.25	52.70	33.206	
5,800.00	5,460.61	5,590.42	5,530.26	34.14	22.57	-119.90	1,469.18	-767.54	1,767.49	1,713.86	53.63	32.956	
5,900.00	5,551.08	5,669.40	5,608.30	34.94	22.92	-120.49	1,480.42	-763.03	1,786.09	1,731.56	54.53	32.754	
6,000.00	5,641.56	5,743.15	5,680.99	35.75	23.25	-120.99	1,492.38	-759.47	1,805.97	1,750.58	55.39	32.602	
6,100.00	5,732.03	5,815.33	5,752.24	36.55	23.57	-121.48	1,503.66	-757.06	1,827.42	1,771.19	56.23	32.497	
6,200.00	5,822.50	5,908.49	5,844.01	37.35	23.98	-122.07	1,519.43	-754.34	1,849.60	1,792.39	57.22	32.327	
6,300.00	5,912.97	6,035.23	5,969.05	38.16	24.54	-122.89	1,539.80	-751.01	1,872.50	1,814.10	58.40	32.062	
6,400.00	6,003.45	6,146.10	6,078.69	38.96	25.02	-123.65	1,555.15	-745.03	1,892.50	1,833.05	59.45	31.836	
6,500.00	6,093.92	6,218.09	6,149.95	39.77	25.32	-124.14	1,564.86	-741.77	1,913.68	1,853.44	60.24	31.768	
6,600.00	6,184.39	6,305.13	6,236.26	40.57	25.68	-124.76	1,575.64	-738.78	1,936.10	1,874.99	61.10	31.686	
6,700.00	6,274.87	6,395.33	6,325.62	41.38	26.06	-125.37	1,587.50	-735.70	1,958.82	1,896.83	61.99	31.599	
6,800.00	6,365.34	6,512.66	6,441.46	42.18	26.57	-126.06	1,605.67	-731.56	1,981.70	1,918.62	63.08	31.414	
6,900.00	6,455.81	6,624.61	6,551.63	42.99	27.08	-126.64	1,624.78	-725.96	2,003.22	1,939.06	64.16	31.221	
7,000.00	6,546.28	6,694.00	6,620.00	43.80	27.39	-127.01	1,636.21	-722.97	2,025.58	1,960.63	64.95	31.187	
7,100.00	6,636.76	6,787.55	6,712.57	44.61	27.79	-127.57	1,649.22	-719.51	2,048.81	1,982.96	65.85	31.113	
7,200.00	6,727.23	7,140.00	7,060.46	45.41	29.04	-130.55	1,662.57	-679.94	2,063.15	1,995.80	67.35	30.632	
7,300.00	6,817.70	7,140.00	7,060.46	46.22	29.04	-130.55	1,662.57	-679.94	2,077.47	2,009.57	67.91	30.593	
7,383.79	6,893.51	7,140.00	7,060.46	46.90	29.04	-130.55	1,662.57	-679.94	2,093.08	2,024.82	68.26	30.662	
7,400.00	6,908.25	7,173.52	7,093.31	47.03	29.10	-133.67	1,657.48	-675.64	2,095.38	2,027.05	68.33	30.667	
7,450.00	6,954.52	7,184.22	7,103.76	47.40	29.12	-143.82	1,655.46	-674.59	2,105.73	2,037.24	68.49	30.743	
7,500.00	7,001.74	7,195.10	7,114.37	47.72	29.13	-157.22	1,653.21	-673.69	2,116.84	2,048.21	68.62	30.847	
7,550.00	7,049.55	7,229.00	7,147.18	47.99	29.19	-174.16	1,644.93	-671.92	2,129.09	2,060.37	68.73	30.979	
7,600.00	7,097.58	7,229.00	7,147.18	48.21	29.19	167.39	1,644.93	-671.92	2,140.97	2,072.19	68.78	31.127	
7,650.00	7,145.48	7,229.00	7,147.18	48.37	29.19	150.00	1,644.93	-671.92	2,153.50	2,084.70	68.80	31.302	
7,700.00	7,192.88	7,229.00	7,147.18	48.48	29.19	135.68	1,644.93	-671.92	2,166.58	2,097.80	68.78	31.501	
7,750.00	7,239.41	7,263.00	7,179.68	48.54	29.21	124.66	1,634.95	-671.36	2,179.36	2,110.59	68.77	31.692	
7,800.00	7,284.72	7,280.40	7,196.13	48.56	29.23	116.31	1,629.29	-671.38	2,192.27	2,123.54	68.73	31.897	
7,850.00	7,328.47	7,318.00	7,231.21	48.54	29.25	109.95	1,615.78	-672.17	2,205.29	2,136.60	68.69	32.103	
7,900.00	7,370.32	7,318.00	7,231.21	48.47	29.25	104.83	1,615.78	-672.17	2,217.57	2,148.95	68.62	32.315	
7,950.00	7,409.96	7,340.63	7,252.00	48.37	29.25	100.80	1,606.90	-673.00	2,229.72	2,161.16	68.56	32.524	
8,000.00	7,447.08	7,368.31	7,277.13	48.24	29.26	97.57	1,595.36	-674.17	2,241.27	2,172.78	68.49	32.725	
8,050.00	7,481.41	7,408.00	7,312.55	48.07	29.26	95.07	1,577.55	-676.16	2,252.21	2,183.79	68.42	32.916	
8,100.00	7,512.67	7,440.15	7,340.58	47.87	29.25	92.99	1,561.90	-677.82	2,262.25	2,193.91	68.34	33.103	
8,150.00	7,540.64	7,507.36	7,396.71	47.65	29.22	91.69	1,525.11	-680.65	2,271.04	2,202.84	68.20	33.301	
8,200.00	7,565.09	7,586.00	7,456.15	47.40	29.15	90.81	1,473.75	-681.92	2,277.61	2,209.69	67.92	33.535	
8,250.00	7,585.85	7,612.21	7,474.11	47.14	29.12	89.78	1,454.68	-682.14	2,283.20	2,215.40	67.80	33.677	
8,300.00	7,602.75	7,628.54	7,484.84	46.86	29.09	88.91	1,442.37	-682.53	2,288.29	2,220.56	67.73	33.786	
8,350.00	7,615.67	7,644.70	7,495.08	46.58	29.07	88.27	1,429.89	-683.11	2,292.81	2,225.13	67.67	33.880	
8,400.00	7,624.51	7,675.00	7,513.28	46.28	29.03	88.00	1,405.72	-684.70	2,296.86	2,229.30	67.56	33.997	
8,450.00	7,629.19	7,683.70	7,518.28	45.98	29.02	87.68	1,398.62	-685.25	2,300.07	2,232.50	67.56	34.042	
8,481.00	7,630.00	7,747.49	7,552.59	45.79	28.92	88.35	1,344.97	-688.62	2,301.46	2,234.20	67.26	34.216	
8,500.00	7,630.00	8,500.00	7,551.67	45.68	27.90	88.32	1,345.08	-688.43	2,301.97	2,235.54	66.43	34.651	
8,600.00	7,630.00	8,018.67	7,661.17	45.11	28.72	91.05	1,097.20	-690.30	2,301.30	2,235.25	66.05	34.840	
8,700.00	7,630.00	8,147.71	7,689.17	44.56	28.79	91.75	971.39	-685.98	2,298.03	2,232.28	65.75	34.953	
8,800.00	7,630.00	8,240.85	7,700.83	44.05	28.93	92.04	879.07	-682.84	2,294.70	2,228.98	65.72	34.915	
8,900.00	7,630.00	8,391.10	7,700.16	43.57	29.34	92.03	728.99	-677.29	2,290.81	2,225.09	65.72	34.858	

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

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

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			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
9,000.00	7,630.00	8,503.20	7,698.46	43.12	29.84	92.00	617.10	-670.96	2,284.74	2,218.68	66.06	34.586	
9,100.00	7,630.00	8,566.00	7,698.30	42.70	30.16	92.00	554.38	-667.79	2,279.42	2,212.91	66.51	34.270	
9,200.00	7,630.00	8,628.26	7,698.68	42.31	30.54	92.01	492.15	-665.65	2,275.75	2,208.68	67.07	33.932	
9,300.00	7,630.00	8,716.80	7,700.57	41.94	31.13	92.06	403.65	-664.03	2,273.61	2,205.81	67.81	33.531	
9,400.00	7,630.00	8,785.84	7,702.77	41.59	31.64	92.11	334.65	-662.88	2,271.84	2,203.25	68.59	33.124	
9,442.33	7,630.00	8,808.93	7,703.62	41.45	31.82	92.13	311.59	-662.83	2,271.66	2,202.74	68.92	32.963	
9,500.00	7,630.00	8,833.00	7,704.58	41.26	32.00	92.16	287.53	-662.98	2,272.02	2,202.70	69.31	32.780	
9,600.00	7,630.00	8,901.94	7,706.92	40.96	32.57	92.22	218.65	-664.41	2,273.97	2,203.73	70.24	32.373	
9,700.00	7,630.00	8,988.39	7,709.11	40.68	33.33	92.27	132.28	-667.52	2,277.30	2,205.92	71.39	31.901	
9,800.00	7,630.00	9,132.97	7,711.65	40.42	34.70	92.33	-12.20	-671.58	2,279.87	2,206.69	73.19	31.150	
9,900.00	7,630.00	9,259.61	7,713.07	40.17	36.00	92.36	-138.83	-673.06	2,280.74	2,205.70	75.04	30.393	
10,000.00	7,630.00	9,365.80	7,713.34	39.96	37.17	92.37	-245.02	-673.54	2,280.87	2,204.03	76.84	29.685	
10,100.00	7,630.00	9,499.60	7,710.67	40.05	38.72	92.30	-378.79	-673.30	2,280.30	2,201.19	79.11	28.824	
10,200.00	7,630.00	9,584.44	7,708.63	40.95	39.75	92.25	-463.60	-672.29	2,278.75	2,197.87	80.88	28.173	
10,239.68	7,630.00	9,606.59	7,708.16	41.33	40.02	92.24	-485.74	-672.29	2,278.60	2,197.14	81.46	27.974	
10,300.00	7,630.00	9,649.32	7,707.33	41.94	40.55	92.22	-528.46	-672.73	2,278.93	2,196.48	82.44	27.642	
10,400.00	7,630.00	9,777.77	7,705.21	42.98	42.19	92.17	-656.89	-673.34	2,278.98	2,193.97	85.01	26.809	
10,500.00	7,630.00	9,904.08	7,703.89	44.06	43.85	92.14	-783.19	-672.53	2,277.97	2,190.31	87.67	25.984	
10,565.09	7,630.00	9,932.03	7,703.69	44.78	44.23	92.13	-811.14	-672.44	2,277.47	2,188.88	88.59	25.708	
10,600.00	7,630.00	9,948.09	7,703.57	45.17	44.44	92.13	-827.20	-672.56	2,277.62	2,188.52	89.09	25.565	
10,700.00	7,630.00	10,000.07	7,703.19	46.32	45.14	92.12	-879.16	-673.85	2,279.62	2,188.98	90.64	25.150	
10,800.00	7,630.00	10,120.96	7,702.16	47.50	46.80	92.09	-1,000.00	-677.40	2,282.21	2,188.77	93.44	24.425	
10,900.00	7,630.00	10,264.30	7,705.79	48.70	48.82	92.18	-1,143.27	-679.34	2,283.32	2,186.57	96.75	23.600	
11,000.00	7,630.00	10,419.24	7,710.86	49.94	51.07	92.31	-1,298.11	-677.89	2,282.14	2,181.75	100.40	22.731	
11,100.00	7,630.00	10,504.78	7,713.05	51.20	52.33	92.36	-1,383.60	-676.25	2,280.03	2,177.22	102.81	22.177	
11,200.00	7,630.00	10,622.78	7,713.37	52.48	54.09	92.37	-1,501.59	-674.46	2,278.22	2,172.33	105.88	21.517	
11,300.00	7,630.00	10,681.17	7,713.42	53.79	54.97	92.38	-1,559.98	-673.87	2,276.80	2,168.96	107.84	21.114	
11,400.00	7,630.00	10,773.03	7,713.83	55.12	56.36	92.39	-1,651.83	-673.99	2,276.60	2,166.12	110.47	20.608	
11,500.00	7,630.00	10,896.50	7,715.35	56.46	58.25	92.43	-1,775.30	-673.20	2,275.63	2,161.83	113.80	19.997	
11,579.89	7,630.00	10,947.16	7,716.02	57.56	59.03	92.44	-1,825.95	-673.02	2,275.11	2,159.62	115.49	19.699	
11,600.00	7,630.00	10,959.92	7,716.14	57.83	59.23	92.45	-1,838.70	-673.07	2,275.15	2,159.23	115.92	19.627	
11,700.00	7,630.00	11,073.24	7,717.15	59.22	60.98	92.47	-1,952.02	-673.64	2,275.37	2,156.26	119.11	19.103	
11,704.11	7,630.00	11,078.33	7,717.20	59.28	61.06	92.47	-1,957.11	-673.64	2,275.36	2,156.11	119.25	19.080	
11,800.00	7,630.00	11,134.86	7,716.93	60.62	61.94	92.47	-2,013.63	-674.36	2,276.10	2,154.89	121.21	18.778	
11,900.00	7,630.00	11,251.52	7,715.26	62.04	63.77	92.42	-2,130.27	-676.05	2,277.14	2,152.61	124.54	18.285	
12,000.00	7,630.00	11,315.73	7,714.69	63.48	64.78	92.41	-2,194.46	-677.24	2,278.62	2,151.91	126.71	17.983	
12,100.00	7,630.00	11,439.44	7,714.41	64.93	66.73	92.40	-2,318.14	-680.06	2,280.59	2,150.33	130.26	17.508	
12,200.00	7,630.00	11,535.91	7,714.98	66.39	68.27	92.41	-2,414.60	-681.19	2,281.47	2,148.24	133.22	17.125	
12,300.00	7,630.00	11,595.00	7,715.52	67.86	69.21	92.42	-2,473.67	-682.73	2,283.75	2,148.44	135.31	16.878	
12,400.00	7,630.00	11,708.44	7,717.52	69.35	71.03	92.47	-2,587.03	-686.37	2,286.71	2,148.00	138.72	16.485	
12,500.00	7,630.00	11,850.53	7,717.83	70.85	73.32	92.48	-2,729.08	-689.34	2,288.51	2,145.69	142.82	16.024	
12,600.00	7,630.00	11,986.08	7,717.09	72.36	75.52	92.46	-2,864.63	-689.30	2,288.00	2,141.22	146.78	15.588	
12,700.00	7,630.00	12,069.53	7,715.26	73.88	76.89	92.41	-2,948.06	-689.30	2,287.56	2,138.01	149.55	15.297	
12,713.47	7,630.00	12,081.06	7,715.00	74.09	77.08	92.41	-2,959.59	-689.35	2,287.56	2,137.63	149.93	15.258	
12,800.00	7,630.00	12,163.43	7,713.78	75.41	78.43	92.37	-3,041.94	-689.85	2,287.73	2,135.16	152.57	14.995	
12,900.00	7,630.00	12,297.91	7,716.41	76.95	80.65	92.44	-3,176.39	-689.65	2,287.39	2,130.81	156.58	14.609	
13,000.00	7,630.00	12,429.60	7,719.67	78.49	82.84	92.53	-3,308.01	-686.59	2,284.67	2,124.14	160.53	14.232	
13,100.00	7,630.00	12,498.31	7,721.53	80.05	83.99	92.57	-3,376.68	-685.39	2,282.69	2,119.65	163.04	14.001	
13,200.00	7,630.00	12,575.00	7,723.48	81.61	85.27	92.62	-3,453.34	-684.78	2,281.71	2,115.99	165.72	13.768	
13,239.95	7,630.00	12,607.64	7,724.13	82.24	85.81	92.64	-3,485.98	-684.75	2,281.59	2,114.75	166.84	13.675	
13,300.00	7,630.00	12,648.03	7,724.61	83.18	86.48	92.65	-3,526.36	-685.03	2,281.84	2,113.55	168.30	13.558	
13,400.00	7,630.00	12,842.00	7,725.58	84.76	89.72	92.68	-3,720.31	-684.81	2,282.14	2,108.35	173.79	13.132	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
13,500.00	7,630.00	12,895.74	7,726.36	86.34	90.63	92.70	-3,774.03	-683.64	2,279.79	2,103.80	175.98	12.954	
13,563.25	7,630.00	12,931.00	7,727.11	87.35	91.22	92.72	-3,809.28	-683.57	2,279.46	2,102.09	177.38	12.851	
13,600.00	7,630.00	12,949.29	7,727.54	87.94	91.53	92.73	-3,827.57	-683.72	2,279.65	2,101.53	178.12	12.799	
13,700.00	7,630.00	13,020.00	7,729.05	89.53	92.71	92.77	-3,898.24	-685.06	2,281.24	2,100.61	180.64	12.629	
13,800.00	7,630.00	13,101.90	7,730.28	91.13	94.08	92.79	-3,980.10	-687.49	2,283.90	2,100.47	183.43	12.451	
13,900.00	7,630.00	13,209.10	7,731.10	92.74	95.87	92.81	-4,087.25	-690.84	2,286.72	2,099.82	186.91	12.234	
14,000.00	7,630.00	13,374.72	7,731.78	94.35	98.65	92.83	-4,252.84	-693.25	2,287.86	2,095.95	191.91	11.922	
14,012.32	7,630.00	13,395.13	7,731.83	94.55	99.00	92.83	-4,273.25	-693.21	2,287.80	2,095.29	192.51	11.884	
14,100.00	7,630.00	13,434.85	7,732.49	95.97	99.67	92.84	-4,312.96	-693.73	2,288.40	2,094.20	194.20	11.784	
14,200.00	7,630.00	13,520.18	7,734.28	97.60	101.11	92.89	-4,398.24	-695.74	2,290.48	2,093.35	197.13	11.619	
14,300.00	7,630.00	13,648.15	7,732.45	99.22	103.27	92.84	-4,526.17	-698.24	2,292.04	2,090.85	201.18	11.393	
14,400.00	7,630.00	13,834.35	7,728.73	100.85	106.43	92.75	-4,712.32	-697.67	2,291.53	2,084.90	206.63	11.090	
14,500.00	7,630.00	13,882.03	7,727.92	102.49	107.25	92.73	-4,760.00	-697.25	2,290.00	2,081.27	208.72	10.971	
14,526.14	7,630.00	13,896.97	7,727.67	102.92	107.50	92.72	-4,774.93	-697.26	2,289.90	2,080.59	209.32	10.940	
14,600.00	7,630.00	13,940.61	7,726.93	104.13	108.24	92.70	-4,818.57	-697.69	2,290.31	2,079.30	211.00	10.854	
14,700.00	7,630.00	14,001.40	7,725.80	105.77	109.27	92.67	-4,879.32	-699.21	2,292.38	2,079.09	213.28	10.748	
14,800.00	7,630.00	14,134.22	7,723.51	107.42	111.53	92.61	-5,012.07	-702.73	2,294.62	2,077.09	217.53	10.549	
14,900.00	7,630.00	14,257.18	7,721.81	109.07	113.62	92.57	-5,135.01	-704.31	2,295.48	2,073.99	221.49	10.364	
15,000.00	7,630.00	14,393.23	7,720.78	110.72	115.95	92.54	-5,271.06	-704.31	2,295.08	2,069.30	225.78	10.165	
15,100.00	7,630.00	14,477.69	7,720.49	112.38	117.40	92.54	-5,355.51	-703.65	2,294.01	2,065.24	228.77	10.028	
15,122.55	7,630.00	14,490.70	7,720.57	112.76	117.62	92.54	-5,368.52	-703.66	2,293.96	2,064.68	229.29	10.005	
15,200.00	7,630.00	14,535.82	7,721.10	114.04	118.39	92.55	-5,413.64	-704.12	2,294.52	2,063.47	231.05	9.931	
15,300.00	7,630.00	14,643.21	7,722.73	115.71	120.23	92.59	-5,521.00	-705.63	2,295.65	2,061.02	234.63	9.784	
15,400.00	7,630.00	14,733.17	7,725.39	117.37	121.77	92.65	-5,610.91	-707.10	2,297.06	2,059.32	237.75	9.662	
15,500.00	7,630.00	14,827.07	7,728.99	119.04	123.38	92.74	-5,704.73	-708.49	2,298.41	2,057.44	240.97	9.538	
15,600.00	7,630.00	14,892.00	7,731.86	120.71	124.49	92.81	-5,769.57	-710.36	2,301.09	2,057.73	243.36	9.455	
15,700.00	7,630.00	15,012.39	7,737.71	122.39	126.55	92.95	-5,889.76	-714.20	2,304.24	2,056.90	247.34	9.316	
15,800.00	7,630.00	15,130.83	7,743.44	124.06	128.58	93.09	-6,008.03	-716.54	2,306.10	2,054.85	251.25	9.179	
15,900.00	7,630.00	15,204.24	7,746.70	125.74	129.84	93.17	-6,081.35	-718.06	2,308.14	2,054.25	253.89	9.091	
16,000.00	7,630.00	15,290.64	7,749.70	127.42	131.32	93.24	-6,167.64	-721.23	2,311.61	2,054.71	256.89	8.998	
16,100.00	7,630.00	15,387.96	7,752.90	129.10	132.99	93.32	-6,264.86	-724.40	2,314.72	2,054.51	260.21	8.896	
16,200.00	7,630.00	15,470.32	7,754.63	130.79	134.40	93.36	-6,347.12	-727.86	2,318.68	2,055.61	263.08	8.814	
16,300.00	7,630.00	15,585.02	7,756.26	132.48	136.36	93.39	-6,461.70	-732.95	2,322.89	2,055.97	266.92	8.703	
16,400.00	7,630.00	15,731.91	7,757.62	134.17	138.89	93.42	-6,608.52	-737.23	2,325.53	2,053.85	271.68	8.560	
16,500.00	7,630.00	15,867.34	7,758.82	135.86	141.22	93.45	-6,743.93	-738.67	2,326.28	2,050.23	276.05	8.427	
16,600.00	7,630.00	15,986.80	7,757.85	137.55	143.29	93.42	-6,863.38	-738.86	2,326.07	2,046.09	279.98	8.308	
16,700.00	7,630.00	16,167.46	7,751.77	139.24	146.43	93.28	-7,043.90	-735.52	2,323.78	2,038.47	285.31	8.145	
16,800.00	7,630.00	16,256.76	7,749.92	140.94	147.99	93.24	-7,133.09	-731.73	2,319.16	2,030.64	288.52	8.038	
16,900.00	7,630.00	16,312.00	7,749.86	142.64	148.95	93.24	-7,188.32	-730.54	2,316.53	2,025.59	290.94	7.962	
16,966.81	7,630.00	16,336.39	7,750.06	143.77	149.37	93.24	-7,212.71	-730.46	2,315.99	2,023.82	292.16	7.927	
17,000.00	7,630.00	16,351.65	7,750.23	144.34	149.64	93.25	-7,227.96	-730.56	2,316.12	2,023.29	292.82	7.910	
17,100.00	7,630.00	16,401.00	7,751.02	146.04	150.49	93.27	-7,277.29	-731.68	2,318.06	2,023.25	294.81	7.863	
17,200.00	7,630.00	16,506.54	7,753.33	147.74	152.31	93.32	-7,382.75	-735.10	2,321.09	2,022.69	298.40	7.778	
17,300.00	7,630.00	16,629.35	7,757.30	149.44	154.44	93.41	-7,505.46	-738.03	2,323.33	2,020.84	302.49	7.681	
17,400.00	7,630.00	16,709.90	7,760.48	151.15	155.83	93.49	-7,585.94	-739.56	2,325.20	2,019.84	305.36	7.615	
17,500.00	7,630.00	16,779.83	7,763.16	152.86	157.04	93.55	-7,655.76	-742.04	2,328.57	2,020.69	307.88	7.563	
17,600.00	7,630.00	16,883.36	7,767.05	154.56	158.82	93.64	-7,759.15	-746.12	2,332.41	2,021.00	311.41	7.490	
17,700.00	7,630.00	16,986.44	7,771.95	156.27	160.60	93.76	-7,862.04	-749.85	2,335.99	2,021.07	314.93	7.418	
17,800.00	7,630.00	17,081.84	7,774.26	157.98	162.25	93.81	-7,957.34	-753.53	2,339.66	2,021.45	318.21	7.352	
17,900.00	7,630.00	17,189.20	7,775.66	159.70	164.10	93.84	-8,064.60	-757.79	2,343.38	2,021.51	321.88	7.280	
18,000.00	7,630.00	17,309.55	7,777.39	161.41	166.18	93.87	-8,184.88	-761.73	2,346.40	2,020.47	325.93	7.199	
18,100.00	7,630.00	17,422.55	7,779.92	163.12	168.14	93.93	-8,297.82	-764.57	2,348.73	2,018.98	329.75	7.123	

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

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

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			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
18,154.00	7,630.00	17,481.73	7,781.49	164.05	169.17	93.97	-8,356.96	-765.79	2,349.76	2,018.00	331.75	7.083 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-50.79	784.98	-962.30	1,284.70				
100.00	100.00	318.00	317.99	0.13	0.00	-50.79	784.98	-962.30	1,262.79	1,262.36	0.44	2,885.717	
200.00	200.00	318.00	317.99	0.49	0.00	-50.79	784.98	-962.30	1,248.54	1,247.99	0.55	2,289.435	
300.00	300.00	318.00	317.99	0.85	0.00	-50.79	784.98	-962.30	1,242.20	1,241.34	0.85	1,456.164	
328.99	328.99	318.00	317.99	0.96	0.00	-50.79	784.98	-962.30	1,241.86	1,240.90	0.96	1,299.706	
400.00	400.00	388.06	388.05	1.21	0.13	-50.84	784.33	-962.96	1,241.96	1,240.62	1.34	929.704	
500.00	500.00	490.62	490.59	1.57	0.31	-50.89	783.35	-963.73	1,241.93	1,240.06	1.88	661.125	
600.00	600.00	593.18	593.15	1.93	0.49	-50.95	782.33	-964.24	1,241.70	1,239.28	2.42	512.841	
623.16	623.16	616.93	616.89	2.01	0.54	-50.96	782.09	-964.33	1,241.62	1,239.07	2.55	487.502	CC
700.00	700.00	678.10	678.06	2.29	0.80	-50.91	783.13	-963.96	1,242.03	1,238.95	3.08	402.849	ES
800.00	800.00	766.18	766.04	2.64	1.11	-50.73	786.97	-962.38	1,243.39	1,239.65	3.74	332.107	
900.00	900.00	856.59	856.09	3.00	1.43	-50.38	794.13	-959.10	1,245.63	1,241.20	4.43	281.355	
1,000.00	1,000.00	943.36	942.22	3.36	1.76	-49.90	803.75	-954.62	1,248.80	1,243.68	5.11	244.192	
1,100.00	1,100.00	1,029.34	1,027.31	3.72	2.10	-49.37	815.11	-949.89	1,253.19	1,247.38	5.81	215.616	
1,200.00	1,200.00	1,123.58	1,120.29	4.08	2.49	-48.70	829.28	-943.99	1,258.39	1,251.83	6.56	191.916	
1,300.00	1,300.00	1,218.32	1,213.66	4.44	2.90	-48.01	844.13	-937.92	1,264.09	1,256.78	7.31	172.849	
1,400.00	1,400.00	1,327.31	1,321.12	4.79	3.37	-47.24	861.07	-931.20	1,270.12	1,261.98	8.14	156.094	
1,500.00	1,499.98	1,432.66	1,424.93	5.15	3.83	-84.25	877.05	-923.15	1,274.79	1,265.84	8.95	142.472	
1,600.00	1,599.84	1,516.60	1,507.57	5.51	4.21	-83.72	890.34	-916.85	1,279.84	1,270.18	9.67	132.402	
1,700.00	1,699.45	1,623.92	1,613.04	5.87	4.70	-83.20	908.49	-908.78	1,285.35	1,274.85	10.50	122.389	
1,800.00	1,798.70	1,741.78	1,729.06	6.23	5.23	-82.87	926.75	-898.96	1,288.84	1,277.45	11.39	113.138	
1,900.00	1,897.47	1,825.68	1,811.75	6.60	5.60	-82.78	939.37	-892.51	1,292.09	1,279.96	12.13	106.517	
2,000.00	1,995.62	1,910.59	1,895.45	6.99	5.98	-82.83	952.57	-887.16	1,296.21	1,283.33	12.88	100.600	
2,100.00	2,093.06	2,049.13	2,032.01	7.39	6.60	-83.18	973.69	-877.24	1,299.22	1,285.31	13.91	93.386	
2,200.00	2,189.64	2,151.14	2,132.43	7.82	7.06	-83.56	988.64	-867.33	1,299.53	1,284.72	14.81	87.776	
2,300.00	2,285.27	2,232.24	2,212.20	8.28	7.43	-83.96	1,001.27	-859.83	1,300.51	1,284.87	15.63	83.183	
2,400.00	2,379.82	2,312.92	2,291.54	8.77	7.80	-84.47	1,014.39	-853.48	1,302.72	1,286.23	16.49	78.982	
2,500.00	2,473.17	2,395.60	2,372.85	9.31	8.18	-85.10	1,028.33	-847.98	1,306.11	1,288.71	17.40	75.068	
2,600.00	2,565.21	2,484.20	2,460.04	9.88	8.59	-85.93	1,043.35	-843.24	1,310.55	1,292.18	18.37	71.330	
2,660.67	2,620.37	2,545.88	2,520.79	10.25	8.86	-86.59	1,053.57	-840.18	1,313.39	1,294.37	19.02	69.037	
2,700.00	2,655.96	2,583.95	2,558.31	10.50	9.03	-87.06	1,059.71	-838.35	1,315.26	1,295.81	19.44	67.651	
2,800.00	2,746.43	2,680.89	2,654.13	11.15	9.45	-88.32	1,074.07	-834.84	1,320.51	1,299.99	20.51	64.369	
2,900.00	2,836.90	2,804.15	2,775.90	11.82	9.99	-89.87	1,092.16	-828.96	1,325.54	1,303.80	21.74	60.982	
3,000.00	2,927.37	2,907.90	2,878.15	12.50	10.45	-91.07	1,107.94	-821.24	1,329.34	1,306.45	22.89	58.066	
3,100.00	3,017.85	3,038.54	3,007.33	13.21	11.01	-92.69	1,124.70	-811.35	1,332.25	1,308.09	24.16	55.138	
3,200.00	3,108.32	3,142.09	3,110.02	13.92	11.44	-94.05	1,135.47	-803.52	1,334.57	1,309.26	25.30	52.741	
3,300.00	3,198.79	3,245.71	3,212.58	14.64	11.88	-95.35	1,146.91	-794.27	1,336.78	1,310.32	26.46	50.522	
3,400.00	3,289.27	3,345.19	3,310.62	15.38	12.32	-96.48	1,159.99	-783.69	1,339.28	1,311.65	27.62	48.481	
3,500.00	3,379.74	3,436.17	3,400.04	16.12	12.74	-97.45	1,173.19	-773.28	1,342.29	1,313.52	28.77	46.658	
3,600.00	3,470.21	3,516.37	3,479.08	16.87	13.09	-98.36	1,184.12	-765.27	1,346.59	1,316.74	29.85	45.108	
3,700.00	3,560.68	3,606.81	3,568.51	17.62	13.49	-99.44	1,195.41	-757.90	1,352.44	1,321.47	30.97	43.676	
3,800.00	3,651.16	3,736.84	3,696.66	18.39	14.07	-100.88	1,213.01	-744.89	1,357.75	1,325.49	32.26	42.090	
3,900.00	3,741.63	3,825.43	3,783.84	19.15	14.47	-101.83	1,225.20	-734.83	1,362.47	1,329.09	33.38	40.819	
4,000.00	3,832.10	3,901.40	3,858.93	19.92	14.80	-102.72	1,234.26	-727.80	1,368.77	1,334.35	34.42	39.770	
4,100.00	3,922.57	3,981.01	3,937.83	20.69	15.13	-103.69	1,243.08	-721.88	1,376.91	1,341.46	35.44	38.850	
4,200.00	4,013.05	4,057.38	4,013.37	21.47	15.46	-104.57	1,252.94	-716.66	1,386.84	1,350.39	36.45	38.045	
4,300.00	4,103.52	4,130.53	4,085.43	22.25	15.78	-105.33	1,264.58	-711.94	1,398.70	1,361.25	37.45	37.352	
4,400.00	4,193.99	4,244.53	4,197.81	23.03	16.30	-106.50	1,282.68	-705.66	1,411.93	1,373.27	38.66	36.521	
4,500.00	4,284.47	4,339.24	4,291.35	23.81	16.71	-107.50	1,296.19	-699.58	1,424.17	1,384.42	39.75	35.832	
4,600.00	4,374.94	4,451.35	4,402.28	24.60	17.19	-108.72	1,310.75	-692.49	1,436.57	1,395.67	40.90	35.126	
4,700.00	4,465.41	4,536.17	4,486.07	25.39	17.56	-109.60	1,322.54	-686.54	1,449.11	1,407.19	41.91	34.574	
4,800.00	4,555.88	4,639.01	4,587.32	26.18	18.03	-110.56	1,338.95	-679.19	1,462.49	1,419.45	43.04	33.978	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 586-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,646.36	4,729.94	4,676.69	26.97	18.45	-111.36	1,354.20	-672.26	1,476.00	1,431.89	44.11	33.464	
5,000.00	4,736.83	4,809.01	4,754.67	27.76	18.80	-112.10	1,366.32	-667.18	1,490.61	1,445.54	45.08	33.070	
5,100.00	4,827.30	4,966.74	4,910.00	28.55	19.52	-113.52	1,390.63	-654.90	1,504.44	1,457.97	46.47	32.375	
5,200.00	4,917.77	5,053.81	4,995.60	29.35	19.92	-114.27	1,403.87	-645.99	1,516.22	1,468.74	47.48	31.932	
5,300.00	5,008.25	5,130.54	5,071.37	30.15	20.26	-114.99	1,414.25	-639.73	1,529.88	1,481.47	48.41	31.604	
5,400.00	5,098.72	5,234.84	5,174.71	30.94	20.70	-116.03	1,426.11	-632.18	1,544.50	1,495.07	49.43	31.246	
5,500.00	5,189.19	5,390.64	5,328.44	31.74	21.38	-117.46	1,445.72	-616.41	1,556.92	1,506.23	50.69	30.716	
5,600.00	5,279.67	5,482.90	5,419.16	32.54	21.80	-118.25	1,458.11	-605.04	1,567.82	1,516.14	51.68	30.339	
5,700.00	5,370.14	5,552.25	5,487.40	33.34	22.12	-118.83	1,467.75	-597.33	1,580.28	1,527.73	52.55	30.070	
5,800.00	5,460.61	5,623.00	5,557.09	34.14	22.44	-119.41	1,478.10	-590.94	1,595.03	1,541.61	53.42	29.860	
5,900.00	5,551.08	5,685.52	5,618.84	34.94	22.71	-119.93	1,486.87	-586.49	1,611.83	1,557.63	54.20	29.740	
6,000.00	5,641.56	5,761.14	5,693.75	35.75	23.03	-120.59	1,496.19	-582.26	1,630.35	1,575.34	55.01	29.637	
6,100.00	5,732.03	5,886.26	5,817.69	36.55	23.56	-121.67	1,511.92	-575.48	1,649.59	1,593.49	56.10	29.404	
6,200.00	5,822.50	6,016.88	5,946.51	37.35	24.14	-122.66	1,530.64	-564.69	1,666.33	1,609.09	57.25	29.109	
6,300.00	5,912.97	6,107.40	6,035.47	38.16	24.56	-123.29	1,545.15	-556.29	1,682.52	1,624.33	58.19	28.914	
6,400.00	6,003.45	6,178.48	6,105.21	38.96	24.90	-123.73	1,557.57	-550.42	1,699.99	1,640.96	59.02	28.803	
6,500.00	6,093.92	6,246.00	6,171.66	39.77	25.21	-124.18	1,568.69	-546.16	1,719.41	1,659.61	59.80	28.752	
6,600.00	6,184.39	6,312.32	6,237.21	40.57	25.49	-124.65	1,578.32	-543.12	1,740.68	1,680.15	60.52	28.760	
6,700.00	6,274.87	6,461.93	6,385.34	41.38	26.12	-125.77	1,597.71	-535.40	1,761.85	1,700.10	61.75	28.534	
6,800.00	6,365.34	6,608.80	6,530.41	42.18	26.76	-126.82	1,616.98	-523.08	1,780.05	1,717.14	62.91	28.296	
6,900.00	6,455.81	6,680.96	6,601.50	42.99	27.09	-127.29	1,627.55	-516.54	1,797.78	1,734.09	63.69	28.226	
7,000.00	6,546.28	6,745.56	6,665.15	43.80	27.38	-127.70	1,637.34	-511.58	1,817.09	1,752.68	64.41	28.209	
7,100.00	6,636.76	6,809.34	6,728.13	44.61	27.66	-128.10	1,646.74	-507.85	1,838.35	1,773.24	65.10	28.238	
7,200.00	6,727.23	7,075.05	6,990.42	45.41	28.61	-130.64	1,655.47	-477.75	1,852.94	1,786.61	66.34	27.933	
7,300.00	6,817.70	7,104.26	7,018.87	46.22	28.66	-131.09	1,650.27	-473.68	1,868.89	1,802.16	66.74	28.004	
7,383.79	6,893.51	7,138.00	7,051.53	46.90	28.73	-131.65	1,642.66	-470.03	1,885.35	1,818.37	66.98	28.147	
7,400.00	6,908.25	7,138.00	7,051.53	47.03	28.73	-134.35	1,642.66	-470.03	1,888.77	1,821.74	67.03	28.179	
7,450.00	6,954.52	7,138.00	7,051.53	47.40	28.73	-144.47	1,642.66	-470.03	1,900.05	1,832.92	67.13	28.303	
7,500.00	7,001.74	7,138.00	7,051.53	47.72	28.73	-157.89	1,642.66	-470.03	1,912.37	1,845.18	67.19	28.461	
7,550.00	7,049.55	7,138.00	7,051.53	47.99	28.73	-174.72	1,642.66	-470.03	1,925.62	1,858.41	67.21	28.652	
7,600.00	7,097.58	7,173.22	7,085.41	48.21	28.76	166.36	1,633.32	-467.90	1,938.21	1,870.99	67.22	28.833	
7,650.00	7,145.48	7,183.50	7,095.27	48.37	28.77	148.78	1,630.40	-467.70	1,951.97	1,884.78	67.19	29.050	
7,700.00	7,192.88	7,193.82	7,105.14	48.48	28.78	134.33	1,627.38	-467.68	1,966.05	1,898.90	67.15	29.280	
7,750.00	7,239.41	7,227.00	7,136.66	48.54	28.80	123.21	1,617.11	-468.90	1,980.93	1,913.80	67.13	29.510	
7,800.00	7,284.72	7,227.00	7,136.66	48.56	28.80	114.74	1,617.11	-468.90	1,994.84	1,927.80	67.04	29.755	
7,850.00	7,328.47	7,227.00	7,136.66	48.54	28.80	108.12	1,617.11	-468.90	2,008.98	1,942.03	66.94	30.010	
7,900.00	7,370.32	7,227.00	7,136.66	48.47	28.80	102.80	1,617.11	-468.90	2,023.22	1,956.39	66.83	30.272	
7,950.00	7,409.96	7,254.91	7,162.91	48.37	28.81	98.70	1,607.89	-471.08	2,036.92	1,970.11	66.81	30.489	
8,000.00	7,447.08	7,270.43	7,177.42	48.24	28.81	95.25	1,602.58	-472.58	2,050.29	1,983.53	66.76	30.713	
8,050.00	7,481.41	7,285.45	7,191.39	48.07	28.82	92.38	1,597.31	-474.23	2,063.17	1,996.45	66.72	30.925	
8,100.00	7,512.67	7,316.00	7,219.58	47.87	28.83	90.23	1,586.22	-478.18	2,075.67	2,008.94	66.74	31.103	
8,150.00	7,540.64	7,449.06	7,336.94	47.65	28.79	89.95	1,525.34	-490.90	2,086.37	2,019.57	66.80	31.234	
8,200.00	7,565.09	7,512.68	7,388.89	47.40	28.75	89.08	1,488.82	-494.51	2,094.31	2,027.61	66.70	31.399	
8,250.00	7,585.85	7,526.36	7,399.58	47.14	28.73	87.90	1,480.33	-495.42	2,101.33	2,034.64	66.68	31.511	
8,300.00	7,602.75	7,550.89	7,418.33	46.86	28.71	87.13	1,464.60	-497.02	2,107.54	2,040.88	66.66	31.616	
8,350.00	7,615.67	7,584.00	7,442.67	46.58	28.67	86.73	1,442.29	-499.45	2,113.01	2,046.39	66.62	31.717	
8,400.00	7,624.51	7,837.71	7,580.97	46.28	28.29	88.99	1,232.83	-501.98	2,114.45	2,049.18	65.27	32.394	
8,450.00	7,629.19	7,879.24	7,592.69	45.98	28.22	89.20	1,193.05	-500.07	2,113.12	2,048.02	65.10	32.461	
8,481.00	7,630.00	7,902.57	7,598.92	45.79	28.18	89.45	1,170.58	-499.09	2,111.80	2,046.78	65.02	32.479	
8,500.00	7,630.00	7,916.82	7,602.63	45.68	28.16	89.56	1,156.83	-498.52	2,110.91	2,045.93	64.98	32.488	
8,600.00	7,630.00	7,973.65	7,616.73	45.11	28.09	89.94	1,101.81	-496.71	2,107.27	2,042.35	64.92	32.458	
8,700.00	7,630.00	8,029.00	7,629.35	44.56	28.03	90.28	1,047.93	-496.31	2,106.08	2,041.16	64.93	32.438	

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

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

Offset Site Error: 0.00 usft

Survey Program: 586-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,800.00	7,630.00	8,231.57	7,660.58	44.05	28.11	91.13	847.97	-492.62	2,104.74	2,040.27	64.47	32.649	
8,900.00	7,630.00	8,328.50	7,665.46	43.57	28.33	91.27	751.30	-488.07	2,099.81	2,035.18	64.63	32.492	
9,000.00	7,630.00	8,425.14	7,667.35	43.12	28.68	91.32	654.77	-483.73	2,095.02	2,030.08	64.94	32.259	
9,100.00	7,630.00	8,523.45	7,669.12	42.70	29.19	91.38	556.57	-479.46	2,090.38	2,024.95	65.44	31.946	
9,200.00	7,630.00	8,612.67	7,670.03	42.31	29.74	91.40	467.43	-475.73	2,085.90	2,019.82	66.08	31.565	
9,300.00	7,630.00	8,692.34	7,671.13	41.94	30.31	91.44	387.81	-473.05	2,082.25	2,015.42	66.83	31.156	
9,400.00	7,630.00	8,770.90	7,672.39	41.59	30.92	91.47	309.29	-471.23	2,079.63	2,011.94	67.69	30.722	
9,500.00	7,630.00	8,853.88	7,673.53	41.26	31.62	91.50	226.33	-470.12	2,077.98	2,009.29	68.69	30.253	
9,600.00	7,630.00	8,946.94	7,673.11	40.96	32.47	91.49	133.27	-469.42	2,076.87	2,007.01	69.86	29.727	
9,700.00	7,630.00	9,042.50	7,671.85	40.68	33.40	91.46	37.72	-468.94	2,076.00	2,004.81	71.19	29.160	
9,800.00	7,630.00	9,150.06	7,669.91	40.42	34.51	91.41	-69.82	-468.55	2,075.27	2,002.50	72.77	28.518	
9,900.00	7,630.00	9,254.63	7,668.04	40.17	35.66	91.36	-174.37	-467.51	2,073.88	1,999.42	74.47	27.850	
10,000.00	7,630.00	9,370.52	7,668.55	39.96	36.99	91.37	-290.25	-466.01	2,072.28	1,995.84	76.44	27.108	
10,100.00	7,630.00	9,474.08	7,668.69	40.05	38.24	91.38	-393.79	-464.13	2,070.13	1,991.72	78.41	26.401	
10,200.00	7,630.00	9,586.84	7,668.73	40.95	39.65	91.38	-506.52	-461.67	2,067.63	1,987.00	80.62	25.646	
10,300.00	7,630.00	9,669.57	7,668.81	41.94	40.72	91.38	-589.22	-459.56	2,064.81	1,982.31	82.50	25.029	
10,400.00	7,630.00	9,721.00	7,668.62	42.98	41.39	91.38	-640.65	-459.11	2,063.75	1,979.83	83.92	24.591	
10,406.89	7,630.00	9,734.01	7,668.56	43.05	41.56	91.38	-653.66	-459.13	2,063.72	1,979.54	84.18	24.517	
10,500.00	7,630.00	9,791.94	7,668.43	44.06	42.33	91.37	-711.59	-459.82	2,064.51	1,978.82	85.69	24.094	
10,600.00	7,630.00	9,867.82	7,667.74	45.17	43.34	91.35	-787.44	-461.93	2,066.89	1,979.33	87.57	23.603	
10,700.00	7,630.00	9,971.26	7,663.32	46.32	44.74	91.23	-890.72	-465.46	2,069.89	1,979.91	89.98	23.004	
10,800.00	7,630.00	10,133.25	7,654.91	47.50	47.02	90.99	-1,052.46	-467.91	2,070.87	1,977.31	93.56	22.133	
10,900.00	7,630.00	10,248.49	7,648.77	48.70	48.68	90.82	-1,167.53	-467.58	2,070.16	1,973.77	96.38	21.478	
11,000.00	7,630.00	10,373.59	7,643.29	49.94	50.52	90.67	-1,292.50	-465.98	2,068.46	1,968.98	99.48	20.793	
11,100.00	7,630.00	10,483.07	7,637.91	51.20	52.16	90.52	-1,401.83	-463.77	2,066.05	1,963.71	102.34	20.188	
11,200.00	7,630.00	10,566.85	7,633.56	52.48	53.42	90.40	-1,485.48	-461.94	2,063.54	1,958.80	104.74	19.702	
11,300.00	7,630.00	10,639.05	7,630.13	53.79	54.52	90.31	-1,557.59	-461.41	2,062.40	1,955.48	106.92	19.289	
11,354.25	7,630.00	10,682.53	7,628.07	54.51	55.18	90.25	-1,601.03	-461.45	2,062.26	1,954.05	108.21	19.058	
11,400.00	7,630.00	10,720.91	7,626.22	55.12	55.77	90.20	-1,639.35	-461.66	2,062.35	1,953.02	109.33	18.864	
11,500.00	7,630.00	10,810.27	7,621.72	56.46	57.14	90.08	-1,728.60	-462.56	2,063.00	1,951.09	111.91	18.434	
11,600.00	7,630.00	10,910.90	7,618.82	57.83	58.69	90.00	-1,829.17	-463.85	2,063.95	1,949.16	114.79	17.980	
11,700.00	7,630.00	11,013.87	7,616.18	59.22	60.29	89.92	-1,932.11	-464.89	2,064.62	1,946.86	117.76	17.532	
11,800.00	7,630.00	11,122.15	7,612.24	60.62	61.99	89.81	-2,040.31	-465.97	2,065.30	1,944.42	120.88	17.085	
11,900.00	7,630.00	11,235.67	7,607.06	62.04	63.78	89.67	-2,153.71	-466.28	2,065.24	1,941.09	124.15	16.635	
12,000.00	7,630.00	11,338.39	7,601.22	63.48	65.42	89.51	-2,256.26	-466.24	2,064.91	1,937.71	127.20	16.234	
12,100.00	7,630.00	11,461.73	7,596.38	64.93	67.40	89.37	-2,379.50	-465.28	2,063.82	1,933.05	130.76	15.783	
12,200.00	7,630.00	11,577.98	7,592.42	66.39	69.28	89.26	-2,495.66	-463.32	2,061.84	1,927.64	134.20	15.364	
12,300.00	7,630.00	11,693.49	7,587.21	67.86	71.17	89.11	-2,611.02	-460.47	2,059.09	1,921.46	137.63	14.961	
12,400.00	7,630.00	11,785.41	7,583.65	69.35	72.67	89.01	-2,702.84	-458.02	2,056.15	1,915.60	140.55	14.629	
12,500.00	7,630.00	11,866.53	7,582.79	70.85	74.01	88.99	-2,783.94	-456.49	2,053.94	1,910.69	143.25	14.338	
12,600.00	7,630.00	11,983.34	7,582.89	72.36	75.93	88.99	-2,900.72	-454.22	2,051.64	1,904.83	146.81	13.975	
12,700.00	7,630.00	12,082.62	7,582.07	73.88	77.57	88.97	-2,999.97	-451.85	2,048.93	1,898.96	149.97	13.662	
12,800.00	7,630.00	12,157.24	7,583.03	75.41	78.81	88.99	-3,074.57	-450.45	2,046.76	1,894.21	152.56	13.416	
12,867.48	7,630.00	12,196.99	7,584.16	76.45	79.46	89.02	-3,114.30	-450.33	2,046.30	1,892.28	154.03	13.285	
12,900.00	7,630.00	12,216.23	7,584.84	76.95	79.78	89.04	-3,133.53	-450.47	2,046.41	1,891.68	154.73	13.226	
13,000.00	7,630.00	12,318.01	7,588.71	78.49	81.47	89.15	-3,235.23	-451.54	2,047.06	1,889.05	158.01	12.955	
13,100.00	7,630.00	12,428.72	7,592.45	80.05	83.30	89.26	-3,345.87	-452.21	2,047.27	1,885.74	161.53	12.674	
13,200.00	7,630.00	12,520.49	7,594.84	81.61	84.83	89.32	-3,437.61	-452.67	2,047.41	1,882.84	164.57	12.441	
13,300.00	7,630.00	12,615.39	7,596.34	83.18	86.41	89.37	-3,532.49	-453.75	2,048.18	1,880.49	167.69	12.214	
13,400.00	7,630.00	12,719.51	7,597.10	84.76	88.15	89.39	-3,636.60	-454.61	2,048.66	1,877.61	171.06	11.976	
13,500.00	7,630.00	12,813.87	7,596.91	86.34	89.73	89.38	-3,730.97	-455.51	2,049.28	1,875.11	174.17	11.766	
13,600.00	7,630.00	12,907.05	7,595.88	87.94	91.28	89.35	-3,824.13	-456.69	2,050.22	1,872.96	177.26	11.566	

Anticollision Report

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

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

Offset Site Error: 0.00 usft

Survey Program: 586-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.00	7,630.00	13,005.32	7,594.14	89.53	92.93	89.31	-3,922.37	-458.16	2,051.40	1,870.92	180.48	11.366	
13,800.00	7,630.00	13,115.48	7,591.92	91.13	94.78	89.24	-4,032.50	-459.58	2,052.38	1,868.33	184.04	11.152	
13,900.00	7,630.00	13,211.12	7,589.57	92.74	96.39	89.18	-4,128.10	-460.75	2,053.29	1,866.08	187.21	10.968	
14,000.00	7,630.00	13,331.62	7,589.57	94.35	98.43	89.18	-4,248.59	-461.61	2,053.66	1,862.58	191.08	10.747	
14,076.79	7,630.00	13,406.53	7,590.22	95.60	99.69	89.20	-4,323.50	-461.71	2,053.50	1,859.91	193.59	10.607	
14,100.00	7,630.00	13,425.09	7,590.35	95.97	100.01	89.20	-4,342.05	-461.80	2,053.53	1,859.29	194.24	10.572	
14,200.00	7,630.00	13,494.06	7,590.70	97.60	101.17	89.21	-4,411.02	-462.59	2,054.38	1,857.68	196.70	10.444	
14,300.00	7,630.00	13,553.00	7,590.69	99.22	102.17	89.21	-4,469.93	-464.41	2,057.13	1,858.31	198.83	10.346	
14,400.00	7,630.00	13,667.06	7,589.78	100.85	104.09	89.19	-4,583.90	-468.83	2,060.70	1,858.13	202.57	10.173	
14,500.00	7,630.00	13,806.18	7,589.33	102.49	106.44	89.18	-4,722.99	-472.05	2,062.64	1,855.60	207.04	9.963	
14,600.00	7,630.00	13,925.60	7,589.17	104.13	108.47	89.17	-4,842.40	-473.37	2,063.42	1,852.49	210.93	9.783	
14,700.00	7,630.00	14,048.20	7,590.69	105.77	110.57	89.21	-4,964.98	-472.85	2,062.54	1,847.63	214.91	9.597	
14,772.95	7,630.00	14,102.93	7,591.59	106.97	111.50	89.24	-5,019.70	-472.72	2,062.14	1,845.25	216.88	9.508	
14,800.00	7,630.00	14,118.77	7,591.89	107.42	111.77	89.25	-5,035.54	-472.82	2,062.21	1,844.72	217.49	9.482	
14,900.00	7,630.00	14,177.91	7,593.28	109.07	112.78	89.29	-5,094.65	-473.96	2,063.76	1,844.07	219.69	9.394	
15,000.00	7,630.00	14,265.50	7,595.64	110.72	114.27	89.35	-5,182.16	-476.76	2,066.59	1,843.90	222.69	9.280	
15,100.00	7,630.00	14,368.21	7,598.53	112.38	116.02	89.43	-5,284.77	-480.26	2,069.63	1,843.47	226.16	9.151	
15,200.00	7,630.00	14,503.15	7,601.86	114.04	118.32	89.53	-5,419.61	-484.38	2,072.51	1,841.92	230.59	8.988	
15,300.00	7,630.00	14,636.93	7,603.68	115.71	120.61	89.58	-5,553.38	-485.14	2,072.63	1,837.70	234.93	8.822	
15,302.37	7,630.00	14,639.69	7,603.71	115.74	120.66	89.58	-5,556.13	-485.14	2,072.62	1,837.60	235.02	8.819	
15,400.00	7,630.00	14,705.07	7,604.30	117.37	121.78	89.59	-5,621.51	-485.82	2,073.23	1,835.79	237.44	8.732	
15,500.00	7,630.00	14,859.30	7,605.91	119.04	124.43	89.64	-5,775.72	-486.09	2,073.01	1,830.67	242.34	8.554	
15,600.00	7,630.00	14,972.61	7,606.85	120.71	126.39	89.66	-5,889.02	-484.42	2,071.19	1,825.08	246.10	8.416	
15,700.00	7,630.00	15,084.81	7,607.27	122.39	128.33	89.67	-6,001.19	-482.20	2,068.87	1,819.04	249.83	8.281	
15,800.00	7,630.00	15,180.18	7,607.39	124.06	129.99	89.68	-6,096.53	-479.81	2,066.03	1,812.90	253.13	8.162	
15,900.00	7,630.00	15,246.00	7,607.91	125.74	131.13	89.69	-6,162.35	-479.12	2,064.57	1,808.91	255.66	8.075	
15,989.30	7,630.00	15,319.70	7,608.89	127.24	132.40	89.72	-6,236.04	-479.23	2,064.38	1,806.08	258.29	7.992	
16,000.00	7,630.00	15,329.38	7,609.02	127.42	132.57	89.72	-6,245.72	-479.27	2,064.38	1,805.75	258.63	7.982	
16,100.00	7,630.00	15,441.22	7,610.69	129.10	134.50	89.77	-6,357.54	-479.45	2,064.20	1,801.81	262.39	7.867	
16,200.00	7,630.00	15,553.94	7,611.91	130.79	136.45	89.80	-6,470.26	-478.77	2,063.24	1,797.07	266.17	7.752	
16,300.00	7,630.00	15,652.08	7,612.45	132.48	138.15	89.82	-6,568.39	-478.01	2,062.13	1,792.57	269.55	7.650	
16,400.00	7,630.00	15,757.63	7,612.50	134.17	139.98	89.82	-6,673.94	-477.20	2,061.03	1,787.89	273.14	7.546	
16,500.00	7,630.00	15,869.81	7,612.09	135.86	141.93	89.81	-6,786.10	-475.77	2,059.42	1,782.53	276.89	7.438	
16,600.00	7,630.00	15,993.66	7,611.14	137.55	144.09	89.78	-6,909.92	-473.05	2,056.87	1,775.94	280.93	7.322	
16,700.00	7,630.00	16,080.22	7,610.17	139.24	145.60	89.75	-6,996.44	-470.63	2,053.80	1,769.75	284.04	7.231	
16,800.00	7,630.00	16,143.79	7,609.68	140.94	146.70	89.74	-7,060.00	-469.92	2,052.31	1,765.79	286.52	7.163	
16,900.00	7,630.00	16,234.83	7,609.07	142.64	148.28	89.72	-7,151.05	-469.85	2,051.91	1,762.20	289.71	7.083	
17,000.00	7,630.00	16,331.35	7,608.04	144.34	149.96	89.69	-7,247.56	-469.99	2,051.72	1,758.67	293.05	7.001	
17,004.51	7,630.00	16,335.08	7,608.01	144.41	150.02	89.69	-7,251.29	-470.00	2,051.72	1,758.53	293.18	6.998	
17,100.00	7,630.00	16,415.01	7,608.70	146.04	151.41	89.71	-7,331.21	-470.60	2,052.10	1,756.07	296.03	6.932	
17,200.00	7,630.00	16,506.42	7,611.19	147.74	152.99	89.78	-7,422.58	-471.82	2,053.08	1,753.86	299.23	6.861	
17,300.00	7,630.00	16,604.46	7,614.57	149.44	154.69	89.88	-7,520.54	-473.39	2,054.34	1,751.71	302.63	6.788	
17,400.00	7,630.00	16,705.55	7,618.38	151.15	156.44	89.98	-7,621.55	-474.96	2,055.55	1,749.42	306.13	6.715	
17,500.00	7,630.00	16,803.47	7,622.45	152.86	158.14	90.10	-7,719.38	-476.56	2,056.85	1,747.32	309.53	6.645	
17,600.00	7,630.00	16,910.00	7,626.84	154.56	159.99	90.22	-7,825.80	-478.24	2,058.10	1,744.90	313.20	6.571	
17,700.00	7,630.00	17,000.17	7,628.88	156.27	161.55	90.27	-7,915.94	-479.53	2,059.22	1,742.86	316.36	6.509	
17,800.00	7,630.00	17,087.93	7,630.04	157.98	163.07	90.31	-8,003.67	-481.43	2,061.06	1,741.62	319.43	6.452	
17,900.00	7,630.00	17,180.27	7,631.11	159.70	164.67	90.34	-8,095.97	-483.86	2,063.35	1,740.70	322.64	6.395	
18,000.00	7,630.00	17,269.43	7,631.75	161.41	166.21	90.35	-8,185.09	-486.55	2,066.04	1,740.30	325.74	6.343	
18,100.00	7,630.00	17,365.82	7,631.97	163.12	167.88	90.36	-8,281.42	-489.90	2,069.17	1,740.10	329.07	6.288	
18,154.00	7,630.00	17,411.22	7,631.90	164.05	168.66	90.36	-8,326.79	-491.54	2,070.95	1,740.30	330.65	6.263	SF

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 229-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-51.56	786.15	-990.62	1,264.71				
100.00	100.00	88.55	88.55	0.13	0.14	-51.57	786.15	-990.64	1,264.68	1,264.40	0.28	4,562.035	CC
200.00	200.00	188.03	188.03	0.49	0.30	-51.57	786.12	-990.73	1,264.73	1,263.94	0.80	1,588.613	
300.00	300.00	284.77	284.77	0.85	0.57	-51.57	786.14	-990.91	1,264.89	1,263.47	1.42	891.616	
400.00	400.00	379.57	379.57	1.21	0.90	-51.57	786.49	-991.30	1,265.43	1,263.32	2.11	598.667	
500.00	500.00	474.37	474.36	1.57	1.24	-51.56	787.18	-991.90	1,266.38	1,263.57	2.81	450.870	
600.00	600.00	569.15	569.14	1.93	1.58	-51.55	788.22	-992.72	1,267.74	1,264.24	3.50	361.841	
700.00	700.00	669.99	669.97	2.29	1.94	-51.54	789.43	-993.75	1,269.29	1,265.07	4.22	300.763	
800.00	800.00	766.43	766.39	2.64	2.28	-51.52	790.69	-994.77	1,270.93	1,266.01	4.92	258.222	
900.00	900.00	876.55	876.44	3.00	2.66	-51.37	794.28	-994.02	1,272.45	1,266.78	5.67	224.591	
1,000.00	1,000.00	982.69	982.24	3.36	3.04	-51.00	801.15	-989.31	1,273.04	1,266.64	6.40	199.005	
1,100.00	1,100.00	1,078.24	1,077.38	3.72	3.38	-50.60	808.41	-984.26	1,273.75	1,266.65	7.10	179.438	
1,200.00	1,200.00	1,202.44	1,200.96	4.08	3.83	-50.04	818.30	-976.69	1,274.24	1,266.33	7.91	161.067	
1,300.00	1,300.00	1,293.69	1,291.77	4.44	4.17	-49.64	824.92	-970.79	1,273.95	1,265.34	8.61	147.982	
1,400.00	1,400.00	1,395.51	1,392.82	4.79	4.56	-49.08	834.06	-962.34	1,273.49	1,264.13	9.35	136.136	
1,432.08	1,432.08	1,423.21	1,420.27	4.91	4.67	-86.73	836.83	-959.89	1,273.44	1,263.86	9.58	132.975	
1,500.00	1,499.98	1,489.45	1,485.90	5.15	4.93	-86.39	843.75	-954.11	1,273.56	1,263.48	10.08	126.351	
1,594.46	1,594.31	1,582.01	1,577.15	5.49	5.30	-85.91	855.37	-943.86	1,273.31	1,262.52	10.79	118.000	
1,600.00	1,599.84	1,586.55	1,581.61	5.51	5.32	-85.89	855.98	-943.34	1,273.31	1,262.48	10.83	117.581	ES
1,700.00	1,699.45	1,665.19	1,659.01	5.87	5.65	-85.55	867.00	-934.81	1,274.03	1,262.52	11.51	110.653	
1,800.00	1,798.70	1,745.09	1,737.66	6.23	5.99	-85.32	878.99	-927.50	1,276.38	1,264.17	12.21	104.531	
1,900.00	1,897.47	1,849.99	1,840.73	6.60	6.44	-85.15	895.77	-917.53	1,278.91	1,265.87	13.04	98.107	
2,000.00	1,995.62	1,940.21	1,929.34	6.99	6.84	-85.12	910.22	-908.63	1,280.93	1,267.12	13.81	92.731	
2,100.00	2,093.06	2,026.06	2,013.75	7.39	7.21	-85.26	924.29	-901.88	1,284.29	1,269.70	14.59	88.029	
2,200.00	2,189.64	2,171.46	2,156.45	7.82	7.86	-85.70	948.32	-887.75	1,286.36	1,270.68	15.68	82.047	
2,222.37	2,211.12	2,188.55	2,173.20	7.92	7.94	-85.76	951.03	-885.77	1,286.33	1,270.47	15.86	81.117	
2,300.00	2,285.27	2,252.16	2,235.58	8.28	8.23	-86.05	961.34	-878.73	1,286.69	1,270.18	16.50	77.968	
2,400.00	2,379.82	2,333.48	2,315.34	8.77	8.60	-86.52	974.97	-870.66	1,288.24	1,270.88	17.36	74.199	
2,500.00	2,473.17	2,411.77	2,392.17	9.31	8.96	-87.08	988.48	-864.04	1,291.21	1,272.97	18.24	70.786	
2,600.00	2,565.21	2,494.29	2,473.17	9.88	9.33	-87.78	1,003.11	-858.31	1,295.71	1,276.54	19.18	67.557	
2,660.67	2,620.37	2,544.14	2,522.16	10.25	9.55	-88.27	1,011.92	-855.41	1,299.09	1,279.32	19.77	65.723	
2,700.00	2,655.96	2,576.25	2,553.73	10.50	9.70	-88.65	1,017.56	-853.80	1,301.57	1,281.42	20.15	64.587	
2,800.00	2,746.43	2,682.08	2,657.73	11.15	10.17	-89.88	1,036.41	-848.38	1,308.35	1,287.07	21.28	61.479	
2,900.00	2,836.90	2,803.43	2,776.60	11.82	10.73	-91.16	1,058.92	-839.18	1,314.12	1,291.59	22.53	58.336	
3,000.00	2,927.37	2,962.93	2,933.20	12.50	11.47	-92.88	1,085.07	-824.04	1,317.93	1,293.98	23.95	55.018	
3,100.00	3,017.85	3,041.47	3,010.50	13.21	11.83	-93.77	1,096.31	-815.89	1,320.02	1,295.01	25.01	52.785	
3,200.00	3,108.32	3,179.30	3,146.09	13.92	12.44	-95.31	1,114.49	-799.21	1,320.30	1,293.98	26.32	50.165	
3,300.00	3,198.79	3,273.90	3,239.36	14.64	12.86	-96.42	1,125.83	-788.16	1,321.18	1,293.73	27.45	48.133	
3,400.00	3,289.27	3,375.60	3,339.51	15.38	13.32	-97.58	1,138.23	-775.53	1,322.11	1,293.50	28.61	46.209	
3,500.00	3,379.74	3,459.59	3,422.06	16.12	13.70	-98.50	1,149.37	-764.80	1,323.79	1,294.07	29.71	44.556	
3,600.00	3,470.21	3,546.23	3,507.41	16.87	14.09	-99.49	1,160.54	-755.01	1,327.01	1,296.19	30.82	43.060	
3,700.00	3,560.68	3,633.05	3,592.79	17.62	14.48	-100.43	1,172.83	-745.17	1,331.29	1,299.37	31.92	41.705	
3,800.00	3,651.16	3,727.88	3,686.37	18.39	14.91	-101.53	1,184.97	-735.76	1,336.70	1,303.65	33.05	40.445	
3,900.00	3,741.63	3,839.46	3,795.99	19.15	15.42	-102.70	1,201.38	-722.95	1,342.06	1,307.80	34.26	39.168	
4,000.00	3,832.10	3,913.13	3,868.36	19.92	15.76	-103.46	1,212.28	-714.59	1,348.01	1,312.71	35.30	38.186	
4,100.00	3,922.57	3,996.95	3,951.12	20.69	16.14	-104.41	1,223.39	-707.24	1,356.08	1,319.71	36.36	37.292	
4,200.00	4,013.05	4,098.62	4,051.31	21.47	16.59	-105.50	1,237.74	-697.64	1,364.38	1,326.87	37.50	36.379	
4,300.00	4,103.52	4,193.69	4,144.84	22.25	17.03	-106.48	1,252.06	-688.44	1,373.27	1,334.65	38.62	35.561	
4,400.00	4,193.99	4,290.35	4,239.88	23.03	17.47	-107.44	1,266.89	-678.94	1,382.54	1,342.80	39.74	34.793	
4,500.00	4,284.47	4,373.69	4,321.80	23.81	17.85	-108.25	1,279.99	-670.95	1,392.57	1,351.79	40.78	34.151	
4,600.00	4,374.94	4,485.86	4,432.42	24.60	18.36	-109.41	1,295.86	-661.43	1,403.61	1,361.67	41.94	33.468	
4,700.00	4,465.41	4,565.49	4,510.79	25.39	18.72	-110.19	1,307.80	-653.91	1,414.39	1,371.45	42.94	32.940	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
4,800.00	4,555.88	4,681.64	4,625.42	26.18	19.24	-111.38	1,323.67	-643.96	1,426.08	1,381.99	44.09	32.343	
4,900.00	4,646.36	4,783.16	4,725.33	26.97	19.70	-112.35	1,338.33	-633.53	1,436.71	1,391.53	45.18	31.799	
5,000.00	4,736.83	4,855.95	4,797.07	27.76	20.03	-113.05	1,348.59	-626.79	1,448.61	1,402.49	46.11	31.414	
5,100.00	4,827.30	4,992.68	4,931.38	28.55	20.67	-114.28	1,369.38	-611.94	1,459.35	1,411.98	47.37	30.806	
5,200.00	4,917.77	5,072.29	5,009.50	29.35	21.04	-114.96	1,381.83	-603.05	1,470.51	1,422.17	48.34	30.417	
5,300.00	5,008.25	5,166.55	5,102.36	30.15	21.47	-115.82	1,395.29	-594.01	1,483.23	1,433.87	49.36	30.048	
5,400.00	5,098.72	5,261.75	5,195.93	30.94	21.91	-116.64	1,409.66	-583.95	1,495.53	1,445.15	50.38	29.686	
5,500.00	5,189.19	5,407.69	5,339.46	31.74	22.58	-117.92	1,430.32	-567.69	1,507.64	1,456.03	51.61	29.212	
5,600.00	5,279.67	5,485.85	5,416.15	32.54	22.95	-118.58	1,441.66	-557.76	1,518.46	1,465.92	52.54	28.902	
5,700.00	5,370.14	5,551.55	5,480.85	33.34	23.25	-119.15	1,450.57	-550.63	1,531.24	1,477.87	53.37	28.689	
5,800.00	5,460.61	5,658.69	5,586.46	34.14	23.73	-120.08	1,465.09	-540.01	1,545.30	1,490.91	54.39	28.411	
5,900.00	5,551.08	5,724.98	5,651.85	34.94	24.03	-120.65	1,474.05	-533.71	1,560.04	1,504.85	55.19	28.266	
6,000.00	5,641.56	5,823.94	5,749.73	35.75	24.46	-121.54	1,486.03	-525.52	1,576.19	1,520.06	56.12	28.084	
6,100.00	5,732.03	5,934.52	5,858.48	36.55	24.96	-122.38	1,503.02	-515.17	1,591.87	1,534.71	57.16	27.848	
6,200.00	5,822.50	5,994.09	5,917.00	37.35	25.24	-122.80	1,512.98	-510.14	1,608.65	1,550.73	57.92	27.772	
6,300.00	5,912.97	6,118.39	6,039.24	38.16	25.81	-123.69	1,532.85	-499.61	1,625.71	1,566.66	59.05	27.532	
6,400.00	6,003.45	6,190.00	6,109.82	38.96	26.14	-124.21	1,543.51	-493.94	1,643.38	1,583.54	59.84	27.463	
6,500.00	6,093.92	6,295.57	6,213.98	39.77	26.60	-125.00	1,558.72	-485.92	1,661.77	1,600.96	60.81	27.328	
6,600.00	6,184.39	6,389.08	6,306.34	40.57	27.01	-125.71	1,571.25	-478.44	1,679.97	1,618.28	61.69	27.234	
6,700.00	6,274.87	6,511.01	6,426.72	41.38	27.55	-126.62	1,587.37	-467.63	1,697.62	1,634.90	62.71	27.070	
6,800.00	6,365.34	6,800.00	6,545.38	42.18	28.90	-127.43	1,605.30	-454.78	1,713.69	1,649.21	64.48	26.577	
6,900.00	6,455.81	6,703.16	6,615.58	42.99	28.45	-127.90	1,616.11	-447.10	1,730.08	1,665.56	64.52	26.813	
7,000.00	6,546.28	6,762.87	6,674.26	43.80	28.72	-128.26	1,625.92	-442.06	1,748.77	1,683.55	65.21	26.816	
7,100.00	6,636.76	6,867.87	6,777.89	44.61	29.19	-128.94	1,641.30	-435.06	1,769.51	1,703.35	66.16	26.748	
7,200.00	6,727.23	6,990.69	6,898.67	45.41	29.75	-129.68	1,660.49	-423.79	1,787.74	1,720.53	67.21	26.598	
7,300.00	6,817.70	7,039.41	6,946.63	46.22	29.97	-129.97	1,668.09	-419.86	1,807.37	1,739.57	67.80	26.656	
7,383.79	6,893.51	7,400.81	7,299.46	46.90	31.39	-133.35	1,682.06	-360.54	1,814.08	1,745.18	68.90	26.329	
7,400.00	6,908.25	7,406.59	7,304.96	47.03	31.41	-135.91	1,680.93	-359.17	1,815.23	1,746.24	68.99	26.312	
7,450.00	6,954.52	7,438.00	7,334.75	47.40	31.49	-145.73	1,673.85	-352.17	1,819.34	1,750.16	69.18	26.297	
7,500.00	7,001.74	7,438.00	7,334.75	47.72	31.49	-158.33	1,673.85	-352.17	1,823.86	1,754.37	69.49	26.247	
7,550.00	7,049.55	7,438.00	7,334.75	47.99	31.49	-174.35	1,673.85	-352.17	1,829.40	1,759.65	69.74	26.231	
7,600.00	7,097.58	7,473.98	7,368.61	48.21	31.53	167.50	1,663.93	-345.20	1,834.85	1,765.03	69.82	26.280	
7,650.00	7,145.48	7,490.12	7,383.71	48.37	31.55	150.65	1,658.88	-342.50	1,841.10	1,771.15	69.95	26.321	
7,700.00	7,192.88	7,527.00	7,417.87	48.48	31.60	136.83	1,646.01	-337.32	1,848.11	1,778.13	69.98	26.410	
7,750.00	7,239.41	7,527.00	7,417.87	48.54	31.60	126.50	1,646.01	-337.32	1,854.77	1,784.64	70.12	26.450	
7,800.00	7,284.72	7,527.00	7,417.87	48.56	31.60	118.70	1,646.01	-337.32	1,862.14	1,791.90	70.24	26.512	
7,850.00	7,328.47	7,527.00	7,417.87	48.54	31.60	112.71	1,646.01	-337.32	1,870.15	1,799.82	70.32	26.594	
7,900.00	7,370.32	7,565.03	7,452.49	48.47	31.60	108.16	1,630.75	-333.62	1,877.37	1,807.07	70.29	26.708	
7,950.00	7,409.96	7,578.74	7,464.79	48.37	31.60	104.48	1,624.73	-332.75	1,885.30	1,814.98	70.32	26.810	
8,000.00	7,447.08	7,616.00	7,497.58	48.24	31.61	101.66	1,607.10	-331.61	1,893.88	1,823.60	70.28	26.948	
8,050.00	7,481.41	7,616.00	7,497.58	48.07	31.61	99.10	1,607.10	-331.61	1,901.57	1,831.22	70.35	27.032	
8,100.00	7,512.67	7,616.00	7,497.58	47.87	31.61	96.89	1,607.10	-331.61	1,909.62	1,839.21	70.41	27.122	
8,150.00	7,540.64	7,648.28	7,525.31	47.65	31.59	95.38	1,590.58	-331.60	1,917.51	1,847.13	70.38	27.245	
8,200.00	7,565.09	7,674.55	7,547.47	47.40	31.57	94.12	1,576.47	-331.86	1,925.07	1,854.69	70.38	27.354	
8,250.00	7,585.85	7,705.00	7,572.68	47.14	31.55	93.20	1,559.41	-332.47	1,932.28	1,861.92	70.36	27.461	
8,300.00	7,602.75	7,777.80	7,630.86	46.86	31.48	93.24	1,515.69	-333.68	1,938.69	1,868.52	70.17	27.629	
8,350.00	7,615.67	7,862.59	7,694.37	46.58	31.38	93.77	1,459.56	-333.56	1,943.51	1,873.66	69.86	27.821	
8,400.00	7,624.51	7,924.59	7,737.18	46.28	31.30	94.17	1,414.75	-332.69	1,947.03	1,877.40	69.63	27.962	
8,450.00	7,629.19	7,980.39	7,772.56	45.98	31.22	94.69	1,371.62	-331.78	1,949.72	1,880.31	69.42	28.087	
8,481.00	7,630.00	7,991.16	7,779.02	45.79	31.20	94.71	1,363.01	-331.67	1,951.20	1,881.75	69.44	28.098	
8,500.00	7,630.00	8,000.39	7,784.46	45.68	31.18	94.87	1,355.56	-331.61	1,952.14	1,882.70	69.44	28.113	
8,600.00	7,630.00	8,062.00	7,818.44	45.11	31.08	95.86	1,304.19	-332.25	1,958.93	1,889.61	69.32	28.259	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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				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	
8,700.00	7,630.00	8,219.24	7,886.49	44.56	30.79	97.84	1,162.70	-332.88	1,964.42	1,895.82	68.59	28.639	
8,800.00	7,630.00	8,440.44	7,935.67	44.05	30.46	99.27	947.86	-331.62	1,966.70	1,898.93	67.77	29.019	
8,825.88	7,630.00	8,461.57	7,937.03	43.93	30.43	99.31	926.77	-331.44	1,966.67	1,898.87	67.79	29.011	
8,900.00	7,630.00	8,526.83	7,938.96	43.57	30.39	99.36	861.54	-331.56	1,966.89	1,899.06	67.83	28.997	
9,000.00	7,630.00	8,636.36	7,941.52	43.12	30.49	99.44	752.04	-331.78	1,967.15	1,899.15	67.99	28.931	
9,063.77	7,630.00	8,699.39	7,943.16	42.85	30.67	99.49	689.03	-331.59	1,967.02	1,898.81	68.21	28.837	
9,100.00	7,630.00	8,723.55	7,943.79	42.70	30.77	99.50	664.89	-331.65	1,967.13	1,898.78	68.35	28.780	
9,200.00	7,630.00	8,809.65	7,946.01	42.31	31.18	99.56	578.82	-332.79	1,968.48	1,899.63	68.84	28.594	
9,300.00	7,630.00	8,968.45	7,951.35	41.94	32.17	99.72	420.12	-332.26	1,968.42	1,898.68	69.73	28.227	
9,400.00	7,630.00	9,061.11	7,952.13	41.59	32.87	99.75	327.47	-331.29	1,967.18	1,896.56	70.63	27.854	
9,500.00	7,630.00	9,157.48	7,951.87	41.26	33.65	99.75	231.11	-330.28	1,965.77	1,894.11	71.66	27.431	
9,600.00	7,630.00	9,245.89	7,953.25	40.96	34.43	99.79	142.71	-329.93	1,965.28	1,892.50	72.77	27.005	
9,700.00	7,630.00	9,342.37	7,955.40	40.68	35.33	99.86	46.27	-328.81	1,964.20	1,890.12	74.08	26.515	
9,714.29	7,630.00	9,350.14	7,955.55	40.64	35.41	99.87	38.50	-328.79	1,964.17	1,889.95	74.22	26.464	
9,800.00	7,630.00	9,398.00	7,956.41	40.42	35.87	99.89	-9.35	-329.30	1,965.03	1,889.97	75.06	26.180	
9,900.00	7,630.00	9,536.64	7,958.87	40.17	37.30	99.95	-147.96	-330.75	1,966.05	1,888.98	77.07	25.510	
10,000.00	7,630.00	9,679.01	7,962.70	39.96	38.87	100.08	-290.26	-328.95	1,964.94	1,885.60	79.34	24.765	
10,100.00	7,630.00	9,775.87	7,964.97	40.05	40.00	100.16	-387.07	-326.36	1,962.40	1,881.22	81.18	24.174	
10,200.00	7,630.00	9,843.00	7,967.16	40.95	40.80	100.22	-454.15	-325.82	1,961.65	1,879.01	82.64	23.737	
10,206.93	7,630.00	9,843.00	7,967.16	41.01	40.80	100.22	-454.15	-325.82	1,961.64	1,878.96	82.67	23.728	
10,300.00	7,630.00	9,919.49	7,970.23	41.94	41.74	100.31	-530.58	-326.23	1,962.40	1,878.10	84.29	23.280	
10,400.00	7,630.00	10,033.91	7,972.99	42.98	43.17	100.39	-644.95	-326.81	1,963.01	1,876.37	86.64	22.656	
10,500.00	7,630.00	10,157.75	7,973.75	44.06	44.77	100.42	-768.79	-325.91	1,961.97	1,872.70	89.27	21.978	
10,600.00	7,630.00	10,267.39	7,971.59	45.17	46.23	100.36	-878.40	-325.48	1,960.93	1,869.19	91.74	21.375	
10,700.00	7,630.00	10,396.64	7,967.85	46.32	48.00	100.27	-1,007.57	-323.17	1,958.23	1,863.56	94.67	20.684	
10,800.00	7,630.00	10,467.00	7,965.72	47.50	48.98	100.21	-1,077.90	-322.11	1,955.89	1,859.35	96.55	20.258	
10,900.00	7,630.00	10,539.60	7,964.34	48.70	50.00	100.17	-1,150.48	-321.95	1,955.01	1,856.53	98.49	19.851	
10,911.58	7,630.00	10,547.94	7,964.27	48.84	50.11	100.17	-1,158.82	-321.99	1,955.00	1,856.29	98.71	19.805	
11,000.00	7,630.00	10,613.98	7,964.38	49.94	51.05	100.17	-1,224.86	-322.58	1,955.52	1,855.04	100.48	19.462	
11,100.00	7,630.00	10,735.09	7,967.60	51.20	52.78	100.26	-1,345.92	-323.65	1,956.61	1,853.08	103.53	18.899	
11,200.00	7,630.00	10,856.56	7,971.98	52.48	54.57	100.40	-1,467.31	-322.71	1,956.17	1,849.51	106.66	18.340	
11,300.00	7,630.00	10,973.22	7,974.89	53.79	56.31	100.49	-1,583.91	-320.87	1,954.74	1,845.00	109.74	17.812	
11,400.00	7,630.00	11,074.92	7,974.18	55.12	57.84	100.48	-1,685.59	-319.17	1,952.64	1,840.10	112.54	17.351	
11,500.00	7,630.00	11,178.49	7,970.83	56.46	59.41	100.39	-1,789.09	-318.13	1,950.73	1,835.32	115.42	16.901	
11,600.00	7,630.00	11,289.00	7,967.32	57.83	61.10	100.30	-1,899.53	-316.42	1,948.30	1,829.80	118.50	16.441	
11,700.00	7,630.00	11,380.93	7,964.84	59.22	62.53	100.24	-1,991.42	-314.86	1,945.82	1,824.63	121.19	16.056	
11,800.00	7,630.00	11,468.09	7,962.97	60.62	63.88	100.19	-2,078.56	-313.78	1,943.88	1,820.10	123.79	15.704	
11,900.00	7,630.00	11,551.12	7,961.41	62.04	65.18	100.15	-2,161.57	-313.35	1,942.71	1,816.41	126.30	15.382	
11,973.18	7,630.00	11,610.02	7,960.41	63.09	66.10	100.12	-2,220.46	-313.50	1,942.44	1,814.34	128.09	15.164	
12,000.00	7,630.00	11,631.52	7,960.08	63.48	66.44	100.11	-2,241.96	-313.66	1,942.47	1,813.73	128.75	15.087	
12,100.00	7,630.00	11,708.14	7,959.12	64.93	67.64	100.08	-2,318.56	-314.76	1,943.33	1,812.23	131.10	14.823	
12,200.00	7,630.00	11,784.03	7,958.43	66.39	68.83	100.05	-2,394.42	-316.75	1,945.43	1,811.99	133.44	14.579	
12,300.00	7,630.00	11,868.01	7,957.49	67.86	70.14	100.01	-2,478.33	-319.98	1,948.67	1,812.68	135.99	14.329	
12,400.00	7,630.00	11,958.41	7,956.57	69.35	71.56	99.96	-2,568.65	-323.88	1,952.41	1,813.68	138.74	14.073	
12,500.00	7,630.00	12,052.86	7,956.00	70.85	73.05	99.93	-2,662.98	-328.39	1,956.67	1,815.06	141.61	13.817	
12,600.00	7,630.00	12,169.87	7,956.59	72.36	74.91	99.92	-2,779.88	-333.43	1,960.69	1,815.54	145.15	13.508	
12,700.00	7,630.00	12,273.37	7,957.58	73.88	76.57	99.93	-2,883.31	-337.07	1,963.99	1,815.67	148.32	13.241	
12,800.00	7,630.00	12,387.18	7,958.82	75.41	78.40	99.95	-2,997.07	-340.35	1,966.65	1,814.84	151.81	12.954	
12,900.00	7,630.00	12,470.05	7,959.08	76.95	79.74	99.95	-3,079.89	-343.06	1,969.60	1,815.17	154.43	12.754	
13,000.00	7,630.00	12,552.02	7,959.22	78.49	81.06	99.94	-3,161.79	-346.62	1,973.56	1,816.53	157.02	12.569	
13,100.00	7,630.00	12,657.55	7,960.10	80.05	82.77	99.94	-3,267.21	-351.28	1,977.72	1,817.39	160.32	12.336	
13,200.00	7,630.00	12,760.21	7,960.80	81.61	84.43	99.94	-3,369.77	-355.65	1,981.70	1,818.14	163.55	12.117	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
13,300.00	7,630.00	12,867.61	7,961.25	83.18	86.19	99.93	-3,477.08	-360.03	1,985.46	1,818.52	166.94	11.893	
13,400.00	7,630.00	13,072.25	7,957.49	84.76	89.56	99.81	-3,681.60	-364.48	1,987.58	1,814.48	173.10	11.482	
13,500.00	7,630.00	13,256.73	7,949.61	86.34	92.65	99.61	-3,865.81	-358.65	1,983.14	1,804.68	178.47	11.112	
13,600.00	7,630.00	13,387.62	7,945.78	87.94	94.87	99.54	-3,996.40	-350.70	1,976.31	1,793.87	182.44	10.832	
13,700.00	7,630.00	13,516.26	7,943.33	89.53	97.06	99.52	-4,124.63	-340.78	1,968.07	1,781.73	186.34	10.562	
13,800.00	7,630.00	13,673.85	7,944.39	91.13	99.77	99.64	-4,281.28	-323.82	1,957.04	1,766.26	190.77	10.258	
13,900.00	7,630.00	13,760.41	7,945.77	92.74	101.26	99.73	-4,367.22	-313.52	1,945.25	1,751.46	193.80	10.037	
14,000.00	7,630.00	13,831.83	7,946.81	94.35	102.50	99.80	-4,438.22	-305.85	1,934.60	1,738.09	196.51	9.845	
14,100.00	7,630.00	13,898.02	7,947.87	95.97	103.64	99.87	-4,504.12	-299.81	1,925.57	1,726.49	199.08	9.672	
14,200.00	7,630.00	13,964.00	7,948.77	97.60	104.77	99.92	-4,569.92	-295.08	1,918.37	1,716.78	201.59	9.516	
14,300.00	7,630.00	14,025.18	7,949.58	99.22	105.82	99.96	-4,631.02	-291.86	1,913.05	1,709.12	203.93	9.381	
14,400.00	7,630.00	14,086.94	7,950.49	100.85	106.87	100.00	-4,692.73	-289.77	1,909.65	1,703.45	206.20	9.261	
14,500.00	7,630.00	14,142.00	7,951.15	102.49	107.81	100.02	-4,747.78	-289.05	1,908.33	1,700.13	208.20	9.166	
14,516.30	7,630.00	14,156.33	7,951.29	102.76	108.05	100.03	-4,762.11	-289.04	1,908.30	1,699.62	208.68	9.145	
14,600.00	7,630.00	14,204.33	7,951.60	104.13	108.86	100.03	-4,810.10	-289.65	1,909.15	1,698.83	210.32	9.077	
14,700.00	7,630.00	14,279.85	7,951.70	105.77	110.13	100.03	-4,885.58	-292.10	1,911.97	1,699.14	212.82	8.984	
14,800.00	7,630.00	14,388.57	7,951.54	107.42	111.96	100.00	-4,994.23	-296.01	1,915.17	1,698.75	216.41	8.850	
14,900.00	7,630.00	14,548.38	7,952.10	109.07	114.66	100.01	-5,154.01	-298.36	1,916.32	1,694.72	221.60	8.648	
15,000.00	7,630.00	14,652.08	7,954.11	110.72	116.43	100.07	-5,257.69	-297.63	1,915.62	1,690.60	225.02	8.513	
15,062.46	7,630.00	14,704.21	7,955.26	111.76	117.32	100.11	-5,309.81	-297.42	1,915.42	1,688.65	226.78	8.446	
15,100.00	7,630.00	14,733.59	7,955.88	112.38	117.83	100.13	-5,339.18	-297.48	1,915.50	1,687.73	227.77	8.410	
15,200.00	7,630.00	14,812.60	7,957.28	114.04	119.17	100.17	-5,418.17	-298.28	1,916.49	1,686.06	230.43	8.317	
15,300.00	7,630.00	14,891.24	7,958.05	115.71	120.51	100.18	-5,496.79	-300.06	1,918.55	1,685.50	233.06	8.232	
15,400.00	7,630.00	14,973.52	7,958.20	117.37	121.90	100.17	-5,579.02	-302.98	1,921.73	1,685.94	235.79	8.150	
15,500.00	7,630.00	15,084.27	7,958.97	119.04	123.77	100.18	-5,689.68	-307.22	1,925.32	1,685.83	239.48	8.040	
15,600.00	7,630.00	15,198.29	7,962.37	120.71	125.72	100.26	-5,803.61	-309.83	1,927.74	1,684.48	243.26	7.925	
15,700.00	7,630.00	15,307.03	7,966.79	122.39	127.57	100.38	-5,912.25	-311.66	1,929.80	1,682.96	246.84	7.818	
15,800.00	7,630.00	15,412.49	7,970.33	124.06	129.38	100.48	-6,017.64	-313.07	1,931.38	1,681.05	250.33	7.715	
15,900.00	7,630.00	15,509.57	7,973.26	125.74	131.04	100.56	-6,114.67	-314.55	1,933.10	1,679.54	253.56	7.624	
16,000.00	7,630.00	15,625.05	7,977.12	127.42	133.03	100.67	-6,230.07	-315.79	1,934.44	1,677.07	257.37	7.516	
16,100.00	7,630.00	15,724.07	7,980.08	129.10	134.73	100.75	-6,329.05	-316.34	1,935.22	1,674.55	260.66	7.424	
16,200.00	7,630.00	15,826.64	7,983.66	130.79	136.49	100.86	-6,431.56	-316.99	1,936.16	1,672.10	264.06	7.332	
16,300.00	7,630.00	15,911.34	7,986.55	132.48	137.95	100.94	-6,516.20	-317.71	1,937.33	1,670.43	266.89	7.259	
16,400.00	7,630.00	15,998.10	7,989.28	134.17	139.44	101.01	-6,602.90	-319.21	1,939.29	1,669.51	269.78	7.188	
16,500.00	7,630.00	16,086.07	7,992.23	135.86	140.95	101.09	-6,690.80	-321.26	1,941.89	1,669.19	272.70	7.121	
16,600.00	7,630.00	16,171.07	7,995.05	137.55	142.41	101.15	-6,775.71	-323.83	1,945.17	1,669.67	275.50	7.060	
16,700.00	7,630.00	16,247.90	7,997.35	139.24	143.72	101.20	-6,852.45	-326.94	1,949.40	1,671.40	277.99	7.012	
16,800.00	7,630.00	16,335.53	7,999.72	140.94	145.21	101.25	-6,939.92	-331.54	1,954.72	1,673.85	280.87	6.960	
16,900.00	7,630.00	16,428.17	8,002.31	142.64	146.79	101.30	-7,032.39	-336.65	1,960.35	1,676.43	283.92	6.905	
17,000.00	7,630.00	16,523.53	8,004.03	144.34	148.41	101.31	-7,127.55	-342.48	1,966.37	1,679.28	287.09	6.849	
17,100.00	7,630.00	16,624.72	8,005.61	146.04	150.13	101.32	-7,228.54	-348.77	1,972.44	1,681.95	290.49	6.790	
17,200.00	7,630.00	16,719.91	8,006.53	147.74	151.75	101.32	-7,323.52	-354.84	1,978.55	1,684.88	293.67	6.737	
17,300.00	7,630.00	16,886.51	8,005.16	149.44	154.59	101.23	-7,489.87	-363.71	1,983.39	1,683.85	299.53	6.622	
17,400.00	7,630.00	17,048.86	8,001.19	151.15	157.39	101.10	-7,652.13	-366.94	1,984.44	1,679.43	305.00	6.506	
17,500.00	7,630.00	17,176.09	7,995.62	152.86	159.60	100.95	-7,779.24	-367.19	1,983.44	1,674.16	309.28	6.413	
17,600.00	7,630.00	17,305.64	7,990.25	154.56	161.85	100.81	-7,908.66	-365.60	1,981.14	1,667.58	313.56	6.318	
17,700.00	7,630.00	17,454.56	7,991.00	156.27	164.46	100.86	-8,057.42	-359.48	1,976.89	1,658.78	318.12	6.214	
17,800.00	7,630.00	17,568.90	7,995.46	157.98	166.47	101.03	-8,171.43	-352.07	1,970.93	1,649.18	321.75	6.126	
17,900.00	7,630.00	17,676.98	8,000.00	159.70	168.38	101.21	-8,279.14	-344.40	1,964.44	1,639.21	325.23	6.040	
18,000.00	7,630.00	17,780.05	8,004.38	161.41	170.20	101.38	-8,381.83	-336.69	1,957.59	1,628.98	328.61	5.957	
18,100.00	7,630.00	17,796.00	8,005.06	163.12	170.48	101.41	-8,397.72	-335.49	1,952.51	1,622.49	330.03	5.916	
18,150.48	7,630.00	17,796.00	8,005.06	163.99	170.48	101.41	-8,397.72	-335.49	1,951.86	1,621.58	330.28	5.910	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
18,154.00	7,630.00	17,796.00	8,005.06	164.05	170.48	101.41	-8,397.72	-335.49	1,951.86	1,621.57	330.29	5.910 SF	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
0.00	0.00	0.00	0.00	0.00	0.00	-51.29	786.15	-980.82	1,257.05				
100.00	100.00	87.79	87.79	0.13	0.15	-51.29	786.13	-980.85	1,257.00	1,256.72	0.28	4,481.891	
200.00	200.00	187.55	187.55	0.49	0.31	-51.29	786.04	-980.95	1,257.03	1,256.23	0.80	1,561.755	
300.00	300.00	287.32	287.32	0.85	0.48	-51.31	785.89	-981.13	1,257.08	1,255.75	1.33	945.665	
400.00	400.00	385.06	385.06	1.21	0.76	-51.31	785.80	-981.35	1,257.20	1,255.22	1.97	637.339	
500.00	500.00	481.90	481.90	1.57	1.10	-51.31	786.14	-981.52	1,257.55	1,254.89	2.67	471.234	
600.00	600.00	578.74	578.73	1.93	1.44	-51.28	786.93	-981.65	1,258.17	1,254.80	3.36	373.937	
700.00	700.00	682.74	682.73	2.29	1.80	-51.26	787.65	-981.86	1,258.76	1,254.67	4.09	308.007	
800.00	800.00	783.54	783.46	2.64	2.15	-51.11	790.57	-980.04	1,259.17	1,254.37	4.80	262.449	
900.00	900.00	884.84	884.61	3.00	2.51	-50.85	795.09	-976.78	1,259.47	1,253.96	5.51	228.516	
1,000.00	1,000.00	985.77	985.28	3.36	2.87	-50.53	800.82	-972.40	1,259.72	1,253.48	6.23	202.140	
1,100.00	1,100.00	1,080.00	1,078.98	3.72	3.22	-50.08	808.70	-966.34	1,260.12	1,253.18	6.94	181.644	
1,200.00	1,200.00	1,220.59	1,218.58	4.08	3.75	-49.33	820.45	-954.72	1,259.20	1,251.37	7.83	160.917	
1,300.00	1,300.00	1,310.54	1,307.88	4.44	4.10	-48.84	827.07	-946.23	1,256.90	1,248.37	8.53	147.327	
1,370.24	1,370.24	1,361.73	1,358.60	4.69	4.30	-48.53	832.01	-941.34	1,256.33	1,247.35	8.98	139.835	CC
1,400.00	1,400.00	1,384.90	1,381.51	4.79	4.39	-48.37	834.68	-939.05	1,256.41	1,247.22	9.19	136.777	ES
1,500.00	1,499.98	1,463.46	1,458.69	5.15	4.72	-85.55	846.23	-930.12	1,257.68	1,247.81	9.87	127.444	
1,600.00	1,599.84	1,538.48	1,531.89	5.51	5.05	-84.92	859.86	-921.00	1,260.63	1,250.08	10.55	119.504	
1,700.00	1,699.45	1,648.12	1,638.95	5.87	5.54	-84.23	879.88	-908.55	1,264.08	1,252.68	11.40	110.887	
1,800.00	1,798.70	1,724.06	1,713.45	6.23	5.88	-83.93	892.83	-901.50	1,267.86	1,255.77	12.09	104.875	
1,900.00	1,897.47	1,849.74	1,836.82	6.60	6.44	-83.71	913.87	-890.10	1,271.35	1,258.33	13.03	97.591	
2,000.00	1,995.62	1,954.54	1,939.85	6.99	6.91	-83.72	929.66	-879.14	1,272.21	1,258.32	13.88	91.642	
2,100.00	2,093.06	2,056.55	2,040.22	7.39	7.36	-83.93	945.16	-869.54	1,273.56	1,258.82	14.74	86.383	
2,200.00	2,189.64	2,196.77	2,178.03	7.82	8.00	-84.43	964.99	-852.97	1,271.97	1,256.16	15.81	80.454	
2,300.00	2,285.27	2,280.85	2,260.60	8.28	8.38	-84.88	976.74	-842.42	1,269.61	1,252.96	16.66	76.227	
2,400.00	2,379.82	2,362.95	2,341.24	8.77	8.76	-85.43	988.89	-832.92	1,268.34	1,250.81	17.53	72.370	
2,450.43	2,427.05	2,403.71	2,381.28	9.04	8.94	-85.74	995.16	-828.56	1,268.16	1,250.19	17.98	70.536	
2,500.00	2,473.17	2,444.68	2,421.53	9.31	9.13	-86.09	1,001.58	-824.45	1,268.33	1,249.90	18.43	68.819	
2,600.00	2,565.21	2,535.53	2,510.91	9.88	9.54	-86.98	1,015.60	-816.16	1,269.27	1,249.86	19.41	65.382	
2,660.67	2,620.37	2,589.99	2,564.58	10.25	9.79	-87.59	1,023.76	-811.71	1,270.22	1,250.19	20.03	63.420	
2,700.00	2,655.96	2,623.14	2,597.26	10.50	9.93	-88.00	1,028.69	-809.17	1,271.05	1,250.62	20.42	62.237	
2,800.00	2,746.43	2,709.89	2,682.69	11.15	10.32	-89.04	1,042.28	-802.75	1,274.21	1,252.76	21.46	59.390	
2,900.00	2,836.90	2,814.29	2,785.17	11.82	10.80	-90.21	1,060.17	-793.97	1,278.03	1,255.42	22.61	56.527	
3,000.00	2,927.37	2,965.68	2,933.37	12.50	11.53	-91.79	1,085.88	-776.95	1,280.13	1,256.11	24.02	53.293	
3,019.05	2,944.61	2,984.20	2,951.49	12.64	11.61	-91.98	1,088.82	-774.48	1,280.12	1,255.88	24.24	52.805	
3,100.00	3,017.85	3,060.64	3,026.18	13.21	11.98	-92.75	1,101.31	-764.07	1,280.27	1,255.10	25.17	50.855	
3,200.00	3,108.32	3,157.96	3,121.68	13.92	12.44	-93.81	1,115.89	-752.37	1,281.37	1,255.03	26.34	48.649	
3,300.00	3,198.79	3,284.71	3,245.94	14.64	13.04	-95.18	1,133.79	-734.90	1,280.92	1,253.29	27.63	46.357	
3,381.92	3,272.91	3,357.91	3,317.69	15.25	13.38	-95.97	1,143.78	-724.43	1,280.45	1,251.89	28.56	44.831	
3,400.00	3,289.27	3,372.76	3,332.30	15.38	13.45	-96.15	1,145.65	-722.49	1,280.48	1,251.72	28.76	44.522	
3,500.00	3,379.74	3,451.52	3,409.88	16.12	13.81	-97.08	1,155.37	-713.04	1,281.67	1,251.83	29.84	42.951	
3,600.00	3,470.21	3,531.32	3,488.36	16.87	14.18	-97.98	1,166.61	-703.97	1,284.77	1,253.85	30.92	41.547	
3,700.00	3,560.68	3,623.59	3,578.94	17.62	14.61	-98.98	1,180.96	-693.81	1,289.33	1,257.26	32.07	40.206	
3,800.00	3,651.16	3,718.29	3,671.90	18.39	15.06	-99.99	1,195.61	-683.28	1,294.23	1,261.01	33.23	38.952	
3,900.00	3,741.63	3,842.71	3,793.73	19.15	15.66	-101.25	1,215.98	-668.39	1,299.35	1,264.82	34.53	37.630	
4,000.00	3,832.10	3,913.51	3,863.12	19.92	15.99	-101.98	1,227.09	-659.74	1,304.24	1,268.67	35.57	36.665	
4,100.00	3,922.57	3,995.88	3,944.12	20.69	16.38	-102.87	1,239.65	-651.67	1,311.45	1,274.80	36.65	35.786	
4,200.00	4,013.05	4,098.35	4,044.98	21.47	16.85	-103.99	1,254.64	-641.55	1,318.85	1,281.04	37.81	34.883	
4,300.00	4,103.52	4,190.13	4,135.15	22.25	17.28	-104.94	1,269.09	-632.30	1,326.96	1,288.04	38.92	34.096	
4,400.00	4,193.99	4,278.74	4,222.07	23.03	17.69	-105.82	1,283.78	-623.41	1,335.83	1,295.82	40.01	33.388	
4,500.00	4,284.47	4,390.81	4,332.23	23.81	18.22	-106.96	1,301.44	-612.86	1,345.45	1,304.24	41.21	32.650	
4,600.00	4,374.94	4,506.18	4,445.13	24.60	18.77	-108.02	1,320.93	-599.36	1,353.64	1,311.20	42.44	31.898	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
4,700.00	4,465.41	4,604.18	4,540.67	25.39	19.27	-108.86	1,338.64	-586.57	1,361.29	1,317.70	43.59	31.228	
4,800.00	4,555.88	4,677.00	4,611.89	26.18	19.63	-109.50	1,351.44	-578.44	1,370.75	1,326.16	44.59	30.739	
4,900.00	4,646.36	4,784.73	4,717.43	26.97	20.14	-110.47	1,369.87	-567.24	1,381.28	1,335.52	45.76	30.186	
5,000.00	4,736.83	4,905.96	4,836.20	27.76	20.73	-111.58	1,389.10	-552.41	1,389.95	1,342.98	46.97	29.592	
5,100.00	4,827.30	4,990.68	4,919.09	28.55	21.14	-112.32	1,402.93	-541.65	1,398.75	1,350.75	48.00	29.140	
5,200.00	4,917.77	5,066.89	4,993.85	29.35	21.50	-113.01	1,415.08	-533.18	1,409.26	1,360.30	48.96	28.782	
5,300.00	5,008.25	5,162.14	5,087.72	30.15	21.94	-113.94	1,428.51	-524.23	1,421.33	1,371.35	49.98	28.436	
5,400.00	5,098.72	5,275.92	5,199.90	30.94	22.45	-115.08	1,443.24	-512.27	1,432.47	1,381.41	51.06	28.053	
5,500.00	5,189.19	5,386.62	5,309.00	31.74	22.95	-116.16	1,457.37	-499.86	1,443.40	1,391.29	52.12	27.696	
5,600.00	5,279.67	5,497.16	5,417.42	32.54	23.47	-117.14	1,473.42	-485.54	1,453.29	1,400.10	53.19	27.324	
5,700.00	5,370.14	5,567.00	5,486.01	33.34	23.80	-117.76	1,483.50	-477.12	1,464.40	1,410.33	54.06	27.087	
5,800.00	5,460.61	5,665.24	5,582.65	34.14	24.26	-118.63	1,497.41	-466.21	1,476.74	1,421.69	55.05	26.826	
5,900.00	5,551.08	5,770.76	5,686.41	34.94	24.75	-119.56	1,512.15	-453.98	1,488.92	1,432.86	56.06	26.561	
6,000.00	5,641.56	5,873.30	5,787.26	35.75	25.23	-120.45	1,526.12	-441.77	1,501.10	1,444.06	57.04	26.319	
6,100.00	5,732.03	5,956.48	5,868.95	36.55	25.61	-121.15	1,538.02	-431.56	1,513.38	1,455.46	57.92	26.129	
6,200.00	5,822.50	6,020.20	5,931.82	37.35	25.90	-121.72	1,546.13	-425.19	1,527.94	1,469.27	58.67	26.043	
6,300.00	5,912.97	6,123.02	6,033.36	38.16	26.35	-122.62	1,559.22	-415.64	1,543.57	1,483.97	59.60	25.899	
6,400.00	6,003.45	6,224.95	6,133.89	38.96	26.81	-123.47	1,572.84	-405.72	1,559.15	1,498.62	60.53	25.759	
6,500.00	6,093.92	6,330.34	6,237.81	39.77	27.28	-124.35	1,586.70	-395.03	1,574.63	1,513.17	61.46	25.619	
6,600.00	6,184.39	6,445.56	6,351.35	40.57	27.81	-125.29	1,601.68	-382.34	1,589.59	1,527.16	62.43	25.461	
6,700.00	6,274.87	6,560.66	6,464.53	41.38	28.34	-126.19	1,617.00	-368.05	1,603.44	1,540.04	63.40	25.292	
6,800.00	6,365.34	6,636.00	6,538.71	42.18	28.69	-126.79	1,626.44	-358.90	1,617.87	1,553.71	64.16	25.216	
6,900.00	6,455.81	6,723.00	6,624.60	42.99	29.07	-127.52	1,636.24	-349.14	1,633.52	1,568.58	64.94	25.155	
7,000.00	6,546.28	6,803.03	6,703.73	43.80	29.41	-128.19	1,644.77	-340.74	1,650.21	1,584.55	65.66	25.133	
7,100.00	6,636.76	7,165.90	7,057.41	44.61	30.66	-132.91	1,628.75	-276.13	1,662.04	1,596.04	66.00	25.182	
7,200.00	6,727.23	7,171.00	7,062.16	45.41	30.67	-133.01	1,627.49	-274.78	1,668.06	1,601.37	66.69	25.011	
7,300.00	6,817.70	7,223.16	7,110.64	46.22	30.75	-134.07	1,612.70	-262.56	1,677.51	1,610.53	66.98	25.046	
7,383.79	6,893.51	7,261.00	7,145.58	46.90	30.81	-134.88	1,599.91	-255.70	1,689.82	1,622.66	67.16	25.161	
7,400.00	6,908.25	7,261.00	7,145.58	47.03	30.81	-137.49	1,599.91	-255.70	1,692.39	1,625.17	67.22	25.176	
7,450.00	6,954.52	7,261.00	7,145.58	47.40	30.81	-147.34	1,599.91	-255.70	1,701.05	1,633.68	67.38	25.247	
7,500.00	7,001.74	7,261.00	7,145.58	47.72	30.81	-160.46	1,599.91	-255.70	1,710.71	1,643.23	67.49	25.349	
7,550.00	7,049.55	7,291.64	7,173.61	47.99	30.83	-177.42	1,588.36	-251.27	1,720.53	1,653.07	67.46	25.505	
7,600.00	7,097.58	7,307.87	7,188.34	48.21	30.84	164.08	1,581.84	-249.26	1,730.90	1,663.44	67.46	25.659	
7,650.00	7,145.48	7,324.37	7,203.22	48.37	30.85	146.73	1,574.94	-247.47	1,741.52	1,674.09	67.43	25.826	
7,700.00	7,192.88	7,350.00	7,226.12	48.48	30.86	132.47	1,563.67	-245.19	1,752.35	1,684.98	67.37	26.010	
7,750.00	7,239.41	7,365.39	7,239.73	48.54	30.86	121.65	1,556.58	-244.02	1,763.03	1,695.71	67.32	26.187	
7,800.00	7,284.72	7,398.26	7,268.36	48.56	30.85	113.43	1,540.62	-241.61	1,773.34	1,706.11	67.23	26.379	
7,850.00	7,328.47	7,439.00	7,302.97	48.54	30.85	107.18	1,519.31	-238.81	1,783.07	1,715.97	67.10	26.572	
7,900.00	7,370.32	7,463.56	7,323.31	48.47	30.83	102.39	1,505.65	-237.22	1,792.08	1,725.07	67.02	26.741	
7,950.00	7,409.96	7,495.76	7,349.32	48.37	30.81	98.63	1,486.77	-235.27	1,800.39	1,733.48	66.91	26.908	
8,000.00	7,447.08	7,528.00	7,374.56	48.24	30.79	95.67	1,466.79	-233.46	1,807.92	1,741.11	66.80	27.063	
8,050.00	7,481.41	7,555.32	7,395.31	48.07	30.76	93.31	1,449.08	-232.11	1,814.68	1,747.96	66.72	27.198	
8,100.00	7,512.67	7,582.59	7,415.43	47.87	30.72	91.45	1,430.71	-230.98	1,820.71	1,754.06	66.65	27.317	
8,150.00	7,540.64	7,617.00	7,439.95	47.65	30.69	90.05	1,406.59	-229.89	1,826.00	1,759.44	66.56	27.434	
8,200.00	7,565.09	7,617.00	7,439.95	47.40	30.69	88.71	1,406.59	-229.89	1,830.67	1,764.02	66.64	27.470	
8,250.00	7,585.85	7,651.87	7,463.71	47.14	30.63	87.98	1,381.08	-229.35	1,834.47	1,767.88	66.59	27.550	
8,300.00	7,602.75	7,671.67	7,476.69	46.86	30.59	87.36	1,366.13	-229.38	1,837.81	1,771.19	66.62	27.587	
8,350.00	7,615.67	7,707.00	7,498.87	46.58	30.54	87.19	1,338.64	-230.06	1,840.73	1,774.14	66.59	27.642	
8,400.00	7,624.51	7,707.00	7,498.87	46.28	30.54	86.74	1,338.64	-230.06	1,842.77	1,776.00	66.77	27.599	
8,450.00	7,629.19	7,733.00	7,514.35	45.98	30.48	86.88	1,317.78	-231.00	1,844.36	1,777.53	66.83	27.599	
8,481.00	7,630.00	7,746.51	7,522.09	45.79	30.46	87.02	1,306.72	-231.61	1,845.06	1,778.18	66.88	27.587	
8,500.00	7,630.00	7,754.81	7,526.75	45.68	30.44	87.16	1,299.86	-232.02	1,845.49	1,778.57	66.92	27.579	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
8,600.00	7,630.00	7,812.50	7,556.89	45.11	30.32	88.10	1,250.83	-235.64	1,849.70	1,782.70	67.01	27.605	
8,700.00	7,630.00	8,031.43	7,637.73	44.56	29.86	90.61	1,048.29	-242.96	1,852.82	1,786.74	66.08	28.037	
8,800.00	7,630.00	8,147.00	7,660.56	44.05	29.64	91.32	935.05	-241.84	1,851.78	1,785.87	65.91	28.094	
8,900.00	7,630.00	8,255.83	7,672.65	43.57	29.47	91.69	826.93	-240.57	1,850.55	1,784.62	65.93	28.067	
9,000.00	7,630.00	8,358.08	7,677.65	43.12	29.44	91.85	724.82	-239.61	1,849.43	1,783.30	66.13	27.966	
9,100.00	7,630.00	9,100.00	7,680.25	42.70	41.31	91.93	579.18	-235.30	1,845.97	1,775.85	70.12	26.327	
9,200.00	7,630.00	8,573.69	7,681.24	42.31	30.55	91.97	509.35	-232.91	1,842.43	1,775.36	67.07	27.470	
9,300.00	7,630.00	8,656.19	7,681.97	41.94	31.14	91.99	426.86	-231.91	1,840.85	1,773.09	67.76	27.168	
9,383.47	7,630.00	8,714.07	7,682.32	41.64	31.58	92.00	368.99	-231.48	1,840.06	1,771.69	68.37	26.913	
9,400.00	7,630.00	8,722.70	7,682.37	41.59	31.65	92.00	360.35	-231.53	1,840.10	1,771.62	68.48	26.870	
9,500.00	7,630.00	8,775.00	7,682.58	41.26	32.06	92.01	308.07	-232.60	1,841.82	1,772.64	69.19	26.621	
9,600.00	7,630.00	8,860.47	7,683.35	40.96	32.77	92.03	222.66	-235.79	1,845.24	1,775.08	70.16	26.300	
9,700.00	7,630.00	8,953.34	7,685.19	40.68	33.59	92.08	129.89	-239.75	1,849.24	1,777.93	71.31	25.931	
9,800.00	7,630.00	9,053.15	7,687.97	40.42	34.54	92.17	30.23	-244.34	1,853.59	1,780.92	72.67	25.506	
9,900.00	7,630.00	9,203.14	7,690.87	40.17	36.06	92.25	-119.67	-248.31	1,855.75	1,781.00	74.74	24.828	
10,000.00	7,630.00	9,328.34	7,690.98	39.96	37.43	92.25	-244.85	-249.82	1,856.63	1,779.89	76.74	24.193	
10,100.00	7,630.00	9,430.04	7,689.72	40.05	38.60	92.21	-346.54	-250.46	1,856.88	1,778.28	78.60	23.625	
10,200.00	7,630.00	9,539.29	7,688.06	40.95	39.91	92.16	-455.78	-250.66	1,856.66	1,775.99	80.67	23.015	
10,300.00	7,630.00	9,638.10	7,685.86	41.94	41.13	92.10	-554.57	-250.58	1,856.16	1,773.47	82.70	22.445	
10,400.00	7,630.00	9,744.92	7,684.03	42.98	42.49	92.04	-661.37	-250.51	1,855.70	1,770.75	84.95	21.844	
10,500.00	7,630.00	9,861.25	7,684.11	44.06	44.02	92.04	-777.69	-249.49	1,854.49	1,767.00	87.49	21.196	
10,600.00	7,630.00	9,972.77	7,683.86	45.17	45.52	92.04	-889.19	-247.78	1,852.62	1,762.57	90.05	20.574	
10,700.00	7,630.00	10,095.26	7,682.38	46.32	47.22	92.00	-1,011.64	-244.77	1,849.79	1,756.89	92.90	19.912	
10,800.00	7,630.00	10,170.90	7,681.12	47.50	48.29	91.96	-1,087.24	-242.78	1,846.82	1,751.89	94.92	19.456	
10,900.00	7,630.00	10,264.00	7,680.53	48.70	49.61	91.94	-1,180.34	-241.57	1,845.13	1,747.80	97.33	18.957	
11,000.00	7,630.00	10,339.87	7,680.31	49.94	50.71	91.94	-1,256.20	-240.76	1,843.79	1,744.36	99.43	18.544	
11,024.67	7,630.00	10,356.06	7,680.48	50.25	50.94	91.94	-1,272.39	-240.77	1,843.73	1,743.83	99.90	18.456	
11,100.00	7,630.00	10,423.87	7,681.70	51.20	51.93	91.98	-1,340.18	-241.26	1,844.05	1,742.32	101.73	18.126	
11,200.00	7,630.00	10,526.51	7,683.33	52.48	53.43	92.03	-1,442.81	-241.80	1,844.29	1,739.79	104.50	17.649	
11,300.00	7,630.00	10,635.98	7,684.53	53.79	55.05	92.07	-1,552.27	-242.23	1,844.39	1,736.93	107.47	17.163	
11,400.00	7,630.00	10,741.55	7,684.36	55.12	56.64	92.06	-1,657.84	-242.14	1,843.96	1,733.57	110.39	16.704	
11,436.51	7,630.00	10,767.73	7,684.27	55.61	57.04	92.06	-1,684.02	-242.18	1,843.88	1,732.70	111.18	16.585	
11,500.00	7,630.00	10,816.33	7,684.67	56.46	57.77	92.07	-1,732.61	-242.52	1,844.14	1,731.52	112.62	16.375	
11,600.00	7,630.00	10,952.77	7,686.59	57.83	59.86	92.13	-1,869.04	-242.78	1,844.07	1,727.68	116.38	15.845	
11,700.00	7,630.00	11,091.40	7,687.26	59.22	62.02	92.16	-2,007.64	-240.18	1,841.88	1,721.64	120.24	15.319	
11,800.00	7,630.00	11,142.37	7,687.53	60.62	62.81	92.17	-2,058.60	-239.36	1,839.95	1,717.96	122.00	15.082	
11,822.72	7,630.00	11,154.02	7,687.64	60.95	63.00	92.17	-2,070.25	-239.36	1,839.89	1,717.49	122.39	15.032	
11,900.00	7,630.00	11,203.67	7,688.28	62.04	63.77	92.19	-2,119.89	-240.02	1,840.61	1,716.64	123.97	14.847	
12,000.00	7,630.00	11,301.99	7,689.20	63.48	65.31	92.22	-2,218.19	-241.96	1,842.28	1,715.36	126.92	14.515	
12,100.00	7,630.00	11,429.19	7,694.17	64.93	67.32	92.37	-2,345.27	-243.46	1,843.31	1,712.63	130.68	14.105	
12,200.00	7,630.00	11,559.06	7,698.23	66.39	69.39	92.50	-2,475.07	-242.74	1,842.53	1,708.00	134.54	13.695	
12,300.00	7,630.00	11,671.93	7,699.33	67.86	71.21	92.53	-2,587.92	-240.94	1,840.64	1,702.68	137.96	13.342	
12,400.00	7,630.00	11,753.53	7,698.78	69.35	72.53	92.52	-2,669.51	-239.57	1,838.65	1,698.07	140.58	13.079	
12,460.96	7,630.00	11,792.52	7,698.29	70.27	73.16	92.50	-2,708.49	-239.49	1,838.29	1,696.40	141.89	12.956	
12,500.00	7,630.00	11,819.20	7,697.91	70.85	73.59	92.49	-2,735.18	-239.69	1,838.43	1,695.66	142.77	12.877	
12,600.00	7,630.00	11,893.00	7,697.06	72.36	74.78	92.46	-2,808.95	-241.05	1,839.86	1,694.71	145.14	12.676	
12,700.00	7,630.00	11,989.15	7,695.39	73.88	76.33	92.41	-2,905.05	-243.62	1,842.12	1,693.96	148.16	12.433	
12,800.00	7,630.00	12,064.77	7,694.10	75.41	77.55	92.37	-2,980.61	-246.21	1,845.13	1,694.54	150.58	12.253	
12,900.00	7,630.00	12,184.78	7,695.05	76.95	79.50	92.39	-3,100.54	-250.49	1,848.41	1,694.07	154.34	11.976	
13,000.00	7,630.00	12,307.17	7,696.13	78.49	81.50	92.42	-3,222.90	-252.91	1,850.03	1,691.84	158.19	11.695	
13,100.00	7,630.00	12,389.44	7,695.70	80.05	82.84	92.41	-3,305.15	-254.53	1,851.68	1,690.81	160.87	11.511	
13,200.00	7,630.00	12,485.60	7,695.73	81.61	84.42	92.40	-3,401.27	-257.48	1,854.39	1,690.43	163.96	11.310	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
13,300.00	7,630.00	12,634.36	7,696.38	83.18	86.88	92.42	-3,549.98	-259.69	1,855.55	1,686.92	168.62	11.004	
13,400.00	7,630.00	12,752.25	7,698.39	84.76	88.84	92.48	-3,667.85	-259.31	1,854.96	1,682.58	172.39	10.761	
13,500.00	7,630.00	12,839.82	7,699.56	86.34	90.30	92.52	-3,755.41	-258.65	1,853.97	1,678.66	175.30	10.576	
13,532.63	7,630.00	12,864.53	7,700.38	86.86	90.72	92.55	-3,780.10	-258.64	1,853.90	1,677.75	176.15	10.525	
13,600.00	7,630.00	12,925.68	7,702.96	87.94	91.74	92.63	-3,841.20	-258.86	1,854.04	1,675.86	178.18	10.405	
13,700.00	7,630.00	13,034.96	7,707.82	89.53	93.57	92.78	-3,950.37	-259.27	1,854.30	1,672.55	181.74	10.203	
13,800.00	7,630.00	13,164.25	7,712.49	91.13	95.75	92.92	-4,079.57	-258.13	1,853.23	1,667.34	185.89	9.970	
13,900.00	7,630.00	13,267.91	7,715.23	92.74	97.50	93.01	-4,183.18	-256.48	1,851.44	1,662.14	189.30	9.780	
14,000.00	7,630.00	13,367.61	7,716.92	94.35	99.19	93.07	-4,282.85	-254.79	1,849.50	1,656.88	192.61	9.602	
14,100.00	7,630.00	13,480.16	7,718.75	95.97	101.10	93.13	-4,395.37	-252.81	1,847.52	1,651.23	196.29	9.412	
14,200.00	7,630.00	13,588.98	7,720.23	97.60	102.96	93.18	-4,504.14	-249.78	1,844.46	1,644.59	199.87	9.228	
14,300.00	7,630.00	13,683.82	7,721.27	99.22	104.58	93.22	-4,598.94	-247.24	1,841.52	1,638.45	203.07	9.068	
14,400.00	7,630.00	13,763.67	7,722.13	100.85	105.94	93.25	-4,678.76	-245.61	1,839.22	1,633.36	205.85	8.935	
14,500.00	7,630.00	13,840.17	7,723.05	102.49	107.24	93.28	-4,755.25	-245.00	1,838.15	1,629.63	208.52	8.815	
14,532.32	7,630.00	13,864.76	7,723.36	103.02	107.66	93.29	-4,779.84	-245.01	1,838.08	1,628.71	209.37	8.779	
14,600.00	7,630.00	13,918.13	7,724.05	104.13	108.56	93.31	-4,833.21	-245.37	1,838.35	1,627.16	211.19	8.705	
14,700.00	7,630.00	14,048.49	7,725.08	105.77	110.77	93.34	-4,963.56	-246.49	1,839.10	1,623.64	215.46	8.536	
14,800.00	7,630.00	14,204.07	7,722.19	107.42	113.44	93.25	-5,119.07	-243.38	1,836.63	1,616.25	220.38	8.334	
14,900.00	7,630.00	14,293.14	7,719.17	109.07	114.97	93.17	-5,208.03	-240.35	1,832.74	1,609.28	223.46	8.201	
15,000.00	7,630.00	14,372.76	7,716.52	110.72	116.34	93.09	-5,287.59	-238.61	1,830.03	1,603.76	226.28	8.088	
15,100.00	7,630.00	14,452.47	7,713.91	112.38	117.70	93.01	-5,367.25	-237.69	1,828.38	1,599.31	229.06	7.982	
15,187.23	7,630.00	14,520.03	7,711.71	113.83	118.86	92.94	-5,434.78	-237.66	1,827.90	1,596.48	231.41	7.899	
15,200.00	7,630.00	14,529.75	7,711.39	114.04	119.03	92.93	-5,444.49	-237.72	1,827.91	1,596.16	231.75	7.887	
15,300.00	7,630.00	14,607.15	7,708.83	115.71	120.35	92.85	-5,521.84	-238.75	1,828.72	1,594.32	234.41	7.801	
15,400.00	7,630.00	14,688.34	7,706.29	117.37	121.73	92.77	-5,602.96	-240.69	1,830.63	1,593.47	237.16	7.719	
15,500.00	7,630.00	14,766.00	7,704.16	119.04	123.05	92.70	-5,680.55	-243.43	1,833.68	1,593.91	239.76	7.648	
15,600.00	7,630.00	14,839.75	7,702.42	120.71	124.29	92.64	-5,754.20	-246.98	1,838.05	1,595.86	242.19	7.589	
15,700.00	7,630.00	14,920.94	7,700.90	122.39	125.66	92.58	-5,835.22	-251.90	1,843.67	1,598.82	244.85	7.530	
15,800.00	7,630.00	15,005.56	7,700.19	124.06	127.08	92.55	-5,919.64	-257.74	1,850.18	1,602.55	247.63	7.471	
15,900.00	7,630.00	15,090.69	7,700.48	125.74	128.51	92.55	-6,004.52	-264.24	1,857.49	1,607.07	250.42	7.418	
16,000.00	7,630.00	15,193.79	7,702.14	127.42	130.25	92.59	-6,107.27	-272.54	1,865.27	1,611.35	253.92	7.346	
16,100.00	7,630.00	15,319.74	7,705.43	129.10	132.37	92.68	-6,232.86	-281.47	1,872.15	1,613.82	258.33	7.247	
16,200.00	7,630.00	15,455.06	7,710.33	130.79	134.67	92.82	-6,367.89	-288.72	1,877.36	1,614.32	263.04	7.137	
16,300.00	7,630.00	15,628.29	7,719.05	132.48	137.64	93.08	-6,540.83	-293.09	1,879.91	1,611.00	268.91	6.991	
16,400.00	7,630.00	15,814.79	7,727.10	134.17	140.88	93.33	-6,727.11	-289.96	1,878.28	1,603.51	274.77	6.836	
16,500.00	7,630.00	15,939.84	7,731.55	135.86	143.07	93.48	-6,851.92	-283.62	1,873.02	1,594.21	278.82	6.718	
16,600.00	7,630.00	16,030.68	7,733.81	137.55	144.66	93.56	-6,942.62	-278.89	1,867.65	1,585.60	282.04	6.622	
16,700.00	7,630.00	16,114.76	7,735.26	139.24	146.13	93.61	-7,026.60	-275.15	1,862.97	1,577.88	285.10	6.535	
16,800.00	7,630.00	16,198.53	7,736.57	140.94	147.59	93.66	-7,110.30	-272.14	1,859.15	1,571.03	288.12	6.453	
16,900.00	7,630.00	16,280.10	7,737.85	142.64	149.01	93.70	-7,191.83	-269.97	1,856.27	1,565.21	291.06	6.378	
17,000.00	7,630.00	16,364.00	7,739.20	144.34	150.47	93.75	-7,275.71	-268.52	1,854.31	1,560.27	294.04	6.306	
17,100.00	7,630.00	16,445.96	7,740.59	146.04	151.90	93.79	-7,357.65	-267.85	1,853.27	1,556.33	296.94	6.241	
17,200.00	7,630.00	16,551.72	7,742.49	147.74	153.73	93.85	-7,463.39	-267.44	1,852.67	1,552.12	300.55	6.164	
17,300.00	7,630.00	16,664.64	7,744.45	149.44	155.70	93.92	-7,576.30	-266.29	1,851.42	1,547.05	304.38	6.083	
17,400.00	7,630.00	16,771.61	7,746.07	151.15	157.56	93.97	-7,683.24	-264.66	1,849.67	1,541.65	308.02	6.005	
17,500.00	7,630.00	16,874.30	7,747.54	152.86	159.35	94.02	-7,785.90	-262.80	1,847.62	1,536.08	311.55	5.930	
17,600.00	7,630.00	16,974.34	7,748.93	154.56	161.10	94.07	-7,885.91	-260.95	1,845.54	1,530.55	315.00	5.859	
17,700.00	7,630.00	17,079.69	7,750.41	156.27	162.94	94.12	-7,991.23	-258.88	1,843.34	1,524.74	318.60	5.786	
17,800.00	7,630.00	17,186.18	7,752.04	157.98	164.80	94.18	-8,097.68	-256.39	1,840.79	1,518.56	322.23	5.713	
17,900.00	7,630.00	17,285.91	7,752.80	159.70	166.54	94.21	-8,197.37	-253.85	1,837.97	1,512.29	325.68	5.643	
18,000.00	7,630.00	17,372.05	7,752.71	161.41	168.05	94.21	-8,283.50	-252.11	1,835.62	1,506.86	328.75	5.584	
18,100.00	7,630.00	17,465.73	7,752.14	163.12	169.68	94.20	-8,377.17	-250.90	1,833.93	1,501.91	332.03	5.523	

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

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

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,150.91	7,630.00	17,487.00	7,752.00	163.99	170.05	94.19	-8,398.44	-250.64	1,833.35	1,500.47	332.88	5.508	
18,154.00	7,630.00	17,487.00	7,752.00	164.05	170.05	94.19	-8,398.44	-250.64	1,833.35	1,500.47	332.88	5.507	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-51.00	786.15	-970.74	1,249.21				
100.00	100.00	90.96	90.96	0.13	0.14	-50.99	786.15	-970.60	1,249.04	1,248.77	0.27	4,612.833	
200.00	200.00	191.30	191.30	0.49	0.39	-50.99	786.10	-970.24	1,248.74	1,247.85	0.88	1,416.040	
300.00	300.00	288.91	288.91	0.85	0.73	-50.99	785.90	-970.20	1,248.57	1,246.99	1.58	789.644	
338.08	338.08	326.08	326.08	0.99	0.86	-51.00	785.77	-970.28	1,248.55	1,246.71	1.85	675.815	
400.00	400.00	383.47	383.47	1.21	1.06	-51.01	785.68	-970.51	1,248.68	1,246.41	2.27	550.277	
500.00	500.00	476.73	476.72	1.57	1.38	-51.02	785.90	-971.08	1,249.31	1,246.36	2.95	423.167	
600.00	600.00	569.98	569.96	1.93	1.71	-51.02	786.59	-971.93	1,250.48	1,246.85	3.64	343.992	
700.00	700.00	668.02	667.98	2.29	2.05	-50.94	788.77	-972.13	1,252.03	1,247.70	4.33	288.833	
800.00	800.00	782.36	782.02	2.64	2.46	-50.59	795.67	-968.15	1,253.17	1,248.08	5.10	245.882	
900.00	900.00	919.02	917.62	3.00	2.96	-49.82	807.84	-956.51	1,252.36	1,246.40	5.96	210.225	
1,000.00	1,000.00	1,017.39	1,015.01	3.36	3.33	-49.19	816.79	-945.93	1,250.07	1,243.37	6.69	186.744	
1,100.00	1,100.00	1,110.10	1,106.71	3.72	3.70	-48.57	825.96	-935.73	1,248.26	1,240.84	7.42	168.224	
1,200.00	1,200.00	1,207.85	1,203.36	4.08	4.10	-47.90	835.97	-925.16	1,246.99	1,238.82	8.17	152.554	
1,300.00	1,300.00	1,329.31	1,323.15	4.44	4.61	-46.98	849.12	-910.07	1,245.18	1,236.14	9.04	137.758	
1,400.00	1,400.00	1,430.70	1,422.49	4.79	5.05	-46.06	861.48	-893.99	1,242.00	1,232.16	9.85	126.155	
1,500.00	1,499.98	1,511.68	1,501.65	5.15	5.43	-83.19	872.54	-880.94	1,239.78	1,229.21	10.57	117.244	
1,594.68	1,594.53	1,583.48	1,571.78	5.49	5.76	-82.66	883.34	-870.01	1,239.03	1,227.78	11.24	110.187	
1,600.00	1,599.84	1,587.41	1,575.62	5.51	5.78	-82.63	883.96	-869.44	1,239.03	1,227.75	11.28	109.824	
1,700.00	1,699.45	1,676.85	1,662.98	5.87	6.20	-82.09	898.55	-857.04	1,239.74	1,227.68	12.06	102.818	
1,800.00	1,798.70	1,800.13	1,783.67	6.23	6.77	-81.63	917.04	-840.02	1,239.23	1,226.23	13.00	95.326	
1,900.00	1,897.47	1,928.32	1,909.42	6.60	7.37	-81.46	932.98	-820.94	1,235.51	1,221.55	13.96	88.477	
2,000.00	1,995.62	2,011.30	1,991.06	6.99	7.74	-81.58	942.41	-809.43	1,231.33	1,216.60	14.73	83.586	
2,100.00	2,093.06	2,093.25	2,071.75	7.39	8.11	-81.83	952.34	-799.18	1,228.12	1,212.61	15.51	79.199	
2,200.00	2,189.64	2,180.43	2,157.60	7.82	8.51	-82.23	963.63	-789.02	1,225.65	1,209.32	16.33	75.063	
2,300.00	2,285.27	2,271.89	2,247.63	8.28	8.92	-82.77	976.17	-778.94	1,223.76	1,206.56	17.20	71.151	
2,400.00	2,379.82	2,409.62	2,382.87	8.77	9.56	-83.74	995.30	-761.28	1,220.56	1,202.23	18.33	66.580	
2,500.00	2,473.17	2,503.54	2,475.02	9.31	10.00	-84.59	1,007.16	-747.57	1,214.97	1,195.67	19.30	62.953	
2,600.00	2,565.21	2,584.08	2,554.24	9.88	10.37	-85.51	1,017.41	-737.23	1,210.64	1,190.40	20.25	59.794	
2,660.67	2,620.37	2,650.29	2,619.41	10.25	10.68	-86.33	1,025.87	-729.21	1,208.45	1,187.53	20.92	57.769	
2,700.00	2,655.96	2,697.40	2,665.73	10.50	10.89	-86.90	1,031.85	-723.00	1,206.77	1,185.39	21.38	56.447	
2,800.00	2,746.43	2,831.43	2,796.91	11.15	11.54	-88.39	1,049.69	-702.15	1,201.69	1,179.05	22.64	53.070	
2,900.00	2,836.90	2,935.61	2,899.01	11.82	12.04	-89.63	1,060.47	-684.48	1,193.96	1,170.17	23.79	50.192	
3,000.00	2,927.37	3,034.16	2,995.37	12.50	12.52	-90.76	1,071.86	-667.22	1,187.08	1,162.15	24.93	47.609	
3,100.00	3,017.85	3,110.89	3,070.45	13.21	12.89	-91.65	1,080.81	-654.22	1,181.22	1,155.22	26.00	45.432	
3,200.00	3,108.32	3,185.28	3,143.72	13.92	13.23	-92.63	1,088.67	-644.03	1,177.74	1,150.69	27.05	43.546	
3,300.00	3,198.79	3,271.55	3,228.48	14.64	13.64	-93.69	1,099.77	-632.50	1,176.37	1,148.22	28.15	41.791	
3,400.00	3,289.27	3,380.03	3,334.71	15.38	14.16	-94.94	1,115.23	-616.82	1,175.45	1,146.09	29.37	40.027	
3,500.00	3,379.74	3,471.06	3,423.76	16.12	14.61	-95.98	1,128.13	-603.08	1,174.42	1,143.91	30.51	38.488	
3,540.12	3,416.03	3,507.89	3,459.80	16.42	14.78	-96.40	1,133.45	-597.71	1,174.37	1,143.39	30.98	37.913	CC
3,600.00	3,470.21	3,566.06	3,516.78	16.87	15.07	-97.07	1,141.73	-589.34	1,174.45	1,142.78	31.68	37.078	
3,700.00	3,560.68	3,652.07	3,601.15	17.62	15.48	-98.10	1,153.56	-577.61	1,175.39	1,142.61	32.78	35.853	
3,800.00	3,651.16	3,770.15	3,717.01	18.39	16.04	-99.52	1,169.37	-561.20	1,176.43	1,142.41	34.03	34.575	
3,900.00	3,741.63	3,852.16	3,797.34	19.15	16.44	-100.47	1,180.90	-549.34	1,177.80	1,142.69	35.12	33.541	
4,000.00	3,832.10	3,943.17	3,886.70	19.92	16.87	-101.57	1,193.20	-537.29	1,180.49	1,144.27	36.22	32.590	
4,100.00	3,922.57	4,035.13	3,977.31	20.69	17.29	-102.75	1,204.29	-526.23	1,184.18	1,146.88	37.31	31.742	
4,200.00	4,013.05	4,153.34	4,093.72	21.47	17.83	-104.25	1,218.46	-511.36	1,187.99	1,149.50	38.49	30.866	
4,300.00	4,103.52	4,253.88	4,192.23	22.25	18.31	-105.41	1,232.33	-496.87	1,191.36	1,151.74	39.62	30.068	
4,400.00	4,193.99	4,362.76	4,298.54	23.03	18.86	-106.59	1,247.87	-479.20	1,193.64	1,152.85	40.79	29.263	
4,500.00	4,284.47	4,450.86	4,384.75	23.81	19.29	-107.58	1,260.09	-465.74	1,197.13	1,155.27	41.86	28.600	
4,600.00	4,374.94	4,554.08	4,485.73	24.60	19.80	-108.72	1,274.33	-449.81	1,200.93	1,157.96	42.97	27.947	
4,700.00	4,465.41	4,640.17	4,569.92	25.39	20.22	-109.67	1,286.35	-436.45	1,205.17	1,161.17	44.01	27.387	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
4,800.00	4,555.88	4,729.90	4,657.98	26.18	20.66	-110.70	1,298.21	-423.96	1,211.10	1,166.08	45.02	26.899	
4,900.00	4,646.36	4,836.51	4,762.55	26.97	21.17	-111.90	1,312.35	-408.74	1,217.20	1,171.10	46.10	26.403	
5,000.00	4,736.83	4,934.12	4,857.95	27.76	21.65	-112.92	1,326.63	-393.89	1,223.20	1,176.05	47.15	25.943	
5,100.00	4,827.30	5,041.40	4,962.62	28.55	22.20	-113.99	1,343.12	-377.07	1,229.33	1,181.09	48.24	25.483	
5,200.00	4,917.77	5,104.93	5,024.82	29.35	22.50	-114.65	1,352.26	-367.94	1,236.82	1,187.71	49.11	25.185	
5,300.00	5,008.25	5,194.23	5,112.76	30.15	22.91	-115.67	1,363.36	-357.14	1,246.53	1,196.50	50.04	24.913	
5,400.00	5,098.72	5,288.18	5,205.37	30.94	23.34	-116.76	1,374.48	-345.93	1,256.80	1,205.84	50.96	24.664	
5,500.00	5,189.19	5,439.32	5,353.99	31.74	24.05	-118.44	1,392.42	-325.13	1,265.95	1,213.85	52.10	24.299	
5,600.00	5,279.67	5,544.81	5,456.72	32.54	24.59	-119.45	1,407.71	-306.74	1,272.18	1,219.08	53.10	23.957	
5,700.00	5,370.14	5,639.82	5,549.20	33.34	25.08	-120.32	1,422.24	-290.49	1,279.22	1,225.15	54.07	23.660	
5,800.00	5,460.61	5,727.60	5,635.11	34.14	25.51	-121.24	1,433.01	-276.03	1,286.90	1,231.95	54.94	23.422	
5,900.00	5,551.08	5,822.06	5,727.78	34.94	25.96	-122.26	1,443.63	-261.16	1,295.60	1,239.80	55.81	23.216	
6,000.00	5,641.56	5,927.37	5,830.76	35.75	26.49	-123.29	1,457.50	-244.15	1,304.48	1,247.75	56.73	22.995	
6,100.00	5,732.03	5,982.65	5,884.77	36.55	26.76	-123.78	1,465.85	-235.84	1,314.92	1,257.47	57.46	22.886	
6,200.00	5,822.50	6,057.62	5,958.53	37.35	27.11	-124.50	1,475.79	-226.84	1,328.46	1,270.25	58.21	22.822	
6,300.00	5,912.97	6,184.02	6,083.07	38.16	27.69	-125.78	1,490.49	-211.04	1,342.05	1,282.89	59.16	22.685	
6,400.00	6,003.45	6,297.59	6,194.38	38.96	28.23	-126.83	1,505.42	-194.17	1,353.61	1,293.54	60.07	22.534	
6,500.00	6,093.92	6,371.00	6,266.40	39.77	28.59	-127.51	1,514.98	-183.71	1,366.13	1,305.33	60.80	22.469	
6,600.00	6,184.39	6,473.01	6,366.64	40.57	29.07	-128.44	1,527.93	-169.95	1,379.75	1,318.12	61.63	22.387	
6,700.00	6,274.87	6,597.32	6,488.56	41.38	29.67	-129.56	1,543.52	-151.39	1,392.28	1,329.74	62.54	22.260	
6,800.00	6,365.34	6,686.14	6,575.53	42.18	30.10	-130.35	1,554.71	-137.28	1,404.25	1,340.94	63.31	22.180	
6,900.00	6,455.81	6,770.99	6,658.53	42.99	30.52	-131.00	1,567.44	-125.07	1,417.77	1,353.68	64.09	22.123	
7,000.00	6,546.28	6,877.74	6,762.96	43.80	31.05	-131.82	1,583.28	-109.65	1,431.54	1,366.58	64.95	22.040	
7,100.00	6,636.76	6,970.71	6,854.19	44.61	31.49	-132.63	1,594.27	-95.53	1,445.11	1,379.42	65.69	21.999	
7,200.00	6,727.23	7,190.19	7,068.04	45.41	32.46	-135.41	1,596.90	-49.30	1,453.09	1,386.87	66.22	21.943	
7,300.00	6,817.70	7,248.54	7,123.91	46.22	32.66	-136.49	1,588.24	-34.91	1,461.33	1,394.75	66.58	21.950	
7,383.79	6,893.51	7,263.00	7,137.67	46.90	32.71	-136.78	1,585.42	-31.48	1,471.40	1,404.51	66.89	21.997	
7,400.00	6,908.25	7,287.83	7,161.34	47.03	32.77	-139.85	1,580.35	-25.95	1,473.31	1,406.44	66.87	22.031	
7,450.00	6,954.52	7,305.23	7,178.00	47.40	32.82	-149.85	1,576.78	-22.45	1,480.61	1,413.61	67.00	22.099	
7,500.00	7,001.74	7,323.27	7,195.34	47.72	32.86	-163.03	1,573.06	-19.15	1,488.40	1,421.29	67.11	22.180	
7,550.00	7,049.55	7,352.00	7,223.08	47.99	32.94	-179.60	1,567.13	-14.60	1,496.66	1,429.47	67.19	22.275	
7,600.00	7,097.58	7,374.75	7,245.08	48.21	32.99	162.19	1,562.35	-11.32	1,504.90	1,437.63	67.28	22.369	
7,650.00	7,145.48	7,424.77	7,293.33	48.37	33.10	145.10	1,551.37	-4.01	1,512.55	1,445.19	67.36	22.454	
7,700.00	7,192.88	7,474.02	7,340.61	48.48	33.20	131.38	1,539.72	3.34	1,519.28	1,451.83	67.45	22.524	
7,750.00	7,239.41	7,522.82	7,387.03	48.54	33.30	121.15	1,526.66	10.85	1,525.06	1,457.52	67.54	22.581	
7,800.00	7,284.72	7,582.46	7,442.82	48.56	33.41	113.74	1,508.00	20.60	1,529.72	1,462.13	67.59	22.634	
7,850.00	7,328.47	7,670.42	7,522.10	48.54	33.55	108.41	1,473.78	37.12	1,532.78	1,465.29	67.48	22.713	
7,900.00	7,370.32	7,762.20	7,600.20	48.47	33.68	104.57	1,430.50	58.17	1,533.05	1,465.80	67.26	22.794	
7,950.00	7,409.96	7,798.00	7,629.23	48.37	33.72	101.76	1,411.61	67.19	1,531.68	1,464.38	67.30	22.760	
8,000.00	7,447.08	7,835.40	7,658.60	48.24	33.75	99.74	1,390.39	76.43	1,529.69	1,462.37	67.32	22.722	
8,050.00	7,481.41	7,859.46	7,676.91	48.07	33.76	98.24	1,375.78	81.95	1,527.65	1,460.23	67.43	22.657	
8,100.00	7,512.67	7,887.00	7,697.24	47.87	33.78	97.21	1,358.17	87.85	1,525.48	1,457.97	67.51	22.597	
8,150.00	7,540.64	7,887.00	7,697.24	47.65	33.78	96.28	1,358.17	87.85	1,523.45	1,455.68	67.77	22.479	
8,200.00	7,565.09	7,927.16	7,725.52	47.40	33.77	96.00	1,330.72	95.51	1,520.94	1,453.16	67.78	22.438	
8,250.00	7,585.85	7,948.75	7,739.98	47.14	33.77	95.77	1,315.10	99.12	1,518.73	1,450.81	67.92	22.361	
8,300.00	7,602.75	7,976.00	7,757.43	46.86	33.76	95.82	1,294.56	103.15	1,516.65	1,448.63	68.02	22.296	
8,350.00	7,615.67	7,976.00	7,757.43	46.58	33.76	95.61	1,294.56	103.15	1,514.84	1,446.51	68.33	22.168	
8,400.00	7,624.51	8,016.02	7,781.27	46.28	33.72	96.20	1,262.81	108.09	1,512.85	1,444.50	68.35	22.135	
8,450.00	7,629.19	8,039.15	7,793.98	45.98	33.69	96.64	1,243.63	110.41	1,511.25	1,442.77	68.48	22.068	
8,481.00	7,630.00	8,065.00	7,807.24	45.79	33.67	97.20	1,221.55	112.55	1,510.48	1,442.01	68.47	22.062	
8,500.00	7,630.00	8,065.00	7,807.24	45.68	33.67	97.20	1,221.55	112.55	1,509.98	1,441.39	68.59	22.015	
8,550.38	7,630.00	8,088.43	7,818.24	45.39	33.62	97.62	1,200.92	114.08	1,509.53	1,440.81	68.72	21.967	

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

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

Offset Site Error: 0.00 usft

Survey Program: 140-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,600.00	7,630.00	8,115.96	7,829.72	45.11	33.57	98.06	1,175.94	115.36	1,509.94	1,441.16	68.78	21.954	
8,700.00	7,630.00	8,183.99	7,851.05	44.56	33.43	98.87	1,111.43	116.28	1,512.96	1,444.19	68.77	22.001	
8,800.00	7,630.00	8,275.55	7,862.97	44.05	33.22	99.30	1,020.83	113.85	1,517.33	1,448.78	68.55	22.133	
8,900.00	7,630.00	8,374.27	7,865.12	43.57	33.02	99.35	922.25	109.24	1,521.95	1,453.57	68.39	22.255	
9,000.00	7,630.00	9,000.00	7,863.31	43.12	47.14	99.25	771.10	102.75	1,526.04	1,457.01	69.03	22.107	
9,100.00	7,630.00	8,703.30	7,859.66	42.70	33.07	99.13	593.49	104.80	1,523.81	1,455.32	68.48	22.251	
9,200.00	7,630.00	9,200.00	7,855.49	42.31	36.43	99.02	461.30	110.91	1,518.25	1,446.81	71.44	21.252	
9,300.00	7,630.00	8,893.53	7,853.53	41.94	33.91	98.96	403.57	113.41	1,513.37	1,443.54	69.83	21.672	
9,398.50	7,630.00	8,944.34	7,851.93	41.59	34.22	98.90	352.79	113.74	1,511.87	1,441.42	70.44	21.462	
9,400.00	7,630.00	8,945.18	7,851.90	41.59	34.22	98.90	351.95	113.73	1,511.87	1,441.41	70.45	21.459	
9,500.00	7,630.00	9,014.00	7,850.20	41.26	34.66	98.83	283.17	111.97	1,513.45	1,442.25	71.20	21.255	
9,600.00	7,630.00	9,084.56	7,848.73	40.96	35.14	98.76	212.70	108.78	1,517.05	1,445.02	72.03	21.062	
9,700.00	7,630.00	9,191.78	7,846.39	40.68	35.95	98.64	105.63	103.83	1,520.97	1,447.71	73.26	20.761	
9,800.00	7,630.00	9,301.97	7,843.99	40.42	36.89	98.53	-4.45	99.51	1,524.17	1,449.47	74.71	20.402	
9,900.00	7,630.00	9,406.41	7,841.71	40.17	37.85	98.43	-108.81	95.94	1,526.90	1,450.67	76.24	20.028	
10,000.00	7,630.00	9,503.22	7,839.59	39.96	38.80	98.33	-205.54	92.74	1,529.52	1,451.73	77.79	19.661	
10,100.00	7,630.00	9,618.32	7,837.01	40.05	40.00	98.22	-320.55	88.87	1,532.25	1,452.49	79.76	19.211	
10,200.00	7,630.00	9,863.41	7,830.48	40.95	42.85	98.01	-565.37	94.64	1,529.00	1,444.77	84.23	18.152	
10,300.00	7,630.00	9,970.58	7,828.12	41.94	44.21	97.97	-672.19	102.95	1,520.65	1,434.13	86.52	17.576	
10,400.00	7,630.00	10,073.62	7,825.94	42.98	45.55	97.93	-774.92	110.73	1,512.55	1,423.73	88.82	17.029	
10,500.00	7,630.00	10,253.86	7,821.74	44.06	48.02	97.88	-953.96	130.76	1,500.35	1,407.53	92.81	16.165	
10,600.00	7,630.00	10,312.45	7,820.09	45.17	48.85	97.85	-1,012.10	137.75	1,487.90	1,393.49	94.41	15.760	
10,700.00	7,630.00	10,366.77	7,818.53	46.32	49.61	97.82	-1,066.18	142.56	1,478.42	1,382.53	95.89	15.418	
10,800.00	7,630.00	10,419.72	7,817.03	47.50	50.35	97.78	-1,119.02	145.57	1,472.06	1,374.77	97.29	15.131	
10,900.00	7,630.00	10,638.42	7,811.26	48.70	53.50	97.65	-1,336.88	162.39	1,464.34	1,361.66	102.68	14.261	
11,000.00	7,630.00	10,707.00	7,809.35	49.94	54.53	97.61	-1,405.02	169.90	1,452.70	1,348.07	104.63	13.884	
11,100.00	7,630.00	10,789.65	7,807.01	51.20	55.77	97.56	-1,487.28	177.59	1,442.73	1,335.79	106.93	13.492	
11,200.00	7,630.00	10,845.01	7,805.42	52.48	56.59	97.52	-1,542.46	181.78	1,434.59	1,326.06	108.53	13.218	
11,300.00	7,630.00	10,899.57	7,803.89	53.79	57.40	97.48	-1,596.94	184.07	1,429.69	1,319.65	110.04	12.993	
11,400.00	7,630.00	10,959.01	7,802.21	55.12	58.28	97.41	-1,656.36	184.81	1,427.75	1,316.13	111.62	12.791	
11,421.53	7,630.00	10,974.00	7,801.78	55.41	58.50	97.40	-1,671.34	184.72	1,427.71	1,315.69	112.02	12.745	
11,500.00	7,630.00	11,013.75	7,800.64	56.46	59.07	97.35	-1,711.06	183.87	1,428.78	1,315.79	112.99	12.645	
11,600.00	7,630.00	11,063.00	7,799.28	57.83	59.78	97.28	-1,760.23	181.46	1,433.08	1,318.97	114.10	12.559	
11,700.00	7,630.00	11,121.71	7,797.77	59.22	60.61	97.20	-1,818.73	176.71	1,440.55	1,325.10	115.45	12.478	
11,800.00	7,630.00	11,190.27	7,796.42	60.62	61.57	97.11	-1,886.85	169.07	1,450.92	1,333.82	117.10	12.390	
11,900.00	7,630.00	11,270.66	7,796.48	62.04	62.69	97.06	-1,966.65	159.35	1,462.62	1,343.45	119.18	12.273	
12,000.00	7,630.00	11,669.66	7,799.79	63.48	68.72	97.16	-2,364.08	151.45	1,462.68	1,330.71	131.98	11.083	
12,100.00	7,630.00	11,756.48	7,800.47	64.93	70.12	97.22	-2,450.68	157.75	1,455.24	1,320.59	134.66	10.807	
12,200.00	7,630.00	11,885.55	7,801.17	66.39	72.21	97.30	-2,579.32	168.12	1,446.95	1,308.39	138.55	10.443	
12,300.00	7,630.00	11,954.00	7,801.57	67.86	73.32	97.35	-2,647.57	173.34	1,439.09	1,298.33	140.75	10.224	
12,400.00	7,630.00	12,047.72	7,802.41	69.35	74.85	97.41	-2,741.09	179.31	1,432.54	1,288.86	143.68	9.970	
12,500.00	7,630.00	12,139.76	7,803.28	70.85	76.35	97.48	-2,832.96	184.78	1,426.43	1,279.86	146.56	9.732	
12,600.00	7,630.00	12,246.20	7,804.27	72.36	78.09	97.55	-2,939.21	191.16	1,420.27	1,270.37	149.90	9.475	
12,700.00	7,630.00	12,346.71	7,805.13	73.88	79.74	97.62	-3,039.52	197.44	1,413.85	1,260.77	153.08	9.236	
12,800.00	7,630.00	12,450.20	7,806.06	75.41	81.45	97.70	-3,142.80	203.92	1,407.44	1,251.08	156.36	9.001	
12,900.00	7,630.00	12,558.53	7,806.92	76.95	83.25	97.77	-3,250.88	211.31	1,400.44	1,240.63	159.81	8.763	
13,000.00	7,630.00	12,689.89	7,807.56	78.49	85.45	97.86	-3,381.81	221.88	1,392.26	1,228.31	163.95	8.492	
13,100.00	7,630.00	12,783.32	7,807.60	80.05	87.03	97.92	-3,474.76	231.24	1,382.06	1,215.07	166.99	8.276	
13,200.00	7,630.00	12,845.00	7,807.89	81.61	88.07	97.95	-3,536.30	235.31	1,374.91	1,205.85	169.06	8.133	
13,300.00	7,630.00	12,884.35	7,808.20	83.18	88.71	97.98	-3,575.63	236.50	1,371.14	1,200.93	170.21	8.056	
13,355.87	7,630.00	12,913.84	7,808.46	84.06	89.20	97.99	-3,605.13	236.72	1,370.59	1,199.58	171.02	8.014	
13,400.00	7,630.00	12,948.03	7,808.77	84.76	89.76	98.00	-3,639.30	236.37	1,370.90	1,198.85	172.05	7.968	

Anticollision Report

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

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

Offset Site Error: 0.00 usft

Survey Program: 140-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,500.00	7,630.00	13,106.97	7,809.15	86.34	92.39	98.03	-3,798.22	239.10	1,368.57	1,191.10	177.47	7.712	
13,600.00	7,630.00	13,196.04	7,809.38	87.94	93.87	98.06	-3,887.24	241.76	1,365.32	1,184.99	180.33	7.571	
13,700.00	7,630.00	13,296.97	7,809.84	89.53	95.56	98.10	-3,988.14	244.33	1,362.53	1,178.91	183.62	7.420	
13,800.00	7,630.00	13,371.07	7,810.16	91.13	96.79	98.12	-4,062.23	245.49	1,360.68	1,174.76	185.92	7.319	
13,900.00	7,630.00	13,486.25	7,810.61	92.74	98.71	98.15	-4,177.40	246.73	1,359.36	1,169.60	189.76	7.164	
14,000.00	7,630.00	13,599.71	7,810.98	94.35	100.62	98.18	-4,290.82	249.62	1,356.52	1,162.98	193.54	7.009	
14,100.00	7,630.00	13,685.82	7,810.98	95.97	102.06	98.20	-4,376.91	251.74	1,353.78	1,157.46	196.32	6.896	
14,200.00	7,630.00	13,767.21	7,811.25	97.60	103.43	98.21	-4,458.29	252.50	1,352.54	1,153.65	198.89	6.800	
14,277.56	7,630.00	13,835.69	7,811.65	98.86	104.57	98.23	-4,526.76	252.61	1,352.23	1,151.15	201.08	6.725	
14,300.00	7,630.00	13,852.23	7,811.78	99.22	104.85	98.24	-4,543.30	252.54	1,352.28	1,150.70	201.58	6.708	
14,400.00	7,630.00	13,959.24	7,813.01	100.85	106.64	98.28	-4,650.29	251.11	1,353.50	1,148.35	205.15	6.597	
14,500.00	7,630.00	14,077.38	7,815.64	102.49	108.63	98.41	-4,768.39	253.00	1,351.75	1,142.58	209.17	6.463	
14,600.00	7,630.00	14,170.38	7,817.88	104.13	110.20	98.51	-4,861.36	254.06	1,350.64	1,138.44	212.20	6.365	
14,700.00	7,630.00	14,278.37	7,820.93	105.77	112.03	98.65	-4,969.29	255.39	1,349.51	1,133.70	215.81	6.253	
14,800.00	7,630.00	14,413.79	7,824.43	107.42	114.34	98.82	-5,104.63	258.64	1,347.37	1,126.94	220.44	6.112	
14,900.00	7,630.00	14,579.97	7,828.50	109.07	117.22	99.08	-5,270.29	270.67	1,339.91	1,114.05	225.86	5.932	
15,000.00	7,630.00	14,666.07	7,830.54	110.72	118.72	99.22	-5,356.02	278.45	1,331.07	1,102.28	228.79	5.818	
15,100.00	7,630.00	14,732.46	7,832.10	112.38	119.87	99.32	-5,422.22	283.16	1,324.18	1,093.11	231.06	5.731	
15,200.00	7,630.00	14,787.05	7,833.36	114.04	120.81	99.39	-5,476.76	285.28	1,320.39	1,087.65	232.74	5.673	
15,300.00	7,630.00	14,963.75	7,835.91	115.71	123.86	99.56	-5,653.19	293.60	1,315.82	1,077.09	238.73	5.512	
15,400.00	7,630.00	15,038.97	7,836.11	117.37	125.17	99.61	-5,728.22	299.06	1,308.50	1,067.19	241.31	5.423	
15,500.00	7,630.00	15,101.97	7,836.62	119.04	126.25	99.66	-5,791.14	301.91	1,303.86	1,060.52	243.34	5.358	
15,600.00	7,630.00	15,162.00	7,837.18	120.71	127.28	99.69	-5,851.16	302.88	1,302.13	1,057.06	245.07	5.313	
15,601.78	7,630.00	15,162.00	7,837.18	120.74	127.28	99.69	-5,851.16	302.88	1,302.13	1,057.08	245.05	5.314	
15,700.00	7,630.00	15,221.45	7,837.72	122.39	128.29	99.71	-5,910.60	301.97	1,303.49	1,056.95	246.54	5.287	ES
15,800.00	7,630.00	15,287.69	7,838.25	124.06	129.39	99.71	-5,976.76	298.81	1,307.92	1,059.75	248.16	5.270	
15,900.00	7,630.00	15,376.43	7,838.93	125.74	130.87	99.70	-6,065.30	292.88	1,314.26	1,063.36	250.90	5.238	
16,000.00	7,630.00	15,478.31	7,839.75	127.42	132.56	99.69	-6,166.97	286.46	1,320.26	1,065.92	254.34	5.191	
16,100.00	7,630.00	15,572.58	7,840.16	129.10	134.13	99.66	-6,261.02	279.92	1,326.83	1,069.45	257.38	5.155	
16,200.00	7,630.00	15,656.18	7,840.50	130.79	135.51	99.63	-6,344.39	273.77	1,333.87	1,074.05	259.82	5.134	
16,300.00	7,630.00	15,723.55	7,841.15	132.48	136.62	99.62	-6,411.47	267.60	1,342.79	1,081.56	261.23	5.140	
16,400.00	7,630.00	15,786.00	7,841.60	134.17	137.64	99.58	-6,473.45	259.95	1,354.57	1,092.36	262.21	5.166	
16,500.00	7,630.00	16,231.00	7,845.83	135.86	145.08	99.66	-6,913.95	244.82	1,367.23	1,087.08	280.15	4.880	
16,600.00	7,630.00	16,257.47	7,845.92	137.55	145.54	99.68	-6,940.32	247.00	1,358.11	1,076.36	281.75	4.820	
16,700.00	7,630.00	16,294.10	7,845.94	139.24	146.18	99.70	-6,976.92	248.51	1,353.73	1,070.75	282.98	4.784	
16,753.61	7,630.00	16,320.00	7,845.87	140.15	146.63	99.69	-7,002.82	248.51	1,353.34	1,069.67	283.67	4.771	
16,800.00	7,630.00	16,320.00	7,845.87	140.94	146.63	99.69	-7,002.82	248.51	1,354.14	1,071.03	283.11	4.783	
16,900.00	7,630.00	16,368.60	7,845.67	142.64	147.44	99.67	-7,051.36	246.23	1,358.92	1,075.16	283.76	4.789	
17,000.00	7,630.00	16,409.00	7,845.52	144.34	148.11	99.64	-7,091.54	242.11	1,368.41	1,084.89	283.53	4.826	
17,100.00	7,630.00	16,513.67	7,845.35	146.04	149.83	99.54	-7,195.43	229.38	1,380.06	1,092.83	287.23	4.805	
17,200.00	7,630.00	16,612.22	7,844.48	147.74	151.44	99.43	-7,293.29	217.75	1,391.23	1,100.68	290.55	4.788	
17,300.00	7,630.00	16,712.96	7,842.25	149.44	153.10	99.26	-7,393.25	205.49	1,402.56	1,108.53	294.04	4.770	
17,400.00	7,630.00	16,822.70	7,839.11	151.15	154.91	99.05	-7,502.22	192.79	1,413.19	1,115.09	298.10	4.741	
17,500.00	7,630.00	16,919.79	7,835.58	152.86	156.51	98.84	-7,598.60	181.70	1,423.60	1,122.21	301.39	4.724	
17,600.00	7,630.00	17,026.13	7,830.99	154.56	158.27	98.59	-7,704.13	169.44	1,434.04	1,128.78	305.25	4.698	
17,700.00	7,630.00	17,127.61	7,826.13	156.27	159.95	98.33	-7,804.87	158.12	1,444.06	1,135.23	308.83	4.676	
17,800.00	7,630.00	17,231.38	7,820.59	157.98	161.67	98.05	-7,907.85	146.66	1,453.92	1,141.38	312.54	4.652	
17,900.00	7,630.00	17,336.72	7,814.61	159.70	163.42	97.76	-8,012.42	135.44	1,463.37	1,147.02	316.35	4.626	
18,000.00	7,630.00	17,443.25	7,807.86	161.41	165.19	97.44	-8,118.15	124.33	1,472.57	1,152.34	320.23	4.598	
18,100.00	7,630.00	17,550.95	7,799.94	163.12	166.99	97.08	-8,225.04	113.70	1,481.13	1,156.94	324.18	4.569	
18,154.00	7,630.00	17,609.25	7,795.40	164.05	167.97	96.88	-8,282.89	108.14	1,485.57	1,159.25	326.32	4.552	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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-50.70	786.15	-960.66	1,241.39				
100.00	100.00	87.62	87.62	0.13	0.15	-50.71	786.11	-960.71	1,241.34	1,241.06	0.28	4,428.986	
200.00	200.00	187.20	187.20	0.49	0.31	-50.72	785.94	-960.92	1,241.39	1,240.59	0.80	1,543.091	
300.00	300.00	286.77	286.77	0.85	0.48	-50.74	785.64	-961.26	1,241.47	1,240.15	1.33	934.361	
400.00	400.00	384.52	384.51	1.21	0.77	-50.77	785.33	-961.72	1,241.64	1,239.67	1.98	628.489	
500.00	500.00	481.43	481.43	1.57	1.11	-50.78	785.31	-962.25	1,242.05	1,239.37	2.68	463.692	
600.00	600.00	577.09	577.09	1.93	1.45	-50.78	785.79	-962.71	1,242.74	1,239.37	3.37	368.578	
700.00	700.00	728.93	728.83	2.29	1.96	-50.59	787.89	-958.72	1,241.61	1,237.36	4.25	292.297	
800.00	800.00	842.04	841.48	2.64	2.36	-50.17	791.80	-949.47	1,237.46	1,232.46	5.00	247.501	
900.00	900.00	941.48	940.09	3.00	2.73	-49.61	798.36	-938.51	1,233.24	1,227.52	5.72	215.421	
1,000.00	1,000.00	1,047.45	1,044.61	3.36	3.15	-48.83	808.00	-924.03	1,228.78	1,222.28	6.50	189.070	
1,100.00	1,100.00	1,150.61	1,145.66	3.72	3.59	-47.89	819.99	-907.08	1,224.13	1,216.84	7.29	167.883	
1,200.00	1,200.00	1,243.78	1,236.77	4.08	4.01	-46.99	831.21	-891.17	1,219.61	1,211.55	8.07	151.220	
1,300.00	1,300.00	1,338.04	1,328.41	4.44	4.45	-45.97	844.78	-873.81	1,216.07	1,207.20	8.87	137.100	
1,400.00	1,400.00	1,422.22	1,409.65	4.79	4.88	-44.93	858.84	-856.81	1,213.34	1,203.69	9.65	125.684	
1,500.00	1,499.98	1,523.05	1,506.72	5.15	5.40	-81.57	877.03	-836.44	1,211.84	1,201.30	10.54	114.987	
1,600.00	1,599.84	1,660.95	1,639.48	5.51	6.14	-80.22	898.89	-806.34	1,207.43	1,195.80	11.63	103.830	
1,700.00	1,699.45	1,740.94	1,716.64	5.87	6.58	-79.64	911.16	-789.14	1,202.76	1,190.34	12.43	96.800	
1,800.00	1,798.70	1,870.53	1,841.32	6.23	7.29	-78.80	931.04	-759.98	1,197.13	1,183.63	13.50	88.671	
1,900.00	1,897.47	1,956.82	1,924.23	6.60	7.78	-78.43	943.43	-739.56	1,189.53	1,175.17	14.36	82.828	
2,000.00	1,995.62	2,053.19	2,017.26	6.99	8.31	-78.22	957.76	-718.89	1,183.04	1,167.76	15.28	77.412	
2,100.00	2,093.06	2,148.63	2,109.39	7.39	8.84	-78.18	971.55	-698.12	1,175.38	1,159.17	16.22	72.486	
2,200.00	2,189.64	2,263.76	2,220.41	7.82	9.49	-78.29	988.48	-672.78	1,167.07	1,149.79	17.28	67.535	
2,300.00	2,285.27	2,349.94	2,303.55	8.28	9.97	-78.58	1,000.88	-653.77	1,157.75	1,139.53	18.22	63.537	
2,400.00	2,379.82	2,425.25	2,376.50	8.77	10.38	-79.03	1,011.96	-638.70	1,149.32	1,130.20	19.12	60.112	
2,500.00	2,473.17	2,504.73	2,453.81	9.31	10.79	-79.67	1,023.98	-624.74	1,142.22	1,122.16	20.06	56.951	
2,600.00	2,565.21	2,584.20	2,531.38	9.88	11.19	-80.49	1,036.22	-612.52	1,136.31	1,115.29	21.02	54.061	
2,660.67	2,620.37	2,660.67	2,612.04	10.25	11.58	-81.40	1,048.56	-599.10	1,131.88	1,110.10	21.78	51.973	
2,700.00	2,655.96	2,764.70	2,706.73	10.50	12.15	-82.32	1,062.45	-579.11	1,127.55	1,104.99	22.56	49.980	
2,800.00	2,746.43	2,856.69	2,795.21	11.15	12.68	-83.11	1,075.40	-557.56	1,115.33	1,091.61	23.72	47.022	
2,900.00	2,836.90	2,970.92	2,905.10	11.82	13.34	-84.11	1,091.04	-530.60	1,102.92	1,077.92	25.00	44.115	
3,000.00	2,927.37	3,055.75	2,986.95	12.50	13.82	-84.92	1,102.04	-511.21	1,090.82	1,064.66	26.16	41.700	
3,100.00	3,017.85	3,143.23	3,071.33	13.21	14.31	-85.75	1,114.22	-491.60	1,079.98	1,052.65	27.34	39.506	
3,200.00	3,108.32	3,223.03	3,148.51	13.92	14.76	-86.55	1,125.70	-474.90	1,070.82	1,042.33	28.49	37.592	
3,300.00	3,198.79	3,328.10	3,250.18	14.64	15.34	-87.62	1,140.98	-453.22	1,062.29	1,032.54	29.75	35.708	
3,400.00	3,289.27	3,418.42	3,337.83	15.38	15.83	-88.62	1,153.47	-435.39	1,054.33	1,023.38	30.94	34.072	
3,500.00	3,379.74	3,511.99	3,428.44	16.12	16.34	-89.61	1,167.33	-416.60	1,047.12	1,014.96	32.16	32.562	
3,600.00	3,470.21	3,607.37	3,521.00	16.87	16.86	-90.67	1,181.44	-398.45	1,041.05	1,007.67	33.38	31.189	
3,700.00	3,560.68	3,709.22	3,619.78	17.62	17.41	-91.82	1,195.92	-378.29	1,034.42	999.80	34.62	29.877	
3,800.00	3,651.16	3,809.92	3,717.35	18.39	17.97	-92.93	1,211.08	-358.54	1,028.86	993.00	35.87	28.686	
3,900.00	3,741.63	3,938.12	3,841.15	19.15	18.69	-94.32	1,229.50	-330.80	1,021.66	984.44	37.22	27.451	
4,000.00	3,832.10	4,046.31	3,945.30	19.92	19.32	-95.50	1,243.88	-305.29	1,012.61	974.13	38.48	26.313	
4,100.00	3,922.57	4,119.17	4,015.64	20.69	19.73	-96.34	1,253.42	-288.87	1,004.75	965.13	39.62	25.362	
4,200.00	4,013.05	4,208.40	4,102.16	21.47	20.22	-97.42	1,265.49	-270.71	999.29	958.51	40.78	24.504	
4,300.00	4,103.52	4,285.93	4,177.11	22.25	20.65	-98.29	1,277.37	-254.85	995.14	953.25	41.89	23.755	
4,400.00	4,193.99	4,371.22	4,260.11	23.03	21.10	-99.35	1,290.09	-239.85	993.58	950.58	43.00	23.107	
4,500.00	4,284.47	4,490.09	4,375.34	23.81	21.75	-100.73	1,308.99	-217.69	992.11	947.85	44.26	22.417	
4,600.00	4,374.94	4,610.95	4,492.10	24.60	22.43	-102.13	1,326.99	-192.22	988.38	942.88	45.50	21.722	
4,700.00	4,465.41	4,715.49	4,592.81	25.39	23.03	-103.33	1,342.01	-168.55	983.43	936.76	46.67	21.072	
4,800.00	4,555.88	4,810.55	4,684.33	26.18	23.59	-104.41	1,356.05	-146.99	979.02	931.21	47.80	20.480	
4,900.00	4,646.36	4,917.05	4,786.90	26.97	24.21	-105.66	1,371.39	-122.79	974.83	925.89	48.94	19.917	
5,000.00	4,736.83	5,011.89	4,878.09	27.76	24.76	-106.76	1,385.00	-100.56	970.37	920.33	50.04	19.391	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,827.30	5,095.23	4,958.36	28.55	25.24	-107.73	1,397.29	-81.84	967.35	916.26	51.09	18.936	
5,200.00	4,917.77	5,178.78	5,039.12	29.35	25.72	-108.74	1,409.76	-64.44	966.32	914.23	52.09	18.549	
5,207.19	4,924.28	5,184.87	5,045.00	29.41	25.75	-108.81	1,410.72	-63.20	966.32	914.15	52.17	18.524	CC
5,300.00	5,008.25	5,280.98	5,137.91	30.15	26.29	-109.94	1,425.77	-43.75	966.50	913.36	53.15	18.186	
5,329.95	5,035.35	5,314.43	5,170.32	30.38	26.47	-110.36	1,430.44	-36.90	966.42	912.96	53.46	18.078	
5,400.00	5,098.72	5,368.90	5,223.18	30.94	26.77	-111.06	1,438.07	-26.20	966.89	912.80	54.10	17.873	
5,500.00	5,189.19	5,455.75	5,307.63	31.74	27.23	-112.18	1,450.31	-10.03	969.04	914.03	55.01	17.615	
5,600.00	5,279.67	5,579.09	5,427.22	32.54	27.90	-113.69	1,468.79	13.80	971.31	915.26	56.05	17.329	
5,700.00	5,370.14	5,677.11	5,522.03	33.34	28.45	-114.89	1,482.86	34.28	972.27	915.28	56.99	17.062	
5,800.00	5,460.61	5,765.49	5,607.79	34.14	28.93	-116.03	1,494.68	52.10	974.18	916.34	57.84	16.842	
5,900.00	5,551.08	5,865.00	5,704.51	34.94	29.47	-117.33	1,507.77	71.44	977.26	918.56	58.70	16.649	
6,000.00	5,641.56	5,977.29	5,813.29	35.75	30.09	-118.75	1,522.78	94.96	979.35	919.78	59.57	16.441	
6,100.00	5,732.03	6,076.81	5,909.62	36.55	30.64	-120.03	1,535.68	116.33	981.39	921.01	60.38	16.253	
6,200.00	5,822.50	6,166.06	5,996.01	37.35	31.14	-121.15	1,547.55	135.35	984.13	922.97	61.16	16.092	
6,300.00	5,912.97	6,258.89	6,086.16	38.16	31.64	-122.36	1,559.16	154.22	988.22	926.32	61.90	15.966	
6,400.00	6,003.45	6,347.36	6,171.96	38.96	32.12	-123.43	1,571.50	171.89	993.28	930.65	62.63	15.859	
6,500.00	6,093.92	6,463.43	6,284.38	39.77	32.76	-124.78	1,588.49	195.20	998.75	935.30	63.45	15.741	
6,600.00	6,184.39	6,558.01	6,375.69	40.57	33.30	-125.83	1,602.86	215.28	1,003.45	939.24	64.21	15.628	
6,700.00	6,274.87	6,635.00	6,450.41	41.38	33.72	-126.75	1,613.34	230.56	1,009.85	945.00	64.85	15.572	
6,800.00	6,365.34	6,760.29	6,571.60	42.18	34.42	-128.16	1,631.55	256.55	1,015.67	950.02	65.65	15.472	
6,900.00	6,455.81	6,862.65	6,670.08	42.99	35.02	-129.17	1,648.85	278.45	1,021.29	954.86	66.43	15.374	
7,000.00	6,546.28	6,962.90	6,766.38	43.80	35.61	-130.16	1,665.40	300.87	1,026.23	959.04	67.19	15.274	
7,100.00	6,636.76	7,170.00	6,961.92	44.61	36.78	-133.80	1,669.85	363.24	1,021.40	954.42	66.98	15.249	
7,177.42	6,706.80	7,215.06	7,002.93	45.23	36.93	-135.21	1,658.92	378.34	1,019.19	952.12	67.07	15.196	
7,200.00	6,727.23	7,223.62	7,010.72	45.41	36.96	-135.50	1,656.51	380.96	1,019.36	952.23	67.13	15.184	
7,300.00	6,817.70	7,260.00	7,043.69	46.22	37.09	-136.75	1,645.10	391.23	1,024.37	957.12	67.25	15.232	
7,383.79	6,893.51	7,288.13	7,069.12	46.90	37.14	-137.76	1,635.28	398.16	1,033.99	966.85	67.14	15.400	
7,400.00	6,908.25	7,293.57	7,074.04	47.03	37.15	-140.54	1,633.31	399.40	1,036.39	969.29	67.10	15.445	
7,450.00	6,954.52	7,310.90	7,089.71	47.40	37.18	-150.90	1,626.92	403.10	1,044.53	977.57	66.96	15.599	
7,500.00	7,001.74	7,349.00	7,124.14	47.72	37.24	-165.02	1,612.14	410.03	1,054.06	987.37	66.69	15.806	
7,550.00	7,049.55	7,349.00	7,124.14	47.99	37.24	178.58	1,612.14	410.03	1,063.45	996.83	66.62	15.963	
7,600.00	7,097.58	7,372.35	7,145.14	48.21	37.26	159.82	1,602.55	413.59	1,073.75	1,007.33	66.42	16.167	
7,650.00	7,145.48	7,397.95	7,167.94	48.37	37.27	142.23	1,591.50	417.14	1,084.19	1,017.98	66.21	16.375	
7,700.00	7,192.88	7,438.00	7,203.18	48.48	37.30	127.70	1,573.07	421.90	1,094.79	1,028.80	65.99	16.590	
7,750.00	7,239.41	7,456.75	7,219.46	48.54	37.30	116.87	1,563.99	423.92	1,104.83	1,039.00	65.83	16.782	
7,800.00	7,284.72	7,498.24	7,254.95	48.56	37.31	108.60	1,542.97	428.40	1,114.20	1,048.54	65.66	16.970	
7,850.00	7,328.47	7,542.54	7,291.95	48.54	37.31	102.40	1,519.11	433.25	1,122.50	1,057.00	65.50	17.137	
7,900.00	7,370.32	7,592.80	7,332.37	48.47	37.30	97.69	1,489.86	439.26	1,129.38	1,064.05	65.33	17.287	
7,950.00	7,409.96	7,636.14	7,365.69	48.37	37.29	94.12	1,462.73	444.90	1,134.79	1,069.59	65.19	17.407	
8,000.00	7,447.08	7,673.52	7,393.06	48.24	37.27	91.40	1,437.76	449.79	1,139.08	1,074.00	65.09	17.501	
8,050.00	7,481.41	7,705.00	7,415.06	48.07	37.26	89.31	1,415.62	453.88	1,142.33	1,077.29	65.03	17.565	
8,100.00	7,512.67	7,743.98	7,440.84	47.87	37.22	87.77	1,386.80	458.80	1,144.55	1,079.58	64.96	17.618	
8,150.00	7,540.64	7,777.69	7,461.72	47.65	37.18	86.65	1,360.67	462.86	1,145.84	1,080.90	64.95	17.643	
8,200.00	7,565.09	7,794.00	7,471.35	47.40	37.17	85.79	1,347.63	464.75	1,146.40	1,081.30	65.09	17.611	
8,250.00	7,585.85	7,823.00	7,487.54	47.14	37.12	85.31	1,323.75	467.62	1,146.37	1,081.17	65.19	17.584	
8,300.00	7,602.75	7,842.06	7,497.47	46.86	37.08	84.99	1,307.54	468.99	1,146.17	1,080.75	65.42	17.520	
8,329.02	7,610.74	7,853.10	7,502.95	46.70	37.06	84.90	1,297.98	469.60	1,145.94	1,080.36	65.58	17.474	
8,350.00	7,615.67	7,883.00	7,516.80	46.58	37.01	85.16	1,271.50	470.56	1,146.25	1,080.79	65.47	17.509	
8,400.00	7,624.51	7,883.00	7,516.80	46.28	37.01	85.02	1,271.50	470.56	1,145.07	1,079.06	66.00	17.349	
8,450.00	7,629.19	7,924.00	7,534.08	45.98	36.92	85.71	1,234.33	471.29	1,143.78	1,077.65	66.13	17.297	
8,481.00	7,630.00	7,954.27	7,545.96	45.79	36.85	86.38	1,206.50	471.95	1,142.33	1,076.17	66.16	17.267	
8,500.00	7,630.00	7,972.94	7,552.92	45.68	36.81	86.73	1,189.18	472.41	1,141.30	1,075.13	66.17	17.248	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 318-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,600.00	7,630.00	8,031.99	7,573.59	45.11	36.67	87.76	1,133.87	473.09	1,137.93	1,071.20	66.73	17.052	
8,632.13	7,630.00	8,051.26	7,579.95	44.93	36.63	88.08	1,115.69	472.95	1,137.67	1,070.77	66.91	17.004	
8,700.00	7,630.00	8,110.95	7,598.62	44.56	36.50	89.02	1,059.00	471.97	1,138.01	1,070.97	67.04	16.974	
8,800.00	7,630.00	8,205.36	7,624.12	44.05	36.31	90.31	968.15	470.49	1,139.15	1,071.95	67.20	16.952	
8,900.00	7,630.00	8,306.23	7,640.06	43.57	36.13	91.11	868.61	468.62	1,140.89	1,073.62	67.27	16.960	
9,000.00	7,630.00	8,400.09	7,648.35	43.12	36.01	91.52	775.14	466.83	1,142.68	1,075.21	67.47	16.936	
9,100.00	7,630.00	8,526.76	7,657.90	42.70	35.94	92.00	648.86	464.99	1,144.11	1,076.42	67.69	16.903	
9,200.00	7,630.00	8,650.35	7,660.06	42.31	36.02	92.11	525.31	466.62	1,142.41	1,074.25	68.16	16.761	
9,300.00	7,630.00	8,749.20	7,660.33	41.94	36.22	92.13	426.48	468.41	1,140.27	1,071.41	68.86	16.559	
9,400.00	7,630.00	8,850.17	7,660.56	41.59	36.56	92.14	325.52	470.18	1,138.19	1,068.46	69.73	16.322	
9,500.00	7,630.00	8,956.16	7,660.45	41.26	37.08	92.14	219.55	472.37	1,135.79	1,064.99	70.80	16.042	
9,600.00	7,630.00	9,049.46	7,660.36	40.96	37.65	92.14	126.27	474.21	1,133.47	1,061.53	71.94	15.755	
9,700.00	7,630.00	9,154.79	7,660.23	40.68	38.43	92.14	20.97	476.41	1,131.03	1,057.69	73.34	15.421	
9,800.00	7,630.00	9,252.14	7,660.13	40.42	39.25	92.14	-76.37	478.44	1,128.61	1,053.82	74.79	15.090	
9,900.00	7,630.00	9,356.73	7,660.12	40.17	40.22	92.14	-180.93	480.63	1,126.18	1,049.70	76.48	14.725	
10,000.00	7,630.00	9,462.65	7,659.60	39.96	41.29	92.12	-286.80	483.53	1,123.09	1,044.76	78.33	14.338	
10,100.00	7,630.00	9,546.27	7,657.71	40.05	42.19	92.03	-370.38	485.52	1,120.33	1,040.47	79.86	14.028	
10,200.00	7,630.00	9,629.35	7,656.30	40.95	43.10	91.96	-453.44	485.98	1,119.36	1,037.92	81.44	13.744	
10,225.61	7,630.00	9,651.49	7,656.53	41.19	43.35	91.97	-475.58	485.95	1,119.32	1,037.43	81.88	13.670	
10,300.00	7,630.00	9,727.22	7,658.44	41.94	44.21	92.07	-551.29	485.72	1,119.35	1,035.90	83.45	13.413	
10,379.10	7,630.00	9,805.03	7,660.49	42.76	45.12	92.18	-629.07	485.65	1,119.24	1,034.12	85.12	13.149	
10,400.00	7,630.00	9,824.86	7,660.96	42.98	45.35	92.20	-648.89	485.59	1,119.25	1,033.70	85.55	13.084	
10,500.00	7,630.00	9,936.31	7,663.47	44.06	46.71	92.33	-760.31	485.63	1,118.98	1,030.90	88.08	12.704	
10,600.00	7,630.00	10,052.17	7,666.38	45.17	48.19	92.48	-876.12	487.32	1,117.28	1,026.42	90.86	12.297	
10,700.00	7,630.00	10,165.38	7,669.10	46.32	49.68	92.63	-989.26	490.32	1,114.41	1,020.74	93.67	11.897	
10,800.00	7,630.00	10,240.96	7,670.31	47.50	50.69	92.70	-1,064.79	492.48	1,111.46	1,015.99	95.47	11.642	
10,836.22	7,630.00	10,262.38	7,670.36	47.93	50.98	92.70	-1,086.21	492.55	1,111.22	1,015.28	95.93	11.583	
10,900.00	7,630.00	10,313.42	7,669.97	48.70	51.66	92.68	-1,137.25	491.81	1,111.84	1,014.71	97.13	11.446	
11,000.00	7,630.00	10,431.06	7,668.17	49.94	53.26	92.59	-1,254.87	491.06	1,112.04	1,011.82	100.23	11.095	
11,100.00	7,630.00	10,548.95	7,665.37	51.20	54.91	92.44	-1,372.72	491.90	1,110.91	1,007.50	103.40	10.743	
11,200.00	7,630.00	10,642.07	7,662.71	52.48	56.24	92.31	-1,465.80	493.17	1,109.10	1,003.25	105.85	10.478	
11,300.00	7,630.00	10,749.66	7,659.22	53.79	57.79	92.13	-1,573.31	494.95	1,106.95	998.14	108.81	10.174	
11,372.11	7,630.00	10,798.49	7,657.52	54.74	58.50	92.05	-1,622.12	495.24	1,106.19	996.20	109.99	10.057	
11,400.00	7,630.00	10,823.00	7,656.65	55.12	58.86	92.00	-1,646.61	495.00	1,106.32	995.69	110.63	10.000	
11,500.00	7,630.00	10,933.30	7,652.56	56.46	60.47	91.79	-1,756.83	494.35	1,106.48	992.72	113.76	9.726	
11,600.00	7,630.00	11,030.21	7,648.69	57.83	61.90	91.59	-1,853.66	494.68	1,105.69	989.23	116.46	9.494	
11,616.04	7,630.00	11,042.72	7,648.12	58.06	62.09	91.56	-1,866.16	494.65	1,105.66	988.88	116.79	9.467	
11,700.00	7,630.00	11,116.30	7,644.33	59.22	63.18	91.36	-1,939.63	493.74	1,106.28	987.50	118.77	9.314	
11,800.00	7,630.00	11,230.15	7,637.85	60.62	64.89	91.03	-2,053.29	492.83	1,106.62	984.48	122.14	9.061	
11,880.94	7,630.00	11,307.96	7,633.02	61.77	66.07	90.78	-2,130.95	492.84	1,106.27	981.92	124.34	8.897	
11,900.00	7,630.00	11,323.71	7,632.03	62.04	66.31	90.73	-2,146.67	492.75	1,106.30	981.53	124.77	8.867	
12,000.00	7,630.00	11,421.18	7,625.87	63.48	67.80	90.41	-2,243.93	491.67	1,107.00	979.43	127.57	8.678	
12,100.00	7,630.00	11,511.84	7,619.84	64.93	69.19	90.10	-2,334.39	490.64	1,107.79	977.68	130.11	8.514	
12,200.00	7,630.00	11,600.14	7,614.16	66.39	70.54	89.80	-2,422.48	488.59	1,109.78	977.20	132.57	8.371	
12,300.00	7,630.00	11,710.14	7,609.35	67.86	72.23	89.55	-2,532.34	485.76	1,112.06	976.09	135.97	8.179	
12,400.00	7,630.00	11,822.34	7,604.08	69.35	73.98	89.28	-2,644.40	484.30	1,113.07	973.59	139.47	7.981	
12,500.00	7,630.00	11,933.14	7,598.82	70.85	75.73	89.01	-2,755.08	483.91	1,113.16	970.23	142.94	7.788	
12,581.37	7,630.00	12,009.49	7,595.36	72.08	76.94	88.83	-2,831.35	484.22	1,112.65	967.42	145.22	7.662	
12,600.00	7,630.00	12,022.76	7,594.71	72.36	77.15	88.80	-2,844.60	484.15	1,112.69	967.12	145.58	7.643	
12,700.00	7,630.00	12,108.96	7,589.86	73.88	78.51	88.55	-2,930.65	482.57	1,114.26	966.21	148.05	7.526	
12,800.00	7,630.00	12,217.65	7,582.99	75.41	80.24	88.20	-3,039.11	481.10	1,115.44	963.97	151.46	7.364	
12,900.00	7,630.00	12,318.64	7,577.39	76.95	81.85	87.92	-3,139.95	480.02	1,116.36	961.78	154.58	7.222	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
13,000.00	7,630.00	12,429.14	7,574.41	78.49	83.63	87.76	-3,250.39	479.19	1,116.88	958.71	158.17	7.061	
13,100.00	7,630.00	12,538.52	7,573.45	80.05	85.40	87.71	-3,359.76	479.39	1,116.39	954.63	161.76	6.902	
13,200.00	7,630.00	12,644.61	7,572.07	81.61	87.13	87.64	-3,465.84	480.31	1,115.24	950.03	165.21	6.750	
13,300.00	7,630.00	12,734.24	7,570.90	83.18	88.60	87.58	-3,555.46	481.26	1,113.94	945.94	168.00	6.631	
13,322.19	7,630.00	12,750.94	7,570.65	83.53	88.87	87.56	-3,572.16	481.26	1,113.88	945.41	168.48	6.612	
13,400.00	7,630.00	12,815.45	7,569.66	84.76	89.92	87.51	-3,636.65	480.58	1,114.46	944.06	170.40	6.540	
13,500.00	7,630.00	12,912.90	7,569.46	86.34	91.50	87.51	-3,734.09	478.84	1,115.92	942.39	173.53	6.431	
13,600.00	7,630.00	13,018.71	7,569.46	87.94	93.23	87.51	-3,839.88	477.25	1,117.08	940.03	177.05	6.309	
13,700.00	7,630.00	13,133.39	7,569.17	89.53	95.11	87.50	-3,954.57	476.47	1,117.44	936.48	180.97	6.175	
13,800.00	7,630.00	13,238.67	7,569.67	91.13	96.85	87.52	-4,059.84	476.81	1,116.76	932.27	184.49	6.053	
13,844.23	7,630.00	13,273.03	7,570.31	91.85	97.42	87.55	-4,094.19	476.77	1,116.62	931.08	185.53	6.018	
13,900.00	7,630.00	13,319.21	7,571.73	92.74	98.19	87.63	-4,140.35	476.35	1,116.86	929.90	186.96	5.974	
14,000.00	7,630.00	13,430.92	7,576.09	94.35	100.04	87.85	-4,251.97	475.38	1,117.24	926.37	190.87	5.853	
14,086.41	7,630.00	13,515.39	7,579.63	95.75	101.44	88.03	-4,336.37	475.43	1,116.77	923.07	193.70	5.765	
14,100.00	7,630.00	13,524.16	7,579.95	95.97	101.59	88.05	-4,345.13	475.37	1,116.80	922.86	193.94	5.758	
14,200.00	7,630.00	13,590.78	7,581.66	97.60	102.69	88.14	-4,411.70	473.72	1,118.82	923.13	195.69	5.717	
14,300.00	7,630.00	13,694.21	7,583.33	99.22	104.39	88.23	-4,515.05	469.88	1,122.14	922.94	199.20	5.633	
14,400.00	7,630.00	13,802.74	7,584.59	100.85	106.19	88.30	-4,623.52	466.57	1,124.81	921.85	202.96	5.542	
14,500.00	7,630.00	13,915.94	7,583.97	102.49	108.07	88.27	-4,736.69	464.04	1,126.74	919.83	206.92	5.445	
14,600.00	7,630.00	14,038.69	7,581.33	104.13	110.12	88.14	-4,859.41	463.49	1,126.93	915.68	211.25	5.335	
14,622.60	7,630.00	14,051.81	7,580.98	104.50	110.34	88.12	-4,872.52	463.47	1,126.88	915.29	211.58	5.326	
14,700.00	7,630.00	14,107.68	7,579.65	105.77	111.28	88.05	-4,928.36	462.79	1,127.62	914.47	213.14	5.290	
14,800.00	7,630.00	14,220.67	7,577.35	107.42	113.17	87.94	-5,041.31	460.67	1,129.26	912.19	217.07	5.202	
14,900.00	7,630.00	14,304.68	7,577.14	109.07	114.57	87.93	-5,125.30	458.93	1,130.96	911.30	219.66	5.149	
15,000.00	7,630.00	14,407.10	7,577.72	110.72	116.29	87.96	-5,227.70	456.71	1,132.76	909.61	223.15	5.076	
15,100.00	7,630.00	14,490.63	7,578.72	112.38	117.69	88.02	-5,311.18	453.97	1,135.63	909.92	225.71	5.031	
15,200.00	7,630.00	14,606.19	7,580.43	114.04	119.62	88.11	-5,426.66	450.38	1,138.34	908.45	229.89	4.952	
15,300.00	7,630.00	14,724.28	7,580.22	115.71	121.61	88.10	-5,544.73	448.46	1,139.64	905.52	234.13	4.868	
15,400.00	7,630.00	14,833.20	7,578.83	117.37	123.46	88.03	-5,653.65	448.15	1,139.62	901.72	237.90	4.790	
15,500.00	7,630.00	14,959.42	7,578.78	119.04	125.61	88.02	-5,779.86	449.74	1,138.00	895.58	242.42	4.694	
15,600.00	7,630.00	15,072.93	7,579.48	120.71	127.56	88.05	-5,893.30	453.28	1,134.49	888.11	246.38	4.605	
15,700.00	7,630.00	15,171.76	7,580.02	122.39	129.27	88.07	-5,992.07	456.64	1,130.73	880.97	249.76	4.527	
15,800.00	7,630.00	15,278.20	7,580.29	124.06	131.10	88.08	-6,098.45	460.44	1,126.83	873.40	253.43	4.446	
15,900.00	7,630.00	15,374.38	7,580.51	125.74	132.76	88.08	-6,194.55	464.22	1,122.56	865.85	256.71	4.373	
16,000.00	7,630.00	15,476.64	7,580.50	127.42	134.53	88.08	-6,296.75	467.98	1,118.55	858.33	260.22	4.298	
16,100.00	7,630.00	15,573.47	7,580.34	129.10	136.20	88.06	-6,393.50	471.55	1,114.53	851.01	263.52	4.229	
16,200.00	7,630.00	15,669.78	7,580.35	130.79	137.87	88.06	-6,489.75	475.02	1,110.60	843.79	266.81	4.163	
16,300.00	7,630.00	15,753.75	7,582.47	132.48	139.32	88.16	-6,573.66	477.27	1,107.54	837.93	269.61	4.108	
16,372.14	7,630.00	15,802.26	7,584.70	133.70	140.15	88.28	-6,622.12	477.55	1,106.77	835.72	271.04	4.083	
16,400.00	7,630.00	15,825.00	7,586.00	134.17	140.54	88.34	-6,644.82	477.32	1,106.89	835.12	271.77	4.073	
16,500.00	7,630.00	15,899.96	7,590.56	135.86	141.82	88.58	-6,719.62	475.53	1,108.71	834.74	273.97	4.047	
16,600.00	7,630.00	15,986.24	7,594.16	137.55	143.28	88.77	-6,805.75	472.08	1,112.26	835.58	276.67	4.020	
16,700.00	7,630.00	16,083.78	7,597.36	139.24	144.93	88.94	-6,903.15	467.82	1,116.22	836.23	280.00	3.987	
16,800.00	7,630.00	16,178.43	7,599.96	140.94	146.53	89.08	-6,997.64	463.17	1,120.75	837.61	283.14	3.958	
16,900.00	7,630.00	16,282.58	7,602.61	142.64	148.29	89.22	-7,101.64	458.02	1,125.32	838.47	286.84	3.923	
17,000.00	7,630.00	16,384.99	7,605.03	144.34	150.03	89.34	-7,203.91	453.44	1,129.42	838.98	290.44	3.889	
17,100.00	7,630.00	16,483.23	7,606.91	146.04	151.70	89.44	-7,302.04	449.03	1,133.55	839.76	293.79	3.858	
17,200.00	7,630.00	16,584.66	7,608.04	147.74	153.42	89.50	-7,403.36	444.45	1,137.73	840.41	297.32	3.827	
17,300.00	7,630.00	16,681.08	7,608.37	149.44	155.05	89.52	-7,499.67	440.01	1,141.98	841.44	300.54	3.800	
17,400.00	7,630.00	16,781.05	7,608.10	151.15	156.75	89.50	-7,599.53	435.28	1,146.38	842.41	303.97	3.771	
17,500.00	7,630.00	16,923.06	7,614.90	152.86	159.18	89.85	-7,741.23	429.98	1,150.09	840.36	309.73	3.713	
17,600.00	7,630.00	17,033.08	7,623.90	154.56	161.07	90.29	-7,850.89	429.46	1,150.22	836.47	313.75	3.666	

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

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

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,700.00	7,630.00	17,150.77	7,632.01	156.27	163.11	90.70	-7,968.29	430.00	1,149.50	831.43	318.08	3.614	
17,800.00	7,630.00	17,263.24	7,638.08	157.98	165.07	91.00	-8,080.57	432.39	1,147.09	824.98	322.11	3.561	
17,900.00	7,630.00	17,377.29	7,643.17	159.70	167.06	91.26	-8,194.46	435.71	1,143.94	817.78	326.16	3.507	
18,000.00	7,630.00	17,476.75	7,647.04	161.41	168.80	91.46	-8,293.77	439.30	1,140.08	810.44	329.64	3.459	
18,100.00	7,630.00	17,581.08	7,650.48	163.12	170.63	91.64	-8,397.97	443.37	1,135.92	802.63	333.29	3.408	
18,150.02	7,630.00	17,583.00	7,650.55	163.98	170.66	91.64	-8,399.89	443.45	1,134.82	801.84	332.98	3.408	ES, SF
18,154.00	7,630.00	17,583.00	7,650.55	164.05	170.66	91.64	-8,399.89	443.45	1,134.83	801.91	332.93	3.409	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-50.42	786.15	-950.86	1,233.82				
100.00	100.00	88.63	88.63	0.13	0.15	-50.41	786.19	-950.80	1,233.74	1,233.46	0.28	4,378.489	
200.00	200.00	189.34	189.34	0.49	0.31	-50.40	786.34	-950.57	1,233.66	1,232.85	0.81	1,527.424	
300.00	300.00	290.05	290.05	0.85	0.48	-50.38	786.59	-950.18	1,233.52	1,232.19	1.33	924.976	
400.00	400.00	390.17	390.17	1.21	0.78	-50.36	786.75	-949.82	1,233.35	1,231.36	1.99	620.290	
500.00	500.00	490.07	490.07	1.57	1.12	-50.39	786.30	-949.97	1,233.17	1,230.48	2.69	457.989	
600.00	600.00	592.13	592.12	1.93	1.48	-50.45	785.17	-950.68	1,233.01	1,229.60	3.40	362.173	
700.00	700.00	727.91	727.83	2.29	1.96	-50.36	784.88	-947.25	1,230.81	1,226.57	4.24	290.277	
800.00	800.00	860.80	860.22	2.64	2.44	-49.90	788.57	-936.60	1,226.49	1,221.42	5.07	241.749	
900.00	900.00	963.36	961.74	3.00	2.83	-49.29	794.63	-923.48	1,220.53	1,214.71	5.82	209.785	
1,000.00	1,000.00	1,059.41	1,055.95	3.36	3.23	-48.45	804.39	-907.64	1,214.69	1,208.13	6.57	185.007	
1,100.00	1,100.00	1,153.69	1,147.28	3.72	3.66	-47.37	818.16	-888.72	1,209.43	1,202.09	7.35	164.610	
1,200.00	1,200.00	1,239.55	1,229.76	4.08	4.07	-46.25	832.84	-869.95	1,205.06	1,196.93	8.13	148.305	
1,300.00	1,300.00	1,364.40	1,349.95	4.44	4.71	-44.65	853.82	-843.45	1,201.77	1,192.65	9.12	131.769	
1,400.00	1,400.00	1,471.55	1,452.09	4.79	5.31	-43.13	871.87	-816.61	1,196.29	1,186.22	10.08	118.722	
1,500.00	1,499.98	1,553.83	1,529.99	5.15	5.80	-79.83	887.01	-794.88	1,191.48	1,180.56	10.93	109.052	
1,600.00	1,599.84	1,621.14	1,593.63	5.51	6.21	-78.99	900.56	-777.65	1,188.51	1,176.82	11.69	101.633	
1,700.00	1,699.45	1,717.32	1,684.78	5.87	6.79	-77.93	920.62	-754.44	1,186.87	1,174.23	12.64	93.916	
1,800.00	1,798.70	1,861.59	1,822.44	6.23	7.65	-76.73	946.79	-720.12	1,183.19	1,169.33	13.86	85.351	
1,900.00	1,897.47	2,006.29	1,960.93	6.60	8.50	-75.94	966.54	-683.22	1,174.12	1,159.05	15.07	77.902	
2,000.00	1,995.62	2,093.07	2,044.33	6.99	9.01	-75.77	976.81	-661.55	1,163.43	1,147.46	15.97	72.871	
2,100.00	2,093.06	2,178.15	2,126.22	7.39	9.50	-75.76	987.70	-641.19	1,153.27	1,136.41	16.86	68.383	
2,200.00	2,189.64	2,304.58	2,247.59	7.82	10.24	-75.83	1,002.82	-609.21	1,140.62	1,122.61	18.01	63.330	
2,300.00	2,285.27	2,383.85	2,323.84	8.28	10.70	-76.15	1,012.14	-589.64	1,127.58	1,108.65	18.93	59.563	
2,400.00	2,379.82	2,456.87	2,394.42	8.77	11.11	-76.62	1,021.45	-573.39	1,115.93	1,096.09	19.84	56.260	
2,500.00	2,473.17	2,534.23	2,469.30	9.31	11.54	-77.24	1,032.48	-557.38	1,105.66	1,084.88	20.78	53.200	
2,600.00	2,565.21	2,625.62	2,557.89	9.88	12.04	-78.11	1,046.45	-539.84	1,096.46	1,074.61	21.85	50.186	
2,660.67	2,620.37	2,704.31	2,633.62	10.25	12.49	-78.84	1,059.10	-522.62	1,089.99	1,067.33	22.66	48.107	
2,700.00	2,655.96	2,752.38	2,679.57	10.50	12.78	-79.19	1,067.00	-510.96	1,085.27	1,062.08	23.19	46.808	
2,800.00	2,746.43	2,839.93	2,763.28	11.15	13.31	-79.82	1,081.23	-489.59	1,073.19	1,048.84	24.35	44.082	
2,900.00	2,836.90	2,975.94	2,894.25	11.82	14.10	-81.03	1,100.26	-458.32	1,060.59	1,034.84	25.75	41.195	
3,000.00	2,927.37	3,071.44	2,986.15	12.50	14.66	-81.92	1,111.90	-435.13	1,046.02	1,019.06	26.96	38.794	
3,100.00	3,017.85	3,151.22	3,062.59	13.21	15.14	-82.59	1,123.37	-415.37	1,032.94	1,004.81	28.13	36.718	
3,200.00	3,108.32	3,233.39	3,141.72	13.92	15.62	-83.37	1,135.49	-396.86	1,021.87	992.56	29.31	34.860	
3,300.00	3,198.79	3,356.97	3,260.73	14.64	16.34	-84.56	1,153.65	-368.96	1,011.17	980.48	30.69	32.950	
3,400.00	3,289.27	3,457.73	3,357.85	15.38	16.92	-85.61	1,165.71	-344.97	997.86	965.91	31.95	31.236	
3,500.00	3,379.74	3,537.89	3,435.68	16.12	17.36	-86.59	1,174.74	-328.09	986.42	953.32	33.11	29.794	
3,600.00	3,470.21	3,627.02	3,521.82	16.87	17.86	-87.57	1,187.20	-308.89	976.81	942.48	34.32	28.461	
3,700.00	3,560.68	3,731.21	3,621.94	17.62	18.47	-88.60	1,203.47	-285.06	967.62	931.99	35.62	27.161	
3,800.00	3,651.16	3,843.83	3,730.01	18.39	19.15	-89.74	1,220.26	-258.23	957.55	920.59	36.96	25.905	
3,900.00	3,741.63	3,919.79	3,803.39	19.15	19.56	-90.63	1,230.40	-241.48	948.18	910.08	38.11	24.881	
4,000.00	3,832.10	4,008.36	3,889.96	19.92	20.03	-91.92	1,240.34	-225.63	941.19	901.93	39.26	23.974	
4,100.00	3,922.57	4,109.91	3,988.77	20.69	20.57	-93.29	1,253.17	-206.04	934.52	894.07	40.46	23.100	
4,200.00	4,013.05	4,212.50	4,087.61	21.47	21.16	-94.44	1,269.14	-183.70	927.97	886.26	41.71	22.248	
4,300.00	4,103.52	4,335.66	4,204.92	22.25	21.93	-95.60	1,290.52	-152.93	920.06	876.97	43.09	21.352	
4,400.00	4,193.99	4,434.96	4,299.93	23.03	22.54	-96.68	1,305.27	-128.14	911.10	866.77	44.34	20.548	
4,500.00	4,284.47	4,530.19	4,391.12	23.81	23.12	-97.75	1,319.17	-104.44	902.42	856.87	45.55	19.810	
4,600.00	4,374.94	4,612.93	4,470.23	24.60	23.62	-98.65	1,332.34	-84.11	895.05	848.32	46.72	19.156	
4,700.00	4,465.41	4,688.42	4,542.99	25.39	24.06	-99.57	1,344.13	-67.82	890.39	842.57	47.81	18.623	
4,800.00	4,555.88	4,784.60	4,636.20	26.18	24.59	-100.83	1,358.79	-49.17	887.91	838.98	48.93	18.148	
4,900.00	4,646.36	4,939.68	4,786.20	26.97	25.46	-103.03	1,377.69	-14.82	882.01	831.89	50.12	17.597	
5,000.00	4,736.83	5,042.42	4,884.92	27.76	26.07	-104.48	1,389.01	11.32	873.34	822.15	51.18	17.063	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
5,100.00	4,827.30	5,124.04	4,963.41	28.55	26.55	-105.64	1,398.45	31.63	865.94	813.73	52.21	16.585	
5,200.00	4,917.77	5,202.68	5,039.31	29.35	27.00	-106.78	1,408.12	49.74	861.04	807.85	53.19	16.189	
5,300.00	5,008.25	5,280.26	5,114.45	30.15	27.43	-107.90	1,418.45	66.08	858.88	804.77	54.11	15.873	
5,400.00	5,098.72	5,382.14	5,213.29	30.94	27.99	-109.37	1,432.46	86.36	858.49	803.42	55.07	15.590	
5,500.00	5,189.19	5,483.82	5,311.48	31.74	28.56	-110.73	1,447.87	107.83	857.91	801.87	56.04	15.308	
5,600.00	5,279.67	5,602.25	5,425.64	32.54	29.25	-112.36	1,464.58	134.51	856.12	799.11	57.02	15.015	
5,700.00	5,370.14	5,694.01	5,513.86	33.34	29.79	-113.61	1,477.46	156.22	853.79	795.87	57.91	14.743	
5,744.74	5,410.62	5,728.36	5,546.99	33.70	29.99	-114.09	1,482.32	163.87	853.49	795.21	58.28	14.644	
5,800.00	5,460.61	5,779.85	5,596.81	34.14	30.28	-114.82	1,489.37	174.82	853.75	795.01	58.74	14.534	
5,900.00	5,551.08	5,895.14	5,708.50	34.94	30.92	-116.59	1,503.25	199.75	854.02	794.48	59.54	14.343	
5,972.34	5,616.53	5,961.86	5,772.85	35.52	31.30	-117.58	1,511.48	215.32	853.40	793.31	60.10	14.201	CC
6,000.00	5,641.56	5,983.45	5,793.69	35.75	31.43	-117.89	1,514.40	220.19	853.51	793.21	60.30	14.153	
6,100.00	5,732.03	6,069.48	5,876.73	36.55	31.92	-119.05	1,527.12	238.76	855.35	794.28	61.07	14.006	
6,200.00	5,822.50	6,149.73	5,954.30	37.35	32.36	-120.11	1,539.52	255.11	859.01	797.23	61.78	13.904	
6,300.00	5,912.97	6,256.70	6,058.53	38.16	32.92	-121.71	1,553.14	274.87	864.75	802.28	62.47	13.842	
6,400.00	6,003.45	6,361.61	6,161.01	38.96	33.45	-123.60	1,560.93	295.92	868.98	806.02	62.96	13.801	
6,500.00	6,093.92	6,480.38	6,276.83	39.77	34.06	-125.82	1,568.09	321.21	872.85	809.47	63.37	13.773	
6,600.00	6,184.39	6,593.65	6,386.22	40.57	34.70	-127.70	1,578.11	348.74	874.59	810.73	63.85	13.696	
6,700.00	6,274.87	6,674.34	6,463.64	41.38	35.18	-128.75	1,589.70	368.29	877.23	812.75	64.48	13.605	
6,800.00	6,365.34	6,769.96	6,555.70	42.18	35.74	-129.89	1,605.05	389.06	882.69	817.53	65.16	13.547	
6,900.00	6,455.81	6,926.79	6,704.24	42.99	36.76	-131.48	1,634.06	430.01	883.61	817.65	65.97	13.395	
7,000.00	6,546.28	7,087.04	6,854.95	43.80	37.84	-133.61	1,656.00	479.04	882.01	815.79	66.23	13.318	
7,100.00	6,636.76	7,185.84	6,946.64	44.61	38.48	-135.84	1,655.63	515.77	874.03	807.73	66.30	13.184	
7,200.00	6,727.23	7,239.17	6,996.23	45.41	38.78	-137.35	1,650.51	534.64	869.93	803.26	66.67	13.049	
7,210.17	6,736.43	7,244.37	7,001.08	45.50	38.81	-137.51	1,649.78	536.38	869.85	803.16	66.69	13.043	
7,300.00	6,817.70	7,281.03	7,035.29	46.22	38.96	-138.71	1,643.45	547.90	872.33	805.47	66.85	13.049	
7,383.79	6,893.51	7,310.23	7,062.62	46.90	39.06	-139.73	1,636.89	555.80	880.32	813.54	66.78	13.182	
7,400.00	6,908.25	7,315.73	7,067.77	47.03	39.08	-142.49	1,635.51	557.15	882.48	815.73	66.75	13.221	
7,450.00	6,954.52	7,348.00	7,097.92	47.40	39.19	-153.24	1,626.45	564.22	890.25	823.72	66.53	13.381	
7,500.00	7,001.74	7,348.00	7,097.92	47.72	39.19	-166.19	1,626.45	564.22	898.45	831.99	66.46	13.519	
7,550.00	7,049.55	7,370.31	7,118.66	47.99	39.22	176.86	1,619.32	568.29	907.79	841.53	66.25	13.702	
7,600.00	7,097.58	7,390.19	7,137.05	48.21	39.25	158.23	1,612.44	571.41	917.76	851.72	66.04	13.896	
7,650.00	7,145.48	7,410.20	7,155.44	48.37	39.28	140.78	1,605.03	574.05	928.21	862.38	65.83	14.099	
7,700.00	7,192.88	7,437.00	7,179.86	48.48	39.31	126.45	1,594.33	576.83	939.05	873.41	65.64	14.306	
7,750.00	7,239.41	7,454.90	7,196.03	48.54	39.31	115.61	1,586.81	578.27	949.89	884.44	65.45	14.513	
7,800.00	7,284.72	7,481.86	7,220.27	48.56	39.32	107.44	1,575.12	580.01	960.55	895.24	65.32	14.706	
7,850.00	7,328.47	7,508.76	7,244.27	48.54	39.32	101.31	1,563.03	581.22	970.86	905.63	65.24	14.882	
7,900.00	7,370.32	7,568.68	7,296.99	48.47	39.33	96.86	1,534.65	583.40	980.46	915.16	65.30	15.015	
7,950.00	7,409.96	7,641.61	7,359.44	48.37	39.33	93.76	1,497.46	589.23	986.63	921.26	65.37	15.093	
8,000.00	7,447.08	7,684.55	7,395.21	48.24	39.33	91.40	1,474.05	593.17	991.25	925.81	65.45	15.146	
8,050.00	7,481.41	7,724.51	7,427.72	48.07	39.32	89.73	1,451.10	596.85	994.68	929.11	65.57	15.171	
8,100.00	7,512.67	7,762.21	7,457.23	47.87	39.31	88.57	1,427.90	600.27	997.12	931.41	65.71	15.173	
8,150.00	7,540.64	7,802.82	7,487.57	47.65	39.29	87.88	1,401.16	603.93	998.62	932.75	65.88	15.159	
8,200.00	7,565.09	7,856.07	7,524.38	47.40	39.26	87.75	1,363.09	609.37	998.74	932.79	65.95	15.143	
8,250.00	7,585.85	7,925.00	7,566.09	47.14	39.21	88.10	1,308.99	618.13	997.05	931.21	65.84	15.143	
8,300.00	7,602.75	7,998.32	7,601.93	46.86	39.16	88.68	1,246.31	630.46	992.61	927.01	65.60	15.132	
8,350.00	7,615.67	8,059.17	7,624.89	46.58	39.12	89.36	1,191.23	642.23	986.12	920.68	65.44	15.068	
8,400.00	7,624.51	8,090.22	7,634.52	46.28	39.10	90.10	1,162.34	648.27	978.56	912.91	65.65	14.907	
8,450.00	7,629.19	8,120.82	7,643.06	45.98	39.08	91.07	1,133.47	653.69	970.76	904.87	65.89	14.733	
8,481.00	7,630.00	8,149.00	7,650.10	45.79	39.07	91.93	1,106.55	658.22	965.93	899.99	65.95	14.647	
8,500.00	7,630.00	8,149.00	7,650.10	45.68	39.07	91.93	1,106.55	658.22	962.93	896.74	66.19	14.548	
8,600.00	7,630.00	8,206.88	7,662.41	45.11	39.00	92.69	1,050.51	665.76	950.20	883.40	66.81	14.223	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
8,700.00	7,630.00	8,275.76	7,673.98	44.56	38.94	93.42	982.89	671.75	941.80	874.53	67.27	14.000	
8,800.00	7,630.00	8,361.03	7,686.63	44.05	38.86	94.21	898.76	677.52	935.63	868.04	67.59	13.843	
8,900.00	7,630.00	8,437.48	7,695.88	43.57	38.82	94.80	822.98	681.53	931.10	863.07	68.03	13.687	
8,959.53	7,630.00	8,470.75	7,698.75	43.30	38.80	94.98	789.85	682.14	930.25	861.85	68.40	13.600	
9,000.00	7,630.00	8,506.00	7,700.82	43.12	38.79	95.11	754.66	681.68	930.79	862.27	68.52	13.583	
9,100.00	7,630.00	8,559.32	7,702.81	42.70	38.75	95.22	701.43	679.39	934.50	865.39	69.12	13.521	
9,200.00	7,630.00	8,648.69	7,704.90	42.31	38.71	95.31	612.29	673.21	941.21	871.71	69.50	13.542	
9,300.00	7,630.00	8,760.29	7,707.63	41.94	38.75	95.44	500.95	666.30	947.26	877.31	69.95	13.542	
9,400.00	7,630.00	8,863.42	7,710.39	41.59	38.88	95.57	398.00	660.79	952.51	881.87	70.64	13.484	
9,500.00	7,630.00	9,016.98	7,715.80	41.26	39.32	95.88	244.59	657.95	954.13	882.23	71.90	13.270	
9,600.00	7,630.00	9,114.36	7,716.45	40.96	39.76	95.93	147.21	658.34	953.46	880.44	73.02	13.057	
9,620.44	7,630.00	9,132.87	7,716.57	40.90	39.86	95.93	128.70	658.32	953.43	880.18	73.26	13.015	
9,700.00	7,630.00	9,202.45	7,717.17	40.68	40.24	95.97	59.13	657.80	953.83	879.67	74.16	12.862	
9,800.00	7,630.00	9,320.77	7,718.92	40.42	41.02	96.07	-59.17	657.11	954.29	878.43	75.86	12.580	
9,900.00	7,630.00	9,448.04	7,719.16	40.17	42.04	96.11	-186.39	660.45	951.21	873.26	77.95	12.203	
10,000.00	7,630.00	9,557.34	7,718.58	39.96	43.05	96.10	-295.61	664.51	947.14	867.24	79.90	11.854	
10,100.00	7,630.00	9,664.11	7,716.89	40.05	44.13	96.04	-402.26	669.53	941.95	860.02	81.93	11.497	
10,200.00	7,630.00	9,761.47	7,715.09	40.95	45.18	95.96	-499.48	674.37	936.48	852.62	83.86	11.167	
10,300.00	7,630.00	9,838.75	7,714.43	41.94	46.04	95.94	-576.70	677.15	932.48	847.13	85.35	10.926	
10,400.00	7,630.00	9,931.00	7,714.64	42.98	47.10	95.97	-668.92	679.60	929.57	842.29	87.28	10.650	
10,470.30	7,630.00	9,983.02	7,714.66	43.74	47.69	95.97	-720.93	680.26	928.55	840.26	88.29	10.517	
10,500.00	7,630.00	10,001.88	7,714.64	44.06	47.91	95.97	-739.79	680.09	928.73	840.12	88.61	10.481	
10,600.00	7,630.00	10,091.22	7,714.43	45.17	48.95	95.95	-829.10	677.80	930.86	840.36	90.50	10.285	
10,700.00	7,630.00	10,189.28	7,713.85	46.32	50.11	95.90	-927.12	675.05	933.26	840.53	92.73	10.064	
10,800.00	7,630.00	10,295.53	7,712.57	47.50	51.42	95.80	-1,033.32	672.16	935.51	840.20	95.31	9.815	
10,900.00	7,630.00	10,410.55	7,710.53	48.70	52.89	95.67	-1,148.31	670.35	936.57	838.27	98.29	9.528	
10,962.00	7,630.00	10,482.13	7,709.68	49.47	53.82	95.62	-1,219.88	670.21	936.40	836.19	100.21	9.345	
11,000.00	7,630.00	10,508.60	7,709.42	49.94	54.18	95.60	-1,246.36	670.00	936.48	835.73	100.75	9.295	
11,100.00	7,630.00	10,605.56	7,708.55	51.20	55.47	95.54	-1,343.30	668.55	937.53	834.31	103.22	9.083	
11,200.00	7,630.00	10,717.91	7,706.46	52.48	57.01	95.41	-1,455.62	667.90	937.59	831.26	106.33	8.818	
11,300.00	7,630.00	10,814.29	7,703.33	53.79	58.35	95.22	-1,551.95	667.71	937.14	828.29	108.85	8.609	
11,312.11	7,630.00	10,825.69	7,702.95	53.95	58.51	95.20	-1,563.35	667.65	937.13	827.98	109.15	8.586	
11,400.00	7,630.00	10,894.26	7,702.03	55.12	59.47	95.14	-1,631.89	666.64	938.01	827.26	110.75	8.470	
11,500.00	7,630.00	10,981.50	7,703.46	56.46	60.69	95.21	-1,719.09	664.04	940.77	827.80	112.98	8.327	
11,600.00	7,630.00	11,084.49	7,706.58	57.83	62.15	95.39	-1,821.97	660.54	944.11	828.17	115.94	8.143	
11,700.00	7,630.00	11,189.90	7,710.76	59.22	63.67	95.62	-1,927.25	657.46	947.08	828.01	119.06	7.954	
11,800.00	7,630.00	11,321.18	7,714.51	60.62	65.61	95.85	-2,058.47	657.20	947.01	823.62	123.39	7.675	
11,900.00	7,630.00	11,419.58	7,716.30	62.04	67.08	95.96	-2,156.85	657.84	946.22	819.95	126.27	7.494	
12,000.00	7,630.00	11,520.80	7,717.67	63.48	68.62	96.05	-2,258.06	658.32	945.55	816.25	129.30	7.313	
12,100.00	7,630.00	11,622.71	7,718.70	64.93	70.17	96.12	-2,359.96	659.01	944.65	812.26	132.39	7.135	
12,200.00	7,630.00	11,716.60	7,719.03	66.39	71.61	96.14	-2,453.85	659.37	943.98	808.84	135.13	6.986	
12,235.32	7,630.00	11,748.64	7,718.98	66.91	72.10	96.14	-2,485.88	659.31	943.92	807.87	136.05	6.938	
12,300.00	7,630.00	11,809.10	7,718.78	67.86	73.03	96.13	-2,546.34	658.89	944.11	806.30	137.81	6.851	
12,400.00	7,630.00	11,919.93	7,717.91	69.35	74.75	96.08	-2,657.17	658.81	943.75	802.37	141.38	6.675	
12,500.00	7,630.00	12,016.53	7,716.49	70.85	76.26	95.99	-2,753.76	658.81	943.25	798.96	144.29	6.537	
12,600.00	7,630.00	12,121.60	7,714.62	72.36	77.91	95.88	-2,858.81	658.69	942.85	795.22	147.63	6.387	
12,700.00	7,630.00	12,226.60	7,712.68	73.88	79.57	95.77	-2,963.79	659.49	941.57	790.59	150.98	6.236	
12,800.00	7,630.00	12,324.84	7,710.51	75.41	81.14	95.65	-3,062.01	660.26	940.23	786.20	154.03	6.104	
12,869.58	7,630.00	12,383.01	7,708.99	76.48	82.06	95.56	-3,120.16	660.34	939.74	784.08	155.66	6.037	
12,900.00	7,630.00	12,407.52	7,708.45	76.95	82.45	95.52	-3,144.66	660.12	939.84	783.52	156.31	6.013	
13,000.00	7,630.00	12,495.64	7,707.08	78.49	83.85	95.43	-3,232.75	658.48	941.19	782.34	158.85	5.925	
13,100.00	7,630.00	12,597.17	7,707.25	80.05	85.46	95.43	-3,334.25	656.18	943.13	781.02	162.10	5.818	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
13,200.00	7,630.00	12,711.42	7,708.75	81.61	87.29	95.52	-3,448.48	655.02	943.90	777.85	166.05	5.684	
13,300.00	7,630.00	12,817.75	7,709.55	83.18	89.01	95.56	-3,554.81	654.25	944.40	774.81	169.59	5.569	
13,400.00	7,630.00	12,951.11	7,710.38	84.76	91.20	95.63	-3,688.12	657.28	941.75	767.31	174.44	5.399	
13,500.00	7,630.00	13,035.23	7,710.61	86.34	92.58	95.66	-3,772.21	659.83	938.46	761.52	176.94	5.304	
13,600.00	7,630.00	13,120.11	7,710.54	87.94	93.97	95.67	-3,857.08	660.78	936.99	757.56	179.44	5.222	
13,700.00	7,630.00	13,229.13	7,710.43	89.53	95.76	95.67	-3,966.09	661.41	936.09	752.94	183.16	5.111	
13,762.03	7,630.00	13,275.65	7,710.65	90.53	96.53	95.68	-4,012.61	661.65	935.59	751.21	184.38	5.074	
13,800.00	7,630.00	13,304.37	7,711.18	91.13	97.00	95.72	-4,041.32	661.46	935.78	750.66	185.13	5.055	
13,900.00	7,630.00	13,399.96	7,714.05	92.74	98.57	95.88	-4,136.86	660.07	937.19	749.03	188.16	4.981	
14,000.00	7,630.00	13,504.45	7,717.39	94.35	100.28	96.08	-4,241.29	658.77	938.43	746.74	191.68	4.896	
14,100.00	7,630.00	13,611.58	7,720.23	95.97	102.05	96.25	-4,348.37	657.89	939.20	743.84	195.36	4.807	
14,200.00	7,630.00	13,728.34	7,723.19	97.60	103.99	96.44	-4,465.10	658.67	938.47	738.92	199.55	4.703	
14,300.00	7,630.00	13,835.30	7,725.74	99.22	105.79	96.61	-4,572.00	660.77	936.44	733.23	203.21	4.608	
14,400.00	7,630.00	13,941.31	7,727.45	100.85	107.57	96.73	-4,677.97	663.39	933.85	727.02	206.83	4.515	
14,494.91	7,630.00	14,008.86	7,728.18	102.41	108.70	96.79	-4,745.50	664.22	932.48	723.93	208.55	4.471	
14,500.00	7,630.00	14,012.51	7,728.21	102.49	108.76	96.79	-4,749.15	664.21	932.48	723.84	208.64	4.469	
14,600.00	7,630.00	14,142.04	7,729.49	104.13	110.94	96.88	-4,878.66	665.75	931.09	717.58	213.51	4.361	
14,700.00	7,630.00	14,227.91	7,730.24	105.77	112.38	96.94	-4,964.51	667.49	928.85	712.72	216.12	4.298	
14,793.24	7,630.00	14,307.26	7,730.72	107.31	113.72	96.98	-5,043.85	667.96	928.07	709.59	218.47	4.248	
14,800.00	7,630.00	14,312.26	7,730.74	107.42	113.80	96.98	-5,048.85	667.94	928.08	709.47	218.60	4.246	
14,900.00	7,630.00	14,386.23	7,730.83	109.07	115.03	96.97	-5,122.80	666.51	929.67	709.28	220.39	4.218	
15,000.00	7,630.00	14,485.14	7,730.69	110.72	116.67	96.94	-5,221.66	663.04	932.80	709.14	223.65	4.171	
15,100.00	7,630.00	14,602.32	7,730.57	112.38	118.63	96.92	-5,338.79	660.04	935.00	706.96	228.04	4.100	
15,200.00	7,630.00	14,713.23	7,730.48	114.04	120.49	96.91	-5,449.69	659.06	935.51	703.50	232.01	4.032	
15,300.00	7,630.00	14,818.64	7,730.18	115.71	122.27	96.89	-5,555.11	658.88	935.31	699.64	235.67	3.969	
15,400.00	7,630.00	14,931.62	7,729.66	117.37	124.18	96.87	-5,668.09	659.72	934.19	694.45	239.74	3.897	
15,500.00	7,630.00	15,036.50	7,729.16	119.04	125.97	96.85	-5,772.93	661.92	931.70	688.33	243.37	3.828	
15,600.00	7,630.00	15,120.25	7,728.68	120.71	127.40	96.83	-5,856.68	662.87	930.17	684.29	245.88	3.783	
15,700.00	7,630.00	15,220.45	7,728.36	122.39	129.10	96.82	-5,956.87	662.71	929.96	680.68	249.27	3.731	
15,800.00	7,630.00	15,346.74	7,730.87	124.06	131.26	96.99	-6,083.12	665.11	928.00	673.99	254.01	3.653	
15,900.00	7,630.00	15,437.08	7,732.76	125.74	132.81	97.13	-6,173.40	667.63	925.14	668.24	256.90	3.601	
16,000.00	7,630.00	15,537.29	7,734.72	127.42	134.53	97.27	-6,273.56	670.00	922.70	662.42	260.28	3.545	
16,100.00	7,630.00	15,636.32	7,736.74	129.10	136.23	97.42	-6,372.54	672.53	920.09	656.49	263.60	3.490	
16,200.00	7,630.00	15,724.77	7,738.58	130.79	137.75	97.55	-6,460.96	674.06	918.32	651.96	266.36	3.448	
16,277.43	7,630.00	15,791.90	7,739.96	132.10	138.90	97.64	-6,528.07	674.41	917.87	649.49	268.38	3.420	
16,300.00	7,630.00	15,810.34	7,740.33	132.48	139.22	97.66	-6,546.50	674.35	917.92	649.02	268.90	3.414	
16,400.00	7,630.00	15,891.41	7,741.90	134.17	140.59	97.75	-6,627.55	673.11	919.38	648.29	271.08	3.391	
16,500.00	7,630.00	15,973.49	7,743.46	135.86	141.98	97.82	-6,709.56	669.99	923.02	649.79	273.23	3.378	
16,600.00	7,630.00	16,092.31	7,744.89	137.55	143.99	97.88	-6,828.28	665.77	926.36	648.48	277.88	3.334	
16,700.00	7,630.00	16,210.72	7,745.47	139.24	146.00	97.90	-6,946.68	663.64	927.89	645.47	282.42	3.286	
16,800.00	7,630.00	16,313.25	7,745.93	140.94	147.76	97.92	-7,049.21	663.25	927.99	642.03	285.96	3.245	
16,900.00	7,630.00	16,406.62	7,746.18	142.64	149.35	97.94	-7,142.58	662.51	928.48	639.51	288.96	3.213	
17,000.00	7,630.00	16,510.07	7,746.49	144.34	151.12	97.95	-7,246.01	661.50	929.15	636.58	292.57	3.176	
17,100.00	7,630.00	16,610.20	7,746.60	146.04	152.84	97.95	-7,346.14	660.63	929.69	633.70	295.99	3.141	
17,200.00	7,630.00	16,713.76	7,746.88	147.74	154.61	97.97	-7,449.70	660.06	929.93	630.33	299.61	3.104	
17,300.00	7,630.00	16,811.64	7,747.18	149.44	156.29	97.98	-7,547.58	659.66	930.05	627.16	302.89	3.071	
17,400.00	7,630.00	16,908.72	7,747.43	151.15	157.96	97.99	-7,644.66	658.82	930.61	624.48	306.12	3.040	
17,500.00	7,630.00	17,008.97	7,747.41	152.86	159.68	97.99	-7,744.90	657.84	931.24	621.68	309.56	3.008	
17,600.00	7,630.00	17,110.08	7,746.89	154.56	161.42	97.95	-7,846.01	656.85	931.80	618.75	313.05	2.976	
17,700.00	7,630.00	17,210.35	7,745.78	156.27	163.14	97.88	-7,946.27	655.88	932.27	615.76	316.51	2.945	
17,800.00	7,630.00	17,314.30	7,744.03	157.98	164.93	97.77	-8,050.19	655.22	932.33	612.12	320.21	2.912	
17,900.00	7,630.00	17,397.65	7,743.32	159.70	166.36	97.72	-8,133.53	653.95	933.37	610.76	322.62	2.893	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
18,000.00	7,630.00	17,504.61	7,743.34	161.41	168.19	97.71	-8,240.48	652.25	934.60	608.11	326.49	2.863	
18,100.00	7,630.00	17,599.02	7,743.60	163.12	169.82	97.71	-8,334.87	650.55	936.08	606.52	329.56	2.840	
18,154.00	7,630.00	17,653.17	7,743.69	164.05	170.74	97.71	-8,389.01	649.47	936.98	605.56	331.42	2.827	ES, SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-50.12	786.15	-940.78	1,226.07				
100.00	100.00	81.65	81.65	0.13	0.14	-50.11	786.34	-940.89	1,226.24	1,225.96	0.27	4,523.393	
200.00	200.00	174.42	174.42	0.49	0.29	-50.10	787.04	-941.29	1,227.05	1,226.26	0.78	1,565.156	
300.00	300.00	267.18	267.17	0.85	0.45	-50.08	788.23	-941.99	1,228.45	1,227.15	1.30	947.310	
400.00	400.00	361.57	361.54	1.21	0.69	-50.05	789.93	-942.99	1,230.41	1,228.51	1.90	648.728	
500.00	500.00	457.93	457.87	1.57	1.03	-50.02	791.88	-944.24	1,232.71	1,230.11	2.60	473.938	
600.00	600.00	554.29	554.19	1.93	1.38	-49.98	794.00	-945.71	1,235.30	1,231.99	3.30	373.836	
700.00	700.00	672.99	672.81	2.29	1.81	-49.85	797.84	-945.93	1,237.57	1,233.48	4.09	302.910	
800.00	800.00	804.59	803.90	2.64	2.28	-49.33	806.39	-938.54	1,237.49	1,232.57	4.92	251.533	
900.00	900.00	969.35	966.60	3.00	2.92	-48.18	821.07	-917.58	1,233.81	1,227.90	5.91	208.845	
1,000.00	1,000.00	1,148.73	1,140.87	3.36	3.72	-46.36	838.13	-879.01	1,224.12	1,217.09	7.04	173.990	
1,100.00	1,100.00	1,248.47	1,236.35	3.72	4.24	-45.12	848.29	-851.99	1,211.40	1,203.51	7.89	153.499	
1,200.00	1,200.00	1,321.93	1,306.37	4.08	4.64	-44.13	857.17	-831.65	1,200.17	1,191.52	8.65	138.712	
1,300.00	1,300.00	1,403.01	1,383.98	4.44	5.09	-43.05	867.90	-810.81	1,191.58	1,182.12	9.47	125.882	
1,400.00	1,400.00	1,526.79	1,502.23	4.79	5.81	-41.35	883.91	-777.91	1,183.00	1,172.49	10.52	112.459	
1,500.00	1,499.98	1,610.51	1,581.61	5.15	6.32	-78.16	895.07	-753.77	1,173.55	1,162.16	11.39	103.022	
1,600.00	1,599.84	1,680.62	1,648.14	5.51	6.74	-77.41	905.49	-734.27	1,165.79	1,153.60	12.19	95.640	
1,700.00	1,699.45	1,758.64	1,722.54	5.87	7.22	-76.70	918.00	-714.38	1,159.97	1,146.94	13.03	89.019	
1,800.00	1,798.70	1,861.89	1,820.78	6.23	7.85	-75.83	935.40	-687.83	1,154.26	1,140.23	14.03	82.253	
1,900.00	1,897.47	1,979.72	1,932.72	6.60	8.59	-75.02	954.35	-656.29	1,146.74	1,131.60	15.14	75.733	
2,000.00	1,995.62	2,099.18	2,046.61	6.99	9.33	-74.51	970.56	-624.11	1,136.35	1,120.09	16.26	69.900	
2,100.00	2,093.06	2,185.61	2,129.31	7.39	9.85	-74.41	981.91	-601.67	1,125.37	1,108.18	17.19	65.466	
2,200.00	2,189.64	2,289.37	2,228.62	7.82	10.48	-74.43	995.17	-574.72	1,113.22	1,094.98	18.24	61.044	
2,300.00	2,285.27	2,385.42	2,320.93	8.28	11.05	-74.73	1,007.42	-551.18	1,100.99	1,081.73	19.25	57.183	
2,400.00	2,379.82	2,486.48	2,418.18	8.77	11.64	-75.25	1,019.14	-526.33	1,086.88	1,066.57	20.32	53.500	
2,500.00	2,473.17	2,571.70	2,500.58	9.31	12.12	-75.98	1,029.04	-506.95	1,073.05	1,051.74	21.31	50.347	
2,600.00	2,565.21	2,650.26	2,576.91	9.88	12.54	-76.89	1,038.17	-490.80	1,059.87	1,037.58	22.29	47.550	
2,660.67	2,620.37	2,704.62	2,630.00	10.25	12.81	-77.63	1,044.52	-481.01	1,052.54	1,029.62	22.92	45.919	
2,700.00	2,655.96	2,756.09	2,680.44	10.50	13.06	-78.28	1,049.70	-472.17	1,047.50	1,024.10	23.40	44.761	
2,800.00	2,746.43	2,862.22	2,784.63	11.15	13.57	-79.71	1,058.60	-454.03	1,033.85	1,009.34	24.51	42.174	
2,900.00	2,836.90	2,968.78	2,889.07	11.82	14.10	-81.16	1,067.12	-434.69	1,019.80	994.15	25.65	39.758	
3,000.00	2,927.37	3,060.94	2,979.01	12.50	14.57	-82.33	1,075.62	-416.48	1,006.15	979.38	26.77	37.586	
3,100.00	3,017.85	3,158.99	3,074.23	13.21	15.10	-83.49	1,086.35	-395.72	993.24	965.29	27.95	35.536	
3,200.00	3,108.32	3,266.44	3,178.37	13.92	15.69	-84.75	1,098.00	-371.92	980.00	950.81	29.19	33.576	
3,300.00	3,198.79	3,363.15	3,271.87	14.64	16.24	-85.88	1,108.51	-349.59	966.51	936.12	30.40	31.798	
3,400.00	3,289.27	3,447.05	3,352.95	15.38	16.71	-86.85	1,118.35	-330.39	954.17	922.60	31.56	30.230	
3,500.00	3,379.74	3,531.21	3,434.40	16.12	17.18	-87.85	1,129.18	-312.17	943.81	911.09	32.73	28.838	
3,600.00	3,470.21	3,625.66	3,525.94	16.87	17.70	-89.01	1,141.72	-292.55	934.79	900.86	33.93	27.552	
3,700.00	3,560.68	3,735.33	3,632.43	17.62	18.29	-90.45	1,155.07	-270.04	925.74	890.57	35.17	26.322	
3,800.00	3,651.16	3,851.26	3,745.05	18.39	18.92	-92.08	1,167.00	-245.25	915.39	878.99	36.40	25.148	
3,900.00	3,741.63	3,942.68	3,833.82	19.15	19.42	-93.40	1,175.95	-225.35	904.97	867.43	37.55	24.104	
4,000.00	3,832.10	4,031.46	3,920.06	19.92	19.90	-94.69	1,185.07	-206.32	895.69	857.02	38.67	23.163	
4,100.00	3,922.57	4,122.19	4,008.35	20.69	20.38	-96.06	1,194.62	-187.72	887.88	848.10	39.78	22.320	
4,200.00	4,013.05	4,222.58	4,105.69	21.47	20.93	-97.48	1,206.78	-166.39	880.87	839.94	40.93	21.521	
4,300.00	4,103.52	4,335.94	4,214.97	22.25	21.59	-98.98	1,221.57	-140.17	873.25	831.12	42.13	20.726	
4,400.00	4,193.99	4,438.17	4,313.70	23.03	22.17	-100.45	1,233.16	-116.32	865.13	821.87	43.26	19.999	
4,500.00	4,284.47	4,559.58	4,430.19	23.81	22.90	-102.10	1,247.79	-85.42	856.07	811.66	44.42	19.274	
4,600.00	4,374.94	4,681.39	4,545.18	24.60	23.71	-103.48	1,264.69	-49.01	844.18	798.58	45.61	18.510	
4,700.00	4,465.41	4,769.03	4,627.23	25.39	24.33	-104.36	1,278.49	-21.51	832.05	785.23	46.82	17.773	
4,800.00	4,555.88	4,833.07	4,687.79	26.18	24.75	-105.08	1,288.52	-3.28	822.80	774.87	47.93	17.168	
4,900.00	4,646.36	4,911.78	4,763.07	26.97	25.24	-106.07	1,300.78	16.16	817.31	768.33	48.98	16.688	
5,000.00	4,736.83	5,015.12	4,862.16	27.76	25.86	-107.41	1,316.93	40.67	813.23	763.17	50.05	16.247	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
5,100.00	4,827.30	5,112.29	4,954.90	28.55	26.46	-108.60	1,332.91	64.83	808.75	757.63	51.12	15.820	
5,200.00	4,917.77	5,208.33	5,046.86	29.35	27.05	-109.86	1,347.92	88.07	805.01	752.88	52.13	15.441	
5,300.00	5,008.25	5,293.56	5,129.14	30.15	27.53	-111.16	1,359.19	107.23	802.65	749.63	53.02	15.138	
5,393.18	5,092.55	5,378.56	5,211.64	30.89	27.99	-112.56	1,369.39	125.00	802.05	748.26	53.79	14.911	
5,400.00	5,098.72	5,384.78	5,217.69	30.94	28.03	-112.67	1,370.06	126.26	802.06	748.21	53.84	14.896	
5,500.00	5,189.19	5,492.97	5,323.01	31.74	28.61	-114.59	1,381.16	148.41	802.15	747.53	54.62	14.687	
5,600.00	5,279.67	5,611.05	5,437.11	32.54	29.27	-116.62	1,393.25	176.27	799.78	744.40	55.38	14.443	
5,700.00	5,370.14	5,698.06	5,520.83	33.34	29.79	-117.96	1,404.43	197.15	798.37	742.22	56.15	14.218	
5,722.85	5,390.81	5,717.80	5,539.83	33.52	29.90	-118.26	1,407.15	201.76	798.32	741.99	56.33	14.172	CC
5,800.00	5,460.61	5,777.71	5,597.61	34.14	30.24	-119.15	1,415.51	215.20	799.09	742.20	56.89	14.047	
5,900.00	5,551.08	5,852.63	5,670.48	34.94	30.64	-120.36	1,424.95	229.77	803.25	745.74	57.51	13.967	
6,000.00	5,641.56	5,952.65	5,768.27	35.75	31.15	-122.07	1,436.25	247.42	809.75	751.61	58.13	13.929	
6,100.00	5,732.03	6,065.24	5,877.80	36.55	31.74	-123.94	1,448.94	270.24	814.22	755.43	58.78	13.851	
6,200.00	5,822.50	6,168.12	5,977.87	37.35	32.29	-125.64	1,460.34	291.18	819.42	760.05	59.37	13.802	
6,300.00	5,912.97	6,279.47	6,086.11	38.16	32.89	-127.64	1,469.98	315.48	823.79	763.92	59.87	13.760	
6,400.00	6,003.45	6,413.99	6,215.09	38.96	33.71	-129.66	1,486.94	349.51	825.24	764.77	60.47	13.647	
6,453.08	6,051.47	6,473.76	6,271.51	39.39	34.10	-130.31	1,497.95	365.85	825.10	764.23	60.87	13.554	
6,500.00	6,093.92	6,504.04	6,300.17	39.77	34.29	-130.63	1,503.73	373.77	825.50	764.26	61.24	13.480	
6,600.00	6,184.39	6,584.59	6,376.69	40.57	34.80	-131.46	1,519.19	393.60	828.30	766.32	61.98	13.365	
6,700.00	6,274.87	6,681.56	6,469.54	41.38	35.39	-132.61	1,535.54	416.29	832.85	770.19	62.66	13.292	
6,800.00	6,365.34	6,804.89	6,587.62	42.18	36.15	-134.31	1,552.63	447.44	836.24	773.02	63.22	13.227	
6,900.00	6,455.81	6,928.75	6,704.95	42.99	36.97	-136.03	1,569.97	483.14	836.33	772.60	63.73	13.124	
6,943.32	6,495.00	6,967.52	6,741.51	43.34	37.23	-136.53	1,575.92	494.57	836.19	772.20	63.99	13.067	
7,000.00	6,546.28	7,013.44	6,784.88	43.80	37.53	-137.10	1,583.26	507.79	836.50	772.15	64.35	13.000	
7,100.00	6,636.76	7,086.80	6,854.80	44.61	38.00	-138.12	1,593.23	527.55	839.60	774.71	64.89	12.938	
7,200.00	6,727.23	7,174.18	6,938.86	45.41	38.52	-139.60	1,600.80	550.17	845.21	779.95	65.26	12.951	
7,300.00	6,817.70	7,262.42	7,024.03	46.22	39.01	-141.35	1,604.10	572.95	852.62	787.14	65.48	13.020	
7,383.79	6,893.51	7,330.73	7,090.11	46.90	39.37	-142.81	1,604.69	590.28	860.52	794.90	65.62	13.114	
7,400.00	6,908.25	7,343.94	7,102.90	47.03	39.44	-145.60	1,604.65	593.56	862.21	796.57	65.64	13.135	
7,450.00	6,954.52	7,384.84	7,142.49	47.40	39.63	-155.81	1,603.60	603.75	867.17	801.44	65.73	13.193	
7,500.00	7,001.74	7,425.61	7,181.81	47.72	39.83	-169.04	1,600.54	614.05	871.66	805.84	65.83	13.242	
7,550.00	7,049.55	7,467.94	7,222.39	47.99	40.01	174.54	1,595.28	624.90	875.57	809.66	65.91	13.284	
7,600.00	7,097.58	7,510.96	7,263.27	48.21	40.19	156.53	1,587.96	636.11	878.71	812.71	66.00	13.314	
7,650.00	7,145.48	7,567.57	7,316.29	48.37	40.41	139.73	1,575.47	651.46	880.77	814.73	66.04	13.337	
7,700.00	7,192.88	7,633.57	7,376.60	48.48	40.66	126.25	1,557.38	671.20	880.78	814.77	66.02	13.342	
7,750.00	7,239.41	7,703.92	7,439.01	48.54	40.95	116.37	1,534.80	694.52	878.40	812.45	65.95	13.319	
7,800.00	7,284.72	7,747.79	7,477.07	48.56	41.12	109.55	1,519.20	709.78	874.25	808.17	66.08	13.231	
7,850.00	7,328.47	7,791.23	7,514.28	48.54	41.29	104.86	1,502.60	724.82	869.11	802.89	66.22	13.124	
7,900.00	7,370.32	7,827.27	7,544.67	48.47	41.41	101.66	1,487.66	737.14	863.22	796.79	66.43	12.995	
7,950.00	7,409.96	7,862.85	7,574.02	48.37	41.53	99.54	1,471.44	749.02	856.89	790.24	66.65	12.857	
8,000.00	7,447.08	7,883.00	7,590.33	48.24	41.61	98.05	1,461.61	755.61	850.38	783.39	66.99	12.695	
8,050.00	7,481.41	7,924.00	7,622.77	48.07	41.70	97.39	1,440.06	768.39	843.61	776.42	67.20	12.555	
8,100.00	7,512.67	7,952.65	7,644.80	47.87	41.77	97.04	1,423.71	776.68	837.22	769.70	67.52	12.399	
8,150.00	7,540.64	7,972.00	7,659.34	47.65	41.82	96.86	1,412.10	781.97	831.23	763.26	67.97	12.230	
8,200.00	7,565.09	8,007.97	7,685.62	47.40	41.86	97.32	1,389.28	791.04	825.58	757.29	68.29	12.090	
8,250.00	7,585.85	8,035.11	7,704.75	47.14	41.90	97.81	1,371.04	797.20	820.67	751.94	68.73	11.941	
8,300.00	7,602.75	8,061.00	7,722.40	46.86	41.93	98.43	1,352.86	802.49	816.54	747.32	69.22	11.797	
8,350.00	7,615.67	8,082.42	7,736.66	46.58	41.93	99.05	1,337.34	806.31	813.53	743.73	69.81	11.654	
8,400.00	7,624.51	8,102.34	7,749.77	46.28	41.93	99.70	1,322.63	809.26	811.95	741.51	70.44	11.526	
8,425.19	7,627.39	8,112.14	7,756.15	46.13	41.93	100.03	1,315.30	810.50	811.74	740.97	70.78	11.469	
8,450.00	7,629.19	8,121.61	7,762.27	45.98	41.93	100.36	1,308.16	811.57	811.95	740.84	71.11	11.419	
8,481.00	7,630.00	8,150.00	7,780.38	45.79	41.93	101.52	1,286.44	813.99	813.17	741.97	71.20	11.421	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 318-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,500.00	7,630.00	8,150.00	7,780.38	45.68	41.93	101.52	1,286.44	813.99	813.82	742.25	71.57	11.371	
8,600.00	7,630.00	8,199.22	7,810.19	45.11	41.87	103.61	1,247.36	816.47	822.80	750.30	72.50	11.349	
8,700.00	7,630.00	8,296.26	7,860.96	44.56	41.76	107.05	1,164.77	818.14	836.50	764.34	72.16	11.592	
8,800.00	7,630.00	8,446.74	7,911.02	44.05	41.53	110.31	1,023.43	817.85	847.58	776.84	70.74	11.981	
8,900.00	7,630.00	8,573.11	7,932.37	43.57	41.36	111.60	898.95	815.11	855.56	785.34	70.23	12.183	
9,000.00	7,630.00	8,692.93	7,941.77	43.12	41.25	112.13	779.57	812.62	860.08	789.90	70.18	12.256	
9,100.00	7,630.00	8,825.74	7,944.28	42.70	41.24	112.26	646.80	811.35	861.25	790.77	70.48	12.219	
9,200.00	7,630.00	8,951.36	7,940.25	42.31	41.35	112.03	521.26	811.40	859.73	788.53	71.20	12.074	
9,300.00	7,630.00	9,043.33	7,935.96	41.94	41.51	111.78	429.40	812.10	856.97	784.98	72.00	11.903	
9,371.13	7,630.00	9,094.95	7,934.39	41.69	41.62	111.69	377.80	811.91	856.18	783.68	72.50	11.809	
9,400.00	7,630.00	9,116.10	7,933.97	41.59	41.67	111.65	356.66	811.57	856.31	783.62	72.70	11.779	
9,500.00	7,630.00	9,221.38	7,932.53	41.26	41.96	111.52	251.41	809.59	857.26	783.50	73.76	11.622	
9,600.00	7,630.00	9,306.65	7,932.18	40.96	42.26	111.47	166.15	808.07	858.44	783.75	74.70	11.492	
9,700.00	7,630.00	9,433.54	7,932.90	40.68	42.84	111.50	39.27	806.83	859.35	782.95	76.41	11.247	
9,800.00	7,630.00	9,545.97	7,932.95	40.42	43.50	111.58	-73.12	809.70	856.57	778.48	78.09	10.969	
9,900.00	7,630.00	9,644.90	7,932.77	40.17	44.19	111.63	-172.02	811.76	854.26	774.61	79.64	10.726	
9,988.06	7,630.00	9,712.07	7,934.50	39.98	44.69	111.78	-239.14	813.39	852.92	772.33	80.58	10.584	
10,000.00	7,630.00	9,720.31	7,934.70	39.96	44.75	111.80	-247.38	813.42	852.94	772.25	80.69	10.571	
10,100.00	7,630.00	9,796.29	7,936.28	40.05	45.34	111.87	-323.32	812.07	854.98	773.24	81.74	10.459	
10,200.00	7,630.00	9,894.64	7,937.27	40.95	46.13	111.84	-421.59	808.04	858.84	775.38	83.46	10.291	
10,300.00	7,630.00	9,984.15	7,937.49	41.94	46.91	111.77	-511.03	804.51	862.34	777.36	84.98	10.148	
10,400.00	7,630.00	10,063.41	7,940.17	42.98	47.62	111.84	-590.12	800.24	868.26	782.06	86.20	10.073	
10,500.00	7,630.00	10,169.40	7,945.14	44.06	48.63	111.98	-695.78	793.45	875.69	787.33	88.36	9.910	
10,600.00	7,630.00	10,283.01	7,947.79	45.17	49.79	112.01	-809.20	787.68	880.93	790.02	90.90	9.691	
10,700.00	7,630.00	10,399.21	7,949.42	46.32	51.06	112.03	-925.33	783.90	884.05	790.39	93.66	9.439	
10,800.00	7,630.00	10,476.73	7,952.47	47.50	51.95	112.15	-1,002.73	781.13	888.47	793.47	94.99	9.353	
10,900.00	7,630.00	10,610.24	7,959.78	48.70	53.54	112.53	-1,136.01	778.47	892.10	793.52	98.58	9.049	
11,000.00	7,630.00	10,807.05	7,965.94	49.94	56.12	113.11	-1,332.47	786.30	890.27	785.58	104.69	8.504	
11,100.00	7,630.00	10,863.92	7,966.42	51.20	56.90	113.23	-1,389.21	789.89	884.08	778.57	105.50	8.380	
11,200.00	7,630.00	10,964.73	7,966.37	52.48	58.28	113.34	-1,489.95	793.69	880.29	772.25	108.04	8.148	
11,300.00	7,630.00	11,070.32	7,966.25	53.79	59.76	113.47	-1,595.41	798.78	875.50	764.69	110.81	7.901	
11,400.00	7,630.00	11,159.28	7,966.16	55.12	61.02	113.58	-1,684.28	802.78	871.03	758.12	112.92	7.714	
11,500.00	7,630.00	11,233.17	7,966.10	56.46	62.06	113.62	-1,758.15	804.37	868.72	754.38	114.33	7.598	
11,524.01	7,630.00	11,250.07	7,966.08	56.79	62.30	113.62	-1,775.06	804.39	868.61	753.99	114.63	7.578	
11,600.00	7,630.00	11,301.47	7,966.00	57.83	63.01	113.60	-1,826.45	803.39	869.69	754.27	115.41	7.535	
11,700.00	7,630.00	11,390.67	7,965.87	59.22	64.24	113.48	-1,915.54	799.10	873.66	756.14	117.52	7.434	
11,800.00	7,630.00	11,546.33	7,965.66	60.62	66.46	113.42	-2,071.14	796.70	874.81	751.82	122.99	7.113	
11,900.00	7,630.00	11,648.74	7,965.31	62.04	67.97	113.49	-2,173.51	799.63	871.72	745.89	125.83	6.928	
12,000.00	7,630.00	11,750.12	7,965.11	63.48	69.49	113.54	-2,274.87	801.65	869.51	740.85	128.66	6.758	
12,100.00	7,630.00	11,866.36	7,963.99	64.93	71.25	113.58	-2,391.03	805.42	865.84	733.61	132.23	6.548	
12,200.00	7,630.00	11,967.15	7,962.09	66.39	72.81	113.58	-2,491.73	809.61	860.97	725.86	135.10	6.373	
12,300.00	7,630.00	12,043.00	7,960.66	67.86	73.97	113.56	-2,567.53	811.65	857.49	720.75	136.75	6.271	
12,368.94	7,630.00	12,095.51	7,959.67	68.89	74.77	113.50	-2,620.03	811.70	856.73	718.87	137.86	6.215	
12,400.00	7,630.00	12,118.02	7,959.25	69.35	75.11	113.47	-2,642.53	811.32	856.88	718.60	138.28	6.197	
12,500.00	7,630.00	12,236.79	7,956.97	70.85	76.92	113.30	-2,761.26	809.75	857.07	714.83	142.24	6.026	
12,600.00	7,630.00	12,334.78	7,955.15	72.36	78.43	113.20	-2,859.23	809.79	855.99	710.93	145.06	5.901	
12,700.00	7,630.00	12,441.17	7,953.30	73.88	80.09	113.09	-2,965.61	809.81	855.00	706.63	148.36	5.763	
12,800.00	7,630.00	12,556.16	7,952.94	75.41	81.91	113.16	-3,080.56	812.68	852.25	700.18	152.07	5.604	
12,900.00	7,630.00	12,653.91	7,952.61	76.95	83.47	113.23	-3,178.26	815.90	848.78	693.90	154.88	5.480	
13,000.00	7,630.00	12,755.67	7,952.25	78.49	85.10	113.30	-3,279.97	819.00	845.53	687.61	157.91	5.354	
13,100.00	7,630.00	12,844.00	7,952.09	80.05	86.52	113.37	-3,368.26	821.64	842.44	682.22	160.22	5.258	
13,182.83	7,630.00	12,909.71	7,952.04	81.34	87.56	113.39	-3,433.96	822.42	841.33	679.64	161.70	5.203	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
13,200.00	7,630.00	12,922.28	7,952.03	81.61	87.76	113.39	-3,446.53	822.34	841.38	679.44	161.94	5.196	
13,300.00	7,630.00	12,998.41	7,951.92	83.18	88.96	113.34	-3,522.64	820.38	843.37	679.91	163.46	5.160	
13,400.00	7,630.00	13,094.85	7,951.72	84.76	90.47	113.21	-3,618.97	815.79	847.33	681.06	166.27	5.096	
13,500.00	7,630.00	13,200.00	7,951.50	86.34	92.13	113.09	-3,724.02	811.36	850.81	681.14	169.67	5.014	
13,600.00	7,630.00	13,298.19	7,951.38	87.94	93.68	112.99	-3,822.12	807.44	854.13	681.51	172.62	4.948	
13,700.00	7,630.00	13,402.54	7,951.06	89.53	95.34	112.88	-3,926.40	803.52	857.15	681.16	176.00	4.870	
13,800.00	7,630.00	13,501.85	7,950.82	91.13	96.92	112.77	-4,025.65	799.82	860.18	681.14	179.05	4.804	
13,900.00	7,630.00	13,605.88	7,950.69	92.74	98.59	112.69	-4,129.62	796.39	862.86	680.45	182.41	4.730	
14,000.00	7,630.00	13,712.92	7,951.05	94.35	100.32	112.65	-4,236.62	793.66	865.04	679.09	185.94	4.652	
14,100.00	7,630.00	13,855.48	7,953.25	95.97	102.68	112.85	-4,379.12	795.75	863.85	672.46	191.39	4.514	
14,200.00	7,630.00	13,957.51	7,955.14	97.60	104.38	113.08	-4,481.05	799.74	860.67	666.22	194.45	4.426	
14,300.00	7,630.00	14,054.21	7,957.88	99.22	106.01	113.38	-4,577.60	804.39	857.06	659.90	197.17	4.347	
14,400.00	7,630.00	14,143.18	7,959.49	100.85	107.50	113.56	-4,666.52	807.12	854.65	655.13	199.51	4.284	
14,500.00	7,630.00	14,233.40	7,960.98	102.49	109.00	113.70	-4,756.71	808.69	853.42	651.49	201.93	4.226	
14,556.09	7,630.00	14,283.88	7,961.82	103.41	109.84	113.76	-4,807.18	809.07	853.23	649.96	203.27	4.198	
14,600.00	7,630.00	14,323.05	7,962.47	104.13	110.49	113.81	-4,846.34	809.10	853.35	649.05	204.30	4.177	
14,700.00	7,630.00	14,410.29	7,963.93	105.77	111.94	113.88	-4,933.57	808.26	854.61	648.10	206.51	4.138	
14,800.00	7,630.00	14,518.88	7,965.71	107.42	113.74	113.95	-5,042.12	806.21	856.74	646.62	210.12	4.077	
14,900.00	7,630.00	14,628.83	7,967.31	109.07	115.57	114.05	-5,152.06	806.16	857.05	643.28	213.77	4.009	
14,940.47	7,630.00	14,668.32	7,967.90	109.74	116.23	114.10	-5,191.55	806.31	857.03	642.09	214.93	3.987	
15,000.00	7,630.00	14,726.36	7,968.73	110.72	117.20	114.16	-5,249.58	806.43	857.08	640.43	216.64	3.956	
15,100.00	7,630.00	14,823.64	7,970.11	112.38	118.83	114.24	-5,346.85	806.30	857.47	637.96	219.51	3.906	
15,200.00	7,630.00	14,925.94	7,971.66	114.04	120.55	114.35	-5,449.14	806.31	857.78	635.10	222.68	3.852	
15,300.00	7,630.00	15,031.06	7,973.18	115.71	122.31	114.46	-5,554.25	806.50	857.91	631.89	226.02	3.796	
15,400.00	7,630.00	15,134.67	7,973.94	117.37	124.06	114.54	-5,657.85	807.41	857.11	627.81	229.30	3.738	
15,468.42	7,630.00	15,196.34	7,972.92	118.51	125.10	114.47	-5,719.50	807.09	856.75	625.67	231.08	3.708	
15,500.00	7,630.00	15,223.09	7,972.46	119.04	125.54	114.44	-5,746.25	806.71	856.84	625.05	231.79	3.697	
15,600.00	7,630.00	15,319.99	7,970.61	120.71	127.16	114.27	-5,843.10	804.48	857.83	622.95	234.89	3.652	
15,700.00	7,630.00	15,414.05	7,968.45	122.39	128.74	114.08	-5,937.10	802.00	859.00	621.19	237.82	3.612	
15,800.00	7,630.00	15,503.50	7,967.82	124.06	130.23	113.98	-6,026.51	799.25	861.22	620.88	240.34	3.583	
15,900.00	7,630.00	15,591.65	7,968.04	125.74	131.70	113.90	-6,114.58	795.65	864.74	622.04	242.70	3.563	
16,000.00	7,630.00	15,686.23	7,968.59	127.42	133.27	113.81	-6,209.04	790.82	869.34	623.80	245.53	3.541	
16,100.00	7,630.00	15,780.01	7,969.04	129.10	134.82	113.71	-6,302.66	785.41	874.51	626.18	248.33	3.522	
16,200.00	7,630.00	16,200.00	7,971.89	130.79	142.12	114.24	-6,557.34	798.15	868.42	606.42	262.00	3.315	
16,300.00	7,630.00	16,143.00	7,974.51	132.48	141.13	114.90	-6,663.23	815.67	854.11	592.13	261.99	3.260	
16,400.00	7,630.00	16,213.15	7,978.30	134.17	142.37	115.45	-6,732.47	826.23	842.50	578.97	263.53	3.197	
16,500.00	7,630.00	16,282.45	7,984.31	135.86	143.59	116.08	-6,800.97	834.81	834.73	570.17	264.56	3.155	
16,600.00	7,630.00	16,350.35	7,990.91	137.55	144.78	116.68	-6,868.25	840.96	830.63	565.50	265.13	3.133	
16,648.36	7,630.00	16,381.82	7,993.60	138.37	145.33	116.90	-6,899.57	842.58	830.14	564.88	265.26	3.129	
16,700.00	7,630.00	16,418.00	7,996.26	139.24	145.95	117.09	-6,935.65	843.36	830.69	565.16	265.53	3.128	
16,800.00	7,630.00	16,514.31	7,999.78	140.94	147.59	117.29	-7,031.86	842.45	832.90	564.80	268.10	3.107	
16,900.00	7,630.00	16,622.02	8,001.41	142.64	149.42	117.35	-7,139.55	840.71	834.72	563.03	271.69	3.072	
17,000.00	7,630.00	16,722.20	8,002.84	144.34	151.13	117.41	-7,239.72	839.75	835.93	561.21	274.72	3.043	
17,100.00	7,630.00	16,823.88	8,004.27	146.04	152.86	117.47	-7,341.38	838.44	837.42	559.55	277.87	3.014	
17,200.00	7,630.00	16,927.39	8,005.66	147.74	154.63	117.55	-7,444.87	837.80	838.29	557.17	281.12	2.982	
17,300.00	7,630.00	17,025.50	8,006.98	149.44	156.30	117.62	-7,542.97	837.23	839.13	555.12	284.00	2.955	
17,400.00	7,630.00	17,132.58	8,008.46	151.15	158.14	117.71	-7,650.04	836.91	839.74	552.27	287.47	2.921	
17,500.00	7,630.00	17,219.08	8,009.68	152.86	159.62	117.77	-7,736.53	836.24	840.77	551.22	289.55	2.904 ES	
17,600.00	7,630.00	17,302.88	8,010.05	154.56	161.04	117.72	-7,820.28	833.59	843.47	551.95	291.52	2.893	
17,700.00	7,630.00	17,386.17	8,009.32	156.27	162.44	117.52	-7,903.42	828.56	848.12	554.54	293.57	2.889 SF	
17,800.00	7,630.00	17,460.65	8,008.23	157.98	163.67	117.26	-7,977.58	821.81	855.21	560.37	294.84	2.901	
17,900.00	7,630.00	17,522.71	8,007.68	159.70	164.68	116.99	-8,039.14	814.01	865.82	571.24	294.58	2.939	

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

Survey Program: 318-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
18,000.00	7,630.00	17,568.00	8,008.31	161.41	165.41	116.82	-8,083.83	806.69	881.25	589.53	291.72	3.021	
18,100.00	7,630.00	17,635.48	8,010.14	163.12	166.45	116.52	-8,149.80	792.71	901.10	609.82	291.29	3.094	
18,154.00	7,630.00	17,670.80	8,011.24	164.05	167.00	116.33	-8,183.98	783.86	913.79	622.92	290.87	3.142	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-49.83	785.79	-930.70	1,218.11				
100.00	100.00	88.20	88.20	0.13	0.15	-49.82	785.93	-930.61	1,218.09	1,217.81	0.28	4,331.246	
200.00	200.00	187.30	187.30	0.49	0.31	-49.79	786.44	-930.32	1,218.19	1,217.38	0.80	1,513.964	
300.00	300.00	286.40	286.39	0.85	0.48	-49.74	787.32	-929.80	1,218.37	1,217.04	1.33	917.426	
400.00	400.00	384.57	384.56	1.21	0.77	-49.68	788.52	-929.14	1,218.64	1,216.67	1.98	616.108	
500.00	500.00	482.32	482.29	1.57	1.12	-49.61	789.93	-928.53	1,219.10	1,216.41	2.69	453.707	
600.00	600.00	580.06	580.02	1.93	1.47	-49.54	791.55	-927.98	1,219.74	1,216.35	3.40	359.158	
700.00	700.00	755.77	755.45	2.29	2.10	-49.19	794.53	-920.00	1,217.41	1,213.03	4.38	277.762	
800.00	800.00	917.93	915.91	2.64	2.73	-48.28	800.33	-897.65	1,209.30	1,203.95	5.35	226.052	
900.00	900.00	1,010.74	1,006.74	3.00	3.13	-47.49	806.33	-879.60	1,199.06	1,192.97	6.09	196.834	
1,000.00	1,000.00	1,120.12	1,112.57	3.36	3.66	-46.27	817.18	-854.22	1,188.59	1,181.64	6.95	170.946	
1,100.00	1,100.00	1,197.09	1,186.21	3.72	4.07	-45.24	827.61	-834.45	1,179.28	1,171.57	7.71	152.955	
1,200.00	1,200.00	1,278.36	1,263.48	4.08	4.52	-44.04	840.82	-813.01	1,171.97	1,163.45	8.52	137.528	
1,300.00	1,300.00	1,383.06	1,361.98	4.44	5.15	-42.32	859.90	-783.12	1,165.35	1,155.84	9.51	122.494	
1,400.00	1,400.00	1,456.00	1,430.32	4.79	5.61	-41.08	874.22	-762.02	1,160.45	1,150.10	10.35	112.174	
1,500.00	1,499.98	1,579.54	1,545.85	5.15	6.43	-76.92	899.08	-726.03	1,156.63	1,145.11	11.52	100.394	
1,600.00	1,599.84	1,688.18	1,646.72	5.51	7.18	-75.31	918.66	-690.76	1,149.02	1,136.39	12.63	90.945	
1,700.00	1,699.45	1,768.34	1,721.24	5.87	7.74	-74.28	934.09	-665.59	1,143.02	1,129.45	13.57	84.247	
1,800.00	1,798.70	1,893.69	1,837.94	6.23	8.62	-72.82	957.53	-626.31	1,136.51	1,121.69	14.82	76.694	
1,900.00	1,897.47	1,990.41	1,928.30	6.60	9.30	-71.96	973.58	-595.77	1,127.51	1,111.64	15.88	71.016	
2,000.00	1,995.62	2,109.52	2,040.25	6.99	10.12	-71.16	991.53	-559.28	1,117.04	1,099.97	17.07	65.432	
2,100.00	2,093.06	2,210.39	2,135.51	7.39	10.80	-70.79	1,004.53	-528.77	1,104.02	1,085.88	18.15	60.835	
2,200.00	2,189.64	2,304.61	2,224.98	7.82	11.41	-70.71	1,016.77	-501.91	1,090.95	1,071.77	19.18	56.869	
2,300.00	2,285.27	2,413.93	2,329.36	8.28	12.09	-70.88	1,029.25	-471.90	1,076.02	1,055.71	20.31	52.987	
2,400.00	2,379.82	2,499.74	2,411.44	8.77	12.63	-71.29	1,038.77	-448.75	1,059.98	1,038.66	21.32	49.713	
2,500.00	2,473.17	2,581.57	2,489.72	9.31	13.13	-71.83	1,049.07	-427.26	1,044.43	1,022.08	22.35	46.740	
2,600.00	2,565.21	2,663.82	2,568.45	9.88	13.64	-72.52	1,060.50	-406.35	1,029.40	1,006.00	23.41	43.978	
2,660.67	2,620.37	2,719.52	2,621.77	10.25	13.98	-73.06	1,068.74	-392.53	1,020.47	996.37	24.10	42.337	
2,700.00	2,655.96	2,757.95	2,658.56	10.50	14.21	-73.34	1,074.46	-383.02	1,014.62	990.05	24.57	41.287	
2,800.00	2,746.43	2,878.95	2,774.19	11.15	14.97	-74.20	1,091.69	-351.82	998.80	972.87	25.93	38.518	
2,900.00	2,836.90	2,988.15	2,878.05	11.82	15.67	-74.92	1,106.43	-321.49	981.39	954.14	27.25	36.014	
3,000.00	2,927.37	3,095.72	2,980.39	12.50	16.37	-75.68	1,119.75	-291.15	962.98	934.40	28.58	33.697	
3,100.00	3,017.85	3,193.81	3,073.01	13.21	17.04	-76.27	1,132.60	-261.54	944.11	914.21	29.90	31.577	
3,200.00	3,108.32	3,267.03	3,141.79	13.92	17.54	-76.65	1,143.51	-238.92	926.44	895.31	31.13	29.762	
3,300.00	3,198.79	3,360.28	3,229.35	14.64	18.19	-77.11	1,159.90	-211.35	911.58	879.10	32.48	28.069	
3,400.00	3,289.27	3,468.44	3,330.91	15.38	18.95	-77.69	1,177.46	-178.56	895.31	861.39	33.92	26.398	
3,500.00	3,379.74	3,556.40	3,413.21	16.12	19.58	-78.11	1,192.46	-151.38	879.41	844.14	35.27	24.933	
3,600.00	3,470.21	3,641.03	3,492.46	16.87	20.17	-78.53	1,207.88	-126.01	865.04	828.44	36.60	23.633	
3,700.00	3,560.68	3,742.94	3,588.76	17.62	20.86	-79.22	1,225.67	-97.84	851.65	813.64	38.01	22.407	
3,800.00	3,651.16	3,845.43	3,685.66	18.39	21.55	-79.96	1,242.86	-69.20	837.66	798.24	39.41	21.254	
3,900.00	3,741.63	3,927.50	3,763.58	19.15	22.08	-80.63	1,256.55	-47.39	824.62	783.93	40.69	20.264	
4,000.00	3,832.10	4,019.69	3,851.57	19.92	22.66	-81.49	1,272.20	-24.75	813.29	771.29	42.01	19.361	
4,100.00	3,922.57	4,138.71	3,965.76	20.69	23.37	-82.81	1,290.20	3.53	801.49	758.08	43.41	18.465	
4,200.00	4,013.05	4,253.08	4,075.51	21.47	24.07	-84.17	1,304.74	32.25	787.31	742.56	44.75	17.595	
4,300.00	4,103.52	4,353.53	4,171.55	22.25	24.69	-85.37	1,316.75	59.11	771.78	725.74	46.04	16.764	
4,400.00	4,193.99	4,445.67	4,260.39	23.03	25.23	-86.70	1,326.69	81.44	757.61	710.34	47.27	16.027	
4,500.00	4,284.47	4,542.61	4,353.61	23.81	25.81	-88.08	1,337.48	105.71	743.56	695.05	48.50	15.330	
4,600.00	4,374.94	4,629.60	4,436.86	24.60	26.34	-89.21	1,349.19	128.06	730.93	681.21	49.72	14.700	
4,700.00	4,465.41	4,723.66	4,527.44	25.39	26.90	-90.60	1,361.42	150.25	720.03	669.11	50.92	14.140	
4,800.00	4,555.88	4,864.09	4,661.64	26.18	27.77	-92.57	1,379.41	187.35	707.55	655.40	52.15	13.568	
4,900.00	4,646.36	4,940.02	4,734.28	26.97	28.24	-93.74	1,387.71	207.82	693.57	640.24	53.33	13.005	
5,000.00	4,736.83	5,014.61	4,806.20	27.76	28.68	-95.03	1,396.08	225.76	682.76	628.35	54.40	12.550	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
5,100.00	4,827.30	5,114.81	4,902.60	28.55	29.27	-96.65	1,409.87	249.33	674.34	618.84	55.50	12.150	
5,200.00	4,917.77	5,206.35	4,990.11	29.35	29.84	-97.98	1,424.18	272.06	666.28	609.68	56.61	11.771	
5,300.00	5,008.25	5,286.54	5,067.31	30.15	30.30	-99.28	1,436.33	290.03	660.52	602.94	57.58	11.471	
5,400.00	5,098.72	5,402.62	5,179.69	30.94	30.94	-101.42	1,451.88	314.55	655.71	597.14	58.56	11.196	
5,500.00	5,189.19	5,509.48	5,282.90	31.74	31.56	-103.44	1,465.09	338.88	649.65	590.18	59.46	10.925	
5,600.00	5,279.67	5,613.45	5,382.49	32.54	32.19	-105.27	1,478.65	365.47	641.94	581.58	60.36	10.635	
5,700.00	5,370.14	5,693.75	5,459.58	33.34	32.67	-106.72	1,489.45	385.17	636.07	574.88	61.19	10.395	
5,800.00	5,460.61	5,775.39	5,538.88	34.14	33.11	-108.41	1,499.43	401.77	634.18	572.33	61.85	10.253	
5,900.00	5,551.08	5,875.54	5,636.70	34.94	33.63	-110.72	1,509.43	420.75	633.85	571.45	62.40	10.157	
6,000.00	5,641.56	5,982.09	5,740.21	35.75	34.20	-112.97	1,521.97	442.68	633.46	570.47	62.99	10.057	
6,100.00	5,732.03	6,092.54	5,846.57	36.55	34.84	-115.03	1,537.47	468.07	632.13	568.48	63.65	9.932	
6,195.35	5,818.30	6,176.61	5,927.24	37.32	35.34	-116.50	1,550.23	487.99	631.04	566.79	64.25	9.822	CC
6,200.00	5,822.50	6,180.61	5,931.10	37.35	35.36	-116.58	1,550.77	488.88	631.04	566.77	64.27	9.818	
6,300.00	5,912.97	6,272.26	6,019.61	38.16	35.89	-118.32	1,563.49	508.97	632.03	567.23	64.79	9.754	
6,400.00	6,003.45	6,358.19	6,102.81	38.96	36.36	-119.95	1,575.58	526.70	635.01	569.77	65.24	9.733	
6,500.00	6,093.92	6,456.08	6,198.09	39.77	36.87	-121.97	1,587.55	545.68	639.73	574.12	65.61	9.751	
6,600.00	6,184.39	6,569.09	6,307.84	40.57	37.49	-124.25	1,601.30	568.87	644.16	578.17	65.99	9.762	
6,700.00	6,274.87	6,693.68	6,427.97	41.38	38.21	-126.82	1,615.18	598.77	645.82	579.56	66.26	9.746	
6,800.00	6,365.34	6,808.81	6,537.64	42.18	38.95	-128.96	1,630.34	630.33	644.87	578.29	66.58	9.685	
6,851.03	6,411.50	6,848.87	6,575.65	42.60	39.20	-129.65	1,636.23	641.53	644.36	577.55	66.82	9.644	
6,900.00	6,455.81	6,886.29	6,611.34	42.99	39.44	-130.30	1,641.67	651.38	644.83	577.81	67.02	9.621	
7,000.00	6,546.28	6,980.04	6,701.20	43.80	40.02	-132.00	1,654.54	674.81	647.63	580.27	67.36	9.615	
7,100.00	6,636.76	7,058.33	6,776.64	44.61	40.47	-133.51	1,663.97	693.47	652.44	584.85	67.59	9.653	
7,200.00	6,727.23	7,134.32	6,850.53	45.41	40.87	-135.03	1,672.09	709.23	661.18	593.48	67.70	9.766	
7,300.00	6,817.70	7,232.80	6,946.91	46.22	41.36	-137.21	1,679.20	728.01	672.87	605.14	67.73	9.934	
7,383.79	6,893.51	7,320.25	7,031.79	46.90	41.74	-140.00	1,674.52	747.94	682.24	614.91	67.33	10.133	
7,400.00	6,908.25	7,335.37	7,046.20	47.03	41.80	-143.13	1,671.99	751.75	684.12	616.92	67.20	10.180	
7,450.00	6,954.52	7,384.66	7,092.29	47.40	41.98	-154.61	1,660.55	764.90	689.72	622.97	66.75	10.333	
7,500.00	7,001.74	7,433.04	7,136.00	47.72	42.15	-169.17	1,645.29	778.88	694.81	628.51	66.30	10.481	
7,550.00	7,049.55	7,464.12	7,163.58	47.99	42.23	173.76	1,634.18	787.92	699.80	633.75	66.05	10.595	
7,600.00	7,097.58	7,495.48	7,191.73	48.21	42.32	155.13	1,623.18	796.31	705.05	639.20	65.85	10.707	
7,650.00	7,145.48	7,525.00	7,218.49	48.37	42.41	137.91	1,613.04	803.53	710.31	644.60	65.71	10.810	
7,700.00	7,192.88	7,560.11	7,250.41	48.48	42.48	123.96	1,600.69	811.37	715.38	649.78	65.60	10.905	
7,750.00	7,239.41	7,592.53	7,279.73	48.54	42.54	113.57	1,588.56	817.99	720.18	654.64	65.54	10.989	
7,800.00	7,284.72	7,630.85	7,314.18	48.56	42.62	106.00	1,573.37	825.14	724.55	659.02	65.53	11.057	
7,850.00	7,328.47	7,680.62	7,358.45	48.54	42.70	100.60	1,552.65	834.48	727.59	662.00	65.60	11.092	
7,900.00	7,370.32	7,722.29	7,395.06	48.47	42.76	96.81	1,534.41	842.44	729.19	663.47	65.71	11.097	
7,950.00	7,409.96	7,757.28	7,425.28	48.37	42.81	94.11	1,517.94	848.78	730.10	664.23	65.87	11.084	
8,000.00	7,447.08	7,792.26	7,454.93	48.24	42.85	92.26	1,500.36	854.70	730.48	664.39	66.09	11.053	
8,050.00	7,481.41	7,842.67	7,496.28	48.07	42.89	91.33	1,472.86	863.31	729.85	663.52	66.33	11.004	
8,100.00	7,512.67	7,893.90	7,536.26	47.87	42.94	90.99	1,442.28	872.82	727.75	661.19	66.55	10.935	
8,150.00	7,540.64	7,946.05	7,575.42	47.65	42.98	91.26	1,409.44	883.11	724.19	657.39	66.81	10.840	
8,200.00	7,565.09	7,985.60	7,604.14	47.40	43.01	91.75	1,383.47	891.18	719.53	652.36	67.17	10.712	
8,250.00	7,585.85	8,015.02	7,624.10	47.14	43.01	92.25	1,362.59	896.73	715.02	647.37	67.65	10.570	
8,300.00	7,602.75	8,045.10	7,642.94	46.86	43.02	92.93	1,339.71	901.83	710.88	642.73	68.15	10.431	
8,350.00	7,615.67	8,077.69	7,661.51	46.58	43.01	93.82	1,313.39	906.70	707.16	638.52	68.64	10.303	
8,400.00	7,624.51	8,112.46	7,679.41	46.28	42.99	94.93	1,283.94	911.28	703.75	634.65	69.09	10.185	
8,450.00	7,629.19	8,148.04	7,695.62	45.98	42.97	96.19	1,252.53	915.32	700.71	631.19	69.52	10.080	
8,481.00	7,630.00	8,175.17	7,706.82	45.79	42.93	97.23	1,227.98	918.08	698.95	629.28	69.67	10.033	
8,500.00	7,630.00	8,191.91	7,713.41	45.68	42.91	97.78	1,212.69	919.73	697.93	628.18	69.75	10.006	
8,600.00	7,630.00	8,279.50	7,744.17	45.11	42.81	100.39	1,131.07	927.60	694.04	623.94	70.10	9.900	
8,687.22	7,630.00	8,352.89	7,766.33	44.63	42.73	102.28	1,061.30	932.76	692.88	622.48	70.40	9.842	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
8,700.00	7,630.00	8,363.24	7,769.13	44.56	42.72	102.51	1,051.36	933.32	692.91	622.46	70.45	9.836	
8,800.00	7,630.00	8,444.75	7,787.66	44.05	42.62	104.06	972.05	935.89	694.81	624.04	70.77	9.818	
8,900.00	7,630.00	8,544.53	7,799.15	43.57	42.49	104.94	873.03	933.98	699.23	628.45	70.78	9.879	
9,000.00	7,630.00	8,677.97	7,802.51	43.12	42.40	105.20	739.65	933.32	699.93	629.32	70.61	9.912	
9,100.00	7,630.00	8,788.84	7,804.25	42.70	42.43	105.41	628.84	936.29	697.39	626.37	71.02	9.819	
9,194.94	7,630.00	8,864.12	7,804.99	42.33	42.49	105.50	553.57	937.33	696.06	624.45	71.61	9.720	
9,200.00	7,630.00	8,868.18	7,804.99	42.31	42.49	105.50	549.51	937.32	696.06	624.42	71.64	9.716	
9,300.00	7,630.00	8,950.00	7,804.26	41.94	42.57	105.41	467.72	935.49	697.63	625.35	72.28	9.652	
9,400.00	7,630.00	9,046.38	7,803.71	41.59	42.70	105.29	371.42	931.72	700.91	627.87	73.04	9.596	
9,500.00	7,630.00	9,165.59	7,803.41	41.26	42.98	105.22	252.24	929.49	702.23	628.07	74.16	9.469	
9,600.00	7,630.00	9,266.89	7,802.52	40.96	43.33	105.14	150.94	928.33	702.78	627.48	75.31	9.332	
9,700.00	7,630.00	9,371.88	7,803.20	40.68	43.79	105.20	45.96	928.17	702.78	626.10	76.68	9.166	
9,800.00	7,630.00	9,477.01	7,803.31	40.42	44.36	105.22	-59.17	928.64	702.04	623.84	78.21	8.977	
9,900.00	7,630.00	9,574.48	7,802.70	40.17	44.97	105.19	-156.63	929.10	701.09	621.40	79.70	8.797	
10,000.00	7,630.00	9,675.09	7,801.19	39.96	45.69	105.08	-257.23	929.31	700.17	618.80	81.37	8.605	
10,039.07	7,630.00	9,708.50	7,800.18	39.84	45.94	105.00	-290.63	929.07	700.01	618.12	81.89	8.548	
10,100.00	7,630.00	9,763.08	7,797.55	40.05	46.37	104.77	-345.13	927.84	700.37	617.62	82.75	8.464	
10,200.00	7,630.00	9,878.01	7,794.03	40.95	47.35	104.47	-459.98	926.53	700.40	615.34	85.06	8.234	
10,300.00	7,630.00	9,988.83	7,796.80	41.94	48.42	104.76	-570.71	929.54	698.04	610.58	87.46	7.982	
10,400.00	7,630.00	10,086.23	7,800.20	42.98	49.43	105.11	-668.00	932.80	695.38	605.90	89.48	7.771	
10,500.00	7,630.00	10,188.68	7,803.57	44.06	50.54	105.45	-770.35	935.96	692.95	601.18	91.77	7.551	
10,600.00	7,630.00	10,290.80	7,806.69	45.17	51.71	105.79	-872.36	939.54	690.06	595.94	94.12	7.332	
10,700.00	7,630.00	10,392.56	7,808.56	46.32	52.92	106.02	-974.04	942.86	687.11	590.58	96.53	7.118	
10,800.00	7,630.00	10,496.46	7,810.57	47.50	54.20	106.31	-1,077.81	947.70	682.82	583.72	99.10	6.890	
10,900.00	7,630.00	10,579.58	7,811.01	48.70	55.24	106.39	-1,160.90	949.59	680.42	579.68	100.74	6.754	
11,000.00	7,630.00	10,673.24	7,810.40	49.94	56.42	106.36	-1,254.55	949.96	679.53	576.64	102.89	6.605	
11,100.00	7,630.00	10,770.49	7,809.25	51.20	57.66	106.26	-1,351.80	949.41	679.42	574.16	105.25	6.455	
11,200.00	7,630.00	10,873.46	7,807.46	52.48	59.00	106.11	-1,454.74	948.77	679.20	571.22	107.97	6.290	
11,300.00	7,630.00	10,978.80	7,803.61	53.79	60.40	105.79	-1,560.01	948.22	678.37	567.49	110.88	6.118	
11,400.00	7,630.00	11,082.34	7,797.09	55.12	61.81	105.26	-1,663.34	947.69	676.85	563.10	113.75	5.950	
11,500.00	7,630.00	11,181.92	7,789.96	56.46	63.18	104.67	-1,762.66	947.30	675.05	558.61	116.45	5.797	
11,600.00	7,630.00	11,279.44	7,782.52	57.83	64.54	104.05	-1,859.89	946.41	673.72	554.65	119.06	5.658	
11,700.00	7,630.00	11,380.39	7,774.47	59.22	65.97	103.37	-1,960.52	945.45	672.41	550.50	121.91	5.516	
11,800.00	7,630.00	11,484.47	7,765.29	60.62	67.46	102.60	-2,064.19	944.60	670.90	545.92	124.98	5.368	
11,900.00	7,630.00	11,591.55	7,754.13	62.04	69.02	101.67	-2,170.68	944.41	668.54	540.29	128.25	5.213	
12,000.00	7,630.00	11,673.78	7,747.65	63.48	70.22	101.12	-2,252.64	944.09	667.03	536.98	130.05	5.129	
12,100.00	7,630.00	11,785.38	7,743.81	64.93	71.87	100.80	-2,364.18	943.95	666.19	532.48	133.71	4.982	
12,179.11	7,630.00	11,851.85	7,743.03	66.08	72.87	100.74	-2,430.64	943.97	665.68	530.42	135.26	4.922	
12,200.00	7,630.00	11,871.01	7,743.06	66.39	73.15	100.74	-2,449.80	943.88	665.71	529.95	135.76	4.903	
12,300.00	7,630.00	11,966.92	7,744.60	67.86	74.59	100.86	-2,545.69	943.16	666.41	527.93	138.48	4.812	
12,400.00	7,630.00	12,076.09	7,746.69	69.35	76.24	101.04	-2,654.84	942.82	666.77	524.67	142.10	4.692	
12,500.00	7,630.00	12,175.75	7,749.33	70.85	77.77	101.29	-2,754.46	944.00	665.78	520.68	145.11	4.588	
12,523.31	7,630.00	12,196.15	7,750.12	71.20	78.08	101.36	-2,774.84	944.14	665.73	520.11	145.62	4.572	
12,600.00	7,630.00	12,274.74	7,753.60	72.36	79.30	101.66	-2,853.36	944.50	665.81	517.74	148.07	4.497	
12,700.00	7,630.00	12,379.67	7,758.25	73.88	80.93	102.09	-2,958.17	945.88	665.11	513.66	151.45	4.392	
12,800.00	7,630.00	12,485.89	7,762.64	75.41	82.60	102.50	-3,064.27	948.03	663.68	508.77	154.91	4.284	
12,900.00	7,630.00	12,576.70	7,766.91	76.95	84.04	102.90	-3,154.97	949.73	662.55	505.21	157.34	4.211	
13,000.00	7,630.00	12,679.99	7,772.13	78.49	85.68	103.39	-3,258.10	951.69	661.51	500.90	160.60	4.119	
13,045.64	7,630.00	12,719.20	7,774.19	79.20	86.30	103.57	-3,297.26	952.25	661.28	499.74	161.54	4.094	
13,100.00	7,630.00	12,769.46	7,777.07	80.05	87.10	103.82	-3,347.44	952.53	661.54	498.65	162.89	4.061	
13,200.00	7,630.00	12,875.98	7,783.02	81.61	88.80	104.35	-3,453.79	953.44	661.75	495.38	166.37	3.977	
13,291.21	7,630.00	12,965.13	7,788.09	83.05	90.23	104.82	-3,542.78	954.99	661.23	492.26	168.97	3.913	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
13,300.00	7,630.00	12,972.63	7,788.54	83.18	90.35	104.86	-3,550.27	955.08	661.24	492.09	169.14	3.909	
13,400.00	7,630.00	13,069.65	7,794.61	84.76	91.90	105.38	-3,647.09	955.48	662.13	490.22	171.91	3.852	
13,500.00	7,630.00	13,177.97	7,800.76	86.34	93.65	105.93	-3,755.23	956.80	662.16	486.66	175.50	3.773	
13,558.87	7,630.00	13,233.28	7,803.66	87.28	94.55	106.20	-3,810.46	957.71	661.90	484.89	177.00	3.739	
13,600.00	7,630.00	13,269.72	7,805.36	87.94	95.14	106.35	-3,846.85	957.95	662.04	484.15	177.89	3.722	
13,700.00	7,630.00	13,361.78	7,808.39	89.53	96.62	106.59	-3,938.86	957.22	663.41	483.07	180.33	3.679	
13,800.00	7,630.00	13,465.55	7,809.23	91.13	98.29	106.62	-4,042.61	955.24	665.15	481.39	183.76	3.620	
13,900.00	7,630.00	13,569.60	7,807.81	92.74	99.96	106.47	-4,146.63	953.58	665.96	478.67	187.28	3.556	
14,000.00	7,630.00	13,667.34	7,807.61	94.35	101.54	106.42	-4,244.35	951.64	667.46	477.17	190.29	3.508	
14,100.00	7,630.00	13,812.55	7,809.25	95.97	103.94	106.64	-4,389.48	954.94	665.34	468.80	196.54	3.385	
14,200.00	7,630.00	13,907.46	7,810.82	97.60	105.53	106.92	-4,484.21	960.54	659.84	460.53	199.32	3.310	
14,300.00	7,630.00	13,999.78	7,812.32	99.22	107.08	107.17	-4,576.41	964.90	655.48	453.57	201.92	3.246	
14,392.02	7,630.00	14,067.02	7,812.77	100.72	108.20	107.24	-4,643.64	966.10	653.78	450.76	203.02	3.220	
14,400.00	7,630.00	14,072.91	7,812.78	100.85	108.29	107.24	-4,649.52	966.08	653.80	450.68	203.11	3.219	
14,500.00	7,630.00	14,161.68	7,811.97	102.49	109.74	107.13	-4,738.27	964.22	655.18	449.73	205.45	3.189	
14,600.00	7,630.00	14,260.70	7,810.78	104.13	111.36	106.97	-4,837.23	961.24	657.38	448.74	208.64	3.151	
14,700.00	7,630.00	14,364.24	7,811.92	105.77	113.06	107.02	-4,940.74	959.10	659.35	447.23	212.12	3.108	
14,800.00	7,630.00	14,470.43	7,812.23	107.42	114.81	107.02	-5,046.92	957.79	660.28	444.44	215.84	3.059	
14,900.00	7,630.00	14,568.80	7,813.45	109.07	116.44	107.10	-5,145.28	956.80	661.28	442.39	218.89	3.021	
15,000.00	7,630.00	14,676.56	7,815.06	110.72	118.24	107.23	-5,253.02	956.40	661.77	439.11	222.66	2.972	
15,100.00	7,630.00	14,781.57	7,816.05	112.38	119.99	107.34	-5,358.03	957.14	661.04	434.82	226.22	2.922	
15,200.00	7,630.00	14,876.75	7,817.67	114.04	121.59	107.51	-5,453.19	958.04	660.34	431.35	228.99	2.884	
15,300.00	7,630.00	14,981.84	7,819.44	115.71	123.36	107.69	-5,558.26	958.81	659.82	427.31	232.52	2.838	
15,354.34	7,630.00	15,029.54	7,820.47	116.61	124.16	107.79	-5,605.94	959.20	659.58	425.88	233.70	2.822	
15,400.00	7,630.00	15,070.78	7,822.01	117.37	124.85	107.92	-5,647.16	959.39	659.75	425.02	234.73	2.811	
15,500.00	7,630.00	15,178.21	7,825.92	119.04	126.67	108.28	-5,754.51	960.20	659.84	421.51	238.33	2.769	
15,600.00	7,630.00	15,281.46	7,828.39	120.71	128.41	108.52	-5,857.73	961.51	659.07	417.42	241.65	2.727	
15,700.00	7,630.00	15,380.21	7,829.93	122.39	130.08	108.69	-5,956.46	962.60	658.21	413.53	244.68	2.690	
15,777.59	7,630.00	15,452.98	7,831.05	123.69	131.31	108.81	-6,029.21	963.14	657.80	411.07	246.73	2.666	
15,800.00	7,630.00	15,472.29	7,831.43	124.06	131.64	108.84	-6,048.51	963.15	657.86	410.68	247.18	2.661	
15,900.00	7,630.00	15,566.14	7,833.91	125.74	133.22	109.03	-6,142.33	962.42	659.11	409.36	249.76	2.639	
16,000.00	7,630.00	15,673.20	7,837.22	127.42	135.03	109.30	-6,249.34	962.08	660.12	406.74	253.37	2.605	
16,100.00	7,630.00	15,779.97	7,840.71	129.10	136.84	109.63	-6,356.04	963.19	659.90	403.02	256.88	2.569	
16,200.00	7,630.00	15,879.44	7,843.57	130.79	138.54	109.92	-6,455.47	964.56	659.26	399.42	259.84	2.537	
16,300.00	7,630.00	15,981.43	7,846.63	132.48	140.28	110.23	-6,557.40	966.31	658.36	395.40	262.96	2.504	
16,358.99	7,630.00	16,034.68	7,848.00	133.47	141.19	110.36	-6,610.62	966.88	658.10	393.82	264.29	2.490	
16,400.00	7,630.00	16,073.40	7,848.87	134.17	141.85	110.44	-6,649.33	966.98	658.20	392.85	265.35	2.480	
16,500.00	7,630.00	16,176.33	7,851.56	135.86	143.60	110.68	-6,752.23	967.24	658.57	389.97	268.60	2.452	
16,600.00	7,630.00	16,291.16	7,854.25	137.55	145.57	110.97	-6,867.01	969.32	657.40	384.70	272.70	2.411	
16,700.00	7,630.00	16,386.62	7,855.14	139.24	147.21	111.14	-6,962.42	971.81	655.01	379.57	275.44	2.378	
16,800.00	7,630.00	16,479.96	7,855.49	140.94	148.80	111.20	-7,055.76	972.66	653.97	375.89	278.09	2.352	
16,900.00	7,630.00	16,578.31	7,855.80	142.64	150.48	111.24	-7,154.11	972.92	653.52	372.38	281.14	2.325	
17,000.00	7,630.00	16,675.77	7,856.16	144.34	152.14	111.29	-7,251.57	972.94	653.33	369.20	284.13	2.299	
17,047.64	7,630.00	16,723.74	7,856.52	145.15	152.96	111.32	-7,299.54	972.92	653.32	367.66	285.66	2.287	
17,100.00	7,630.00	16,776.58	7,857.17	146.04	153.87	111.38	-7,352.38	973.03	653.28	365.96	287.33	2.274	
17,200.00	7,630.00	16,879.33	7,859.03	147.74	155.63	111.57	-7,455.11	973.69	653.04	362.45	290.59	2.247	
17,300.00	7,630.00	16,986.15	7,860.99	149.44	157.47	111.79	-7,561.89	975.34	651.97	357.86	294.11	2.217	
17,400.00	7,630.00	17,091.14	7,862.75	151.15	159.28	112.03	-7,666.84	977.93	649.99	352.54	297.44	2.185	
17,500.00	7,630.00	17,195.22	7,864.27	152.86	161.08	112.28	-7,770.85	981.18	647.34	346.65	300.69	2.153	
17,600.00	7,630.00	17,293.69	7,865.02	154.56	162.79	112.45	-7,869.27	984.25	644.42	340.83	303.59	2.123	
17,700.00	7,630.00	17,389.12	7,865.23	156.27	164.44	112.56	-7,964.68	986.48	642.04	335.68	306.36	2.096	
17,800.00	7,630.00	17,483.00	7,865.68	157.98	166.06	112.65	-8,058.54	987.90	640.51	331.53	308.99	2.073	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
17,900.00	7,630.00	17,582.08	7,866.85	159.70	167.77	112.81	-8,157.61	989.19	639.46	327.52	311.94	2.050	
18,000.00	7,630.00	17,676.77	7,867.92	161.41	169.40	112.93	-8,252.29	989.80	638.98	324.42	314.56	2.031	
18,017.09	7,630.00	17,693.29	7,868.09	161.70	169.68	112.94	-8,268.81	989.83	638.98	323.94	315.04	2.028	
18,100.00	7,630.00	17,782.73	7,868.84	163.12	171.22	113.01	-8,348.79	989.69	639.16	321.63	317.52	2.013	
18,154.00	7,630.00	17,827.28	7,869.32	164.05	171.98	113.05	-8,402.79	989.44	639.40	320.34	319.06	2.004	ES, SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-11.20	217.84	-43.12	222.30				
100.00	100.00	92.74	92.74	0.13	0.16	-11.26	217.23	-43.25	221.52	221.22	0.29	759.507	
200.00	200.00	197.07	197.04	0.49	0.39	-11.51	214.99	-43.79	219.51	218.63	0.88	248.741	
300.00	300.00	302.61	302.39	0.85	0.78	-12.43	209.35	-46.13	214.73	213.10	1.63	131.738	
400.00	400.00	401.18	400.58	1.21	1.16	-14.20	202.26	-51.16	208.89	206.54	2.35	88.881	
500.00	500.00	498.01	496.95	1.57	1.54	-16.56	196.20	-58.32	204.80	201.72	3.08	66.545	
600.00	600.00	597.07	595.29	1.93	1.93	-19.82	189.85	-68.43	201.88	198.04	3.83	52.658	
700.00	700.00	694.73	691.73	2.29	2.35	-24.16	182.46	-81.86	199.99	195.38	4.61	43.351	
737.69	737.69	731.26	727.69	2.42	2.51	-26.01	179.58	-87.65	199.83	194.92	4.91	40.663	CC
800.00	800.00	791.55	786.80	2.64	2.79	-29.41	174.48	-98.34	200.31	194.88	5.42	36.941	ES
900.00	900.00	885.92	878.75	3.00	3.25	-35.37	165.90	-117.75	203.76	197.51	6.25	32.619	
1,000.00	1,000.00	986.38	976.33	3.36	3.76	-41.77	156.27	-139.55	209.96	202.85	7.11	29.535	
1,100.00	1,100.00	1,085.51	1,072.88	3.72	4.27	-47.51	146.20	-159.62	217.13	209.18	7.95	27.322	
1,200.00	1,200.00	1,184.29	1,168.99	4.08	4.79	-53.03	135.22	-179.65	225.84	217.07	8.77	25.765	
1,300.00	1,300.00	1,284.51	1,266.77	4.44	5.30	-57.98	124.18	-198.61	235.39	225.82	9.57	24.597	
1,400.00	1,400.00	1,382.56	1,362.72	4.79	5.80	-62.20	113.87	-216.01	245.71	235.37	10.34	23.766	
1,500.00	1,499.98	1,476.72	1,454.68	5.15	6.28	-103.96	103.72	-233.49	258.34	247.28	11.06	23.360	SF
1,600.00	1,599.84	1,569.82	1,545.34	5.51	6.77	-108.15	93.80	-252.21	274.88	263.14	11.75	23.403	
1,700.00	1,699.45	1,664.53	1,637.38	5.87	7.28	-112.55	83.35	-271.93	294.98	282.56	12.42	23.746	
1,800.00	1,798.70	1,759.35	1,729.54	6.23	7.79	-116.91	72.65	-291.50	318.27	305.18	13.08	24.328	
1,900.00	1,897.47	1,855.17	1,822.91	6.60	8.30	-120.93	62.98	-310.72	344.71	330.97	13.74	25.087	
2,000.00	1,995.62	1,950.12	1,915.73	6.99	8.78	-124.55	54.40	-328.76	373.76	359.37	14.39	25.981	
2,100.00	2,093.06	2,040.13	2,003.95	7.39	9.23	-127.42	48.60	-345.68	406.06	391.06	15.00	27.067	
2,200.00	2,189.64	2,124.74	2,086.74	7.82	9.65	-129.86	43.68	-362.42	442.55	426.96	15.59	28.392	
2,300.00	2,285.27	2,207.44	2,167.44	8.28	10.07	-131.97	39.53	-380.03	483.57	467.40	16.18	29.893	
2,400.00	2,379.82	2,291.24	2,249.05	8.77	10.51	-133.97	35.13	-398.49	528.47	511.67	16.79	31.466	
2,500.00	2,473.17	2,375.40	2,330.97	9.31	10.95	-135.80	30.82	-417.31	576.76	559.33	17.44	33.075	
2,600.00	2,565.21	2,463.44	2,416.75	9.88	11.41	-137.56	26.73	-436.72	627.77	609.64	18.13	34.624	
2,660.67	2,620.37	2,508.26	2,460.42	10.25	11.64	-138.33	24.43	-446.52	660.17	641.68	18.50	35.693	
2,700.00	2,655.96	2,537.05	2,488.44	10.50	11.79	-139.16	22.66	-452.87	681.77	663.04	18.73	36.399	
2,800.00	2,746.43	2,619.65	2,568.82	11.15	12.23	-141.35	16.90	-471.05	737.37	717.96	19.41	37.996	
2,900.00	2,836.90	2,703.25	2,650.28	11.82	12.67	-143.30	10.94	-488.86	793.12	773.03	20.10	39.463	
3,000.00	2,927.37	2,790.09	2,734.99	12.50	13.13	-145.09	4.56	-506.87	849.08	828.26	20.82	40.782	
3,100.00	3,017.85	2,879.07	2,821.98	13.21	13.58	-146.68	-1.55	-524.55	904.65	883.08	21.56	41.956	
3,200.00	3,108.32	2,957.85	2,899.08	13.92	13.98	-147.94	-6.81	-539.82	960.18	937.95	22.23	43.193	
3,300.00	3,198.79	3,021.00	2,960.76	14.64	14.31	-148.82	-11.02	-552.74	1,016.86	994.08	22.78	44.636	
3,400.00	3,289.27	3,084.87	3,022.89	15.38	14.66	-149.64	-15.56	-566.81	1,075.10	1,051.76	23.34	46.062	
3,500.00	3,379.74	3,154.78	3,090.62	16.12	15.04	-150.45	-21.09	-583.25	1,134.85	1,110.90	23.95	47.382	
3,600.00	3,470.21	3,244.18	3,177.27	16.87	15.54	-151.42	-28.51	-603.95	1,194.73	1,170.00	24.73	48.315	
3,700.00	3,560.68	3,347.77	3,278.11	17.62	16.09	-152.47	-37.14	-626.01	1,253.41	1,227.80	25.61	48.934	
3,800.00	3,651.16	3,429.46	3,357.88	18.39	16.52	-153.23	-43.65	-642.33	1,311.18	1,284.85	26.32	49.812	
3,900.00	3,741.63	3,490.00	3,416.87	19.15	16.84	-153.73	-48.54	-655.06	1,369.87	1,343.01	26.86	50.993	
4,000.00	3,832.10	3,551.06	3,476.15	19.92	17.18	-154.19	-53.37	-668.88	1,429.76	1,402.35	27.41	52.157	
4,100.00	3,922.57	3,632.91	3,555.34	20.69	17.64	-154.70	-59.36	-688.68	1,490.57	1,462.43	28.14	52.968	
4,200.00	4,013.05	3,750.22	3,669.35	21.47	18.28	-155.38	-67.31	-715.12	1,550.07	1,520.91	29.16	53.159	
4,300.00	4,103.52	3,823.66	3,741.01	22.25	18.67	-155.82	-72.87	-730.21	1,608.57	1,578.76	29.81	53.955	
4,400.00	4,193.99	3,895.88	3,811.31	23.03	19.05	-156.22	-78.35	-745.81	1,667.87	1,637.41	30.46	54.759	
4,500.00	4,284.47	3,982.63	3,895.83	23.81	19.51	-156.69	-85.46	-764.01	1,727.07	1,695.85	31.22	55.317	
4,600.00	4,374.94	4,063.78	3,974.93	24.60	19.94	-157.10	-92.11	-780.87	1,786.19	1,754.25	31.94	55.926	
4,700.00	4,465.41	4,123.87	4,033.43	25.39	20.27	-157.40	-97.40	-793.52	1,845.82	1,813.33	32.49	56.820	
4,800.00	4,555.88	4,187.85	4,095.61	26.18	20.62	-157.72	-103.61	-807.28	1,906.22	1,873.16	33.06	57.654	
4,900.00	4,646.36	4,346.86	4,250.41	26.97	21.47	-158.42	-118.12	-840.51	1,966.68	1,932.27	34.40	57.163	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,736.83	4,435.56	4,337.33	27.76	21.91	-158.79	-124.81	-856.84	2,024.10	1,988.92	35.18	57.542	
5,100.00	4,827.30	4,579.02	4,478.32	28.55	22.60	-159.34	-134.60	-881.43	2,080.48	2,044.14	36.34	57.245	
5,200.00	4,917.77	4,865.29	4,762.60	29.35	23.72	-160.44	-146.67	-911.68	2,130.02	2,091.71	38.30	55.609	
5,300.00	5,008.25	5,098.57	4,995.69	30.15	24.42	-161.33	-148.88	-919.48	2,173.43	2,133.73	39.70	54.742	
5,400.00	5,098.72	5,190.82	5,087.94	30.94	24.65	-161.69	-149.05	-919.41	2,214.25	2,173.83	40.42	54.777	
5,500.00	5,189.19	5,276.07	5,173.18	31.74	24.85	-162.02	-149.58	-919.21	2,255.24	2,214.13	41.11	54.860	
5,600.00	5,279.67	5,371.33	5,268.44	32.54	25.09	-162.39	-150.56	-918.69	2,296.30	2,254.46	41.83	54.891	
5,700.00	5,370.14	5,463.94	5,361.04	33.34	25.31	-162.75	-151.75	-917.82	2,337.29	2,294.74	42.54	54.937	
5,800.00	5,460.61	5,540.28	5,437.37	34.14	25.51	-163.04	-152.75	-917.35	2,378.59	2,335.40	43.19	55.069	
5,900.00	5,551.08	5,631.09	5,528.18	34.94	25.75	-163.35	-153.56	-917.41	2,420.22	2,376.31	43.91	55.115	
6,000.00	5,641.56	5,732.95	5,630.03	35.75	26.02	-163.66	-153.57	-917.81	2,461.66	2,416.98	44.69	55.089	
6,100.00	5,732.03	5,826.55	5,723.63	36.55	26.28	-163.92	-153.05	-918.19	2,502.85	2,457.43	45.42	55.107	
6,200.00	5,822.50	5,914.00	5,811.08	37.35	26.51	-164.16	-152.51	-918.60	2,544.08	2,497.96	46.13	55.156	
6,300.00	5,912.97	5,995.66	5,892.73	38.16	26.74	-164.38	-152.05	-919.18	2,585.56	2,538.75	46.81	55.236	
6,400.00	6,003.45	6,079.03	5,976.10	38.96	26.98	-164.59	-151.66	-920.06	2,627.37	2,579.87	47.50	55.309	
6,500.00	6,093.92	6,165.46	6,062.52	39.77	27.23	-164.79	-151.20	-921.25	2,669.40	2,621.19	48.22	55.364	
6,600.00	6,184.39	6,245.62	6,142.68	40.57	27.46	-164.98	-151.04	-922.31	2,711.63	2,662.73	48.90	55.457	
6,700.00	6,274.87	6,325.90	6,222.94	41.38	27.70	-165.16	-150.98	-923.85	2,754.35	2,704.77	49.58	55.555	
6,800.00	6,365.34	6,421.46	6,318.48	42.18	27.99	-165.37	-150.77	-925.72	2,797.05	2,746.71	50.34	55.561	
6,900.00	6,455.81	6,512.00	6,409.00	42.99	28.27	-165.56	-150.44	-927.53	2,839.74	2,788.66	51.08	55.595	
7,000.00	6,546.28	6,607.83	6,504.82	43.80	28.56	-165.75	-150.20	-929.23	2,882.35	2,830.50	51.84	55.598	
7,100.00	6,636.76	6,713.15	6,610.13	44.61	28.87	-165.98	-150.58	-930.12	2,924.69	2,872.04	52.65	55.553	
7,200.00	6,727.23	6,819.79	6,716.77	45.41	29.16	-166.25	-151.71	-929.50	2,966.46	2,913.02	53.44	55.510	
7,300.00	6,817.70	6,905.79	6,802.77	46.22	29.39	-166.44	-152.21	-929.07	3,008.07	2,953.94	54.13	55.569	
7,383.79	6,893.51	6,970.70	6,867.67	46.90	29.57	-166.58	-152.64	-929.02	3,043.22	2,988.54	54.68	55.656	
7,400.00	6,908.25	6,983.71	6,880.68	47.03	29.61	-169.55	-152.73	-929.03	3,049.93	2,995.14	54.79	55.668	
7,450.00	6,954.52	7,024.54	6,921.51	47.40	29.73	179.81	-153.01	-929.15	3,069.07	3,013.96	55.11	55.685	
7,500.00	7,001.74	7,065.59	6,962.56	47.72	29.85	166.32	-153.30	-929.36	3,085.76	3,030.34	55.43	55.673	
7,550.00	7,049.55	7,106.29	7,003.26	47.99	29.97	149.81	-153.65	-929.63	3,099.91	3,044.19	55.72	55.632	
7,600.00	7,097.58	7,147.39	7,044.35	48.21	30.10	131.82	-154.07	-929.97	3,111.42	3,055.42	56.00	55.559	
7,650.00	7,145.48	7,189.84	7,086.80	48.37	30.23	115.23	-154.52	-930.40	3,120.23	3,063.95	56.27	55.448	
7,700.00	7,192.88	7,231.83	7,128.78	48.48	30.36	102.04	-154.97	-930.93	3,126.28	3,069.75	56.53	55.307	
7,750.00	7,239.41	7,283.01	7,179.95	48.54	30.52	92.47	-155.54	-931.56	3,129.51	3,072.70	56.81	55.084	
7,800.00	7,284.72	7,333.89	7,230.83	48.56	30.67	85.78	-156.22	-931.99	3,129.86	3,072.77	57.09	54.827	
7,850.00	7,328.47	7,368.16	7,265.09	48.54	30.78	81.06	-156.77	-932.24	3,127.49	3,070.23	57.26	54.623	
7,900.00	7,370.32	7,402.40	7,299.33	48.47	30.88	77.89	-157.44	-932.52	3,122.56	3,065.15	57.42	54.385	
7,950.00	7,409.96	7,442.65	7,339.56	48.37	31.01	75.94	-158.33	-932.86	3,115.14	3,057.54	57.60	54.080	
8,000.00	7,447.08	7,491.36	7,388.26	48.24	31.15	75.02	-159.44	-933.10	3,105.18	3,047.35	57.83	53.694	
8,050.00	7,481.41	8,050.00	7,470.14	48.07	32.73	75.33	-160.96	-932.47	3,092.32	3,032.56	59.76	51.747	
8,100.00	7,512.67	7,656.22	7,553.08	47.87	31.61	76.42	-161.95	-930.92	3,077.08	3,018.47	58.62	52.495	
8,150.00	7,540.64	7,691.87	7,588.72	47.65	31.71	77.42	-162.08	-930.06	3,059.72	3,000.94	58.78	52.055	
8,200.00	7,565.09	7,728.20	7,625.04	47.40	31.80	78.94	-162.08	-929.14	3,040.64	2,981.69	58.95	51.579	
8,250.00	7,585.85	7,761.22	7,658.04	47.14	31.89	80.85	-161.96	-928.23	3,020.04	2,960.92	59.12	51.082	
8,300.00	7,602.75	7,787.66	7,684.46	46.86	31.95	83.04	-161.79	-927.43	2,998.17	2,938.90	59.27	50.582	
8,350.00	7,615.67	7,813.13	7,709.93	46.58	32.02	85.57	-161.55	-926.60	2,975.27	2,915.83	59.44	50.057	
8,400.00	7,624.51	7,833.11	7,729.89	46.28	32.07	88.29	-161.30	-925.88	2,951.57	2,891.98	59.59	49.529	
8,450.00	7,629.19	7,842.65	7,739.42	45.98	32.09	91.03	-161.17	-925.52	2,927.31	2,867.60	59.72	49.020	
8,481.00	7,630.00	7,843.47	7,740.24	45.79	32.10	92.72	-161.16	-925.49	2,912.09	2,852.31	59.78	48.715	
8,500.00	7,630.00	7,842.81	7,739.58	45.68	32.09	92.70	-161.17	-925.51	2,902.77	2,842.96	59.81	48.531	
8,600.00	7,630.00	7,839.47	7,736.24	45.11	32.09	92.63	-161.22	-925.64	2,855.33	2,795.30	60.03	47.567	
8,700.00	7,630.00	7,836.31	7,733.08	44.56	32.08	92.56	-161.26	-925.76	2,810.64	2,750.34	60.29	46.616	
8,800.00	7,630.00	7,833.32	7,730.10	44.05	32.07	92.49	-161.30	-925.87	2,768.84	2,708.22	60.61	45.680	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
8,900.00	7,630.00	7,830.50	7,727.28	43.57	32.06	92.43	-161.34	-925.98	2,730.06	2,669.07	60.99	44.762	
9,000.00	7,630.00	7,827.82	7,724.60	43.12	32.06	92.37	-161.37	-926.08	2,694.44	2,633.02	61.42	43.868	
9,100.00	7,630.00	7,825.28	7,722.06	42.70	32.05	92.31	-161.41	-926.17	2,662.10	2,600.19	61.91	43.001	
9,200.00	7,630.00	7,822.86	7,719.65	42.31	32.04	92.25	-161.44	-926.26	2,633.16	2,570.71	62.45	42.166	
9,300.00	7,630.00	7,820.56	7,717.35	41.94	32.04	92.20	-161.46	-926.34	2,607.73	2,544.69	63.04	41.368	
9,400.00	7,630.00	7,818.37	7,715.16	41.59	32.03	92.15	-161.49	-926.42	2,585.92	2,522.25	63.68	40.611	
9,500.00	7,630.00	7,816.28	7,713.07	41.26	32.03	92.11	-161.51	-926.49	2,567.83	2,503.47	64.36	39.900	
9,600.00	7,630.00	7,814.29	7,711.08	40.96	32.02	92.06	-161.54	-926.56	2,553.52	2,488.45	65.07	39.240	
9,700.00	7,630.00	7,812.38	7,709.17	40.68	32.02	92.02	-161.56	-926.63	2,543.07	2,477.25	65.82	38.636	
9,800.00	7,630.00	7,810.55	7,707.35	40.42	32.01	91.98	-161.58	-926.69	2,536.52	2,469.93	66.59	38.090	
9,900.00	7,630.00	7,808.80	7,705.60	40.17	32.01	91.94	-161.60	-926.75	2,533.90	2,466.52	67.38	37.605	
9,916.41	7,630.00	7,808.52	7,705.32	40.13	32.01	91.93	-161.60	-926.76	2,533.85	2,466.33	67.52	37.529	
10,000.00	7,630.00	7,807.12	7,703.92	39.96	32.00	91.90	-161.61	-926.80	2,535.23	2,467.05	68.18	37.185	
10,100.00	7,630.00	7,805.52	7,702.31	40.05	32.00	91.86	-161.63	-926.86	2,540.49	2,471.51	68.98	36.831	
10,200.00	7,630.00	7,803.97	7,700.77	40.95	32.00	91.83	-161.64	-926.91	2,549.67	2,479.90	69.77	36.544	
10,300.00	7,630.00	7,802.48	7,699.28	41.94	31.99	91.79	-161.66	-926.96	2,562.71	2,492.16	70.55	36.324	
10,400.00	7,630.00	7,801.06	7,697.86	42.98	31.99	91.76	-161.67	-927.00	2,579.58	2,508.26	71.31	36.173	
10,500.00	7,630.00	7,799.68	7,696.48	44.06	31.98	91.73	-161.68	-927.05	2,600.18	2,528.13	72.05	36.088	
10,600.00	7,630.00	7,798.36	7,695.16	45.17	31.98	91.70	-161.70	-927.09	2,624.43	2,551.67	72.76	36.070	
10,700.00	7,630.00	7,797.08	7,693.88	46.32	31.98	91.67	-161.71	-927.13	2,652.23	2,578.79	73.44	36.116	
10,800.00	7,630.00	7,796.05	7,692.86	47.50	31.98	91.65	-161.72	-927.17	2,683.47	2,609.39	74.08	36.225	
10,900.00	7,630.00	7,795.06	7,691.87	48.70	31.97	91.63	-161.73	-927.20	2,718.03	2,643.35	74.68	36.394	
11,000.00	7,630.00	7,794.10	7,690.90	49.94	31.97	91.60	-161.73	-927.23	2,755.79	2,680.54	75.25	36.622	
11,100.00	7,630.00	7,793.15	7,689.96	51.20	31.97	91.58	-161.74	-927.26	2,796.62	2,720.85	75.78	36.907	
11,200.00	7,630.00	7,792.23	7,689.03	52.48	31.97	91.56	-161.75	-927.29	2,840.38	2,764.12	76.26	37.245	
11,300.00	7,630.00	7,791.32	7,688.13	53.79	31.96	91.54	-161.76	-927.32	2,886.95	2,810.24	76.71	37.634	
11,400.00	7,630.00	7,790.44	7,687.24	55.12	31.96	91.52	-161.76	-927.34	2,936.18	2,859.06	77.12	38.072	
11,500.00	7,630.00	7,789.57	7,686.38	56.46	31.96	91.50	-161.77	-927.37	2,987.95	2,910.45	77.50	38.556	
11,600.00	7,630.00	7,788.72	7,685.53	57.83	31.96	91.48	-161.78	-927.40	3,042.12	2,964.29	77.84	39.084	
11,700.00	7,630.00	7,787.89	7,684.70	59.22	31.95	91.46	-161.79	-927.42	3,098.58	3,020.44	78.14	39.653	
11,800.00	7,630.00	7,787.08	7,683.89	60.62	31.95	91.44	-161.79	-927.45	3,157.19	3,078.78	78.42	40.261	
11,900.00	7,630.00	7,786.28	7,683.09	62.04	31.95	91.43	-161.80	-927.47	3,217.85	3,139.18	78.67	40.905	
12,000.00	7,630.00	7,785.50	7,682.31	63.48	31.95	91.41	-161.80	-927.50	3,280.43	3,201.55	78.89	41.584	
12,100.00	7,630.00	7,784.74	7,681.54	64.93	31.95	91.39	-161.81	-927.52	3,344.83	3,265.75	79.08	42.296	
12,200.00	7,630.00	7,783.98	7,680.79	66.39	31.94	91.37	-161.82	-927.54	3,410.95	3,331.70	79.25	43.038	
12,300.00	7,630.00	7,783.25	7,680.06	67.86	31.94	91.36	-161.82	-927.57	3,478.69	3,399.28	79.41	43.809	
12,400.00	7,630.00	7,782.53	7,679.34	69.35	31.94	91.34	-161.83	-927.59	3,547.95	3,468.41	79.54	44.606	
12,500.00	7,630.00	7,781.82	7,678.63	70.85	31.94	91.33	-161.83	-927.61	3,618.65	3,538.99	79.65	45.430	
12,600.00	7,630.00	7,781.12	7,677.94	72.36	31.94	91.31	-161.84	-927.63	3,690.70	3,610.95	79.75	46.276	
12,700.00	7,630.00	7,780.44	7,677.25	73.88	31.94	91.29	-161.84	-927.65	3,764.03	3,684.20	79.84	47.146	
12,800.00	7,630.00	7,779.77	7,676.59	75.41	31.93	91.28	-161.85	-927.67	3,838.57	3,758.66	79.91	48.036	
12,900.00	7,630.00	7,779.12	7,675.93	76.95	31.93	91.26	-161.85	-927.69	3,914.24	3,834.27	79.97	48.946	
13,000.00	7,630.00	7,778.47	7,675.29	78.49	31.93	91.25	-161.86	-927.71	3,990.98	3,910.96	80.02	49.875	
13,100.00	7,630.00	7,777.84	7,674.65	80.05	31.93	91.24	-161.86	-927.73	4,068.74	3,988.68	80.06	50.821	
13,200.00	7,630.00	7,777.22	7,674.03	81.61	31.93	91.22	-161.86	-927.75	4,147.44	4,067.35	80.09	51.783	
13,300.00	7,630.00	7,776.61	7,673.42	83.18	31.93	91.21	-161.87	-927.77	4,227.05	4,146.93	80.12	52.761	
13,400.00	7,630.00	7,776.01	7,672.82	84.76	31.92	91.19	-161.87	-927.79	4,307.51	4,227.37	80.14	53.753	
13,500.00	7,630.00	7,775.42	7,672.23	86.34	31.92	91.18	-161.88	-927.81	4,388.77	4,308.62	80.15	54.759	
13,600.00	7,630.00	7,774.84	7,671.65	87.94	31.92	91.17	-161.88	-927.82	4,470.79	4,390.63	80.15	55.777	
13,700.00	7,630.00	7,774.27	7,671.09	89.53	31.92	91.16	-161.88	-927.84	4,553.53	4,473.37	80.16	56.807	
13,800.00	7,630.00	7,773.71	7,670.53	91.13	31.92	91.14	-161.89	-927.86	4,636.95	4,556.79	80.16	57.849	
13,900.00	7,630.00	7,773.16	7,669.98	92.74	31.92	91.13	-161.89	-927.87	4,721.01	4,640.86	80.15	58.901	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 168-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,630.00	7,772.62	7,669.44	94.35	31.91	91.12	-161.89	-927.89	4,805.68	4,725.54	80.14	59.963	
14,100.00	7,630.00	7,772.09	7,668.90	95.97	31.91	91.11	-161.90	-927.91	4,890.93	4,810.80	80.13	61.034	
14,200.00	7,630.00	7,771.57	7,668.38	97.60	31.91	91.09	-161.90	-927.92	4,976.74	4,896.61	80.12	62.114	
14,300.00	7,630.00	7,771.05	7,667.87	99.22	31.91	91.08	-161.90	-927.94	5,063.06	4,982.95	80.11	63.203	
14,400.00	7,630.00	7,770.55	7,667.36	100.85	31.91	91.07	-161.91	-927.95	5,149.88	5,069.78	80.09	64.299	
14,500.00	7,630.00	7,770.05	7,666.86	102.49	31.91	91.06	-161.91	-927.97	5,237.16	5,157.09	80.08	65.402	
14,600.00	7,630.00	7,769.56	7,666.37	104.13	31.91	91.05	-161.91	-927.98	5,324.90	5,244.84	80.06	66.512	
14,700.00	7,630.00	7,769.07	7,665.89	105.77	31.91	91.04	-161.92	-928.00	5,413.06	5,333.02	80.04	67.629	
14,800.00	7,630.00	7,768.60	7,665.42	107.42	31.90	91.03	-161.92	-928.01	5,501.62	5,421.60	80.02	68.751	
14,900.00	7,630.00	7,768.13	7,664.95	109.07	31.90	91.02	-161.92	-928.02	5,590.57	5,510.57	80.00	69.879	
15,000.00	7,630.00	7,767.67	7,664.49	110.72	31.90	91.01	-161.92	-928.04	5,679.89	5,599.90	79.98	71.013	
15,100.00	7,630.00	7,767.22	7,664.04	112.38	31.90	91.00	-161.93	-928.05	5,769.56	5,689.59	79.97	72.151	
15,200.00	7,630.00	7,766.77	7,663.59	114.04	31.90	90.99	-161.93	-928.06	5,859.56	5,779.61	79.95	73.294	
15,300.00	7,630.00	7,766.33	7,663.15	115.71	31.90	90.98	-161.93	-928.08	5,949.88	5,869.95	79.93	74.441	
15,400.00	7,630.00	7,765.90	7,662.72	117.37	31.90	90.97	-161.94	-928.09	6,040.51	5,960.60	79.91	75.592	
15,500.00	7,630.00	7,765.47	7,662.29	119.04	31.90	90.96	-161.94	-928.10	6,131.43	6,051.54	79.89	76.747	
15,600.00	7,630.00	7,765.05	7,661.87	120.71	31.90	90.95	-161.94	-928.12	6,222.62	6,142.75	79.87	77.906	
15,700.00	7,630.00	7,764.64	7,661.46	122.39	31.89	90.94	-161.94	-928.13	6,314.09	6,234.23	79.86	79.067	
15,800.00	7,630.00	7,764.23	7,661.05	124.06	31.89	90.93	-161.94	-928.14	6,405.81	6,325.96	79.84	80.232	
15,900.00	7,630.00	7,763.83	7,660.65	125.74	31.89	90.92	-161.95	-928.15	6,497.77	6,417.94	79.83	81.399	
16,000.00	7,630.00	7,763.43	7,660.25	127.42	31.89	90.91	-161.95	-928.16	6,589.97	6,510.15	79.81	82.569	
16,100.00	7,630.00	7,763.04	7,659.86	129.10	31.89	90.90	-161.95	-928.17	6,682.39	6,602.59	79.80	83.742	
16,200.00	7,630.00	7,762.66	7,659.48	130.79	31.89	90.89	-161.95	-928.19	6,775.02	6,695.24	79.78	84.916	
16,300.00	7,630.00	7,762.28	7,659.10	132.48	31.89	90.88	-161.96	-928.20	6,867.87	6,788.09	79.77	86.093	
16,400.00	7,630.00	7,761.90	7,658.72	134.17	31.89	90.88	-161.96	-928.21	6,960.91	6,881.15	79.76	87.271	
16,500.00	7,630.00	7,761.53	7,658.35	135.86	31.89	90.87	-161.96	-928.22	7,054.14	6,974.39	79.75	88.451	
16,600.00	7,630.00	7,761.17	7,657.99	137.55	31.89	90.86	-161.96	-928.23	7,147.55	7,067.81	79.74	89.633	
16,700.00	7,630.00	7,760.81	7,657.63	139.24	31.88	90.85	-161.96	-928.24	7,241.14	7,161.41	79.73	90.816	
16,800.00	7,630.00	7,760.45	7,657.28	140.94	31.88	90.84	-161.96	-928.25	7,334.90	7,255.18	79.73	92.000	
16,900.00	7,630.00	7,760.10	7,656.93	142.64	31.88	90.83	-161.97	-928.26	7,428.83	7,349.10	79.72	93.185	
17,000.00	7,630.00	7,759.76	7,656.58	144.34	31.88	90.83	-161.97	-928.27	7,522.91	7,443.19	79.72	94.371	
17,100.00	7,630.00	7,759.42	7,656.24	146.04	31.88	90.82	-161.97	-928.28	7,617.13	7,537.42	79.71	95.558	
17,200.00	7,630.00	7,759.08	7,655.90	147.74	31.88	90.81	-161.97	-928.29	7,711.51	7,631.80	79.71	96.745	
17,300.00	7,630.00	7,758.75	7,655.57	149.44	31.88	90.80	-161.97	-928.30	7,806.03	7,726.32	79.71	97.933	
17,400.00	7,630.00	7,758.42	7,655.25	151.15	31.88	90.80	-161.98	-928.31	7,900.68	7,820.97	79.71	99.121	
17,500.00	7,630.00	7,758.10	7,654.92	152.86	31.88	90.79	-161.98	-928.32	7,995.46	7,915.75	79.71	100.310	
17,600.00	7,630.00	7,757.78	7,654.60	154.56	31.88	90.78	-161.98	-928.33	8,090.36	8,010.65	79.71	101.499	
17,700.00	7,630.00	7,757.47	7,654.29	156.27	31.88	90.78	-161.98	-928.34	8,185.39	8,105.68	79.71	102.688	
17,800.00	7,630.00	7,757.16	7,653.98	157.98	31.87	90.77	-161.98	-928.34	8,280.53	8,200.82	79.72	103.877	
17,900.00	7,630.00	7,756.85	7,653.67	159.70	31.87	90.76	-161.98	-928.35	8,375.79	8,296.07	79.72	105.065	
18,000.00	7,630.00	7,756.55	7,653.37	161.41	31.87	90.75	-161.98	-928.36	8,471.16	8,391.43	79.73	106.254	
18,100.00	7,630.00	7,756.25	7,653.07	163.12	31.87	90.75	-161.99	-928.37	8,566.63	8,486.90	79.73	107.443	
18,154.00	7,630.00	7,756.09	7,652.91	164.05	31.87	90.74	-161.99	-928.38	8,618.23	8,538.50	79.74	108.084	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-18.74	217.84	-73.92	230.26				
100.00	100.00	88.13	88.13	0.13	0.15	-18.64	218.31	-73.65	230.41	230.13	0.28	825.092	ES
200.00	200.00	182.23	182.20	0.49	0.39	-18.39	220.10	-73.19	232.08	231.20	0.88	262.917	
300.00	300.00	273.58	273.42	0.85	0.72	-18.55	224.52	-75.35	237.41	235.83	1.58	150.400	
400.00	400.00	365.69	365.12	1.21	1.07	-19.38	230.80	-81.19	245.93	243.65	2.27	108.247	
500.00	500.00	456.79	455.46	1.57	1.43	-20.48	239.22	-89.34	257.68	254.71	2.97	86.808	
600.00	600.00	546.99	544.47	1.93	1.81	-21.62	249.99	-99.08	272.73	269.07	3.66	74.530	
700.00	700.00	635.41	631.24	2.29	2.22	-22.69	263.05	-109.99	291.11	286.77	4.34	67.031	
800.00	800.00	722.88	716.39	2.64	2.65	-23.79	278.44	-122.74	313.07	308.05	5.02	62.356	
900.00	900.00	809.15	799.68	3.00	3.11	-25.00	295.26	-137.66	338.07	332.37	5.69	59.391	
1,000.00	1,000.00	893.40	880.14	3.36	3.60	-26.16	313.92	-154.22	366.61	360.26	6.35	57.698	
1,100.00	1,100.00	985.28	967.28	3.72	4.17	-27.38	335.56	-173.76	397.31	390.26	7.05	56.340	
1,200.00	1,200.00	1,079.41	1,056.59	4.08	4.76	-28.47	357.50	-193.83	427.99	420.21	7.78	55.018	
1,300.00	1,300.00	1,169.02	1,141.30	4.44	5.34	-29.35	379.28	-213.29	459.85	451.37	8.48	54.257	
1,400.00	1,400.00	1,260.59	1,227.68	4.79	5.94	-30.07	402.42	-233.00	492.52	483.33	9.19	53.610	
1,500.00	1,499.98	1,347.93	1,309.86	5.15	6.53	-68.02	424.88	-252.20	525.30	515.44	9.86	53.256	
1,600.00	1,599.84	1,428.05	1,384.66	5.51	7.09	-68.31	446.85	-270.68	558.99	548.52	10.48	53.343	
1,700.00	1,699.45	1,505.89	1,456.62	5.87	7.66	-68.65	470.12	-289.09	594.10	583.02	11.08	53.638	
1,800.00	1,798.70	1,581.77	1,525.96	6.23	8.26	-69.17	493.89	-308.67	630.71	619.05	11.66	54.085	
1,900.00	1,897.47	1,677.51	1,612.94	6.60	9.02	-70.28	523.83	-335.21	667.74	655.31	12.43	53.699	
2,000.00	1,995.62	1,768.53	1,695.87	6.99	9.76	-71.44	551.56	-360.47	703.66	690.48	13.18	53.374	
2,100.00	2,093.06	1,859.18	1,778.43	7.39	10.49	-72.77	578.46	-386.51	739.32	725.37	13.95	52.984	
2,200.00	2,189.64	1,945.33	1,856.83	7.82	11.19	-74.11	603.60	-411.90	775.06	760.34	14.72	52.664	
2,300.00	2,285.27	2,040.67	1,943.60	8.28	11.97	-75.69	631.64	-439.72	810.95	795.34	15.60	51.972	
2,400.00	2,379.82	2,151.77	2,045.52	8.77	12.85	-77.64	663.76	-470.09	845.54	828.87	16.67	50.714	
2,500.00	2,473.17	2,247.95	2,134.44	9.31	13.58	-79.23	691.12	-494.49	878.86	861.19	17.67	49.747	
2,600.00	2,565.21	2,338.66	2,218.45	9.88	14.27	-80.69	717.12	-516.70	912.27	893.59	18.68	48.838	
2,660.67	2,620.37	2,392.31	2,268.18	10.25	14.67	-81.57	732.43	-529.78	932.79	913.48	19.32	48.292	
2,700.00	2,655.96	2,426.77	2,300.15	10.50	14.93	-82.42	742.10	-538.30	946.29	926.55	19.74	47.943	
2,800.00	2,746.43	2,518.65	2,385.47	11.15	15.62	-84.60	767.53	-560.99	981.29	960.42	20.87	47.011	
2,900.00	2,836.90	2,604.96	2,465.67	11.82	16.26	-86.50	791.54	-581.96	1,017.26	995.27	21.99	46.254	
3,000.00	2,927.37	2,692.08	2,546.59	12.50	16.91	-88.29	816.03	-603.04	1,054.35	1,031.21	23.14	45.556	
3,100.00	3,017.85	2,779.95	2,628.26	13.21	17.56	-90.01	840.32	-624.50	1,092.36	1,068.04	24.32	44.915	
3,200.00	3,108.32	2,871.71	2,713.68	13.92	18.24	-91.73	865.09	-647.05	1,131.07	1,105.52	25.55	44.275	
3,300.00	3,198.79	2,964.69	2,800.46	14.64	18.92	-93.38	889.59	-669.70	1,170.13	1,143.34	26.79	43.674	
3,400.00	3,289.27	3,050.83	2,881.02	15.38	19.54	-94.84	911.74	-690.67	1,209.69	1,181.70	27.98	43.230	
3,500.00	3,379.74	3,129.85	2,954.84	16.12	20.12	-96.11	932.11	-710.19	1,250.28	1,221.16	29.11	42.943	
3,600.00	3,470.21	3,210.84	3,030.08	16.87	20.72	-97.28	954.40	-730.19	1,292.12	1,261.85	30.27	42.687	
3,700.00	3,560.68	3,297.87	3,110.83	17.62	21.38	-98.43	979.03	-751.35	1,334.46	1,302.97	31.49	42.374	
3,800.00	3,651.16	3,373.99	3,181.36	18.39	21.95	-99.40	1,000.44	-770.35	1,377.73	1,345.13	32.61	42.253	
3,900.00	3,741.63	3,471.39	3,271.69	19.15	22.69	-100.58	1,027.49	-794.78	1,421.41	1,387.47	33.94	41.881	
4,000.00	3,832.10	3,561.00	3,354.96	19.92	23.36	-101.61	1,052.09	-816.94	1,465.09	1,429.90	35.19	41.633	
4,100.00	3,922.57	3,652.18	3,439.83	20.69	24.03	-102.62	1,076.72	-839.40	1,508.91	1,472.46	36.46	41.390	
4,200.00	4,013.05	3,751.04	3,532.04	21.47	24.75	-103.65	1,103.02	-863.44	1,552.71	1,514.91	37.80	41.080	
4,300.00	4,103.52	3,867.80	3,641.72	22.25	25.58	-104.82	1,133.18	-889.79	1,594.90	1,555.59	39.31	40.575	
4,400.00	4,193.99	3,930.00	3,700.00	23.03	26.02	-105.39	1,149.66	-903.93	1,637.91	1,597.63	40.27	40.668	
4,500.00	4,284.47	3,988.72	3,754.68	23.81	26.46	-105.91	1,165.70	-918.10	1,682.62	1,641.42	41.20	40.841	
4,600.00	4,374.94	4,047.42	3,809.01	24.60	26.90	-106.40	1,181.97	-933.26	1,729.11	1,687.00	42.11	41.062	
4,700.00	4,465.41	4,109.71	3,866.47	25.39	27.39	-106.92	1,198.93	-950.27	1,777.04	1,733.99	43.05	41.280	
4,800.00	4,555.88	4,180.00	3,931.12	26.18	27.94	-107.50	1,217.95	-970.25	1,826.13	1,782.06	44.08	41.432	
4,900.00	4,646.36	4,293.16	4,035.10	26.97	28.84	-108.36	1,249.08	-1,002.27	1,875.50	1,829.89	45.60	41.126	
5,000.00	4,736.83	4,354.96	4,092.08	27.76	29.33	-108.81	1,265.81	-1,019.39	1,924.38	1,877.86	46.53	41.360	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,827.30	4,412.74	4,145.15	28.55	29.79	-109.24	1,281.06	-1,036.39	1,974.75	1,927.36	47.39	41.667	
5,200.00	4,917.77	4,483.63	4,209.94	29.35	30.36	-109.73	1,300.34	-1,057.74	2,026.08	1,977.66	48.42	41.847	
5,300.00	5,008.25	4,658.65	4,370.86	30.15	31.75	-110.84	1,347.81	-1,107.48	2,076.15	2,025.46	50.69	40.962	
5,400.00	5,098.72	4,765.95	4,470.04	30.94	32.58	-111.42	1,378.49	-1,134.62	2,123.70	2,071.56	52.14	40.731	
5,500.00	5,189.19	4,824.93	4,524.49	31.74	33.04	-111.72	1,395.46	-1,149.66	2,171.62	2,118.58	53.05	40.938	
5,600.00	5,279.67	4,881.26	4,576.14	32.54	33.48	-111.98	1,412.16	-1,164.67	2,220.80	2,166.89	53.91	41.195	
5,700.00	5,370.14	4,936.07	4,626.26	33.34	33.93	-112.24	1,428.16	-1,180.03	2,271.22	2,216.47	54.75	41.486	
5,800.00	5,460.61	5,150.77	4,825.15	34.14	35.57	-113.33	1,485.66	-1,236.70	2,319.91	2,262.47	57.43	40.392	
5,900.00	5,551.08	5,312.17	4,977.13	34.94	36.68	-114.17	1,525.40	-1,273.74	2,365.66	2,306.27	59.38	39.836	
6,000.00	5,641.56	5,606.92	5,262.02	35.75	38.31	-115.96	1,580.70	-1,324.08	2,404.24	2,342.01	62.23	38.637	
6,100.00	5,732.03	5,775.87	5,428.35	36.55	39.03	-117.15	1,601.62	-1,344.87	2,438.84	2,375.04	63.80	38.227	
6,200.00	5,822.50	5,954.66	5,605.61	37.35	39.68	-118.47	1,618.21	-1,361.15	2,470.46	2,405.16	65.29	37.836	
6,300.00	5,912.97	6,076.67	5,727.06	38.16	40.06	-119.42	1,625.59	-1,370.00	2,500.73	2,434.28	66.44	37.638	
6,400.00	6,003.45	6,237.78	5,887.85	38.96	40.47	-120.73	1,631.02	-1,378.51	2,529.36	2,461.70	67.66	37.383	
6,500.00	6,093.92	6,412.32	6,062.32	39.77	40.83	-122.21	1,631.18	-1,382.85	2,555.80	2,487.00	68.80	37.148	
6,600.00	6,184.39	6,505.11	6,155.11	40.57	41.00	-122.98	1,631.19	-1,383.30	2,580.93	2,511.20	69.73	37.015	
6,700.00	6,274.87	6,576.81	6,226.81	41.38	41.14	-123.56	1,631.64	-1,384.10	2,607.10	2,536.50	70.60	36.927	
6,800.00	6,365.34	6,655.46	6,305.44	42.18	41.31	-124.17	1,632.43	-1,385.47	2,634.27	2,562.79	71.48	36.854	
6,900.00	6,455.81	6,842.41	6,492.37	42.99	41.68	-125.61	1,633.76	-1,386.35	2,661.11	2,588.53	72.58	36.663	
7,000.00	6,546.28	6,919.49	6,569.43	43.80	41.82	-126.19	1,634.03	-1,385.20	2,686.19	2,612.75	73.43	36.580	
7,100.00	6,636.76	6,995.14	6,645.08	44.61	41.96	-126.76	1,633.99	-1,384.48	2,712.16	2,637.90	74.26	36.521	
7,200.00	6,727.23	7,067.35	6,717.29	45.41	42.09	-127.31	1,633.63	-1,384.21	2,739.08	2,664.02	75.07	36.489	
7,300.00	6,817.70	7,139.37	6,789.31	46.22	42.23	-127.84	1,633.12	-1,384.43	2,767.03	2,691.18	75.86	36.478	SF
7,383.79	6,893.51	7,201.24	6,851.17	46.90	42.34	-128.30	1,632.79	-1,384.98	2,791.17	2,714.66	76.51	36.482	
7,400.00	6,908.25	7,213.35	6,863.28	47.03	42.37	-131.23	1,632.73	-1,385.12	2,795.92	2,719.29	76.63	36.485	
7,450.00	6,954.52	7,251.37	6,901.30	47.40	42.44	-141.97	1,632.56	-1,385.64	2,810.76	2,733.78	76.98	36.511	
7,500.00	7,001.74	7,290.11	6,940.03	47.72	42.52	-155.83	1,632.36	-1,386.28	2,825.76	2,748.48	77.29	36.563	
7,550.00	7,049.55	7,329.31	6,979.22	47.99	42.60	-172.93	1,632.14	-1,387.04	2,840.77	2,763.23	77.54	36.638	
7,600.00	7,097.58	7,368.65	7,018.56	48.21	42.69	168.28	1,631.90	-1,387.92	2,855.66	2,777.92	77.74	36.735	
7,650.00	7,145.48	7,419.89	7,069.78	48.37	42.79	150.77	1,631.56	-1,389.16	2,870.28	2,792.35	77.93	36.832	
7,700.00	7,192.88	7,485.12	7,135.00	48.48	42.93	136.60	1,630.96	-1,390.41	2,884.20	2,806.08	78.12	36.921	
7,750.00	7,239.41	7,523.85	7,173.71	48.54	43.01	125.78	1,630.52	-1,391.08	2,897.53	2,819.34	78.19	37.058	
7,800.00	7,284.72	7,562.39	7,212.24	48.56	43.08	117.68	1,630.01	-1,391.84	2,910.38	2,832.16	78.22	37.207	
7,850.00	7,328.47	7,593.11	7,242.95	48.54	43.15	111.50	1,629.59	-1,392.52	2,922.76	2,844.57	78.20	37.377	
7,900.00	7,370.32	7,618.25	7,268.09	48.47	43.21	106.66	1,629.42	-1,393.24	2,934.76	2,856.63	78.13	37.565	
7,950.00	7,409.96	7,641.78	7,291.60	48.37	43.26	102.81	1,629.42	-1,394.04	2,946.35	2,868.33	78.02	37.765	
8,000.00	7,447.08	7,671.00	7,320.79	48.24	43.33	99.80	1,629.64	-1,395.22	2,957.53	2,879.63	77.90	37.964	
8,050.00	7,481.41	7,965.50	7,615.05	48.07	43.91	101.19	1,626.48	-1,393.20	2,965.95	2,887.53	78.42	37.821	
8,100.00	7,512.67	7,991.88	7,641.40	47.87	43.96	99.44	1,626.11	-1,391.94	2,973.16	2,894.90	78.26	37.993	
8,150.00	7,540.64	8,015.42	7,664.91	47.65	44.00	97.99	1,625.82	-1,390.86	2,980.14	2,902.08	78.06	38.176	
8,200.00	7,565.09	8,035.94	7,685.41	47.40	44.03	96.78	1,625.60	-1,389.96	2,986.92	2,909.08	77.85	38.370	
8,250.00	7,585.85	8,053.48	7,702.94	47.14	44.06	95.73	1,625.44	-1,389.21	2,993.54	2,915.93	77.61	38.573	
8,300.00	7,602.75	8,067.92	7,717.36	46.86	44.09	94.83	1,625.32	-1,388.61	2,999.99	2,922.65	77.35	38.785	
8,350.00	7,615.67	8,078.98	7,728.41	46.58	44.11	94.03	1,625.24	-1,388.16	3,006.30	2,929.23	77.07	39.006	
8,400.00	7,624.51	8,086.60	7,736.02	46.28	44.13	93.31	1,625.19	-1,387.85	3,012.47	2,935.69	76.78	39.235	
8,450.00	7,629.19	8,090.75	7,740.18	45.98	44.13	92.67	1,625.16	-1,387.68	3,018.47	2,941.99	76.48	39.470	
8,481.00	7,630.00	8,091.58	7,741.01	45.79	44.13	92.31	1,625.16	-1,387.65	3,022.10	2,945.81	76.28	39.618	
8,500.00	7,630.00	8,091.68	7,741.10	45.68	44.13	92.31	1,625.15	-1,387.65	3,024.35	2,948.19	76.16	39.711	
8,600.00	7,630.00	8,092.20	7,741.62	45.11	44.14	92.32	1,625.15	-1,387.63	3,038.17	2,962.62	75.54	40.217	
8,700.00	7,630.00	8,092.71	7,742.14	44.56	44.14	92.33	1,625.15	-1,387.61	3,055.20	2,980.24	74.95	40.761	
8,800.00	7,630.00	8,093.22	7,742.64	44.05	44.14	92.34	1,625.14	-1,387.59	3,075.38	3,000.99	74.40	41.338	
8,900.00	7,630.00	8,093.73	7,743.15	43.57	44.14	92.35	1,625.14	-1,387.57	3,098.67	3,024.80	73.87	41.948	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
9,000.00	7,630.00	8,094.23	7,743.65	43.12	44.14	92.36	1,625.14	-1,387.55	3,124.98	3,051.60	73.38	42.588	
9,100.00	7,630.00	8,094.73	7,744.15	42.70	44.14	92.37	1,625.14	-1,387.53	3,154.24	3,081.32	72.92	43.254	
9,200.00	7,630.00	8,095.22	7,744.64	42.31	44.14	92.38	1,625.13	-1,387.51	3,186.37	3,113.87	72.51	43.946	
9,300.00	7,630.00	8,095.71	7,745.13	41.94	44.14	92.39	1,625.13	-1,387.49	3,221.29	3,149.17	72.13	44.661	
9,400.00	7,630.00	8,096.19	7,745.61	41.59	44.14	92.40	1,625.13	-1,387.47	3,258.91	3,187.12	71.79	45.396	
9,500.00	7,630.00	8,096.67	7,746.09	41.26	44.14	92.41	1,625.12	-1,387.45	3,299.13	3,227.64	71.49	46.150	
9,600.00	7,630.00	8,097.15	7,746.57	40.96	44.14	92.42	1,625.12	-1,387.43	3,341.85	3,270.63	71.22	46.921	
9,700.00	7,630.00	8,097.62	7,747.04	40.68	44.15	92.43	1,625.12	-1,387.41	3,386.99	3,316.00	71.00	47.706	
9,800.00	7,630.00	8,098.09	7,747.50	40.42	44.15	92.43	1,625.11	-1,387.40	3,434.46	3,363.65	70.81	48.505	
9,900.00	7,630.00	8,098.55	7,747.97	40.17	44.15	92.44	1,625.11	-1,387.38	3,484.14	3,413.49	70.65	49.316	
10,000.00	7,630.00	8,099.01	7,748.43	39.96	44.15	92.45	1,625.11	-1,387.36	3,535.96	3,465.43	70.52	50.138	
10,100.00	7,630.00	8,099.47	7,748.89	40.05	44.15	92.46	1,625.11	-1,387.34	3,589.81	3,519.38	70.43	50.970	
10,200.00	7,630.00	8,099.92	7,749.34	40.95	44.15	92.47	1,625.10	-1,387.32	3,645.61	3,575.25	70.36	51.811	
10,300.00	7,630.00	8,100.37	7,749.79	41.94	44.15	92.48	1,625.10	-1,387.31	3,703.27	3,632.95	70.32	52.660	
10,400.00	7,630.00	8,100.82	7,750.23	42.98	44.15	92.49	1,625.10	-1,387.29	3,762.71	3,692.40	70.31	53.516	
10,500.00	7,630.00	8,101.26	7,750.68	44.06	44.15	92.49	1,625.09	-1,387.27	3,823.83	3,753.52	70.32	54.379	
10,600.00	7,630.00	8,101.70	7,751.11	45.17	44.15	92.50	1,625.09	-1,387.26	3,886.57	3,816.23	70.35	55.249	
10,700.00	7,630.00	8,102.14	7,751.55	46.32	44.15	92.51	1,625.09	-1,387.24	3,950.85	3,880.45	70.39	56.125	
10,800.00	7,630.00	8,102.57	7,751.98	47.50	44.15	92.52	1,625.09	-1,387.22	4,016.58	3,946.12	70.46	57.007	
10,900.00	7,630.00	8,103.00	7,752.41	48.70	44.16	92.53	1,625.08	-1,387.21	4,083.71	4,013.17	70.54	57.894	
11,000.00	7,630.00	8,103.42	7,752.83	49.94	44.16	92.54	1,625.08	-1,387.19	4,152.16	4,081.53	70.63	58.787	
11,100.00	7,630.00	8,103.84	7,753.25	51.20	44.16	92.54	1,625.08	-1,387.17	4,221.87	4,151.13	70.74	59.685	
11,200.00	7,630.00	8,104.26	7,753.67	52.48	44.16	92.55	1,625.08	-1,387.16	4,292.77	4,221.92	70.85	60.589	
11,300.00	7,630.00	8,104.68	7,754.09	53.79	44.16	92.56	1,625.07	-1,387.14	4,364.82	4,293.84	70.98	61.497	
11,400.00	7,630.00	8,105.09	7,754.50	55.12	44.16	92.57	1,625.07	-1,387.12	4,437.95	4,366.84	71.11	62.410	
11,500.00	7,630.00	8,105.50	7,754.91	56.46	44.16	92.58	1,625.07	-1,387.11	4,512.11	4,440.86	71.25	63.328	
11,600.00	7,630.00	8,105.90	7,755.31	57.83	44.16	92.58	1,625.07	-1,387.09	4,587.25	4,515.85	71.40	64.251	
11,700.00	7,630.00	8,106.30	7,755.72	59.22	44.16	92.59	1,625.07	-1,387.08	4,663.32	4,591.78	71.55	65.179	
11,800.00	7,630.00	8,106.70	7,756.11	60.62	44.16	92.60	1,625.06	-1,387.06	4,740.29	4,668.59	71.70	66.111	
11,900.00	7,630.00	8,107.10	7,756.51	62.04	44.16	92.61	1,625.06	-1,387.05	4,818.10	4,746.24	71.86	67.047	
12,000.00	7,630.00	8,107.49	7,756.90	63.48	44.16	92.61	1,625.06	-1,387.03	4,896.71	4,824.69	72.02	67.989	
12,100.00	7,630.00	8,107.88	7,757.29	64.93	44.16	92.62	1,625.06	-1,387.02	4,976.10	4,903.91	72.19	68.934	
12,200.00	7,630.00	8,108.27	7,757.68	66.39	44.16	92.63	1,625.05	-1,387.00	5,056.21	4,983.86	72.35	69.883	
12,300.00	7,630.00	8,108.66	7,758.07	67.86	44.17	92.64	1,625.05	-1,386.99	5,137.02	5,064.51	72.52	70.837	
12,400.00	7,630.00	8,109.04	7,758.45	69.35	44.17	92.64	1,625.05	-1,386.97	5,218.50	5,145.82	72.69	71.795	
12,500.00	7,630.00	8,109.42	7,758.83	70.85	44.17	92.65	1,625.05	-1,386.96	5,300.61	5,227.76	72.85	72.757	
12,600.00	7,630.00	8,109.79	7,759.20	72.36	44.17	92.66	1,625.05	-1,386.94	5,383.33	5,310.31	73.02	73.722	
12,700.00	7,630.00	8,110.17	7,759.58	73.88	44.17	92.66	1,625.04	-1,386.93	5,466.62	5,393.43	73.19	74.691	
12,800.00	7,630.00	8,110.54	7,759.95	75.41	44.17	92.67	1,625.04	-1,386.91	5,550.47	5,477.11	73.36	75.664	
12,900.00	7,630.00	8,110.91	7,760.31	76.95	44.17	92.68	1,625.04	-1,386.90	5,634.84	5,561.32	73.52	76.640	
13,000.00	7,630.00	8,111.27	7,760.68	78.49	44.17	92.69	1,625.04	-1,386.89	5,719.72	5,646.03	73.69	77.620	
13,100.00	7,630.00	8,111.63	7,761.04	80.05	44.17	92.69	1,625.04	-1,386.87	5,805.07	5,731.22	73.85	78.603	
13,200.00	7,630.00	8,111.99	7,761.40	81.61	44.17	92.70	1,625.03	-1,386.86	5,890.89	5,816.88	74.02	79.589	
13,300.00	7,630.00	8,112.35	7,761.76	83.18	44.17	92.71	1,625.03	-1,386.85	5,977.15	5,902.97	74.18	80.578	
13,400.00	7,630.00	8,112.71	7,762.11	84.76	44.17	92.71	1,625.03	-1,386.83	6,063.83	5,989.50	74.34	81.570	
13,500.00	7,630.00	8,113.06	7,762.46	86.34	44.17	92.72	1,625.03	-1,386.82	6,150.92	6,076.42	74.50	82.564	
13,600.00	7,630.00	8,113.41	7,762.81	87.94	44.17	92.73	1,625.03	-1,386.81	6,238.39	6,163.74	74.66	83.561	
13,700.00	7,630.00	8,113.76	7,763.16	89.53	44.17	92.73	1,625.02	-1,386.79	6,326.24	6,251.43	74.81	84.561	
13,800.00	7,630.00	8,114.10	7,763.51	91.13	44.18	92.74	1,625.02	-1,386.78	6,414.44	6,339.47	74.97	85.563	
13,900.00	7,630.00	8,114.44	7,763.85	92.74	44.18	92.75	1,625.02	-1,386.77	6,502.98	6,427.86	75.12	86.568	
14,000.00	7,630.00	8,114.78	7,764.19	94.35	44.18	92.75	1,625.02	-1,386.75	6,591.85	6,516.58	75.27	87.575	
14,100.00	7,630.00	8,115.12	7,764.52	95.97	44.18	92.76	1,625.02	-1,386.74	6,681.03	6,605.61	75.42	88.583	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 138-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,630.00	8,115.46	7,764.86	97.60	44.18	92.77	1,625.02	-1,386.73	6,770.52	6,694.95	75.57	89.594	
14,300.00	7,630.00	8,115.79	7,765.19	99.22	44.18	92.77	1,625.01	-1,386.71	6,860.30	6,784.58	75.72	90.607	
14,400.00	7,630.00	8,116.12	7,765.52	100.85	44.18	92.78	1,625.01	-1,386.70	6,950.35	6,874.49	75.86	91.621	
14,500.00	7,630.00	8,116.45	7,765.85	102.49	44.18	92.78	1,625.01	-1,386.69	7,040.68	6,964.67	76.00	92.637	
14,600.00	7,630.00	8,116.77	7,766.18	104.13	44.18	92.79	1,625.01	-1,386.68	7,131.26	7,055.11	76.14	93.655	
14,700.00	7,630.00	8,117.10	7,766.50	105.77	44.18	92.80	1,625.01	-1,386.66	7,222.09	7,145.81	76.28	94.674	
14,800.00	7,630.00	8,117.42	7,766.82	107.42	44.18	92.80	1,625.01	-1,386.65	7,313.16	7,236.74	76.42	95.694	
14,900.00	7,630.00	8,117.74	7,767.14	109.07	44.18	92.81	1,625.00	-1,386.64	7,404.46	7,327.90	76.56	96.716	
15,000.00	7,630.00	8,118.06	7,767.46	110.72	44.18	92.82	1,625.00	-1,386.63	7,495.98	7,419.29	76.69	97.739	
15,100.00	7,630.00	8,118.37	7,767.77	112.38	44.18	92.82	1,625.00	-1,386.62	7,587.72	7,510.89	76.83	98.763	
15,200.00	7,630.00	8,118.68	7,768.09	114.04	44.18	92.83	1,625.00	-1,386.61	7,679.66	7,602.70	76.96	99.788	
15,300.00	7,630.00	8,119.00	7,768.40	115.71	44.18	92.83	1,625.00	-1,386.59	7,771.80	7,694.71	77.09	100.814	
15,400.00	7,630.00	8,119.30	7,768.71	117.37	44.18	92.84	1,625.00	-1,386.58	7,864.14	7,786.92	77.22	101.840	
15,500.00	7,630.00	8,119.61	7,769.01	119.04	44.19	92.85	1,624.99	-1,386.57	7,956.66	7,879.31	77.35	102.868	
15,600.00	7,630.00	8,119.92	7,769.32	120.71	44.19	92.85	1,624.99	-1,386.56	8,049.35	7,971.88	77.48	103.896	
15,700.00	7,630.00	8,120.22	7,769.62	122.39	44.19	92.86	1,624.99	-1,386.55	8,142.22	8,064.62	77.60	104.925	
15,800.00	7,630.00	8,120.52	7,769.92	124.06	44.19	92.86	1,624.99	-1,386.54	8,235.26	8,157.54	77.72	105.954	
15,900.00	7,630.00	8,120.82	7,770.22	125.74	44.19	92.87	1,624.99	-1,386.52	8,328.46	8,250.61	77.85	106.984	
16,000.00	7,630.00	8,121.12	7,770.51	127.42	44.19	92.87	1,624.99	-1,386.51	8,421.82	8,343.85	77.97	108.014	
16,100.00	7,630.00	8,121.41	7,770.81	129.10	44.19	92.88	1,624.99	-1,386.50	8,515.32	8,437.23	78.09	109.045	
16,200.00	7,630.00	8,121.70	7,771.10	130.79	44.19	92.89	1,624.98	-1,386.49	8,608.97	8,530.76	78.21	110.075	
16,300.00	7,630.00	8,121.99	7,771.39	132.48	44.19	92.89	1,624.98	-1,386.48	8,702.77	8,624.44	78.33	111.106	
16,400.00	7,630.00	8,122.28	7,771.68	134.17	44.19	92.90	1,624.98	-1,386.47	8,796.70	8,718.25	78.45	112.137	
16,500.00	7,630.00	8,122.57	7,771.97	135.86	44.19	92.90	1,624.98	-1,386.46	8,890.76	8,812.20	78.56	113.168	
16,600.00	7,630.00	8,122.86	7,772.25	137.55	44.19	92.91	1,624.98	-1,386.45	8,984.95	8,906.27	78.68	114.199	
16,700.00	7,630.00	8,123.14	7,772.54	139.24	44.19	92.91	1,624.98	-1,386.44	9,079.26	9,000.47	78.79	115.230	
16,800.00	7,630.00	8,123.42	7,772.82	140.94	44.19	92.92	1,624.98	-1,386.43	9,173.70	9,094.79	78.91	116.261	
16,900.00	7,630.00	8,123.70	7,773.10	142.64	44.19	92.92	1,624.97	-1,386.42	9,268.25	9,189.23	79.02	117.292	
17,000.00	7,630.00	8,123.98	7,773.38	144.34	44.19	92.93	1,624.97	-1,386.41	9,362.92	9,283.79	79.13	118.322	
17,100.00	7,630.00	8,124.26	7,773.65	146.04	44.19	92.93	1,624.97	-1,386.40	9,457.69	9,378.45	79.24	119.352	
17,200.00	7,630.00	8,124.53	7,773.93	147.74	44.19	92.94	1,624.97	-1,386.39	9,552.57	9,473.22	79.35	120.382	
17,300.00	7,630.00	8,138.00	7,787.39	149.44	44.22	93.20	1,624.91	-1,385.89	9,647.57	9,568.11	79.46	121.414	
17,400.00	7,630.00	8,138.00	7,787.39	151.15	44.22	93.20	1,624.91	-1,385.89	9,742.66	9,663.09	79.57	122.443	
17,500.00	7,630.00	8,138.00	7,787.39	152.86	44.22	93.20	1,624.91	-1,385.89	9,837.84	9,758.16	79.68	123.471	
17,600.00	7,630.00	8,138.00	7,787.39	154.56	44.22	93.20	1,624.91	-1,385.89	9,933.12	9,853.33	79.78	124.499	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-14.00	217.84	-54.32	224.74				
100.00	100.00	89.25	89.25	0.13	0.14	-13.99	218.00	-54.33	224.66	224.39	0.28	803.597	CC, ES
200.00	200.00	186.88	186.88	0.49	0.40	-13.88	218.75	-54.07	225.36	224.46	0.89	252.346	
300.00	300.00	281.78	281.71	0.85	0.74	-13.22	221.57	-52.06	227.75	226.16	1.60	142.661	
400.00	400.00	376.68	376.38	1.21	1.09	-12.09	227.04	-48.64	232.59	230.29	2.30	100.980	
500.00	500.00	470.09	469.28	1.57	1.45	-10.35	234.91	-42.92	239.69	236.68	3.01	79.581	
600.00	600.00	561.14	559.36	1.93	1.82	-8.17	245.69	-35.29	250.10	246.38	3.72	67.225	
700.00	700.00	650.55	647.32	2.29	2.21	-5.94	259.41	-26.98	264.28	259.86	4.42	59.759	
800.00	800.00	743.04	737.79	2.64	2.63	-3.75	276.45	-18.13	281.92	276.78	5.13	54.902	
900.00	900.00	835.17	827.63	3.00	3.08	-1.78	294.72	-9.14	301.38	295.54	5.84	51.582	
1,000.00	1,000.00	926.27	916.12	3.36	3.53	-0.13	314.68	-0.74	323.24	316.69	6.54	49.393	
1,100.00	1,100.00	1,022.80	1,009.65	3.72	4.03	1.29	337.05	7.60	346.58	339.32	7.26	47.722	
1,200.00	1,200.00	1,121.00	1,104.93	4.08	4.53	2.54	359.29	15.97	369.57	361.57	8.00	46.184	
1,300.00	1,300.00	1,221.34	1,202.30	4.44	5.05	3.82	381.61	25.50	392.39	383.64	8.75	44.824	
1,400.00	1,400.00	1,326.97	1,305.17	4.79	5.59	4.95	403.60	34.97	413.90	404.37	9.54	43.406	
1,500.00	1,499.98	1,415.22	1,391.20	5.15	6.04	-31.96	421.83	42.41	433.87	423.66	10.20	42.519	
1,600.00	1,599.84	1,507.70	1,480.88	5.51	6.52	-31.28	442.81	50.79	453.06	442.16	10.90	41.563	
1,700.00	1,699.45	1,598.17	1,568.21	5.87	7.02	-30.68	464.24	60.69	470.61	459.02	11.59	40.600	
1,800.00	1,798.70	1,700.39	1,666.55	6.23	7.59	-30.15	489.13	73.24	486.06	473.69	12.38	39.271	
1,900.00	1,897.47	1,805.38	1,767.88	6.60	8.17	-29.88	513.44	86.07	497.32	484.12	13.19	37.702	
2,000.00	1,995.62	1,921.15	1,880.22	6.99	8.78	-29.92	537.86	99.67	503.39	489.31	14.08	35.748	
2,100.00	2,093.06	2,038.14	1,994.61	7.39	9.36	-30.37	559.09	111.93	503.31	488.33	14.97	33.615	
2,200.00	2,189.64	2,145.88	2,100.70	7.82	9.85	-31.33	575.74	120.54	497.19	481.37	15.82	31.438	
2,300.00	2,285.27	2,244.00	2,197.29	8.28	10.30	-32.34	590.46	129.58	487.93	471.30	16.63	29.347	
2,400.00	2,379.82	2,334.51	2,286.21	8.77	10.73	-33.48	604.70	138.55	476.72	459.30	17.43	27.353	
2,500.00	2,473.17	2,426.99	2,376.72	9.31	11.18	-34.86	620.98	148.40	464.74	446.46	18.28	25.424	
2,600.00	2,565.21	2,525.52	2,473.04	9.88	11.67	-36.68	638.86	158.85	450.79	431.57	19.22	23.456	
2,660.67	2,620.37	2,583.07	2,529.32	10.25	11.95	-37.95	649.21	165.01	441.09	421.28	19.80	22.272	
2,700.00	2,655.96	2,618.72	2,564.14	10.50	12.13	-38.71	655.85	168.82	434.83	414.64	20.19	21.542	
2,800.00	2,746.43	2,713.05	2,656.14	11.15	12.61	-40.85	674.16	178.77	420.12	398.91	21.22	19.802	
2,900.00	2,836.90	2,829.50	2,769.95	11.82	13.19	-43.62	695.11	191.62	404.76	382.34	22.43	18.049	
3,000.00	2,927.37	2,922.64	2,861.18	12.50	13.64	-45.84	709.62	203.49	387.47	363.91	23.56	16.447	
3,100.00	3,017.85	3,015.98	2,952.42	13.21	14.10	-48.21	725.29	215.42	372.01	347.26	24.76	15.027	
3,200.00	3,108.32	3,111.01	3,044.97	13.92	14.59	-50.60	742.31	228.68	358.17	332.16	26.02	13.768	
3,300.00	3,198.79	3,203.46	3,134.71	14.64	15.07	-52.96	760.00	242.08	346.09	318.78	27.32	12.670	
3,400.00	3,289.27	3,309.47	3,238.05	15.38	15.62	-56.22	779.44	255.51	334.51	305.75	28.76	11.630	
3,500.00	3,379.74	3,400.74	3,327.12	16.12	16.08	-59.29	795.92	266.73	323.78	293.59	30.20	10.723	
3,600.00	3,470.21	3,490.36	3,414.35	16.87	16.54	-62.50	813.74	276.89	316.25	284.59	31.66	9.989	
3,700.00	3,560.68	3,598.03	3,519.19	17.62	17.10	-66.50	834.85	289.28	309.68	276.40	33.28	9.306	
3,800.00	3,651.16	3,690.01	3,608.53	18.39	17.58	-69.84	853.41	300.90	304.32	269.51	34.81	8.743	
3,900.00	3,741.63	3,791.18	3,706.81	19.15	18.12	-73.60	873.53	314.03	299.81	263.41	36.39	8.238	
4,000.00	3,832.10	3,885.46	3,798.46	19.92	18.61	-77.28	892.32	325.68	297.01	259.08	37.93	7.830	
4,091.19	3,914.61	3,973.42	3,883.38	20.62	19.10	-80.32	911.78	337.74	296.30	257.00	39.30	7.539	
4,100.00	3,922.57	3,981.83	3,891.48	20.69	19.14	-80.60	913.69	338.90	296.31	256.88	39.43	7.514	
4,200.00	4,013.05	4,077.46	3,984.19	21.47	19.66	-84.25	934.23	350.15	297.61	256.71	40.90	7.277	
4,300.00	4,103.52	4,175.24	4,079.28	22.25	20.17	-88.17	954.47	360.59	300.55	258.25	42.31	7.104	
4,400.00	4,193.99	4,273.85	4,175.40	23.03	20.67	-92.23	974.22	370.37	305.18	261.54	43.63	6.994	
4,500.00	4,284.47	4,378.54	4,277.82	23.81	21.19	-96.68	992.95	381.30	309.80	264.92	44.88	6.903	
4,600.00	4,374.94	4,476.97	4,374.26	24.60	21.67	-100.90	1,008.90	392.81	314.25	268.30	45.95	6.838	SF
4,700.00	4,465.41	4,569.26	4,464.94	25.39	22.09	-104.92	1,023.22	402.26	321.46	274.62	46.84	6.863	
4,800.00	4,555.88	4,661.77	4,556.34	26.18	22.49	-109.24	1,035.43	409.59	331.89	284.37	47.52	6.984	
4,900.00	4,646.36	4,752.50	4,646.46	26.97	22.85	-113.76	1,044.47	415.01	345.49	297.54	47.94	7.206	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
5,000.00	4,736.83	4,841.02	4,734.67	27.76	23.16	-118.25	1,050.98	418.42	363.04	314.92	48.12	7.544	
5,100.00	4,827.30	4,929.83	4,823.33	28.55	23.44	-122.67	1,055.55	420.48	384.33	336.19	48.14	7.984	
5,200.00	4,917.77	5,019.33	4,912.79	29.35	23.70	-127.03	1,057.71	421.68	408.95	360.92	48.03	8.514	
5,300.00	5,008.25	5,110.34	5,003.78	30.15	23.95	-131.11	1,059.03	422.79	436.09	388.17	47.92	9.101	
5,400.00	5,098.72	5,197.09	5,090.53	30.94	24.18	-134.71	1,059.17	423.65	465.64	417.90	47.75	9.753	
5,500.00	5,189.19	5,278.53	5,171.96	31.74	24.39	-137.67	1,059.56	423.05	498.44	450.86	47.57	10.477	
5,600.00	5,279.67	5,367.43	5,260.84	32.54	24.61	-140.47	1,060.44	421.38	533.50	485.89	47.61	11.206	
5,700.00	5,370.14	5,459.87	5,353.27	33.34	24.85	-143.04	1,061.39	419.71	569.57	521.80	47.77	11.922	
5,800.00	5,460.61	5,550.80	5,444.18	34.14	25.09	-145.30	1,062.07	418.39	606.33	558.36	47.97	12.640	
5,900.00	5,551.08	5,635.62	5,528.99	34.94	25.31	-147.22	1,062.27	416.97	644.20	596.08	48.12	13.386	
6,000.00	5,641.56	5,727.27	5,620.62	35.75	25.54	-149.09	1,062.27	415.19	683.04	634.61	48.43	14.104	
6,100.00	5,732.03	5,817.30	5,710.64	36.55	25.78	-150.72	1,062.42	413.56	722.26	673.49	48.77	14.811	
6,200.00	5,822.50	5,914.88	5,808.21	37.35	26.04	-152.30	1,062.84	412.12	761.58	712.32	49.26	15.461	
6,300.00	5,912.97	5,999.08	5,892.40	38.16	26.26	-153.54	1,063.27	411.10	801.04	751.44	49.59	16.152	
6,400.00	6,003.45	6,092.93	5,986.24	38.96	26.52	-154.80	1,063.49	409.65	841.23	791.13	50.10	16.793	
6,500.00	6,093.92	6,186.30	6,079.60	39.77	26.77	-155.97	1,063.65	408.88	881.16	830.55	50.61	17.411	
6,600.00	6,184.39	6,271.37	6,164.68	40.57	27.00	-156.93	1,063.87	408.07	921.44	870.40	51.04	18.054	
6,700.00	6,274.87	6,361.74	6,255.03	41.38	27.25	-157.86	1,064.13	406.67	962.39	910.82	51.57	18.663	
6,800.00	6,365.34	6,454.04	6,347.32	42.18	27.50	-158.74	1,064.30	405.60	1,003.28	951.15	52.13	19.245	
6,900.00	6,455.81	6,550.34	6,443.62	42.99	27.77	-159.63	1,063.96	405.16	1,044.10	991.35	52.75	19.793	
7,000.00	6,546.28	6,643.66	6,536.92	43.80	28.02	-160.52	1,062.67	406.04	1,084.58	1,031.26	53.32	20.342	
7,100.00	6,636.76	6,733.76	6,627.01	44.61	28.26	-161.32	1,061.39	406.98	1,125.19	1,071.32	53.86	20.890	
7,200.00	6,727.23	6,824.82	6,718.07	45.41	28.51	-162.05	1,060.51	407.64	1,165.97	1,111.53	54.44	21.417	
7,300.00	6,817.70	6,921.06	6,814.30	46.22	28.78	-162.75	1,059.99	408.31	1,206.70	1,151.59	55.10	21.899	
7,383.79	6,893.51	7,002.52	6,895.76	46.90	29.02	-163.29	1,060.01	409.10	1,240.49	1,184.80	55.68	22.278	
7,400.00	6,908.25	7,018.16	6,911.40	47.03	29.06	-166.31	1,060.10	409.24	1,246.88	1,191.09	55.79	22.348	
7,450.00	6,954.52	7,065.92	6,959.15	47.40	29.21	-177.02	1,060.50	409.61	1,265.08	1,208.93	56.14	22.533	
7,500.00	7,001.74	7,112.45	7,005.68	47.72	29.35	169.53	1,060.89	409.98	1,280.91	1,224.43	56.49	22.676	
7,550.00	7,049.55	7,162.32	7,055.54	47.99	29.50	153.18	1,061.25	410.39	1,294.28	1,237.41	56.88	22.756	
7,600.00	7,097.58	7,217.23	7,110.45	48.21	29.67	135.48	1,061.76	411.03	1,304.92	1,247.59	57.33	22.761	
7,650.00	7,145.48	7,272.67	7,165.88	48.37	29.84	119.30	1,062.36	411.98	1,312.74	1,254.94	57.80	22.713	
7,700.00	7,192.88	7,328.03	7,221.22	48.48	30.01	106.63	1,062.85	413.42	1,317.74	1,259.46	58.27	22.614	
7,750.00	7,239.41	7,373.20	7,266.37	48.54	30.15	97.44	1,063.12	414.80	1,320.15	1,261.50	58.65	22.509	
7,800.00	7,284.72	7,417.10	7,310.24	48.56	30.28	91.15	1,063.25	416.17	1,320.26	1,261.23	59.04	22.363	
7,850.00	7,328.47	7,461.49	7,354.61	48.54	30.42	87.04	1,063.42	417.50	1,318.18	1,258.72	59.46	22.170	
7,900.00	7,370.32	7,503.82	7,396.92	48.47	30.55	84.50	1,063.85	418.61	1,314.04	1,254.15	59.89	21.941	
7,950.00	7,409.96	7,544.75	7,437.84	48.37	30.68	83.13	1,064.47	419.59	1,308.08	1,247.73	60.35	21.675	
8,000.00	7,447.08	7,583.34	7,476.41	48.24	30.81	82.63	1,065.12	420.54	1,300.50	1,239.67	60.83	21.380	
8,050.00	7,481.41	7,618.82	7,511.88	48.07	30.92	82.78	1,065.77	421.43	1,291.60	1,230.28	61.32	21.063	
8,100.00	7,512.67	7,649.45	7,542.50	47.87	31.02	83.33	1,066.28	422.23	1,281.67	1,219.86	61.81	20.735	
8,150.00	7,540.64	7,677.26	7,570.29	47.65	31.11	84.24	1,066.70	422.99	1,271.03	1,208.70	62.33	20.393	
8,200.00	7,565.09	7,701.62	7,594.64	47.40	31.19	85.37	1,067.02	423.68	1,259.94	1,197.08	62.86	20.044	
8,250.00	7,585.85	7,719.03	7,612.04	47.14	31.24	86.49	1,067.23	424.17	1,248.72	1,185.35	63.37	19.705	
8,300.00	7,602.75	7,732.99	7,626.00	46.86	31.29	87.65	1,067.38	424.53	1,237.66	1,173.76	63.90	19.368	
8,350.00	7,615.67	7,743.61	7,636.61	46.58	31.32	88.79	1,067.48	424.79	1,226.98	1,162.54	64.44	19.039	
8,400.00	7,624.51	7,750.79	7,643.79	46.28	31.34	89.86	1,067.54	424.96	1,216.88	1,151.88	64.99	18.723	
8,450.00	7,629.19	7,754.45	7,647.45	45.98	31.35	90.82	1,067.57	425.04	1,207.51	1,141.97	65.54	18.423	
8,481.00	7,630.00	7,754.92	7,647.91	45.79	31.35	91.35	1,067.58	425.05	1,202.13	1,136.26	65.88	18.248	
8,500.00	7,630.00	7,754.78	7,647.78	45.68	31.35	91.34	1,067.58	425.04	1,199.09	1,133.01	66.08	18.146	
8,600.00	7,630.00	7,754.05	7,647.05	45.11	31.35	91.31	1,067.57	425.03	1,187.98	1,120.83	67.14	17.693	
8,682.68	7,630.00	7,753.45	7,646.44	44.66	31.35	91.28	1,067.57	425.01	1,185.10	1,117.11	67.99	17.430	
8,700.00	7,630.00	7,753.32	7,646.31	44.56	31.35	91.27	1,067.56	425.01	1,185.22	1,117.07	68.15	17.390	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
8,800.00	7,630.00	7,752.57	7,645.57	44.05	31.35	91.24	1,067.56	425.00	1,190.89	1,121.82	69.07	17.242	
8,900.00	7,630.00	7,751.81	7,644.81	43.57	31.34	91.20	1,067.55	424.98	1,204.86	1,135.00	69.86	17.246	
9,000.00	7,630.00	7,751.05	7,644.04	43.12	31.34	91.16	1,067.54	424.96	1,226.84	1,156.33	70.51	17.400	
9,100.00	7,630.00	7,750.27	7,643.27	42.70	31.34	91.12	1,067.54	424.94	1,256.42	1,185.42	71.01	17.694	
9,200.00	7,630.00	7,749.48	7,642.48	42.31	31.34	91.09	1,067.53	424.93	1,293.08	1,221.72	71.36	18.121	
9,300.00	7,630.00	7,748.68	7,641.68	41.94	31.33	91.05	1,067.52	424.91	1,336.23	1,264.66	71.58	18.669	
9,400.00	7,630.00	7,747.87	7,640.87	41.59	31.33	91.01	1,067.52	424.89	1,385.27	1,313.59	71.68	19.326	
9,500.00	7,630.00	7,747.05	7,640.05	41.26	31.33	90.97	1,067.51	424.87	1,439.59	1,367.90	71.69	20.081	
9,600.00	7,630.00	7,746.21	7,639.21	40.96	31.33	90.93	1,067.50	424.85	1,498.63	1,427.01	71.62	20.924	
9,700.00	7,630.00	7,745.37	7,638.37	40.68	31.32	90.89	1,067.49	424.83	1,561.84	1,490.34	71.49	21.845	
9,800.00	7,630.00	7,744.51	7,637.51	40.42	31.32	90.85	1,067.49	424.81	1,628.74	1,557.41	71.33	22.835	
9,900.00	7,630.00	7,743.64	7,636.64	40.17	31.32	90.80	1,067.48	424.79	1,698.89	1,627.76	71.13	23.885	
10,000.00	7,630.00	7,742.75	7,635.75	39.96	31.32	90.76	1,067.47	424.77	1,771.91	1,701.00	70.91	24.988	
10,100.00	7,630.00	7,741.86	7,634.86	40.05	31.31	90.72	1,067.46	424.75	1,847.46	1,776.78	70.68	26.138	
10,200.00	7,630.00	7,740.95	7,633.95	40.95	31.31	90.67	1,067.45	424.73	1,925.24	1,854.80	70.45	27.329	
10,300.00	7,630.00	7,740.03	7,633.03	41.94	31.31	90.63	1,067.44	424.70	2,004.99	1,934.78	70.21	28.557	
10,400.00	7,630.00	7,739.09	7,632.09	42.98	31.30	90.58	1,067.44	424.68	2,086.49	2,016.51	69.98	29.816	
10,500.00	7,630.00	7,738.14	7,631.14	44.06	31.30	90.54	1,067.43	424.66	2,169.53	2,099.78	69.75	31.104	
10,600.00	7,630.00	7,737.17	7,630.17	45.17	31.30	90.49	1,067.42	424.63	2,253.95	2,184.42	69.53	32.417	
10,700.00	7,630.00	7,736.19	7,629.19	46.32	31.30	90.44	1,067.41	424.61	2,339.60	2,270.29	69.32	33.752	
10,800.00	7,630.00	7,735.20	7,628.20	47.50	31.29	90.40	1,067.40	424.59	2,426.35	2,357.24	69.11	35.106	
10,900.00	7,630.00	7,734.18	7,627.19	48.70	31.29	90.35	1,067.39	424.56	2,514.08	2,445.16	68.92	36.478	
11,000.00	7,630.00	7,733.16	7,626.16	49.94	31.29	90.30	1,067.38	424.53	2,602.70	2,533.96	68.73	37.866	
11,100.00	7,630.00	7,732.11	7,625.12	51.20	31.28	90.25	1,067.37	424.51	2,692.11	2,623.55	68.56	39.268	
11,200.00	7,630.00	7,731.05	7,624.06	52.48	31.28	90.20	1,067.36	424.48	2,782.24	2,713.85	68.39	40.682	
11,300.00	7,630.00	7,729.97	7,622.98	53.79	31.28	90.14	1,067.35	424.45	2,873.03	2,804.80	68.23	42.107	
11,400.00	7,630.00	7,728.88	7,621.88	55.12	31.27	90.09	1,067.33	424.43	2,964.41	2,896.33	68.08	43.542	
11,500.00	7,630.00	7,727.77	7,620.77	56.46	31.27	90.04	1,067.32	424.40	3,056.33	2,988.39	67.94	44.986	
11,600.00	7,630.00	7,726.63	7,619.64	57.83	31.27	89.98	1,067.31	424.37	3,148.74	3,080.93	67.81	46.437	
11,700.00	7,630.00	7,725.48	7,618.49	59.22	31.26	89.93	1,067.30	424.34	3,241.60	3,173.92	67.68	47.896	
11,800.00	7,630.00	7,724.31	7,617.32	60.62	31.26	89.87	1,067.29	424.31	3,334.87	3,267.31	67.56	49.361	
11,900.00	7,630.00	7,723.12	7,616.13	62.04	31.25	89.81	1,067.27	424.28	3,428.52	3,361.08	67.45	50.832	
12,000.00	7,630.00	7,721.91	7,614.92	63.48	31.25	89.75	1,067.26	424.25	3,522.53	3,455.18	67.34	52.308	
12,100.00	7,630.00	7,720.68	7,613.69	64.93	31.25	89.70	1,067.25	424.21	3,616.85	3,549.61	67.24	53.788	
12,200.00	7,630.00	7,719.43	7,612.44	66.39	31.24	89.63	1,067.23	424.18	3,711.47	3,644.32	67.15	55.272	
12,300.00	7,630.00	7,721.70	7,614.70	67.86	31.25	89.74	1,067.26	424.27	3,806.35	3,739.29	67.06	56.760	
12,400.00	7,630.00	7,720.11	7,613.12	69.35	31.25	89.67	1,067.24	424.22	3,901.50	3,834.53	66.98	58.250	
12,500.00	7,630.00	7,718.49	7,611.50	70.85	31.24	89.59	1,067.22	424.17	3,996.89	3,929.99	66.90	59.744	
12,600.00	7,630.00	7,716.84	7,609.85	72.36	31.24	89.51	1,067.21	424.13	4,092.50	4,025.67	66.83	61.239	
12,700.00	7,630.00	7,715.16	7,608.17	73.88	31.23	89.43	1,067.19	424.08	4,188.31	4,121.55	66.76	62.737	
12,800.00	7,630.00	7,713.44	7,606.45	75.41	31.22	89.35	1,067.17	424.03	4,284.31	4,217.61	66.70	64.237	
12,900.00	7,630.00	7,711.69	7,604.70	76.95	31.22	89.26	1,067.15	423.98	4,380.49	4,313.85	66.64	65.737	
13,000.00	7,630.00	7,709.90	7,602.92	78.49	31.21	89.17	1,067.12	423.92	4,476.84	4,410.26	66.58	67.239	
13,100.00	7,630.00	7,708.08	7,601.09	80.05	31.21	89.09	1,067.10	423.87	4,573.34	4,506.81	66.53	68.742	
13,200.00	7,630.00	7,706.22	7,599.23	81.61	31.20	89.00	1,067.08	423.82	4,669.99	4,603.51	66.48	70.245	
13,300.00	7,630.00	7,704.32	7,597.33	83.18	31.20	88.91	1,067.06	423.76	4,766.78	4,700.34	66.44	71.749	
13,400.00	7,630.00	7,702.38	7,595.39	84.76	31.19	88.81	1,067.03	423.70	4,863.69	4,797.30	66.40	73.253	
13,500.00	7,630.00	7,700.39	7,593.41	86.34	31.18	88.72	1,067.01	423.65	4,960.73	4,894.38	66.36	74.758	
13,600.00	7,630.00	7,698.37	7,591.38	87.94	31.18	88.62	1,066.98	423.59	5,057.89	4,991.57	66.32	76.262	
13,700.00	7,630.00	7,696.30	7,589.32	89.53	31.17	88.52	1,066.96	423.53	5,155.15	5,088.86	66.29	77.765	
13,800.00	7,630.00	7,694.18	7,587.20	91.13	31.16	88.42	1,066.93	423.47	5,252.52	5,186.25	66.26	79.269	
13,900.00	7,630.00	7,692.02	7,585.04	92.74	31.16	88.31	1,066.90	423.41	5,349.98	5,283.74	66.24	80.772	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
14,000.00	7,630.00	7,689.80	7,582.82	94.35	31.15	88.21	1,066.87	423.34	5,447.53	5,381.32	66.21	82.274	
14,100.00	7,630.00	7,687.54	7,580.56	95.97	31.14	88.10	1,066.84	423.28	5,545.17	5,478.98	66.19	83.775	
14,200.00	7,630.00	7,685.22	7,578.25	97.60	31.13	87.98	1,066.81	423.22	5,642.89	5,576.72	66.17	85.275	
14,300.00	7,630.00	7,682.85	7,575.88	99.22	31.13	87.87	1,066.78	423.15	5,740.69	5,674.53	66.16	86.774	
14,400.00	7,630.00	7,680.42	7,573.45	100.85	31.12	87.75	1,066.75	423.08	5,838.56	5,772.42	66.14	88.272	
14,500.00	7,630.00	7,677.94	7,570.96	102.49	31.11	87.63	1,066.71	423.01	5,936.51	5,870.38	66.13	89.769	
14,600.00	7,630.00	7,675.39	7,568.42	104.13	31.10	87.51	1,066.67	422.94	6,034.52	5,968.40	66.12	91.264	
14,700.00	7,630.00	7,672.78	7,565.81	105.77	31.09	87.39	1,066.64	422.87	6,132.59	6,066.48	66.11	92.758	
14,800.00	7,630.00	7,670.10	7,563.14	107.42	31.09	87.26	1,066.60	422.79	6,230.73	6,164.62	66.11	94.250	
14,900.00	7,630.00	7,667.36	7,560.40	109.07	31.08	87.13	1,066.56	422.72	6,328.92	6,262.81	66.11	95.740	
15,000.00	7,630.00	7,664.55	7,557.58	110.72	31.07	86.99	1,066.52	422.64	6,427.17	6,361.06	66.10	97.228	
15,100.00	7,630.00	7,661.66	7,554.70	112.38	31.06	86.85	1,066.47	422.56	6,525.47	6,459.36	66.10	98.715	
15,200.00	7,630.00	7,658.70	7,551.74	114.04	31.05	86.71	1,066.43	422.48	6,623.82	6,557.71	66.11	100.199	
15,300.00	7,630.00	7,655.66	7,548.70	115.71	31.04	86.56	1,066.38	422.40	6,722.22	6,656.11	66.11	101.682	
15,400.00	7,630.00	7,652.54	7,545.58	117.37	31.03	86.41	1,066.33	422.31	6,820.66	6,754.55	66.12	103.162	
15,500.00	7,630.00	7,649.33	7,542.37	119.04	31.02	86.26	1,066.28	422.23	6,919.15	6,853.03	66.12	104.641	
15,600.00	7,630.00	7,646.03	7,539.08	120.71	31.01	86.10	1,066.23	422.14	7,017.68	6,951.55	66.13	106.116	
15,700.00	7,630.00	7,642.64	7,535.69	122.39	31.00	85.94	1,066.17	422.05	7,116.25	7,050.11	66.14	107.590	
15,800.00	7,630.00	7,639.16	7,532.21	124.06	30.99	85.77	1,066.12	421.96	7,214.86	7,148.71	66.15	109.061	
15,900.00	7,630.00	7,635.57	7,528.62	125.74	30.97	85.60	1,066.06	421.86	7,313.51	7,247.34	66.17	110.530	
16,000.00	7,630.00	7,631.88	7,524.93	127.42	30.96	85.42	1,065.99	421.77	7,412.19	7,346.00	66.18	111.996	
16,100.00	7,630.00	7,628.07	7,521.13	129.10	30.95	85.24	1,065.93	421.67	7,510.90	7,444.70	66.20	113.459	
16,200.00	7,630.00	7,624.16	7,517.21	130.79	30.94	85.06	1,065.86	421.57	7,609.65	7,543.43	66.22	114.920	
16,300.00	7,630.00	7,620.12	7,513.17	132.48	30.92	84.86	1,065.79	421.46	7,708.43	7,642.19	66.24	116.378	
16,400.00	7,630.00	7,615.95	7,509.01	134.17	30.91	84.66	1,065.71	421.35	7,807.24	7,740.98	66.26	117.833	
16,500.00	7,630.00	7,611.66	7,504.72	135.86	30.90	84.46	1,065.63	421.25	7,906.08	7,839.80	66.28	119.286	
16,600.00	7,630.00	7,609.00	7,502.06	137.55	30.89	84.33	1,065.58	421.18	8,004.95	7,938.64	66.30	120.736	
16,700.00	7,630.00	7,609.00	7,502.06	139.24	30.89	84.33	1,065.58	421.18	8,103.84	8,037.52	66.32	122.185	
16,800.00	7,630.00	7,609.00	7,502.06	140.94	30.89	84.33	1,065.58	421.18	8,202.76	8,136.41	66.35	123.631	
16,900.00	7,630.00	7,604.14	7,497.21	142.64	30.87	84.10	1,065.49	421.06	8,301.71	8,235.33	66.38	125.071	
17,000.00	7,630.00	7,602.73	7,495.80	144.34	30.87	84.04	1,065.47	421.02	8,400.68	8,334.27	66.40	126.510	
17,100.00	7,630.00	7,601.33	7,494.40	146.04	30.86	83.97	1,065.44	420.98	8,499.67	8,433.24	66.43	127.946	
17,200.00	7,630.00	7,599.94	7,493.00	147.74	30.86	83.90	1,065.42	420.95	8,598.69	8,532.23	66.46	129.379	
17,300.00	7,630.00	7,598.55	7,491.62	149.44	30.86	83.84	1,065.39	420.92	8,697.73	8,631.24	66.49	130.809	
17,400.00	7,630.00	7,597.18	7,490.24	151.15	30.85	83.77	1,065.37	420.88	8,796.79	8,730.27	66.52	132.235	
17,500.00	7,630.00	7,595.81	7,488.88	152.86	30.85	83.71	1,065.34	420.85	8,895.87	8,829.31	66.56	133.659	
17,600.00	7,630.00	7,594.45	7,487.52	154.56	30.84	83.64	1,065.32	420.81	8,994.97	8,928.38	66.59	135.079	
17,700.00	7,630.00	7,593.10	7,486.17	156.27	30.84	83.58	1,065.29	420.78	9,094.09	9,027.47	66.63	136.495	
17,800.00	7,630.00	7,591.75	7,484.83	157.98	30.83	83.51	1,065.27	420.75	9,193.23	9,126.57	66.66	137.909	
17,900.00	7,630.00	7,590.42	7,483.49	159.70	30.83	83.45	1,065.24	420.71	9,292.39	9,225.69	66.70	139.319	
18,000.00	7,630.00	7,589.09	7,482.16	161.41	30.83	83.39	1,065.22	420.68	9,391.57	9,324.83	66.74	140.725	
18,100.00	7,630.00	7,587.77	7,480.85	163.12	30.82	83.33	1,065.20	420.65	9,490.76	9,423.98	66.78	142.129	
18,154.00	7,630.00	7,587.06	7,480.14	164.05	30.82	83.29	1,065.18	420.63	9,544.34	9,477.54	66.80	142.885	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-6.16	217.84	-23.52	219.34				
100.00	100.00	89.01	89.01	0.13	0.14	-6.16	218.04	-23.53	219.31	219.03	0.28	784.952	
200.00	200.00	188.48	188.48	0.49	0.41	-6.16	218.67	-23.60	219.95	219.05	0.90	244.880	
300.00	300.00	288.23	288.23	0.85	0.76	-6.19	219.38	-23.78	220.67	219.06	1.61	136.719	
400.00	400.00	391.30	391.29	1.21	1.12	-6.14	219.76	-23.63	221.03	218.70	2.33	94.782	
500.00	500.00	498.61	498.56	1.57	1.49	-5.71	217.64	-21.78	218.90	215.84	3.06	71.611	
600.00	600.00	605.25	604.95	1.93	1.86	-4.62	212.23	-17.17	213.44	209.66	3.79	56.379	
700.00	700.00	711.51	710.53	2.29	2.26	-2.54	203.55	-9.04	204.78	200.26	4.52	45.267	
800.00	800.00	815.43	813.15	2.64	2.67	0.88	192.44	2.95	193.85	188.58	5.27	36.771	
900.00	900.00	917.89	913.49	3.00	3.12	5.90	178.66	18.45	181.14	175.09	6.05	29.944	
1,000.00	1,000.00	1,015.87	1,008.80	3.36	3.59	12.29	163.91	35.72	168.81	161.95	6.86	24.601	
1,100.00	1,100.00	1,115.34	1,105.30	3.72	4.08	20.00	148.16	53.93	158.41	150.68	7.73	20.497	
1,200.00	1,200.00	1,210.63	1,197.71	4.08	4.57	28.27	132.80	71.43	150.99	142.38	8.61	17.528	
1,300.00	1,300.00	1,309.16	1,293.65	4.44	5.08	36.79	117.89	88.16	147.25	137.75	9.50	15.496	
1,383.46	1,383.46	1,390.97	1,373.46	4.74	5.49	43.81	105.52	101.23	146.23	136.00	10.22	14.302	CC
1,400.00	1,400.00	1,407.21	1,389.30	4.79	5.57	45.20	103.07	103.78	146.27	135.90	10.37	14.111	
1,500.00	1,499.98	1,504.15	1,483.75	5.15	6.07	16.02	87.99	119.58	146.92	135.73	11.19	13.128	ES
1,600.00	1,599.84	1,600.76	1,577.55	5.51	6.58	25.38	71.94	136.24	148.25	136.29	11.96	12.395	
1,700.00	1,699.45	1,697.01	1,670.97	5.87	7.10	35.00	56.05	153.11	151.11	138.46	12.65	11.947	
1,800.00	1,798.70	1,794.02	1,765.32	6.23	7.62	44.62	40.76	169.72	155.54	142.28	13.26	11.727	
1,900.00	1,897.47	1,891.61	1,860.42	6.60	8.12	54.31	25.82	185.75	161.58	147.75	13.83	11.687	SF
2,000.00	1,995.62	1,990.51	1,957.24	6.99	8.62	63.83	12.07	200.45	168.73	154.35	14.39	11.730	
2,100.00	2,093.06	2,088.56	2,053.62	7.39	9.09	72.93	0.12	213.92	177.58	162.61	14.97	11.864	
2,200.00	2,189.64	2,183.35	2,146.97	7.82	9.54	81.97	-11.78	225.31	188.94	173.34	15.59	12.117	
2,300.00	2,285.27	2,271.27	2,233.24	8.28	9.96	90.28	-24.53	236.38	206.65	190.39	16.26	12.708	
2,400.00	2,379.82	2,357.76	2,317.66	8.77	10.41	97.79	-38.81	248.62	231.99	214.96	17.03	13.623	
2,500.00	2,473.17	2,447.90	2,405.50	9.31	10.88	104.52	-53.82	262.23	263.02	245.08	17.95	14.656	
2,600.00	2,565.21	2,538.29	2,493.64	9.88	11.35	110.16	-67.94	276.43	298.02	279.09	18.93	15.742	
2,660.67	2,620.37	2,590.90	2,544.92	10.25	11.63	112.97	-75.89	285.11	321.17	301.65	19.53	16.449	
2,700.00	2,655.96	2,625.43	2,578.55	10.50	11.81	114.92	-81.07	291.01	336.87	316.95	19.92	16.912	
2,800.00	2,746.43	2,717.82	2,668.59	11.15	12.30	119.33	-94.17	307.06	377.52	356.56	20.96	18.007	
2,900.00	2,836.90	2,806.10	2,754.67	11.82	12.76	122.70	-106.11	322.55	419.13	397.17	21.95	19.090	
3,000.00	2,927.37	2,889.29	2,835.82	12.50	13.19	125.44	-117.93	336.48	462.22	439.34	22.88	20.205	
3,100.00	3,017.85	2,974.69	2,919.15	13.21	13.64	127.91	-130.86	350.05	506.85	483.04	23.81	21.288	
3,200.00	3,108.32	3,059.06	3,001.36	13.92	14.09	129.96	-143.96	363.68	552.54	527.81	24.72	22.349	
3,300.00	3,198.79	3,146.10	3,086.13	14.64	14.55	131.75	-157.76	377.85	599.05	573.39	25.66	23.346	
3,400.00	3,289.27	3,241.52	3,179.25	15.38	15.04	133.51	-172.44	392.62	645.52	618.85	26.68	24.197	
3,500.00	3,379.74	3,331.71	3,267.40	16.12	15.51	134.91	-185.19	406.79	691.24	663.61	27.63	25.015	
3,600.00	3,470.21	3,416.62	3,350.41	16.87	15.94	136.10	-197.37	419.87	737.42	708.89	28.53	25.848	
3,700.00	3,560.68	3,503.77	3,435.55	17.62	16.39	137.17	-210.17	433.38	784.13	754.69	29.44	26.631	
3,800.00	3,651.16	3,592.82	3,522.61	18.39	16.85	138.16	-223.06	446.97	830.86	800.49	30.38	27.352	
3,900.00	3,741.63	3,686.12	3,613.87	19.15	17.32	139.09	-236.39	461.05	877.61	846.26	31.35	27.997	
4,000.00	3,832.10	3,778.28	3,704.25	19.92	17.78	139.97	-248.60	474.29	923.57	891.27	32.30	28.596	
4,100.00	3,922.57	3,858.78	3,783.03	20.69	18.19	140.62	-259.64	486.60	970.07	936.94	33.14	29.274	
4,200.00	4,013.05	3,944.34	3,866.49	21.47	18.63	141.17	-272.06	500.83	1,017.33	983.29	34.04	29.887	
4,300.00	4,103.52	4,051.30	3,971.11	22.25	19.18	141.83	-286.09	518.08	1,063.38	1,028.23	35.15	30.251	
4,400.00	4,193.99	4,129.25	4,047.35	23.03	19.58	142.26	-296.10	530.85	1,109.34	1,073.36	35.98	30.836	
4,500.00	4,284.47	4,186.82	4,103.43	23.81	19.89	142.53	-304.66	540.58	1,157.09	1,120.50	36.59	31.623	
4,600.00	4,374.94	4,270.72	4,184.94	24.60	20.34	142.90	-318.75	554.65	1,206.57	1,169.09	37.48	32.193	
4,700.00	4,465.41	4,373.12	4,284.99	25.39	20.86	143.45	-334.72	569.40	1,255.22	1,216.69	38.54	32.573	
4,800.00	4,555.88	4,506.22	4,416.24	26.18	21.47	144.38	-351.98	583.16	1,302.02	1,262.21	39.81	32.709	
4,900.00	4,646.36	4,617.96	4,527.09	26.97	21.92	145.25	-363.07	591.83	1,346.44	1,305.63	40.82	32.988	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,736.83	4,728.81	4,637.36	27.76	22.34	146.13	-372.04	598.64	1,389.59	1,347.81	41.78	33.262	
5,100.00	4,827.30	4,845.64	4,753.84	28.55	22.75	147.08	-379.21	603.97	1,431.36	1,388.62	42.74	33.490	
5,200.00	4,917.77	4,935.20	4,843.27	29.35	23.05	147.84	-383.39	606.38	1,472.27	1,428.78	43.49	33.852	
5,300.00	5,008.25	5,016.65	4,924.61	30.15	23.30	148.54	-387.40	607.71	1,513.77	1,469.59	44.18	34.267	
5,400.00	5,098.72	5,092.11	4,999.96	30.94	23.53	149.18	-391.44	608.01	1,556.06	1,511.25	44.81	34.729	
5,500.00	5,189.19	5,500.00	5,115.54	31.74	24.77	150.13	-397.36	608.35	1,598.41	1,551.85	46.55	34.336	
5,600.00	5,279.67	5,352.68	5,260.33	32.54	24.29	151.26	-399.85	608.77	1,637.60	1,590.92	46.68	35.080	
5,700.00	5,370.14	5,448.61	5,356.26	33.34	24.53	152.01	-400.03	608.11	1,676.18	1,628.80	47.39	35.372	
5,800.00	5,460.61	5,535.39	5,443.03	34.14	24.75	152.67	-400.17	607.26	1,715.02	1,666.98	48.04	35.701	
5,900.00	5,551.08	5,628.19	5,535.82	34.94	24.98	153.35	-400.26	606.20	1,754.04	1,705.33	48.72	36.005	
6,000.00	5,641.56	5,718.24	5,625.87	35.75	25.20	153.98	-400.31	605.20	1,793.22	1,743.84	49.38	36.315	
6,100.00	5,732.03	5,810.73	5,718.35	36.55	25.44	154.59	-400.34	604.33	1,832.51	1,782.46	50.06	36.609	
6,200.00	5,822.50	5,902.76	5,810.38	37.35	25.67	155.18	-400.28	603.53	1,871.89	1,821.16	50.73	36.899	
6,300.00	5,912.97	5,997.19	5,904.81	38.16	25.91	155.76	-400.05	602.64	1,911.27	1,859.86	51.41	37.174	
6,400.00	6,003.45	6,084.11	5,991.72	38.96	26.13	156.28	-399.79	601.68	1,950.81	1,898.75	52.06	37.474	
6,500.00	6,093.92	6,177.86	6,085.46	39.77	26.37	156.82	-399.45	600.50	1,990.47	1,937.74	52.74	37.745	
6,600.00	6,184.39	6,273.06	6,180.65	40.57	26.62	157.35	-398.90	599.30	2,030.08	1,976.66	53.42	38.003	
6,700.00	6,274.87	6,364.70	6,272.29	41.38	26.86	157.83	-398.29	598.37	2,069.69	2,015.60	54.09	38.265	
6,800.00	6,365.34	6,452.58	6,360.16	42.18	27.09	158.28	-397.76	597.54	2,109.44	2,054.70	54.74	38.536	
6,900.00	6,455.81	6,540.49	6,448.06	42.99	27.32	158.71	-397.31	596.64	2,149.41	2,094.02	55.39	38.806	
7,000.00	6,546.28	6,634.70	6,542.27	43.80	27.57	159.15	-396.92	595.98	2,189.48	2,133.40	56.08	39.043	
7,100.00	6,636.76	6,721.79	6,629.36	44.61	27.81	159.53	-396.63	595.71	2,229.60	2,172.87	56.73	39.300	
7,200.00	6,727.23	6,807.42	6,714.99	45.41	28.05	159.89	-396.56	595.55	2,269.99	2,212.61	57.39	39.557	
7,300.00	6,817.70	6,889.08	6,796.65	46.22	28.30	160.21	-396.83	595.65	2,310.71	2,252.68	58.03	39.822	
7,383.79	6,893.51	6,960.13	6,867.69	46.90	28.51	160.47	-397.43	596.01	2,345.15	2,286.57	58.59	40.029	
7,400.00	6,908.25	6,974.75	6,882.32	47.03	28.56	157.92	-397.57	596.10	2,351.63	2,292.93	58.70	40.063	
7,450.00	6,954.52	7,020.71	6,928.27	47.40	28.70	148.49	-398.02	596.41	2,369.13	2,310.08	59.05	40.122	
7,500.00	7,001.74	7,063.62	6,971.18	47.72	28.84	136.06	-398.50	596.74	2,382.82	2,323.44	59.37	40.133	
7,550.00	7,049.55	7,107.41	7,014.96	47.99	28.98	120.49	-399.08	597.12	2,392.64	2,332.95	59.69	40.083	
7,600.00	7,097.58	7,151.37	7,058.92	48.21	29.12	103.30	-399.76	597.52	2,398.55	2,338.55	60.00	39.976	
7,650.00	7,145.48	7,195.24	7,102.77	48.37	29.25	87.41	-400.49	597.86	2,400.52	2,340.23	60.29	39.816	
7,700.00	7,192.88	7,242.98	7,150.51	48.48	29.41	74.85	-401.34	598.22	2,398.53	2,337.94	60.59	39.587	
7,750.00	7,239.41	7,291.00	7,198.52	48.54	29.56	65.78	-402.18	598.60	2,392.56	2,331.68	60.87	39.305	
7,800.00	7,284.72	7,337.74	7,245.25	48.56	29.71	59.50	-402.98	599.00	2,382.66	2,321.53	61.13	38.975	
7,850.00	7,328.47	7,382.93	7,290.43	48.54	29.85	55.30	-403.74	599.41	2,368.96	2,307.59	61.37	38.601	
7,900.00	7,370.32	7,428.78	7,336.28	48.47	30.00	52.67	-404.49	599.85	2,351.56	2,289.96	61.60	38.172	
7,950.00	7,409.96	7,472.79	7,380.28	48.37	30.14	51.23	-405.14	600.31	2,330.60	2,268.79	61.82	37.701	
8,000.00	7,447.08	7,520.63	7,428.11	48.24	30.30	50.87	-405.74	600.88	2,306.24	2,244.19	62.06	37.164	
8,050.00	7,481.41	7,567.00	7,474.47	48.07	30.45	51.44	-406.14	601.60	2,278.61	2,216.33	62.28	36.585	
8,100.00	7,512.67	7,596.97	7,504.44	47.87	30.54	52.59	-406.32	602.11	2,248.06	2,185.66	62.40	36.026	
8,150.00	7,540.64	7,619.93	7,527.39	47.65	30.61	54.45	-406.45	602.37	2,214.99	2,152.52	62.47	35.454	
8,200.00	7,565.09	7,639.99	7,547.46	47.40	30.68	57.11	-406.58	602.51	2,179.68	2,117.15	62.54	34.854	
8,250.00	7,585.85	7,657.04	7,564.50	47.14	30.73	60.62	-406.69	602.55	2,142.40	2,079.80	62.59	34.228	
8,300.00	7,602.75	7,672.00	7,579.46	46.86	30.78	65.10	-406.78	602.54	2,103.40	2,040.76	62.65	33.576	
8,350.00	7,615.67	7,682.35	7,589.81	46.58	30.81	70.49	-406.85	602.51	2,063.00	2,000.31	62.68	32.911	
8,400.00	7,624.51	7,690.30	7,597.77	46.28	30.83	76.89	-406.91	602.47	2,021.47	1,958.74	62.73	32.226	
8,450.00	7,629.19	7,694.67	7,602.13	45.98	30.84	84.17	-406.94	602.45	1,979.12	1,916.35	62.77	31.529	
8,481.00	7,630.00	7,695.56	7,603.02	45.79	30.85	89.03	-406.94	602.45	1,952.59	1,889.79	62.80	31.092	
8,500.00	7,630.00	7,695.67	7,603.14	45.68	30.85	89.04	-406.94	602.45	1,936.31	1,873.50	62.82	30.824	
8,600.00	7,630.00	7,696.29	7,603.75	45.11	30.85	89.07	-406.95	602.44	1,851.49	1,788.56	62.92	29.426	
8,700.00	7,630.00	7,696.90	7,604.36	44.56	30.85	89.11	-406.95	602.44	1,768.24	1,705.19	63.05	28.045	
8,800.00	7,630.00	7,697.52	7,604.98	44.05	30.85	89.14	-406.96	602.44	1,686.82	1,623.61	63.21	26.686	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
8,900.00	7,630.00	7,698.14	7,605.60	43.57	30.85	89.18	-406.96	602.43	1,607.50	1,544.09	63.41	25.352	
9,000.00	7,630.00	7,698.76	7,606.22	43.12	30.85	89.21	-406.96	602.43	1,530.60	1,466.95	63.65	24.049	
9,100.00	7,630.00	7,699.38	7,606.84	42.70	30.86	89.25	-406.97	602.43	1,456.50	1,392.57	63.93	22.781	
9,200.00	7,630.00	7,700.01	7,607.47	42.31	30.86	89.28	-406.97	602.42	1,385.67	1,321.39	64.28	21.557	
9,300.00	7,630.00	7,700.64	7,608.10	41.94	30.86	89.32	-406.98	602.42	1,318.62	1,253.94	64.69	20.385	
9,400.00	7,630.00	7,701.27	7,608.73	41.59	30.86	89.36	-406.98	602.42	1,255.96	1,190.80	65.16	19.276	
9,500.00	7,630.00	7,701.90	7,609.37	41.26	30.86	89.39	-406.99	602.41	1,198.38	1,132.69	65.69	18.242	
9,600.00	7,630.00	7,702.54	7,610.00	40.96	30.87	89.43	-406.99	602.41	1,146.64	1,080.35	66.29	17.298	
9,700.00	7,630.00	7,703.18	7,610.64	40.68	30.87	89.47	-407.00	602.40	1,101.57	1,034.65	66.93	16.460	
9,800.00	7,630.00	7,703.82	7,611.28	40.42	30.87	89.50	-407.00	602.40	1,064.02	996.44	67.58	15.744	
9,900.00	7,630.00	7,704.46	7,611.93	40.17	30.87	89.54	-407.00	602.40	1,034.80	966.58	68.22	15.168	
10,000.00	7,630.00	7,705.11	7,612.57	39.96	30.87	89.58	-407.01	602.39	1,014.63	945.82	68.81	14.745	
10,100.00	7,630.00	7,705.76	7,613.22	40.05	30.88	89.61	-407.01	602.39	1,004.07	934.76	69.31	14.487	
10,156.65	7,630.00	7,706.13	7,613.59	40.50	30.88	89.63	-407.02	602.39	1,002.47	932.93	69.54	14.415	
10,200.00	7,630.00	7,706.41	7,613.87	40.95	30.88	89.65	-407.02	602.38	1,003.41	933.72	69.68	14.400	
10,300.00	7,630.00	7,707.07	7,614.53	41.94	30.88	89.69	-407.02	602.38	1,012.66	942.75	69.92	14.484	
10,400.00	7,630.00	7,707.72	7,615.18	42.98	30.88	89.72	-407.03	602.38	1,031.58	961.56	70.02	14.733	
10,500.00	7,630.00	7,708.38	7,615.84	44.06	30.88	89.76	-407.03	602.37	1,059.63	989.64	70.00	15.138	
10,600.00	7,630.00	7,709.04	7,616.51	45.17	30.89	89.80	-407.04	602.37	1,096.13	1,026.25	69.87	15.687	
10,700.00	7,630.00	7,709.71	7,617.17	46.32	30.89	89.84	-407.04	602.36	1,140.24	1,070.56	69.68	16.364	
10,800.00	7,630.00	7,710.38	7,617.84	47.50	30.89	89.88	-407.05	602.36	1,191.14	1,121.71	69.43	17.155	
10,900.00	7,630.00	7,711.05	7,618.51	48.70	30.89	89.91	-407.05	602.35	1,247.99	1,178.83	69.16	18.045	
11,000.00	7,630.00	7,711.72	7,619.18	49.94	30.89	89.95	-407.06	602.35	1,310.02	1,241.14	68.88	19.020	
11,100.00	7,630.00	7,712.39	7,619.86	51.20	30.90	89.99	-407.06	602.34	1,376.52	1,307.93	68.59	20.068	
11,200.00	7,630.00	7,713.07	7,620.53	52.48	30.90	90.03	-407.07	602.34	1,446.88	1,378.57	68.32	21.179	
11,300.00	7,630.00	7,713.75	7,621.22	53.79	30.90	90.07	-407.07	602.33	1,520.57	1,452.51	68.05	22.344	
11,400.00	7,630.00	7,714.44	7,621.90	55.12	30.90	90.11	-407.08	602.33	1,597.12	1,529.31	67.80	23.555	
11,500.00	7,630.00	7,715.12	7,622.59	56.46	30.90	90.15	-407.08	602.32	1,676.14	1,608.57	67.57	24.805	
11,600.00	7,630.00	7,715.81	7,623.27	57.83	30.91	90.19	-407.09	602.32	1,757.30	1,689.94	67.36	26.089	
11,700.00	7,630.00	7,716.51	7,623.97	59.22	30.91	90.23	-407.09	602.31	1,840.31	1,773.15	67.16	27.402	
11,800.00	7,630.00	7,717.20	7,624.66	60.62	30.91	90.27	-407.10	602.31	1,924.94	1,857.96	66.98	28.740	
11,900.00	7,630.00	7,717.90	7,625.36	62.04	30.91	90.31	-407.10	602.30	2,010.98	1,944.17	66.81	30.099	
12,000.00	7,630.00	7,718.60	7,626.06	63.48	30.91	90.35	-407.11	602.30	2,098.26	2,031.60	66.66	31.477	
12,100.00	7,630.00	7,719.30	7,626.76	64.93	30.92	90.39	-407.11	602.29	2,186.63	2,120.11	66.52	32.871	
12,200.00	7,630.00	7,720.01	7,627.47	66.39	30.92	90.43	-407.12	602.29	2,275.96	2,209.57	66.40	34.278	
12,300.00	7,630.00	7,720.72	7,628.18	67.86	30.92	90.47	-407.12	602.28	2,366.15	2,299.87	66.28	35.699	
12,400.00	7,630.00	7,721.43	7,628.89	69.35	30.92	90.51	-407.13	602.27	2,457.09	2,390.92	66.18	37.129	
12,500.00	7,630.00	7,722.15	7,629.61	70.85	30.92	90.55	-407.14	602.27	2,548.71	2,482.63	66.08	38.569	
12,600.00	7,630.00	7,722.86	7,630.33	72.36	30.93	90.59	-407.14	602.26	2,640.95	2,574.95	66.00	40.017	
12,700.00	7,630.00	7,723.59	7,631.05	73.88	30.93	90.63	-407.15	602.26	2,733.72	2,667.81	65.92	41.472	
12,800.00	7,630.00	7,724.31	7,631.77	75.41	30.93	90.67	-407.15	602.25	2,826.99	2,761.14	65.85	42.933	
12,900.00	7,630.00	7,725.04	7,632.50	76.95	30.93	90.71	-407.16	602.24	2,920.71	2,854.92	65.78	44.400	
13,000.00	7,630.00	7,725.77	7,633.23	78.49	30.94	90.76	-407.16	602.24	3,014.82	2,949.10	65.72	45.871	
13,100.00	7,630.00	7,726.50	7,633.96	80.05	30.94	90.80	-407.17	602.23	3,109.31	3,043.64	65.67	47.346	
13,200.00	7,630.00	7,727.24	7,634.70	81.61	30.94	90.84	-407.17	602.22	3,204.13	3,138.50	65.63	48.824	
13,300.00	7,630.00	7,727.98	7,635.44	83.18	30.94	90.88	-407.18	602.22	3,299.25	3,233.67	65.58	50.305	
13,400.00	7,630.00	7,728.72	7,636.18	84.76	30.94	90.92	-407.19	602.21	3,394.66	3,329.11	65.55	51.789	
13,500.00	7,630.00	7,729.47	7,636.93	86.34	30.95	90.97	-407.19	602.20	3,490.32	3,424.81	65.52	53.274	
13,600.00	7,630.00	7,730.21	7,637.68	87.94	30.95	91.01	-407.20	602.20	3,586.22	3,520.73	65.49	54.762	
13,700.00	7,630.00	7,730.97	7,638.43	89.53	30.95	91.05	-407.20	602.19	3,682.34	3,616.87	65.46	56.250	
13,800.00	7,630.00	7,731.72	7,639.18	91.13	30.95	91.10	-407.21	602.18	3,778.66	3,713.21	65.44	57.740	
13,900.00	7,630.00	7,732.48	7,639.94	92.74	30.96	91.14	-407.22	602.18	3,875.16	3,809.74	65.43	59.231	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 138-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,630.00	7,733.24	7,640.70	94.35	30.96	91.18	-407.22	602.17	3,971.84	3,906.43	65.41	60.721	
14,100.00	7,630.00	7,734.01	7,641.47	95.97	30.96	91.23	-407.23	602.16	4,068.68	4,003.28	65.40	62.213	
14,200.00	7,630.00	7,734.78	7,642.24	97.60	30.96	91.27	-407.23	602.16	4,165.66	4,100.27	65.39	63.704	
14,300.00	7,630.00	7,735.55	7,643.01	99.22	30.96	91.31	-407.24	602.15	4,262.79	4,197.41	65.39	65.195	
14,400.00	7,630.00	7,736.32	7,643.78	100.85	30.97	91.36	-407.25	602.14	4,360.05	4,294.66	65.38	66.685	
14,500.00	7,630.00	7,737.10	7,644.56	102.49	30.97	91.40	-407.25	602.13	4,457.42	4,392.04	65.38	68.175	
14,600.00	7,630.00	7,737.88	7,645.35	104.13	30.97	91.45	-407.26	602.12	4,554.92	4,489.53	65.38	69.665	
14,700.00	7,630.00	7,738.67	7,646.13	105.77	30.97	91.49	-407.26	602.12	4,652.51	4,587.13	65.39	71.153	
14,800.00	7,630.00	7,739.46	7,646.92	107.42	30.98	91.54	-407.27	602.11	4,750.21	4,684.82	65.39	72.641	
14,900.00	7,630.00	7,740.25	7,647.71	109.07	30.98	91.58	-407.28	602.10	4,848.00	4,782.60	65.40	74.127	
15,000.00	7,630.00	7,741.05	7,648.51	110.72	30.98	91.63	-407.28	602.09	4,945.88	4,880.47	65.41	75.612	
15,100.00	7,630.00	7,741.85	7,649.31	112.38	30.98	91.67	-407.29	602.08	5,043.84	4,978.42	65.42	77.096	
15,200.00	7,630.00	7,742.65	7,650.11	114.04	30.99	91.72	-407.30	602.08	5,141.88	5,076.45	65.44	78.578	
15,300.00	7,630.00	7,743.45	7,650.91	115.71	30.99	91.77	-407.30	602.07	5,240.00	5,174.55	65.45	80.059	
15,400.00	7,630.00	7,744.26	7,651.72	117.37	30.99	91.81	-407.31	602.06	5,338.18	5,272.71	65.47	81.537	
15,500.00	7,630.00	7,745.08	7,652.54	119.04	30.99	91.86	-407.32	602.05	5,436.43	5,370.94	65.49	83.014	
15,600.00	7,630.00	7,745.90	7,653.35	120.71	31.00	91.91	-407.32	602.04	5,534.75	5,469.24	65.51	84.490	
15,700.00	7,630.00	7,746.72	7,654.18	122.39	31.00	91.95	-407.33	602.03	5,633.12	5,567.59	65.53	85.963	
15,800.00	7,630.00	7,747.54	7,655.00	124.06	31.00	92.00	-407.34	602.02	5,731.55	5,665.99	65.55	87.434	
15,900.00	7,630.00	7,748.37	7,655.83	125.74	31.00	92.05	-407.34	602.01	5,830.03	5,764.45	65.58	88.903	
16,000.00	7,630.00	7,749.20	7,656.66	127.42	31.00	92.09	-407.35	602.00	5,928.56	5,862.96	65.60	90.369	
16,100.00	7,630.00	7,750.04	7,657.49	129.10	31.01	92.14	-407.36	601.99	6,027.14	5,961.51	65.63	91.834	
16,200.00	7,630.00	7,750.87	7,658.33	130.79	31.01	92.19	-407.36	601.99	6,125.77	6,060.11	65.66	93.295	
16,300.00	7,630.00	7,751.72	7,659.18	132.48	31.01	92.24	-407.37	601.98	6,224.44	6,158.75	65.69	94.755	
16,400.00	7,630.00	7,752.56	7,660.02	134.17	31.01	92.29	-407.38	601.97	6,323.15	6,257.43	65.72	96.212	
16,500.00	7,630.00	7,753.41	7,660.87	135.86	31.02	92.33	-407.38	601.96	6,421.90	6,356.15	65.75	97.666	
16,600.00	7,630.00	7,754.27	7,661.73	137.55	31.02	92.38	-407.39	601.95	6,520.69	6,454.90	65.79	99.118	
16,700.00	7,630.00	7,755.13	7,662.59	139.24	31.02	92.43	-407.40	601.94	6,619.52	6,553.70	65.82	100.567	
16,800.00	7,630.00	7,755.99	7,663.45	140.94	31.03	92.48	-407.40	601.92	6,718.38	6,652.52	65.86	102.013	
16,900.00	7,630.00	7,756.86	7,664.31	142.64	31.03	92.53	-407.41	601.91	6,817.27	6,751.38	65.89	103.457	
17,000.00	7,630.00	7,757.73	7,665.18	144.34	31.03	92.58	-407.42	601.90	6,916.20	6,850.26	65.93	104.897	
17,100.00	7,630.00	7,758.60	7,666.06	146.04	31.03	92.63	-407.43	601.89	7,015.15	6,949.18	65.97	106.335	
17,200.00	7,630.00	7,759.48	7,666.94	147.74	31.04	92.68	-407.43	601.88	7,114.14	7,048.13	66.01	107.769	
17,300.00	7,630.00	7,760.36	7,667.82	149.44	31.04	92.73	-407.44	601.87	7,213.15	7,147.10	66.05	109.201	
17,400.00	7,630.00	7,761.25	7,668.71	151.15	31.04	92.78	-407.45	601.86	7,312.19	7,246.09	66.10	110.630	
17,500.00	7,630.00	7,762.14	7,669.60	152.86	31.04	92.83	-407.46	601.85	7,411.26	7,345.12	66.14	112.055	
17,600.00	7,630.00	7,763.03	7,670.49	154.56	31.05	92.88	-407.46	601.84	7,510.35	7,444.16	66.18	113.477	
17,700.00	7,630.00	7,763.93	7,671.39	156.27	31.05	92.93	-407.47	601.83	7,609.46	7,543.23	66.23	114.896	
17,800.00	7,630.00	7,764.83	7,672.29	157.98	31.05	92.98	-407.48	601.81	7,708.60	7,642.32	66.28	116.312	
17,900.00	7,630.00	7,765.74	7,673.20	159.70	31.05	93.04	-407.49	601.80	7,807.75	7,741.43	66.32	117.725	
18,000.00	7,630.00	7,766.65	7,674.11	161.41	31.06	93.09	-407.49	601.79	7,906.93	7,840.56	66.37	119.134	
18,100.00	7,630.00	7,767.57	7,675.03	163.12	31.06	93.14	-407.50	601.78	8,006.13	7,939.71	66.42	120.540	
18,154.00	7,630.00	7,768.06	7,675.52	164.05	31.06	93.17	-407.51	601.77	8,059.71	7,993.27	66.45	121.297	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-16.74	217.84	-65.52	227.70				
100.00	100.00	91.23	91.23	0.13	0.15	-16.86	217.47	-65.89	227.24	226.96	0.28	800.850	
173.96	173.96	163.97	163.96	0.40	0.32	-17.09	216.80	-66.65	226.81	226.10	0.72	316.814	CC
200.00	200.00	188.28	188.27	0.49	0.40	-17.13	216.84	-66.84	226.91	226.02	0.89	253.756	ES
300.00	300.00	279.57	279.53	0.85	0.72	-17.03	219.10	-67.09	229.39	227.80	1.58	145.105	
400.00	400.00	370.41	370.14	1.21	1.06	-16.61	225.36	-67.24	236.02	233.75	2.27	104.181	
500.00	500.00	462.14	461.36	1.57	1.39	-15.91	235.03	-67.01	246.07	243.12	2.95	83.312	
600.00	600.00	552.36	550.72	1.93	1.75	-15.23	247.38	-67.36	259.37	255.74	3.64	71.318	
700.00	700.00	640.75	637.75	2.29	2.13	-14.49	262.79	-67.91	276.41	272.10	4.31	64.113	
800.00	800.00	728.02	723.06	2.64	2.53	-13.77	281.18	-68.91	297.14	292.16	4.98	59.693	
900.00	900.00	813.32	805.71	3.00	2.96	-13.08	302.17	-70.20	321.47	315.84	5.63	57.083	
1,000.00	1,000.00	899.50	888.35	3.36	3.42	-12.38	326.58	-71.69	349.47	343.18	6.29	55.560	
1,100.00	1,100.00	994.57	979.16	3.72	3.95	-11.74	354.63	-73.69	378.79	371.80	6.99	54.171	
1,200.00	1,200.00	1,088.89	1,069.33	4.08	4.49	-11.18	382.24	-75.58	407.90	400.18	7.71	52.879	
1,300.00	1,300.00	1,178.43	1,154.54	4.44	5.02	-10.71	409.68	-77.45	438.39	429.99	8.40	52.194	
1,400.00	1,400.00	1,275.13	1,246.52	4.79	5.60	-10.28	439.43	-79.70	469.08	459.94	9.14	51.336	
1,500.00	1,499.98	1,368.78	1,335.62	5.15	6.16	-47.41	468.20	-81.80	498.61	488.76	9.85	50.611	
1,600.00	1,599.84	1,458.90	1,421.10	5.51	6.72	-47.03	496.69	-83.62	526.74	516.20	10.54	49.968	
1,700.00	1,699.45	1,549.72	1,506.90	5.87	7.29	-46.88	526.42	-85.16	553.65	542.40	11.24	49.240	
1,800.00	1,798.70	1,643.34	1,595.10	6.23	7.89	-47.00	557.75	-87.02	579.07	567.09	11.98	48.343	
1,900.00	1,897.47	1,741.89	1,687.94	6.60	8.52	-47.45	590.72	-89.56	602.36	589.59	12.76	47.190	
2,000.00	1,995.62	1,843.21	1,783.59	6.99	9.17	-48.22	623.97	-92.89	622.98	609.39	13.59	45.847	
2,100.00	2,093.06	1,948.57	1,883.36	7.39	9.83	-49.34	657.55	-97.04	640.79	626.33	14.46	44.306	
2,200.00	2,189.64	2,053.53	1,983.29	7.82	10.48	-50.75	689.32	-101.80	655.25	639.89	15.36	42.662	
2,300.00	2,285.27	2,157.11	2,082.19	8.28	11.10	-52.40	719.68	-106.86	667.24	650.96	16.28	40.985	
2,400.00	2,379.82	2,262.17	2,182.80	8.77	11.72	-54.21	749.69	-110.74	676.69	659.43	17.26	39.214	
2,500.00	2,473.17	2,366.18	2,282.68	9.31	12.33	-56.18	778.52	-113.63	683.77	665.49	18.28	37.406	
2,600.00	2,565.21	2,472.56	2,385.17	9.88	12.93	-58.40	806.98	-115.74	688.62	669.23	19.38	35.525	
2,660.67	2,620.37	2,528.76	2,439.36	10.25	13.24	-59.67	821.84	-116.63	690.90	670.86	20.03	34.486	
2,700.00	2,655.96	2,566.31	2,475.57	10.50	13.46	-60.56	831.79	-117.22	692.41	671.94	20.48	33.813	
2,800.00	2,746.43	2,663.89	2,569.68	11.15	14.00	-62.86	857.54	-118.70	696.97	675.32	21.66	32.184	
2,900.00	2,836.90	2,764.03	2,666.39	11.82	14.56	-65.21	883.46	-120.26	702.28	679.38	22.90	30.669	
3,000.00	2,927.37	2,864.35	2,763.27	12.50	15.11	-67.42	909.48	-120.21	707.95	683.77	24.18	29.280	
3,100.00	3,017.85	2,959.38	2,855.03	13.21	15.64	-69.45	934.21	-119.86	714.54	689.08	25.46	28.066	
3,200.00	3,108.32	3,051.90	2,944.43	13.92	16.15	-71.45	958.04	-120.22	722.33	695.58	26.75	26.999	
3,300.00	3,198.79	3,138.55	3,027.81	14.64	16.65	-73.21	981.58	-120.18	731.96	703.93	28.03	26.117	
3,400.00	3,289.27	3,224.72	3,110.23	15.38	17.16	-74.83	1,006.74	-120.21	744.03	714.72	29.31	25.385	
3,500.00	3,379.74	3,328.90	3,209.75	16.12	17.78	-76.66	1,037.52	-119.34	756.57	725.81	30.76	24.596	
3,600.00	3,470.21	3,423.48	3,300.10	16.87	18.35	-78.26	1,065.47	-118.47	769.73	737.59	32.14	23.946	
3,700.00	3,560.68	3,526.43	3,398.23	17.62	18.96	-79.85	1,096.53	-116.34	783.18	749.57	33.60	23.306	
3,800.00	3,651.16	3,617.79	3,485.52	18.39	19.51	-81.25	1,123.43	-114.38	796.63	761.65	34.98	22.777	
3,900.00	3,741.63	3,699.67	3,563.72	19.15	20.00	-82.57	1,147.67	-114.95	812.67	776.41	36.26	22.412	
4,000.00	3,832.10	3,806.80	3,666.60	19.92	20.62	-84.39	1,177.47	-116.88	828.99	791.21	37.78	21.945	
4,100.00	3,922.57	3,904.70	3,760.90	20.69	21.18	-86.04	1,203.75	-118.64	845.38	806.19	39.20	21.566	
4,200.00	4,013.05	4,002.30	3,854.72	21.47	21.74	-87.55	1,230.60	-119.58	862.21	821.59	40.62	21.228	
4,300.00	4,103.52	4,107.41	3,955.86	22.25	22.34	-89.12	1,259.23	-120.31	879.25	837.15	42.10	20.886	
4,400.00	4,193.99	4,205.39	4,050.32	23.03	22.90	-90.53	1,285.25	-120.09	895.71	852.20	43.51	20.586	
4,500.00	4,284.47	4,300.66	4,141.76	23.81	23.45	-91.77	1,311.96	-119.38	913.05	868.16	44.89	20.337	
4,600.00	4,374.94	4,391.83	4,229.27	24.60	23.97	-92.90	1,337.51	-118.74	930.88	884.64	46.24	20.132	
4,700.00	4,465.41	4,477.51	4,311.58	25.39	24.47	-93.99	1,361.30	-119.29	950.06	902.54	47.51	19.996	
4,800.00	4,555.88	4,574.76	4,405.14	26.18	25.03	-95.23	1,387.77	-121.17	970.48	921.59	48.89	19.849	
4,900.00	4,646.36	4,681.58	4,507.60	26.97	25.65	-96.43	1,417.97	-121.32	990.28	939.92	50.36	19.662	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,736.83	4,776.78	4,598.58	27.76	26.22	-97.37	1,445.97	-120.29	1,009.92	958.20	51.73	19.524	
5,100.00	4,827.30	4,880.75	4,698.11	28.55	26.83	-98.39	1,476.04	-119.42	1,029.82	976.66	53.16	19.371	
5,200.00	4,917.77	4,977.59	4,791.41	29.35	27.38	-99.42	1,501.95	-119.02	1,049.41	994.91	54.51	19.253	
5,300.00	5,008.25	5,069.23	4,880.05	30.15	27.88	-100.45	1,525.20	-119.49	1,069.59	1,013.81	55.78	19.176	
5,400.00	5,098.72	5,160.09	4,968.16	30.94	28.37	-101.49	1,547.36	-120.81	1,090.56	1,033.55	57.02	19.127	
5,500.00	5,189.19	5,265.11	5,070.39	31.74	28.91	-102.75	1,571.25	-122.94	1,111.85	1,053.49	58.36	19.051	
5,600.00	5,279.67	5,379.67	5,182.89	32.54	29.45	-104.29	1,592.72	-125.37	1,132.26	1,072.54	59.72	18.959	
5,700.00	5,370.14	5,488.48	5,290.48	33.34	29.89	-105.89	1,608.79	-127.50	1,151.82	1,090.87	60.94	18.900	
5,800.00	5,460.61	5,590.73	5,392.07	34.14	30.26	-107.51	1,620.16	-129.63	1,171.13	1,109.08	62.05	18.874	SF
5,900.00	5,551.08	5,687.94	5,488.88	34.94	30.58	-109.11	1,628.63	-131.83	1,190.79	1,127.73	63.06	18.883	
6,000.00	5,641.56	5,791.89	5,592.64	35.75	30.89	-110.93	1,634.34	-134.56	1,210.95	1,146.92	64.03	18.911	
6,100.00	5,732.03	5,911.22	5,711.89	36.55	31.20	-113.05	1,637.87	-136.27	1,230.54	1,165.54	65.00	18.932	
6,200.00	5,822.50	6,003.76	5,804.42	37.35	31.44	-114.67	1,639.65	-136.47	1,249.91	1,184.11	65.80	18.995	
6,300.00	5,912.97	6,089.26	5,889.91	38.16	31.64	-116.16	1,640.70	-136.99	1,270.58	1,204.06	66.53	19.099	
6,400.00	6,003.45	6,175.98	5,976.62	38.96	31.84	-117.67	1,640.73	-138.03	1,292.69	1,225.48	67.20	19.235	
6,500.00	6,093.92	6,269.36	6,069.99	39.77	32.06	-119.24	1,641.17	-139.16	1,315.89	1,248.00	67.89	19.384	
6,600.00	6,184.39	6,357.40	6,158.03	40.57	32.27	-120.67	1,641.72	-140.03	1,339.88	1,271.36	68.52	19.554	
6,700.00	6,274.87	6,449.51	6,250.12	41.38	32.50	-122.10	1,642.49	-141.15	1,365.01	1,295.85	69.16	19.738	
6,800.00	6,365.34	6,542.71	6,343.32	42.18	32.72	-123.51	1,643.33	-141.97	1,390.67	1,320.90	69.77	19.931	
6,900.00	6,455.81	6,641.53	6,442.14	42.99	32.96	-124.97	1,643.50	-142.64	1,416.98	1,346.59	70.39	20.130	
7,000.00	6,546.28	6,738.39	6,539.00	43.80	33.20	-126.35	1,644.00	-142.59	1,443.41	1,372.41	70.99	20.332	
7,100.00	6,636.76	6,823.63	6,624.23	44.61	33.42	-127.49	1,645.09	-142.55	1,470.54	1,399.00	71.53	20.557	
7,200.00	6,727.23	6,907.98	6,708.57	45.41	33.65	-128.57	1,646.62	-142.99	1,498.82	1,426.75	72.07	20.797	
7,300.00	6,817.70	7,000.71	6,801.27	46.22	33.90	-129.71	1,648.58	-143.70	1,527.91	1,455.27	72.65	21.032	
7,383.79	6,893.51	7,080.69	6,881.23	46.90	34.12	-130.65	1,650.44	-144.04	1,552.46	1,479.31	73.14	21.225	
7,400.00	6,908.25	7,095.26	6,895.80	47.03	34.16	-133.66	1,650.76	-144.10	1,557.24	1,484.01	73.23	21.264	
7,450.00	6,954.52	7,140.91	6,941.43	47.40	34.28	-144.58	1,651.68	-144.28	1,572.01	1,498.50	73.51	21.385	
7,500.00	7,001.74	7,187.14	6,987.66	47.72	34.41	-158.49	1,652.54	-144.48	1,586.66	1,512.88	73.78	21.505	
7,550.00	7,049.55	7,233.85	7,034.35	47.99	34.54	-175.53	1,653.41	-144.71	1,601.01	1,526.96	74.05	21.621	
7,600.00	7,097.58	7,285.61	7,086.10	48.21	34.68	165.88	1,654.54	-144.95	1,614.88	1,540.53	74.35	21.720	
7,650.00	7,145.48	7,339.47	7,139.94	48.37	34.84	148.70	1,656.10	-145.11	1,628.10	1,553.43	74.67	21.804	
7,700.00	7,192.88	7,404.27	7,204.70	48.48	35.03	135.02	1,658.56	-144.85	1,640.36	1,565.30	75.07	21.853	
7,750.00	7,239.41	7,454.09	7,254.47	48.54	35.17	124.77	1,660.50	-144.27	1,651.70	1,576.34	75.36	21.917	
7,800.00	7,284.72	7,498.07	7,298.45	48.56	35.29	117.21	1,661.11	-143.68	1,662.49	1,586.88	75.61	21.986	
7,850.00	7,328.47	7,537.28	7,337.64	48.54	35.39	111.57	1,660.77	-143.13	1,672.82	1,596.99	75.82	22.062	
7,900.00	7,370.32	7,572.65	7,373.01	48.47	35.47	107.30	1,660.06	-142.75	1,682.82	1,606.82	76.00	22.141	
7,950.00	7,409.96	7,606.58	7,406.92	48.37	35.54	104.02	1,659.07	-142.51	1,692.56	1,616.39	76.17	22.220	
8,000.00	7,447.08	7,659.48	7,459.78	48.24	35.66	101.94	1,657.31	-142.01	1,701.88	1,625.47	76.42	22.271	
8,050.00	7,481.41	7,710.20	7,510.48	48.07	35.77	100.46	1,655.76	-141.08	1,710.64	1,633.99	76.64	22.319	
8,100.00	7,512.67	7,736.78	7,537.05	47.87	35.83	98.86	1,655.00	-140.54	1,719.24	1,642.46	76.78	22.393	
8,150.00	7,540.64	7,763.00	7,563.25	47.65	35.89	97.59	1,654.28	-140.06	1,727.91	1,651.01	76.90	22.470	
8,200.00	7,565.09	7,786.01	7,586.25	47.40	35.94	96.47	1,653.67	-139.67	1,736.75	1,659.75	77.00	22.556	
8,250.00	7,585.85	7,807.73	7,607.96	47.14	35.99	95.53	1,653.12	-139.32	1,745.82	1,668.74	77.08	22.650	
8,300.00	7,602.75	7,827.88	7,628.09	46.86	36.04	94.69	1,652.59	-138.99	1,755.14	1,678.00	77.14	22.752	
8,350.00	7,615.67	7,843.70	7,643.91	46.58	36.07	93.85	1,652.17	-138.71	1,764.77	1,687.60	77.17	22.868	
8,400.00	7,624.51	7,855.04	7,655.24	46.28	36.10	92.98	1,651.87	-138.51	1,774.73	1,697.56	77.17	22.998	
8,450.00	7,629.19	7,861.80	7,662.00	45.98	36.12	92.04	1,651.68	-138.38	1,785.02	1,707.89	77.13	23.143	
8,481.00	7,630.00	7,863.65	7,663.85	45.79	36.12	91.44	1,651.63	-138.34	1,791.55	1,714.46	77.09	23.240	
8,500.00	7,630.00	7,864.23	7,664.43	45.68	36.12	91.45	1,651.62	-138.33	1,795.68	1,718.62	77.06	23.302	
8,600.00	7,630.00	7,867.31	7,667.50	45.11	36.13	91.55	1,651.53	-138.27	1,820.54	1,743.67	76.87	23.684	
8,700.00	7,630.00	7,870.41	7,670.60	44.56	36.13	91.66	1,651.44	-138.22	1,850.47	1,773.85	76.62	24.152	
8,800.00	7,630.00	7,873.53	7,673.72	44.05	36.14	91.76	1,651.36	-138.15	1,885.23	1,808.91	76.32	24.702	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
8,900.00	7,630.00	7,876.67	7,676.86	43.57	36.15	91.86	1,651.27	-138.09	1,924.55	1,848.57	75.98	25.329	
9,000.00	7,630.00	7,879.84	7,680.03	43.12	36.16	91.96	1,651.18	-138.03	1,968.18	1,892.57	75.61	26.030	
9,100.00	7,630.00	7,883.03	7,683.22	42.70	36.16	92.07	1,651.09	-137.97	2,015.82	1,940.60	75.22	26.798	
9,200.00	7,630.00	7,886.24	7,686.43	42.31	36.17	92.17	1,651.00	-137.90	2,067.20	1,992.38	74.82	27.630	
9,300.00	7,630.00	7,889.48	7,689.67	41.94	36.18	92.28	1,650.91	-137.84	2,122.04	2,047.64	74.41	28.520	
9,400.00	7,630.00	7,894.08	7,694.26	41.59	36.19	92.43	1,650.78	-137.74	2,180.09	2,106.10	73.99	29.463	
9,500.00	7,630.00	7,899.11	7,699.29	41.26	36.20	92.59	1,650.63	-137.63	2,241.10	2,167.51	73.59	30.455	
9,600.00	7,630.00	7,904.35	7,704.52	40.96	36.21	92.77	1,650.48	-137.52	2,304.82	2,231.63	73.19	31.492	
9,700.00	7,630.00	7,909.80	7,709.97	40.68	36.22	92.94	1,650.31	-137.39	2,371.04	2,298.25	72.80	32.570	
9,800.00	7,630.00	7,915.49	7,715.65	40.42	36.24	93.13	1,650.14	-137.26	2,439.56	2,367.14	72.42	33.686	
9,900.00	7,630.00	7,921.43	7,721.59	40.17	36.25	93.32	1,649.95	-137.11	2,510.19	2,438.13	72.06	34.836	
10,000.00	7,630.00	7,927.63	7,727.79	39.96	36.26	93.53	1,649.75	-136.95	2,582.75	2,511.04	71.71	36.017	
10,100.00	7,630.00	7,934.12	7,734.27	40.05	36.28	93.74	1,649.53	-136.78	2,657.08	2,585.70	71.38	37.226	
10,200.00	7,630.00	7,940.91	7,741.05	40.95	36.29	93.96	1,649.30	-136.59	2,733.04	2,661.98	71.06	38.460	
10,300.00	7,630.00	7,948.03	7,748.16	41.94	36.31	94.19	1,649.06	-136.39	2,810.51	2,739.74	70.76	39.718	
10,400.00	7,630.00	7,955.50	7,755.62	42.98	36.33	94.44	1,648.79	-136.17	2,889.34	2,818.86	70.48	40.997	
10,500.00	7,630.00	7,963.34	7,763.46	44.06	36.34	94.69	1,648.51	-135.92	2,969.44	2,899.24	70.21	42.295	
10,600.00	7,630.00	7,971.59	7,771.70	45.17	36.36	94.96	1,648.20	-135.66	3,050.71	2,980.76	69.95	43.610	
10,700.00	7,630.00	7,980.27	7,780.37	46.32	36.38	95.24	1,647.87	-135.37	3,133.05	3,063.34	69.71	44.941	
10,800.00	7,630.00	8,085.11	7,884.95	47.50	36.61	98.65	1,642.91	-130.04	3,216.27	3,146.84	69.43	46.325	
10,900.00	7,630.00	8,093.66	7,893.47	48.70	36.62	98.93	1,642.43	-129.47	3,300.38	3,231.17	69.21	47.684	
11,000.00	7,630.00	8,102.42	7,902.20	49.94	36.64	99.21	1,641.94	-128.88	3,385.34	3,316.33	69.01	49.054	
11,100.00	7,630.00	8,111.40	7,911.13	51.20	36.66	99.50	1,641.43	-128.27	3,471.08	3,402.26	68.82	50.436	
11,200.00	7,630.00	8,120.59	7,920.29	52.48	36.68	99.80	1,640.90	-127.64	3,557.56	3,488.92	68.64	51.827	
11,300.00	7,630.00	8,130.01	7,929.67	53.79	36.70	100.10	1,640.35	-126.98	3,644.71	3,576.24	68.48	53.226	
11,400.00	7,630.00	8,139.67	7,939.29	55.12	36.72	100.41	1,639.78	-126.30	3,732.50	3,664.18	68.32	54.633	
11,500.00	7,630.00	8,149.58	7,949.15	56.46	36.74	100.73	1,639.19	-125.60	3,820.86	3,752.69	68.17	56.048	
11,600.00	7,630.00	8,159.74	7,959.27	57.83	36.76	101.05	1,638.57	-124.87	3,909.78	3,841.74	68.03	57.468	
11,700.00	7,630.00	8,170.16	7,969.64	59.22	36.78	101.39	1,637.93	-124.11	3,999.20	3,931.29	67.90	58.895	
11,800.00	7,630.00	8,180.86	7,980.30	60.62	36.80	101.73	1,637.26	-123.32	4,089.09	4,021.31	67.78	60.326	
11,900.00	7,630.00	11,900.00	7,962.02	62.04	44.53	101.14	1,638.37	-124.64	4,179.45	4,101.28	78.17	53.466	
12,000.00	7,630.00	12,000.00	7,967.80	63.48	44.73	101.33	1,638.03	-124.24	4,270.25	4,191.91	78.35	54.505	
12,100.00	7,630.00	12,100.00	7,973.58	64.93	44.94	101.52	1,637.70	-123.83	4,361.44	4,282.92	78.53	55.541	
12,200.00	7,630.00	12,200.00	7,979.36	66.39	45.15	101.70	1,637.36	-123.43	4,453.01	4,374.29	78.72	56.571	
12,300.00	7,630.00	8,171.00	7,970.48	67.86	36.78	101.42	1,637.88	-124.05	4,544.94	4,477.62	67.33	67.504	
12,400.00	7,630.00	8,171.00	7,970.48	69.35	36.78	101.42	1,637.88	-124.05	4,637.21	4,569.95	67.25	68.950	
12,500.00	7,630.00	8,171.00	7,970.48	70.85	36.78	101.42	1,637.88	-124.05	4,729.78	4,662.60	67.19	70.398	
12,600.00	7,630.00	8,171.00	7,970.48	72.36	36.78	101.42	1,637.88	-124.05	4,822.65	4,755.53	67.12	71.848	
12,700.00	7,630.00	8,171.00	7,970.48	73.88	36.78	101.42	1,637.88	-124.05	4,915.81	4,848.74	67.06	73.300	
12,800.00	7,630.00	8,171.00	7,970.48	75.41	36.78	101.42	1,637.88	-124.05	5,009.22	4,942.21	67.01	74.754	
12,900.00	7,630.00	8,171.00	7,970.48	76.95	36.78	101.42	1,637.88	-124.05	5,102.89	5,035.93	66.96	76.208	
13,000.00	7,630.00	8,171.00	7,970.48	78.49	36.78	101.42	1,637.88	-124.05	5,196.79	5,129.87	66.91	77.664	
13,100.00	7,630.00	8,171.00	7,970.48	80.05	36.78	101.42	1,637.88	-124.05	5,290.91	5,224.04	66.87	79.120	
13,200.00	7,630.00	8,171.00	7,970.48	81.61	36.78	101.42	1,637.88	-124.05	5,385.25	5,318.42	66.83	80.577	
13,300.00	7,630.00	8,171.00	7,970.48	83.18	36.78	101.42	1,637.88	-124.05	5,479.79	5,412.99	66.80	82.035	
13,400.00	7,630.00	8,171.00	7,970.48	84.76	36.78	101.42	1,637.88	-124.05	5,574.52	5,507.75	66.77	83.492	
13,500.00	7,630.00	8,171.00	7,970.48	86.34	36.78	101.42	1,637.88	-124.05	5,669.43	5,602.69	66.74	84.949	
13,600.00	7,630.00	8,171.00	7,970.48	87.94	36.78	101.42	1,637.88	-124.05	5,764.51	5,697.79	66.71	86.407	
13,700.00	7,630.00	8,171.00	7,970.48	89.53	36.78	101.42	1,637.88	-124.05	5,859.75	5,793.06	66.69	87.864	
13,800.00	7,630.00	8,171.00	7,970.48	91.13	36.78	101.42	1,637.88	-124.05	5,955.15	5,888.48	66.67	89.320	
13,900.00	7,630.00	8,171.00	7,970.48	92.74	36.78	101.42	1,637.88	-124.05	6,050.70	5,984.05	66.66	90.776	
14,000.00	7,630.00	8,171.00	7,970.48	94.35	36.78	101.42	1,637.88	-124.05	6,146.39	6,079.75	66.64	92.231	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 138-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	8,171.00	7,970.48	95.97	36.78	101.42	1,637.88	-124.05	6,242.22	6,175.59	66.63	93.685	
14,200.00	7,630.00	8,171.00	7,970.48	97.60	36.78	101.42	1,637.88	-124.05	6,338.18	6,271.55	66.62	95.139	
14,300.00	7,630.00	8,171.00	7,970.48	99.22	36.78	101.42	1,637.88	-124.05	6,434.25	6,367.64	66.61	96.591	
14,400.00	7,630.00	8,171.00	7,970.48	100.85	36.78	101.42	1,637.88	-124.05	6,530.45	6,463.84	66.61	98.042	
14,500.00	7,630.00	8,171.00	7,970.48	102.49	36.78	101.42	1,637.88	-124.05	6,626.76	6,560.15	66.61	99.492	
14,600.00	7,630.00	8,171.00	7,970.48	104.13	36.78	101.42	1,637.88	-124.05	6,723.18	6,656.57	66.61	100.940	
14,700.00	7,630.00	8,206.82	8,006.17	105.77	36.86	102.56	1,635.99	-121.73	6,819.21	6,752.61	66.60	102.389	
14,800.00	7,630.00	8,207.66	8,007.01	107.42	36.87	102.59	1,635.95	-121.68	6,915.81	6,849.20	66.60	103.834	
14,900.00	7,630.00	8,208.48	8,007.83	109.07	36.87	102.61	1,635.91	-121.63	7,012.50	6,945.89	66.61	105.277	
15,000.00	7,630.00	8,209.29	8,008.63	110.72	36.87	102.64	1,635.88	-121.59	7,109.29	7,042.67	66.62	106.718	
15,100.00	7,630.00	8,210.08	8,009.42	112.38	36.87	102.66	1,635.85	-121.55	7,206.16	7,139.53	66.63	108.157	
15,200.00	7,630.00	8,210.86	8,010.20	114.04	36.87	102.69	1,635.81	-121.50	7,303.11	7,236.47	66.64	109.594	
15,300.00	7,630.00	8,211.62	8,010.96	115.71	36.88	102.71	1,635.78	-121.46	7,400.15	7,333.50	66.65	111.030	
15,400.00	7,630.00	8,212.37	8,011.71	117.37	36.88	102.74	1,635.75	-121.42	7,497.26	7,430.60	66.66	112.463	
15,500.00	7,630.00	8,213.10	8,012.44	119.04	36.88	102.76	1,635.72	-121.38	7,594.45	7,527.77	66.68	113.894	
15,600.00	7,630.00	8,213.83	8,013.16	120.71	36.88	102.78	1,635.69	-121.34	7,691.71	7,625.01	66.70	115.323	
15,700.00	7,630.00	8,214.53	8,013.87	122.39	36.88	102.80	1,635.66	-121.31	7,789.04	7,722.32	66.72	116.749	
15,800.00	7,630.00	8,215.23	8,014.56	124.06	36.88	102.83	1,635.64	-121.27	7,886.43	7,819.69	66.74	118.173	
15,900.00	7,630.00	8,215.92	8,015.25	125.74	36.88	102.85	1,635.61	-121.23	7,983.89	7,917.13	66.76	119.595	
16,000.00	7,630.00	8,216.59	8,015.92	127.42	36.89	102.87	1,635.58	-121.20	8,081.41	8,014.63	66.78	121.014	
16,100.00	7,630.00	8,217.25	8,016.58	129.10	36.89	102.89	1,635.56	-121.16	8,178.99	8,112.19	66.81	122.430	
16,200.00	7,630.00	8,217.90	8,017.23	130.79	36.89	102.91	1,635.53	-121.13	8,276.63	8,209.80	66.83	123.844	
16,300.00	7,630.00	8,218.54	8,017.86	132.48	36.89	102.93	1,635.51	-121.10	8,374.32	8,307.46	66.86	125.256	
16,400.00	7,630.00	8,219.17	8,018.49	134.17	36.89	102.95	1,635.48	-121.07	8,472.07	8,405.18	66.89	126.664	
16,500.00	7,630.00	8,219.78	8,019.11	135.86	36.89	102.97	1,635.46	-121.03	8,569.87	8,502.95	66.92	128.070	
16,600.00	7,630.00	8,220.39	8,019.71	137.55	36.89	102.99	1,635.44	-121.00	8,667.72	8,600.77	66.95	129.473	
16,700.00	7,630.00	8,220.99	8,020.31	139.24	36.90	103.01	1,635.42	-120.97	8,765.61	8,698.63	66.98	130.873	
16,800.00	7,630.00	8,221.58	8,020.90	140.94	36.90	103.03	1,635.39	-120.95	8,863.56	8,796.55	67.01	132.270	
16,900.00	7,630.00	8,222.15	8,021.47	142.64	36.90	103.05	1,635.37	-120.92	8,961.54	8,894.50	67.04	133.665	
17,000.00	7,630.00	8,222.72	8,022.04	144.34	36.90	103.06	1,635.35	-120.89	9,059.58	8,992.50	67.08	135.056	
17,100.00	7,630.00	8,223.28	8,022.60	146.04	36.90	103.08	1,635.33	-120.86	9,157.65	9,090.54	67.12	136.444	
17,200.00	7,630.00	8,223.84	8,023.15	147.74	36.90	103.10	1,635.31	-120.83	9,255.77	9,188.61	67.15	137.829	
17,300.00	7,630.00	8,224.38	8,023.69	149.44	36.90	103.12	1,635.29	-120.81	9,353.92	9,286.73	67.19	139.211	
17,400.00	7,630.00	8,224.91	8,024.23	151.15	36.91	103.13	1,635.28	-120.78	9,452.12	9,384.89	67.23	140.590	
17,500.00	7,630.00	8,225.44	8,024.75	152.86	36.91	103.15	1,635.26	-120.76	9,550.35	9,483.08	67.27	141.966	
17,600.00	7,630.00	8,264.00	8,063.27	154.56	36.99	104.36	1,634.31	-119.27	9,649.11	9,581.79	67.32	143.327	
17,700.00	7,630.00	8,264.00	8,063.27	156.27	36.99	104.36	1,634.31	-119.27	9,747.40	9,680.03	67.36	144.695	
17,800.00	7,630.00	8,264.00	8,063.27	157.98	36.99	104.36	1,634.31	-119.27	9,845.72	9,778.31	67.41	146.060	
17,900.00	7,630.00	8,264.00	8,063.27	159.70	36.99	104.36	1,634.31	-119.27	9,944.08	9,876.62	67.45	147.422	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	-9.06	217.84	-34.72	220.82				
100.00	100.00	89.84	89.84	0.13	0.14	-9.11	217.85	-34.92	220.63	220.35	0.28	799.447	
200.00	200.00	190.57	190.57	0.49	0.47	-9.25	217.70	-35.46	220.57	219.61	0.96	229.665	
300.00	300.00	293.27	293.27	0.85	0.83	-9.44	216.77	-36.04	219.77	218.08	1.68	130.439	
400.00	400.00	402.11	402.02	1.21	1.22	-9.66	212.81	-36.24	216.21	213.78	2.43	88.807	
500.00	500.00	510.07	509.65	1.57	1.62	-10.16	204.58	-36.68	208.77	205.59	3.18	65.609	
600.00	600.00	617.48	616.31	1.93	2.04	-11.03	191.98	-37.41	197.36	193.43	3.93	50.260	
700.00	700.00	726.43	723.86	2.29	2.50	-11.84	174.65	-36.61	181.63	176.96	4.67	38.876	
800.00	800.00	831.52	826.58	2.64	2.98	-13.01	152.52	-35.23	160.75	155.35	5.40	29.774	
900.00	900.00	932.39	924.38	3.00	3.48	-14.93	127.87	-34.09	136.73	130.61	6.12	22.332	
1,000.00	1,000.00	1,030.20	1,018.66	3.36	4.00	-18.34	101.83	-33.76	111.05	104.19	6.86	16.195	
1,100.00	1,100.00	1,127.67	1,112.31	3.72	4.54	-24.26	74.83	-33.72	85.06	77.42	7.64	11.140	
1,200.00	1,200.00	1,223.86	1,204.32	4.08	5.10	-35.94	46.78	-33.91	59.52	50.97	8.55	6.961	
1,300.00	1,300.00	1,319.91	1,296.05	4.44	5.66	-61.52	18.30	-33.73	38.85	29.02	9.83	3.952	
1,368.97	1,368.97	1,385.91	1,358.97	4.68	6.06	-92.82	-1.62	-32.87	32.91	22.17	10.74	3.064	CC, ES, SF
1,400.00	1,400.00	1,415.43	1,387.03	4.79	6.24	-108.38	-10.77	-32.40	34.27	23.36	10.91	3.142	
1,500.00	1,499.98	1,510.19	1,477.04	5.15	6.82	179.53	-40.33	-30.75	54.03	43.04	10.99	4.916	
1,600.00	1,599.84	1,603.31	1,565.53	5.51	7.40	165.91	-69.30	-29.09	85.45	74.03	11.41	7.485	
1,700.00	1,699.45	1,697.10	1,654.57	5.87	7.99	159.77	-98.69	-27.10	122.09	110.03	12.06	10.124	
1,800.00	1,798.70	1,790.31	1,743.39	6.23	8.57	156.69	-126.87	-24.56	161.12	148.35	12.76	12.623	
1,900.00	1,897.47	1,881.43	1,830.32	6.60	9.13	154.99	-154.02	-21.60	202.71	189.24	13.47	15.046	
2,000.00	1,995.62	1,976.26	1,920.98	6.99	9.70	153.98	-181.55	-18.00	246.42	232.17	14.25	17.295	
2,100.00	2,093.06	2,069.84	2,011.01	7.39	10.25	153.52	-206.82	-14.14	291.02	276.00	15.02	19.380	
2,200.00	2,189.64	2,157.91	2,095.95	7.82	10.75	153.44	-229.85	-10.94	337.74	321.99	15.74	21.453	
2,300.00	2,285.27	2,247.26	2,182.22	8.28	11.26	153.67	-252.98	-8.58	387.18	370.69	16.50	23.469	
2,400.00	2,379.82	2,330.46	2,262.73	8.77	11.73	154.05	-273.92	-7.28	439.00	421.80	17.21	25.513	
2,500.00	2,473.17	2,410.27	2,339.88	9.31	12.18	154.57	-294.36	-7.49	494.33	476.43	17.90	27.619	
2,600.00	2,565.21	2,491.25	2,418.18	9.88	12.63	155.27	-314.92	-9.35	552.69	534.08	18.61	29.697	
2,660.67	2,620.37	2,541.67	2,467.01	10.25	12.91	155.74	-327.37	-11.03	589.25	570.19	19.06	30.916	
2,700.00	2,655.96	2,572.86	2,497.25	10.50	13.08	156.25	-334.97	-12.14	613.21	593.88	19.34	31.711	
2,800.00	2,746.43	2,650.32	2,572.22	11.15	13.51	157.20	-354.37	-13.51	674.32	654.31	20.02	33.685	
2,900.00	2,836.90	2,727.44	2,646.70	11.82	13.95	157.84	-374.34	-13.36	735.68	714.97	20.71	35.531	
3,000.00	2,927.37	2,796.00	2,712.74	12.50	14.35	158.24	-392.77	-12.60	797.59	776.27	21.32	37.409	
3,100.00	3,017.85	2,872.48	2,786.09	13.21	14.81	158.58	-414.36	-11.47	860.46	838.45	22.02	39.084	
3,200.00	3,108.32	2,957.67	2,867.87	13.92	15.32	158.81	-438.09	-8.81	922.61	899.82	22.80	40.472	
3,300.00	3,198.79	3,030.81	2,938.06	14.64	15.76	158.97	-458.54	-6.41	984.82	961.35	23.47	41.959	
3,400.00	3,289.27	3,096.61	3,001.03	15.38	16.16	159.09	-477.51	-4.35	1,047.75	1,023.66	24.08	43.508	
3,500.00	3,379.74	3,164.76	3,066.07	16.12	16.58	159.21	-497.77	-2.54	1,111.48	1,086.76	24.72	44.970	
3,600.00	3,470.21	3,243.96	3,141.68	16.87	17.07	159.40	-521.31	-1.67	1,175.63	1,150.18	25.46	46.181	
3,700.00	3,560.68	3,338.07	3,231.87	17.62	17.64	159.64	-548.15	-0.69	1,238.88	1,212.54	26.34	47.042	
3,800.00	3,651.16	3,420.89	3,311.39	18.39	18.13	159.79	-571.28	1.02	1,301.41	1,274.30	27.11	48.004	
3,900.00	3,741.63	3,492.31	3,379.83	19.15	18.57	159.87	-591.57	3.05	1,364.10	1,336.32	27.79	49.095	
4,000.00	3,832.10	3,548.38	3,433.41	19.92	18.91	159.93	-608.03	4.51	1,427.59	1,399.27	28.32	50.409	
4,100.00	3,922.57	3,607.69	3,489.89	20.69	19.28	160.00	-626.10	5.45	1,492.16	1,463.28	28.88	51.663	
4,200.00	4,013.05	3,673.48	3,552.52	21.47	19.70	160.12	-646.24	5.27	1,557.37	1,527.86	29.51	52.781	
4,300.00	4,103.52	3,754.43	3,629.66	22.25	20.20	160.32	-670.73	3.90	1,622.72	1,592.45	30.27	53.608	
4,400.00	4,193.99	3,839.44	3,710.82	23.03	20.73	160.53	-695.98	2.26	1,687.73	1,656.66	31.07	54.319	
4,500.00	4,284.47	3,923.90	3,791.55	23.81	21.25	160.71	-720.77	1.09	1,752.34	1,720.48	31.87	54.989	
4,600.00	4,374.94	4,019.00	3,882.55	24.60	21.83	160.86	-748.39	0.63	1,816.49	1,783.73	32.76	55.442	
4,700.00	4,465.41	4,154.28	4,012.65	25.39	22.63	161.04	-785.46	1.55	1,879.16	1,845.15	34.01	55.250	
4,800.00	4,555.88	4,224.77	4,080.71	26.18	23.03	161.14	-803.77	2.01	1,940.65	1,905.97	34.68	55.960	
4,900.00	4,646.36	4,282.07	4,136.03	26.97	23.36	161.23	-818.74	1.82	2,002.60	1,967.37	35.23	56.844	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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	4,736.83	4,335.00	4,186.98	27.76	23.67	161.33	-833.04	1.00	2,065.54	2,029.81	35.74	57.797	
5,100.00	4,827.30	4,417.76	4,266.59	28.55	24.16	161.49	-855.60	-0.86	2,128.88	2,092.37	36.51	58.311	
5,200.00	4,917.77	4,477.36	4,323.90	29.35	24.51	161.60	-871.85	-2.35	2,192.34	2,155.26	37.07	59.133	
5,300.00	5,008.25	4,535.56	4,379.73	30.15	24.85	161.71	-888.23	-4.04	2,256.54	2,218.91	37.63	59.970	
5,400.00	5,098.72	4,608.13	4,449.21	30.94	25.29	161.83	-909.07	-5.89	2,321.07	2,282.76	38.31	60.580	
5,500.00	5,189.19	4,745.11	4,580.50	31.74	26.12	161.95	-948.10	-6.56	2,384.95	2,345.36	39.59	60.239	
5,600.00	5,279.67	4,946.79	4,776.03	32.54	27.24	162.16	-997.42	-5.62	2,445.10	2,403.74	41.36	59.115	
5,700.00	5,370.14	5,076.84	4,902.87	33.34	27.91	162.24	-1,025.94	-2.37	2,503.04	2,460.53	42.50	58.891	
5,800.00	5,460.61	5,414.94	5,237.10	34.14	29.34	162.89	-1,075.13	-2.31	2,556.30	2,511.42	44.88	56.957	
5,900.00	5,551.08	5,736.56	5,558.39	34.94	30.20	163.77	-1,084.95	-1.86	2,597.46	2,550.85	46.62	55.719	
6,000.00	5,641.56	5,832.41	5,654.24	35.75	30.41	164.02	-1,084.58	-0.86	2,637.98	2,590.64	47.34	55.721	
6,100.00	5,732.03	5,917.38	5,739.21	36.55	30.59	164.24	-1,084.16	-0.24	2,678.55	2,630.52	48.03	55.774	
6,200.00	5,822.50	6,007.50	5,829.32	37.35	30.78	164.48	-1,083.76	0.25	2,719.27	2,670.55	48.73	55.808	
6,300.00	5,912.97	6,099.90	5,921.73	38.16	30.98	164.71	-1,083.31	0.69	2,760.02	2,710.58	49.43	55.834	
6,400.00	6,003.45	6,190.72	6,012.55	38.96	31.17	164.94	-1,082.74	0.96	2,800.76	2,750.63	50.13	55.869	
6,500.00	6,093.92	6,276.97	6,098.79	39.77	31.36	165.16	-1,082.17	0.97	2,841.60	2,790.80	50.81	55.928	
6,600.00	6,184.39	6,355.80	6,177.62	40.57	31.53	165.35	-1,081.73	0.68	2,882.73	2,831.27	51.46	56.022	
6,700.00	6,274.87	6,452.13	6,273.95	41.38	31.74	165.59	-1,081.30	0.18	2,924.03	2,871.86	52.17	56.044	
6,800.00	6,365.34	6,566.19	6,388.00	42.18	31.99	165.86	-1,080.35	0.02	2,964.90	2,911.95	52.96	55.985	
6,900.00	6,455.81	6,639.12	6,460.93	42.99	32.15	166.02	-1,079.77	-0.07	3,005.81	2,952.23	53.59	56.093	
7,000.00	6,546.28	6,746.88	6,568.68	43.80	32.39	166.26	-1,078.74	-0.31	3,046.69	2,992.34	54.35	56.059	
7,100.00	6,636.76	6,845.72	6,667.52	44.61	32.61	166.48	-1,077.46	-0.21	3,087.18	3,032.10	55.08	56.050	
7,200.00	6,727.23	6,932.50	6,754.29	45.41	32.81	166.65	-1,076.55	0.36	3,127.69	3,071.93	55.77	56.085	
7,300.00	6,817.70	7,031.98	6,853.76	46.22	33.04	166.82	-1,075.70	1.74	3,168.10	3,111.58	56.52	56.057	
7,383.79	6,893.51	7,099.36	6,921.12	46.90	33.20	166.94	-1,075.27	2.89	3,202.01	3,144.93	57.08	56.096	
7,400.00	6,908.25	7,112.44	6,934.21	47.03	33.24	164.29	-1,075.21	3.11	3,208.41	3,151.22	57.19	56.102	
7,450.00	6,954.52	7,151.35	6,973.10	47.40	33.33	154.57	-1,075.07	3.71	3,225.83	3,168.32	57.52	56.083	
7,500.00	7,001.74	7,191.02	7,012.78	47.72	33.43	141.91	-1,074.98	4.21	3,239.67	3,181.82	57.85	56.003	
7,550.00	7,049.55	7,233.66	7,055.41	47.99	33.54	126.16	-1,074.92	4.63	3,249.82	3,191.63	58.18	55.853	
7,600.00	7,097.58	7,277.63	7,099.38	48.21	33.65	108.83	-1,074.85	4.90	3,256.18	3,197.67	58.52	55.644	
7,650.00	7,145.48	7,316.97	7,138.72	48.37	33.75	92.81	-1,074.79	5.02	3,258.76	3,199.94	58.82	55.404	
7,700.00	7,192.88	7,352.07	7,173.82	48.48	33.84	80.08	-1,074.83	5.04	3,257.63	3,198.55	59.09	55.134	
7,750.00	7,239.41	7,391.00	7,212.75	48.54	33.94	70.86	-1,075.00	4.95	3,252.85	3,193.50	59.36	54.802	
7,800.00	7,284.72	7,440.84	7,262.59	48.56	34.08	64.54	-1,075.31	4.96	3,244.33	3,184.66	59.67	54.371	
7,850.00	7,328.47	7,496.62	7,318.36	48.54	34.23	60.37	-1,075.66	5.41	3,231.97	3,171.97	60.00	53.864	
7,900.00	7,370.32	7,535.21	7,356.95	48.47	34.34	57.61	-1,075.98	5.92	3,216.02	3,155.77	60.25	53.379	
7,950.00	7,409.96	7,574.55	7,396.29	48.37	34.45	56.07	-1,076.40	6.59	3,196.66	3,136.17	60.49	52.846	
8,000.00	7,447.08	7,606.14	7,427.87	48.24	34.54	55.43	-1,076.81	7.19	3,174.10	3,113.41	60.69	52.299	
8,050.00	7,481.41	7,635.00	7,456.72	48.07	34.62	55.61	-1,077.24	7.74	3,148.56	3,087.69	60.88	51.720	
8,100.00	7,512.67	7,661.48	7,483.19	47.87	34.70	56.54	-1,077.69	8.23	3,120.25	3,059.20	61.05	51.108	
8,150.00	7,540.64	7,685.34	7,507.04	47.65	34.77	58.21	-1,078.13	8.66	3,089.39	3,028.18	61.22	50.466	
8,200.00	7,565.09	7,706.33	7,528.02	47.40	34.83	60.60	-1,078.54	9.00	3,056.22	2,994.85	61.37	49.797	
8,250.00	7,585.85	7,724.29	7,545.98	47.14	34.88	63.77	-1,078.89	9.25	3,020.99	2,959.47	61.52	49.103	
8,300.00	7,602.75	7,739.09	7,560.78	46.86	34.93	67.73	-1,079.19	9.43	2,983.97	2,922.30	61.67	48.387	
8,350.00	7,615.67	7,750.63	7,572.31	46.58	34.96	72.52	-1,079.42	9.56	2,945.44	2,883.63	61.81	47.652	
8,400.00	7,624.51	7,758.80	7,580.48	46.28	34.99	78.13	-1,079.59	9.65	2,905.69	2,843.73	61.95	46.902	
8,450.00	7,629.19	7,763.54	7,585.22	45.98	35.00	84.51	-1,079.69	9.69	2,865.00	2,802.91	62.09	46.140	
8,481.00	7,630.00	7,764.74	7,586.42	45.79	35.00	88.79	-1,079.71	9.71	2,839.44	2,777.26	62.18	45.664	
8,500.00	7,630.00	7,765.07	7,586.75	45.68	35.00	88.80	-1,079.72	9.71	2,823.73	2,761.50	62.23	45.372	
8,600.00	7,630.00	7,766.00	7,587.68	45.11	35.01	88.84	-1,079.74	9.72	2,741.75	2,679.22	62.53	43.844	
8,700.00	7,630.00	7,766.00	7,587.68	44.56	35.01	88.84	-1,079.74	9.72	2,661.00	2,598.13	62.87	42.327	
8,800.00	7,630.00	7,766.00	7,587.68	44.05	35.01	88.84	-1,079.74	9.72	2,581.60	2,518.35	63.25	40.819	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
8,900.00	7,630.00	7,766.00	7,587.68	43.57	35.01	88.84	-1,079.74	9.72	2,503.67	2,440.00	63.67	39.322	
9,000.00	7,630.00	7,766.00	7,587.68	43.12	35.01	88.84	-1,079.74	9.72	2,427.36	2,363.21	64.15	37.838	
9,100.00	7,630.00	7,773.87	7,595.55	42.70	35.03	89.12	-1,079.90	9.78	2,352.81	2,288.07	64.75	36.339	
9,200.00	7,630.00	7,775.37	7,597.05	42.31	35.04	89.17	-1,079.93	9.80	2,280.22	2,214.87	65.36	34.888	
9,300.00	7,630.00	7,776.89	7,598.56	41.94	35.04	89.23	-1,079.97	9.81	2,209.78	2,143.74	66.04	33.462	
9,400.00	7,630.00	7,778.42	7,600.10	41.59	35.04	89.28	-1,080.00	9.82	2,141.68	2,074.89	66.79	32.066	
9,500.00	7,630.00	7,779.98	7,601.65	41.26	35.05	89.34	-1,080.03	9.83	2,076.16	2,008.55	67.61	30.706	
9,600.00	7,630.00	7,781.55	7,603.23	40.96	35.05	89.40	-1,080.07	9.84	2,013.48	1,944.97	68.51	29.389	
9,700.00	7,630.00	7,783.15	7,604.82	40.68	35.06	89.45	-1,080.10	9.85	1,953.91	1,884.43	69.48	28.120	
9,800.00	7,630.00	7,784.76	7,606.43	40.42	35.06	89.51	-1,080.14	9.86	1,897.74	1,827.21	70.53	26.908	
9,900.00	7,630.00	7,786.40	7,608.07	40.17	35.07	89.57	-1,080.18	9.87	1,845.28	1,773.64	71.64	25.759	
10,000.00	7,630.00	7,788.05	7,609.72	39.96	35.07	89.63	-1,080.21	9.88	1,796.86	1,724.06	72.80	24.682	
10,100.00	7,630.00	7,789.73	7,611.40	40.05	35.08	89.69	-1,080.25	9.89	1,752.80	1,678.80	74.01	23.685	
10,200.00	7,630.00	7,791.43	7,613.10	40.95	35.08	89.75	-1,080.29	9.89	1,713.46	1,638.22	75.24	22.775	
10,300.00	7,630.00	7,793.15	7,614.82	41.94	35.09	89.81	-1,080.33	9.90	1,679.15	1,602.68	76.47	21.959	
10,400.00	7,630.00	7,794.89	7,616.56	42.98	35.09	89.88	-1,080.37	9.91	1,650.20	1,572.52	77.68	21.243	
10,500.00	7,630.00	7,796.66	7,618.32	44.06	35.10	89.94	-1,080.41	9.92	1,626.88	1,548.04	78.85	20.633	
10,600.00	7,630.00	7,798.45	7,620.11	45.17	35.11	90.00	-1,080.45	9.92	1,609.45	1,529.51	79.94	20.133	
10,700.00	7,630.00	7,800.26	7,621.93	46.32	35.11	90.07	-1,080.50	9.93	1,598.10	1,517.16	80.93	19.746	
10,800.00	7,630.00	7,802.10	7,623.76	47.50	35.12	90.14	-1,080.54	9.93	1,592.95	1,511.14	81.80	19.473	
10,832.19	7,630.00	7,802.69	7,624.36	47.88	35.12	90.16	-1,080.55	9.94	1,592.62	1,510.56	82.06	19.408	
10,900.00	7,630.00	7,803.96	7,625.63	48.70	35.12	90.20	-1,080.58	9.94	1,594.07	1,511.53	82.54	19.314	
11,000.00	7,630.00	7,805.85	7,627.51	49.94	35.13	90.27	-1,080.63	9.94	1,601.44	1,518.32	83.11	19.268	
11,100.00	7,630.00	7,807.76	7,629.43	51.20	35.13	90.34	-1,080.68	9.95	1,614.97	1,531.44	83.54	19.332	
11,200.00	7,630.00	7,809.70	7,631.37	52.48	35.14	90.41	-1,080.72	9.95	1,634.52	1,550.72	83.80	19.504	
11,300.00	7,630.00	7,811.67	7,633.33	53.79	35.15	90.48	-1,080.77	9.95	1,659.88	1,575.96	83.92	19.779	
11,400.00	7,630.00	7,813.66	7,635.33	55.12	35.15	90.55	-1,080.82	9.95	1,690.77	1,606.87	83.90	20.151	
11,500.00	7,630.00	7,815.69	7,637.35	56.46	35.16	90.62	-1,080.87	9.96	1,726.91	1,643.14	83.77	20.616	
11,600.00	7,630.00	7,817.74	7,639.40	57.83	35.16	90.70	-1,080.92	9.96	1,767.97	1,684.44	83.52	21.168	
11,700.00	7,630.00	7,819.82	7,641.48	59.22	35.17	90.77	-1,080.98	9.96	1,813.61	1,730.42	83.19	21.800	
11,800.00	7,630.00	7,821.93	7,643.59	60.62	35.18	90.85	-1,081.03	9.95	1,863.51	1,780.71	82.80	22.507	
11,900.00	7,630.00	7,824.07	7,645.73	62.04	35.18	90.93	-1,081.08	9.95	1,917.32	1,834.97	82.35	23.283	
12,000.00	7,630.00	7,826.25	7,647.91	63.48	35.19	91.00	-1,081.14	9.95	1,974.73	1,892.87	81.86	24.123	
12,100.00	7,630.00	7,828.45	7,650.11	64.93	35.20	91.08	-1,081.20	9.94	2,035.44	1,954.09	81.35	25.021	
12,200.00	7,630.00	7,830.69	7,652.35	66.39	35.20	91.16	-1,081.26	9.94	2,099.15	2,018.33	80.82	25.973	
12,300.00	7,630.00	7,832.96	7,654.62	67.86	35.21	91.25	-1,081.32	9.93	2,165.61	2,085.32	80.29	26.973	
12,400.00	7,630.00	7,835.27	7,656.92	69.35	35.22	91.33	-1,081.38	9.93	2,234.56	2,154.80	79.76	28.017	
12,500.00	7,630.00	7,837.61	7,659.26	70.85	35.22	91.41	-1,081.44	9.92	2,305.79	2,226.55	79.23	29.101	
12,600.00	7,630.00	7,839.98	7,661.64	72.36	35.23	91.50	-1,081.50	9.91	2,379.08	2,300.36	78.72	30.221	
12,700.00	7,630.00	7,842.40	7,664.05	73.88	35.24	91.58	-1,081.57	9.90	2,454.26	2,376.04	78.22	31.375	
12,800.00	7,630.00	7,844.85	7,666.50	75.41	35.25	91.67	-1,081.64	9.89	2,531.16	2,453.41	77.74	32.559	
12,900.00	7,630.00	7,847.34	7,668.99	76.95	35.25	91.76	-1,081.71	9.88	2,609.61	2,532.34	77.28	33.769	
13,000.00	7,630.00	7,849.87	7,671.52	78.49	35.26	91.85	-1,081.78	9.86	2,689.50	2,612.67	76.83	35.004	
13,100.00	7,630.00	7,852.43	7,674.08	80.05	35.27	91.94	-1,081.85	9.85	2,770.69	2,694.28	76.41	36.262	
13,200.00	7,630.00	7,855.04	7,676.69	81.61	35.28	92.04	-1,081.92	9.83	2,853.07	2,777.07	76.00	37.540	
13,300.00	7,630.00	7,857.70	7,679.34	83.18	35.28	92.13	-1,082.00	9.81	2,936.55	2,860.93	75.62	38.835	
13,400.00	7,630.00	7,860.39	7,682.04	84.76	35.29	92.23	-1,082.08	9.79	3,021.02	2,945.77	75.25	40.148	
13,500.00	7,630.00	7,863.13	7,684.77	86.34	35.30	92.33	-1,082.15	9.77	3,106.41	3,031.52	74.90	41.475	
13,600.00	7,630.00	7,864.91	7,686.55	87.94	35.31	92.39	-1,082.21	9.75	3,192.66	3,118.09	74.57	42.817	
13,700.00	7,630.00	7,867.31	7,688.95	89.53	35.31	92.48	-1,082.28	9.73	3,279.68	3,205.43	74.25	44.170	
13,800.00	7,630.00	7,869.74	7,691.38	91.13	35.32	92.57	-1,082.35	9.71	3,367.42	3,293.46	73.95	45.535	
13,900.00	7,630.00	7,872.20	7,693.84	92.74	35.33	92.65	-1,082.42	9.68	3,455.82	3,382.15	73.67	46.909	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 107-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,630.00	7,874.70	7,696.34	94.35	35.34	92.74	-1,082.50	9.65	3,544.84	3,471.43	73.40	48.292	
14,100.00	7,630.00	7,877.23	7,698.86	95.97	35.34	92.83	-1,082.57	9.62	3,634.42	3,561.27	73.15	49.683	
14,200.00	7,630.00	7,879.79	7,701.42	97.60	35.35	92.93	-1,082.65	9.59	3,724.54	3,651.63	72.91	51.082	
14,300.00	7,630.00	7,882.38	7,704.01	99.22	35.36	93.02	-1,082.73	9.55	3,815.14	3,742.46	72.69	52.487	
14,400.00	7,630.00	7,885.01	7,706.64	100.85	35.37	93.11	-1,082.81	9.52	3,906.20	3,833.73	72.47	53.898	
14,500.00	7,630.00	7,887.67	7,709.30	102.49	35.38	93.21	-1,082.89	9.48	3,997.69	3,925.42	72.27	55.314	
14,600.00	7,630.00	7,890.37	7,712.00	104.13	35.39	93.31	-1,082.97	9.43	4,089.58	4,017.49	72.08	56.735	
14,700.00	7,630.00	7,893.10	7,714.73	105.77	35.39	93.40	-1,083.06	9.39	4,181.83	4,109.93	71.90	58.159	
14,800.00	7,630.00	7,895.88	7,717.50	107.42	35.40	93.50	-1,083.15	9.34	4,274.43	4,202.70	71.73	59.588	
14,900.00	7,630.00	7,898.69	7,720.31	109.07	35.41	93.60	-1,083.24	9.29	4,367.35	4,295.78	71.57	61.019	
15,000.00	7,630.00	7,901.54	7,723.16	110.72	35.42	93.70	-1,083.33	9.24	4,460.58	4,389.16	71.42	62.453	
15,100.00	7,630.00	7,904.42	7,726.04	112.38	35.43	93.81	-1,083.42	9.18	4,554.10	4,482.82	71.28	63.890	
15,200.00	7,630.00	7,907.35	7,728.97	114.04	35.44	93.91	-1,083.51	9.12	4,647.88	4,576.73	71.15	65.328	
15,300.00	7,630.00	7,910.32	7,731.94	115.71	35.45	94.02	-1,083.61	9.06	4,741.91	4,670.89	71.02	66.768	
15,400.00	7,630.00	7,913.33	7,734.95	117.37	35.46	94.13	-1,083.71	8.99	4,836.18	4,765.28	70.90	68.209	
15,500.00	7,630.00	7,916.39	7,738.00	119.04	35.47	94.23	-1,083.81	8.92	4,930.68	4,859.89	70.79	69.651	
15,600.00	7,630.00	7,919.48	7,741.09	120.71	35.47	94.35	-1,083.91	8.85	5,025.39	4,954.70	70.69	71.094	
15,700.00	7,630.00	7,922.63	7,744.23	122.39	35.48	94.46	-1,084.02	8.77	5,120.29	5,049.70	70.59	72.538	
15,800.00	7,630.00	7,925.82	7,747.42	124.06	35.49	94.57	-1,084.12	8.69	5,215.38	5,144.89	70.50	73.981	
15,900.00	7,630.00	7,929.05	7,750.65	125.74	35.50	94.69	-1,084.23	8.61	5,310.66	5,240.25	70.41	75.425	
16,000.00	7,630.00	7,932.33	7,753.93	127.42	35.51	94.80	-1,084.35	8.52	5,406.10	5,335.77	70.33	76.868	
16,100.00	7,630.00	7,935.66	7,757.26	129.10	35.52	94.92	-1,084.46	8.43	5,501.70	5,431.44	70.25	78.311	
16,200.00	7,630.00	7,939.05	7,760.64	130.79	35.53	95.04	-1,084.58	8.33	5,597.45	5,527.27	70.19	79.753	
16,300.00	7,630.00	7,942.48	7,764.07	132.48	35.55	95.16	-1,084.70	8.23	5,693.35	5,623.23	70.12	81.194	
16,400.00	7,630.00	16,400.00	7,818.65	134.17	62.42	97.10	-1,086.82	7.28	5,789.22	5,690.42	98.79	58.601	
16,500.00	7,630.00	16,500.00	7,822.60	135.86	62.74	97.24	-1,086.97	7.23	5,885.35	5,786.28	99.07	59.408	
16,600.00	7,630.00	16,600.00	7,826.56	137.55	63.05	97.38	-1,087.13	7.17	5,981.60	5,882.26	99.35	60.210	
16,700.00	7,630.00	16,700.00	7,830.52	139.24	63.37	97.52	-1,087.28	7.12	6,077.98	5,978.35	99.63	61.006	
16,800.00	7,630.00	8,105.95	7,927.38	140.94	36.07	100.91	-1,091.46	7.25	6,174.46	6,104.38	70.08	88.109	
16,900.00	7,630.00	8,120.71	7,942.11	142.64	36.12	101.42	-1,092.17	7.50	6,270.98	6,200.93	70.05	89.519	
17,000.00	7,630.00	8,136.10	7,957.48	144.34	36.17	101.95	-1,092.92	7.80	6,367.60	6,297.57	70.03	90.926	
17,100.00	7,630.00	8,160.95	7,982.30	146.04	36.25	102.80	-1,094.17	8.37	6,464.31	6,394.29	70.03	92.312	
17,200.00	7,630.00	17,200.00	8,111.91	147.74	69.00	107.20	-1,101.98	13.04	6,560.87	6,460.57	100.30	65.411	
17,300.00	7,630.00	17,300.00	8,118.61	149.44	69.38	107.42	-1,102.44	13.31	6,657.64	6,557.03	100.61	66.171	
17,400.00	7,630.00	8,349.86	8,170.68	151.15	36.91	109.14	-1,106.16	15.36	6,754.47	6,684.25	70.22	96.187	
17,500.00	7,630.00	8,353.68	8,174.49	152.86	36.92	109.26	-1,106.44	15.51	6,851.37	6,781.17	70.20	97.595	
17,600.00	7,630.00	8,357.45	8,178.25	154.56	36.94	109.38	-1,106.72	15.65	6,948.36	6,878.17	70.18	99.001	
17,700.00	7,630.00	8,361.18	8,181.96	156.27	36.95	109.50	-1,107.00	15.78	7,045.42	6,975.25	70.17	100.404	
17,800.00	7,630.00	8,364.86	8,185.64	157.98	36.96	109.62	-1,107.27	15.92	7,142.56	7,072.40	70.16	101.804	
17,900.00	7,630.00	8,368.50	8,189.26	159.70	36.98	109.74	-1,107.53	16.05	7,239.78	7,169.63	70.15	103.202	
18,000.00	7,630.00	8,372.10	8,192.85	161.41	36.99	109.86	-1,107.79	16.18	7,337.07	7,266.92	70.15	104.598	
18,100.00	7,630.00	8,375.65	8,196.39	163.12	37.00	109.97	-1,108.05	16.30	7,434.42	7,364.28	70.14	105.991	
18,154.00	7,630.00	8,377.55	8,198.28	164.05	37.01	110.03	-1,108.18	16.37	7,487.03	7,416.88	70.14	106.742	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
0.00	0.00	0.00	0.00	0.00	0.00	-3.97	217.84	-15.12	218.60				
100.00	100.00	87.88	87.88	0.13	0.14	-3.95	218.28	-15.06	218.81	218.53	0.28	783.277	
200.00	200.00	188.61	188.60	0.49	0.40	-3.77	219.50	-14.48	219.98	219.08	0.90	245.593	
300.00	300.00	292.90	292.82	0.85	0.78	-2.85	219.37	-10.92	219.66	218.04	1.63	135.045	
400.00	400.00	394.78	394.39	1.21	1.15	-0.86	217.77	-3.28	217.84	215.48	2.36	92.260	
500.00	500.00	493.72	492.58	1.57	1.54	2.32	215.94	8.76	216.13	213.02	3.11	69.519	
600.00	600.00	598.76	596.30	1.93	1.98	6.68	212.65	24.89	214.19	210.28	3.91	54.774	
700.00	700.00	694.47	690.28	2.29	2.42	11.53	208.28	42.50	212.57	207.86	4.71	45.150	
702.74	702.74	696.99	692.74	2.30	2.44	11.67	208.17	43.01	212.57	207.84	4.73	44.937	CC, ES
800.00	800.00	785.13	778.65	2.64	2.87	16.92	205.35	62.48	214.95	209.44	5.51	39.016	
900.00	900.00	866.74	857.75	3.00	3.29	21.75	206.65	82.44	224.82	218.57	6.25	35.978	
1,000.00	1,000.00	966.94	954.57	3.36	3.83	27.08	211.03	107.90	239.65	232.56	7.09	33.821	
1,100.00	1,100.00	1,065.48	1,049.76	3.72	4.37	32.01	213.19	133.25	254.61	246.71	7.90	32.239	
1,200.00	1,200.00	1,160.31	1,141.12	4.08	4.91	36.42	215.01	158.63	271.63	262.96	8.67	31.330	
1,300.00	1,300.00	1,257.01	1,234.28	4.44	5.46	40.35	217.14	184.46	290.31	280.88	9.43	30.771	
1,400.00	1,400.00	1,349.34	1,323.61	4.79	5.98	43.21	220.82	207.47	310.18	300.04	10.14	30.580	
1,500.00	1,499.98	1,440.73	1,411.74	5.15	6.49	7.64	227.13	230.84	331.48	320.65	10.83	30.606	
1,600.00	1,599.84	1,537.21	1,504.74	5.51	7.04	9.77	234.02	255.57	350.15	338.61	11.53	30.357	
1,700.00	1,699.45	1,630.37	1,594.28	5.87	7.58	11.73	241.14	280.26	366.91	354.71	12.21	30.059	
1,800.00	1,798.70	1,728.64	1,688.62	6.23	8.15	13.54	250.14	306.25	381.66	368.74	12.92	29.548	
1,900.00	1,897.47	1,830.51	1,786.71	6.60	8.73	15.33	259.48	332.10	392.56	378.91	13.65	28.758	
2,000.00	1,995.62	1,938.41	1,890.88	6.99	9.34	17.34	268.39	358.77	399.45	385.02	14.43	27.683	
2,100.00	2,093.06	2,039.99	1,989.34	7.39	9.90	19.56	274.39	383.00	401.44	386.29	15.15	26.500	
2,200.00	2,189.64	2,134.19	2,080.57	7.82	10.43	21.79	280.08	405.81	401.16	385.35	15.81	25.376	
2,300.00	2,285.27	2,230.68	2,173.80	8.28	10.98	24.24	286.62	429.79	399.30	382.80	16.49	24.209	
2,400.00	2,379.82	2,337.81	2,277.54	8.77	11.58	27.24	293.55	455.59	394.28	377.00	17.28	22.818	
2,500.00	2,473.17	2,436.87	2,373.81	9.31	12.11	30.42	299.24	478.24	385.76	367.74	18.02	21.406	
2,600.00	2,565.21	2,532.58	2,466.88	9.88	12.63	33.86	305.09	499.81	375.33	356.55	18.78	19.984	
2,660.67	2,620.37	2,586.74	2,519.43	10.25	12.93	36.11	308.02	512.55	368.77	349.53	19.25	19.161	
2,700.00	2,655.96	2,622.19	2,553.75	10.50	13.12	37.68	309.56	521.31	364.91	345.35	19.57	18.651	
2,800.00	2,746.43	2,719.50	2,647.98	11.15	13.67	42.23	313.07	545.37	356.54	336.02	20.52	17.376	
2,900.00	2,836.90	2,811.81	2,737.28	11.82	14.20	46.63	316.89	568.41	350.87	329.33	21.54	16.289	
3,000.00	2,927.37	2,906.35	2,828.64	12.50	14.74	51.30	320.36	592.45	348.16	325.45	22.71	15.330	
3,043.18	2,966.44	2,947.13	2,868.04	12.81	14.97	53.38	321.55	602.89	347.89	324.63	23.26	14.957	
3,100.00	3,017.85	3,000.72	2,919.81	13.21	15.28	56.11	323.11	616.66	348.37	324.36	24.01	14.509	
3,200.00	3,108.32	3,096.01	3,011.75	13.92	15.84	60.79	326.74	641.44	351.48	326.06	25.42	13.826	
3,300.00	3,198.79	3,197.09	3,109.36	14.64	16.42	65.39	332.41	667.08	356.04	329.07	26.97	13.201	
3,400.00	3,289.27	3,294.49	3,203.49	15.38	16.98	69.61	338.63	691.31	362.07	333.54	28.53	12.690	
3,500.00	3,379.74	3,393.49	3,299.39	16.12	17.53	73.80	344.98	715.08	369.29	339.14	30.15	12.249	
3,600.00	3,470.21	3,488.10	3,391.11	16.87	18.06	77.70	350.70	737.52	378.34	346.60	31.74	11.920	
3,700.00	3,560.68	3,580.45	3,480.78	17.62	18.57	81.53	354.80	759.23	389.86	356.55	33.31	11.704	
3,800.00	3,651.16	3,674.52	3,572.01	18.39	19.09	85.24	358.25	781.92	404.16	369.28	34.87	11.590	
3,900.00	3,741.63	3,772.67	3,667.33	19.15	19.63	88.86	362.34	804.96	419.37	382.92	36.45	11.507	
4,000.00	3,832.10	3,865.84	3,757.71	19.92	20.14	92.03	366.05	827.27	436.58	398.67	37.92	11.515	
4,100.00	3,922.57	3,963.67	3,852.68	20.69	20.68	95.13	370.08	850.39	454.83	415.43	39.40	11.544	
4,200.00	4,013.05	4,065.10	3,951.21	21.47	21.23	98.10	374.63	874.04	473.84	432.96	40.88	11.591	
4,300.00	4,103.52	4,163.78	4,047.25	22.25	21.76	100.76	380.50	895.95	492.10	449.82	42.28	11.639	
4,400.00	4,193.99	4,256.69	4,137.66	23.03	22.26	103.11	385.24	916.83	512.11	468.53	43.58	11.751	
4,500.00	4,284.47	4,356.97	4,235.22	23.81	22.79	105.44	390.82	939.33	532.60	487.68	44.92	11.856	
4,600.00	4,374.94	4,446.46	4,322.56	24.60	23.27	107.49	395.47	958.30	553.54	507.43	46.11	12.005	
4,700.00	4,465.41	4,536.65	4,410.29	25.39	23.75	109.34	399.04	978.90	576.97	529.70	47.27	12.206	
4,800.00	4,555.88	4,636.66	4,507.60	26.18	24.28	111.23	403.36	1,001.56	600.64	552.12	48.53	12.378	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
4,900.00	4,646.36	4,730.45	4,598.88	26.97	24.79	112.87	407.79	1,022.67	624.46	574.77	49.69	12.568	
5,000.00	4,736.83	4,816.79	4,682.96	27.76	25.24	114.32	410.95	1,042.01	649.64	598.92	50.72	12.808	
5,100.00	4,827.30	4,908.77	4,772.96	28.55	25.70	115.97	412.13	1,060.94	676.64	624.87	51.77	13.071	
5,200.00	4,917.77	5,010.26	4,872.94	29.35	26.16	117.94	412.88	1,078.31	703.47	650.62	52.85	13.312	
5,300.00	5,008.25	5,108.15	4,969.81	30.15	26.57	119.91	413.42	1,092.35	730.26	676.45	53.80	13.573	
5,400.00	5,098.72	5,204.93	5,065.86	30.94	26.95	121.87	413.78	1,104.23	757.34	702.66	54.68	13.851	
5,500.00	5,189.19	5,303.93	5,164.39	31.74	27.30	123.92	414.02	1,113.92	784.69	729.20	55.50	14.140	
5,600.00	5,279.67	5,401.43	5,261.68	32.54	27.61	126.03	414.23	1,120.24	812.18	755.97	56.21	14.450	
5,700.00	5,370.14	5,494.41	5,354.56	33.34	27.89	128.04	414.37	1,124.27	840.25	783.45	56.81	14.791	
5,800.00	5,460.61	5,588.00	5,448.10	34.14	28.15	130.00	414.46	1,127.44	869.19	811.81	57.38	15.149	
5,900.00	5,551.08	5,682.02	5,542.10	34.94	28.41	131.90	414.74	1,129.79	898.76	840.85	57.91	15.520	
6,000.00	5,641.56	5,773.25	5,633.32	35.75	28.64	133.72	415.01	1,130.63	929.05	870.67	58.37	15.916	
6,100.00	5,732.03	5,865.60	5,725.67	36.55	28.87	135.51	415.24	1,130.61	960.19	901.38	58.81	16.327	
6,200.00	5,822.50	5,954.88	5,814.94	37.35	29.08	137.15	415.56	1,130.37	992.07	932.86	59.21	16.755	
6,300.00	5,912.97	6,045.32	5,905.39	38.16	29.29	138.72	415.72	1,130.02	1,024.88	965.27	59.61	17.194	
6,400.00	6,003.45	6,136.68	5,996.74	38.96	29.50	140.23	415.99	1,129.44	1,058.30	998.29	60.00	17.637	
6,500.00	6,093.92	6,225.29	6,085.35	39.77	29.71	141.62	416.24	1,128.75	1,092.38	1,031.99	60.38	18.091	
6,600.00	6,184.39	6,314.16	6,174.21	40.57	29.92	142.93	416.29	1,128.06	1,127.26	1,066.49	60.77	18.551	
6,700.00	6,274.87	6,406.24	6,266.29	41.38	30.13	144.23	416.39	1,126.95	1,162.67	1,101.50	61.17	19.007	
6,800.00	6,365.34	6,496.67	6,356.71	42.18	30.34	145.46	416.70	1,125.47	1,198.42	1,136.86	61.56	19.467	
6,900.00	6,455.81	6,581.16	6,441.19	42.99	30.54	146.55	416.80	1,124.01	1,234.86	1,172.95	61.91	19.945	
7,000.00	6,546.28	6,666.08	6,526.09	43.80	30.74	147.59	416.38	1,122.52	1,272.29	1,210.01	62.28	20.430	
7,100.00	6,636.76	6,766.24	6,626.24	44.61	30.98	148.72	416.10	1,121.22	1,309.88	1,247.10	62.78	20.864	
7,200.00	6,727.23	6,867.17	6,727.17	45.41	31.24	149.76	416.60	1,121.00	1,346.95	1,283.61	63.33	21.268	
7,300.00	6,817.70	6,959.15	6,819.14	46.22	31.50	150.61	417.21	1,121.78	1,384.01	1,320.16	63.85	21.676	
7,383.79	6,893.51	7,035.81	6,895.80	46.90	31.72	151.27	417.68	1,122.71	1,415.24	1,350.95	64.29	22.012	
7,400.00	6,908.25	7,051.23	6,911.22	47.03	31.76	148.93	417.78	1,122.90	1,421.09	1,356.70	64.38	22.072	
7,450.00	6,954.52	7,099.63	6,959.61	47.40	31.90	140.06	418.15	1,123.46	1,436.45	1,371.79	64.66	22.217	
7,500.00	7,001.74	7,148.05	7,008.03	47.72	32.04	128.12	418.57	1,124.03	1,447.72	1,382.81	64.91	22.303	
7,550.00	7,049.55	7,196.84	7,056.80	47.99	32.18	112.97	418.98	1,124.77	1,454.86	1,389.71	65.15	22.330	
7,600.00	7,097.58	7,245.91	7,105.87	48.21	32.32	96.15	419.40	1,125.61	1,457.84	1,392.47	65.38	22.300	
7,650.00	7,145.48	7,294.79	7,154.74	48.37	32.47	80.60	419.85	1,126.43	1,456.66	1,391.09	65.57	22.215	
7,700.00	7,192.88	7,346.70	7,206.64	48.48	32.62	68.36	420.45	1,127.17	1,451.30	1,385.54	65.77	22.068	
7,750.00	7,239.41	7,397.58	7,257.52	48.54	32.77	59.59	421.28	1,127.62	1,441.77	1,375.85	65.92	21.870	
7,800.00	7,284.72	7,433.44	7,293.37	48.56	32.87	53.43	421.81	1,127.78	1,428.43	1,362.51	65.93	21.667	
7,850.00	7,328.47	7,469.62	7,329.54	48.54	32.97	49.33	422.20	1,127.81	1,411.54	1,345.63	65.91	21.417	
7,900.00	7,370.32	7,507.52	7,367.45	48.47	33.07	46.81	422.46	1,127.73	1,391.19	1,325.31	65.89	21.115	
7,950.00	7,409.96	7,545.60	7,405.53	48.37	33.17	45.53	422.68	1,127.60	1,367.45	1,301.60	65.85	20.765	
8,000.00	7,447.08	7,581.34	7,441.26	48.24	33.27	45.25	422.87	1,127.44	1,340.50	1,274.71	65.79	20.375	
8,050.00	7,481.41	7,615.13	7,475.05	48.07	33.36	45.88	423.05	1,127.24	1,310.56	1,244.86	65.71	19.946	
8,100.00	7,512.67	7,645.82	7,505.73	47.87	33.44	47.37	423.22	1,126.99	1,277.89	1,212.30	65.59	19.483	
8,150.00	7,540.64	7,673.16	7,533.08	47.65	33.51	49.74	423.39	1,126.73	1,242.76	1,177.31	65.45	18.989	
8,200.00	7,565.09	7,696.70	7,556.62	47.40	33.57	53.03	423.53	1,126.49	1,205.47	1,140.19	65.28	18.467	
8,250.00	7,585.85	7,716.71	7,576.62	47.14	33.63	57.33	423.63	1,126.30	1,166.33	1,101.25	65.08	17.920	
8,300.00	7,602.75	7,733.00	7,592.92	46.86	33.67	62.71	423.71	1,126.15	1,125.68	1,060.80	64.87	17.352	
8,350.00	7,615.67	7,745.45	7,605.36	46.58	33.70	69.16	423.76	1,126.04	1,083.82	1,019.18	64.65	16.765	
8,400.00	7,624.51	7,753.92	7,613.84	46.28	33.72	76.58	423.79	1,125.97	1,041.12	976.71	64.41	16.165	
8,450.00	7,629.19	7,758.35	7,618.26	45.98	33.74	84.69	423.81	1,125.93	997.89	933.74	64.15	15.555	
8,481.00	7,630.00	7,759.03	7,618.95	45.79	33.74	89.87	423.81	1,125.92	970.98	906.99	63.99	15.173	
8,500.00	7,630.00	7,758.97	7,618.88	45.68	33.74	89.87	423.81	1,125.92	954.53	890.64	63.89	14.940	
8,600.00	7,630.00	7,758.62	7,618.54	45.11	33.74	89.83	423.81	1,125.93	869.67	806.34	63.33	13.733	
8,700.00	7,630.00	7,758.28	7,618.19	44.56	33.74	89.78	423.80	1,125.93	788.36	725.65	62.71	12.571	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 139-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,800.00	7,630.00	7,757.93	7,617.84	44.05	33.74	89.74	423.80	1,125.93	711.83	649.74	62.08	11.466	
8,900.00	7,630.00	7,757.58	7,617.49	43.57	33.73	89.70	423.80	1,125.94	641.78	580.26	61.52	10.432	
9,000.00	7,630.00	7,757.22	7,617.14	43.12	33.73	89.66	423.80	1,125.94	580.58	519.40	61.18	9.490	
9,100.00	7,630.00	7,756.87	7,616.78	42.70	33.73	89.62	423.80	1,125.94	531.28	469.98	61.30	8.667	
9,200.00	7,630.00	7,756.51	7,616.42	42.31	33.73	89.57	423.80	1,125.94	497.44	435.29	62.15	8.004	
9,300.00	7,630.00	7,756.15	7,616.06	41.94	33.73	89.53	423.80	1,125.95	482.31	418.50	63.81	7.559	
9,324.07	7,630.00	7,756.06	7,615.98	41.85	33.73	89.52	423.80	1,125.95	481.71	417.40	64.32	7.490	
9,400.00	7,630.00	7,755.79	7,615.70	41.59	33.73	89.49	423.80	1,125.95	487.66	421.65	66.01	7.388	SF
9,500.00	7,630.00	7,755.42	7,615.34	41.26	33.73	89.45	423.79	1,125.95	512.83	444.63	68.20	7.519	
9,600.00	7,630.00	7,755.06	7,614.97	40.96	33.73	89.40	423.79	1,125.96	555.14	485.17	69.97	7.934	
9,700.00	7,630.00	7,754.69	7,614.60	40.68	33.73	89.36	423.79	1,125.96	611.04	539.85	71.19	8.583	
9,800.00	7,630.00	7,754.32	7,614.23	40.42	33.73	89.31	423.79	1,125.96	677.16	605.22	71.94	9.413	
9,900.00	7,630.00	7,753.94	7,613.86	40.17	33.72	89.27	423.79	1,125.97	750.82	678.46	72.36	10.376	
10,000.00	7,630.00	7,753.57	7,613.48	39.96	33.72	89.22	423.79	1,125.97	830.01	757.44	72.57	11.438	
10,100.00	7,630.00	7,753.19	7,613.10	40.05	33.72	89.18	423.79	1,125.97	913.29	840.65	72.64	12.573	
10,200.00	7,630.00	7,752.80	7,612.72	40.95	33.72	89.13	423.79	1,125.98	999.64	927.01	72.63	13.763	
10,300.00	7,630.00	7,752.42	7,612.33	41.94	33.72	89.09	423.78	1,125.98	1,088.33	1,015.75	72.58	14.994	
10,400.00	7,630.00	7,752.03	7,611.95	42.98	33.72	89.04	423.78	1,125.98	1,178.83	1,106.33	72.51	16.258	
10,500.00	7,630.00	7,751.64	7,611.56	44.06	33.72	89.00	423.78	1,125.99	1,270.76	1,198.34	72.42	17.547	
10,600.00	7,630.00	7,751.25	7,611.16	45.17	33.72	88.95	423.78	1,125.99	1,363.82	1,291.50	72.33	18.856	
10,700.00	7,630.00	7,750.86	7,610.77	46.32	33.72	88.90	423.78	1,125.99	1,457.81	1,385.57	72.24	20.181	
10,800.00	7,630.00	7,750.46	7,610.37	47.50	33.72	88.85	423.78	1,126.00	1,552.54	1,480.39	72.15	21.520	
10,900.00	7,630.00	7,750.06	7,609.97	48.70	33.71	88.81	423.77	1,126.00	1,647.90	1,575.84	72.06	22.868	
11,000.00	7,630.00	7,749.66	7,609.57	49.94	33.71	88.76	423.77	1,126.00	1,743.77	1,671.79	71.98	24.226	
11,100.00	7,630.00	7,749.25	7,609.16	51.20	33.71	88.71	423.77	1,126.01	1,840.09	1,768.18	71.90	25.591	
11,200.00	7,630.00	7,748.84	7,608.75	52.48	33.71	88.66	423.77	1,126.01	1,936.78	1,864.94	71.84	26.961	
11,300.00	7,630.00	7,748.43	7,608.34	53.79	33.71	88.61	423.77	1,126.01	2,033.78	1,962.01	71.77	28.337	
11,400.00	7,630.00	7,748.02	7,607.93	55.12	33.71	88.56	423.77	1,126.02	2,131.07	2,059.36	71.71	29.717	
11,500.00	7,630.00	7,747.60	7,607.51	56.46	33.71	88.51	423.77	1,126.02	2,228.60	2,156.94	71.66	31.101	
11,600.00	7,630.00	7,747.18	7,607.09	57.83	33.71	88.46	423.76	1,126.02	2,326.33	2,254.72	71.61	32.488	
11,700.00	7,630.00	7,746.76	7,606.67	59.22	33.71	88.41	423.76	1,126.03	2,424.25	2,352.69	71.56	33.877	
11,800.00	7,630.00	7,746.33	7,606.24	60.62	33.70	88.36	423.76	1,126.03	2,522.34	2,450.82	71.52	35.267	
11,900.00	7,630.00	7,745.90	7,605.81	62.04	33.70	88.31	423.76	1,126.03	2,620.56	2,549.08	71.48	36.660	
12,000.00	7,630.00	7,745.47	7,605.38	63.48	33.70	88.26	423.76	1,126.04	2,718.92	2,647.47	71.45	38.054	
12,100.00	7,630.00	7,745.03	7,604.95	64.93	33.70	88.21	423.76	1,126.04	2,817.39	2,745.98	71.42	39.449	
12,200.00	7,630.00	7,744.60	7,604.51	66.39	33.70	88.16	423.75	1,126.05	2,915.97	2,844.58	71.39	40.845	
12,300.00	7,630.00	7,744.15	7,604.07	67.86	33.70	88.11	423.75	1,126.05	3,014.64	2,943.27	71.37	42.241	
12,400.00	7,630.00	7,743.71	7,603.62	69.35	33.70	88.05	423.75	1,126.05	3,113.40	3,042.05	71.35	43.638	
12,500.00	7,630.00	7,743.26	7,603.18	70.85	33.70	88.00	423.75	1,126.06	3,212.23	3,140.90	71.33	45.035	
12,600.00	7,630.00	7,742.81	7,602.72	72.36	33.70	87.95	423.75	1,126.06	3,311.13	3,239.82	71.31	46.432	
12,700.00	7,630.00	7,742.36	7,602.27	73.88	33.69	87.89	423.74	1,126.07	3,410.10	3,338.80	71.30	47.828	
12,800.00	7,630.00	7,741.90	7,601.81	75.41	33.69	87.84	423.74	1,126.07	3,509.12	3,437.83	71.29	49.225	
12,900.00	7,630.00	7,741.44	7,601.35	76.95	33.69	87.78	423.74	1,126.07	3,608.20	3,536.92	71.28	50.621	
13,000.00	7,630.00	7,740.97	7,600.89	78.49	33.69	87.73	423.74	1,126.08	3,707.33	3,636.06	71.27	52.016	
13,100.00	7,630.00	7,740.51	7,600.42	80.05	33.69	87.67	423.74	1,126.08	3,806.50	3,735.23	71.27	53.411	
13,200.00	7,630.00	7,740.04	7,599.95	81.61	33.69	87.62	423.74	1,126.09	3,905.72	3,834.45	71.27	54.805	
13,300.00	7,630.00	7,739.56	7,599.48	83.18	33.69	87.56	423.73	1,126.09	4,004.97	3,933.71	71.26	56.199	
13,400.00	7,630.00	7,739.08	7,599.00	84.76	33.69	87.50	423.73	1,126.09	4,104.26	4,033.00	71.27	57.591	
13,500.00	7,630.00	7,738.60	7,598.52	86.34	33.68	87.45	423.73	1,126.10	4,203.59	4,132.32	71.27	58.983	
13,600.00	7,630.00	7,738.12	7,598.03	87.94	33.68	87.39	423.73	1,126.10	4,302.94	4,231.67	71.27	60.373	
13,700.00	7,630.00	7,737.63	7,597.54	89.53	33.68	87.33	423.73	1,126.11	4,402.33	4,331.05	71.28	61.762	
13,800.00	7,630.00	7,737.13	7,597.05	91.13	33.68	87.27	423.72	1,126.11	4,501.74	4,430.45	71.29	63.150	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference 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
13,900.00	7,630.00	7,736.64	7,596.55	92.74	33.68	87.21	423.72	1,126.12	4,601.18	4,529.88	71.30	64.537	
14,000.00	7,630.00	7,736.14	7,596.05	94.35	33.68	87.15	423.72	1,126.12	4,700.64	4,629.33	71.31	65.922	
14,100.00	7,630.00	7,735.63	7,595.55	95.97	33.68	87.09	423.72	1,126.12	4,800.12	4,728.80	71.32	67.306	
14,200.00	7,630.00	7,735.13	7,595.04	97.60	33.68	87.03	423.71	1,126.13	4,899.63	4,828.30	71.33	68.689	
14,300.00	7,630.00	7,734.61	7,594.53	99.22	33.67	86.97	423.71	1,126.13	4,999.15	4,927.81	71.35	70.069	
14,400.00	7,630.00	7,734.10	7,594.01	100.85	33.67	86.91	423.71	1,126.14	5,098.69	5,027.33	71.36	71.449	
14,500.00	7,630.00	7,733.58	7,593.49	102.49	33.67	86.85	423.71	1,126.14	5,198.25	5,126.88	71.38	72.826	
14,600.00	7,630.00	7,733.06	7,592.97	104.13	33.67	86.79	423.71	1,126.15	5,297.83	5,226.43	71.40	74.202	
14,700.00	7,630.00	7,732.53	7,592.44	105.77	33.67	86.72	423.70	1,126.15	5,397.42	5,326.01	71.42	75.576	
14,800.00	7,630.00	7,732.00	7,591.91	107.42	33.67	86.66	423.70	1,126.16	5,497.03	5,425.59	71.44	76.949	
14,900.00	7,630.00	7,731.46	7,591.37	109.07	33.67	86.60	423.70	1,126.16	5,596.65	5,525.19	71.46	78.319	
15,000.00	7,630.00	7,730.92	7,590.83	110.72	33.66	86.53	423.70	1,126.17	5,696.29	5,624.80	71.48	79.688	
15,100.00	7,630.00	7,730.37	7,590.29	112.38	33.66	86.47	423.69	1,126.17	5,795.93	5,724.43	71.51	81.055	
15,200.00	7,630.00	7,729.83	7,589.74	114.04	33.66	86.40	423.69	1,126.18	5,895.59	5,824.06	71.53	82.419	
15,300.00	7,630.00	7,729.27	7,589.19	115.71	33.66	86.34	423.69	1,126.18	5,995.26	5,923.70	71.56	83.782	
15,400.00	7,630.00	7,728.71	7,588.63	117.37	33.66	86.27	423.69	1,126.19	6,094.94	6,023.36	71.59	85.142	
15,500.00	7,630.00	7,728.15	7,588.07	119.04	33.66	86.21	423.68	1,126.19	6,194.64	6,123.02	71.61	86.501	
15,600.00	7,630.00	7,727.58	7,587.50	120.71	33.66	86.14	423.68	1,126.20	6,294.34	6,222.69	71.64	87.857	
15,700.00	7,630.00	7,727.01	7,586.93	122.39	33.65	86.07	423.68	1,126.20	6,394.05	6,322.37	71.67	89.211	
15,800.00	7,630.00	7,726.44	7,586.35	124.06	33.65	86.00	423.68	1,126.21	6,493.77	6,422.06	71.70	90.563	
15,900.00	7,630.00	7,725.86	7,585.77	125.74	33.65	85.93	423.67	1,126.21	6,593.49	6,521.76	71.74	91.913	
16,000.00	7,630.00	7,725.27	7,585.18	127.42	33.65	85.86	423.67	1,126.22	6,693.23	6,621.46	71.77	93.260	
16,100.00	7,630.00	7,724.68	7,584.59	129.10	33.65	85.79	423.67	1,126.22	6,792.97	6,721.17	71.80	94.605	
16,200.00	7,630.00	7,724.08	7,584.00	130.79	33.65	85.72	423.67	1,126.23	6,892.72	6,820.88	71.84	95.947	
16,300.00	7,630.00	7,723.48	7,583.40	132.48	33.64	85.65	423.66	1,126.23	6,992.48	6,920.61	71.87	97.288	
16,400.00	7,630.00	7,722.88	7,582.79	134.17	33.64	85.58	423.66	1,126.24	7,092.25	7,020.33	71.91	98.625	
16,500.00	7,630.00	7,722.27	7,582.18	135.86	33.64	85.51	423.66	1,126.24	7,192.02	7,120.07	71.95	99.960	
16,600.00	7,630.00	7,721.65	7,581.57	137.55	33.64	85.44	423.65	1,126.25	7,291.79	7,219.81	71.99	101.293	
16,700.00	7,630.00	7,721.03	7,580.95	139.24	33.64	85.36	423.65	1,126.26	7,391.58	7,319.55	72.03	102.623	
16,800.00	7,630.00	7,720.40	7,580.32	140.94	33.64	85.29	423.65	1,126.26	7,491.37	7,419.30	72.07	103.951	
16,900.00	7,630.00	7,719.77	7,579.69	142.64	33.63	85.21	423.65	1,126.27	7,591.16	7,519.05	72.11	105.276	
17,000.00	7,630.00	7,719.14	7,579.05	144.34	33.63	85.14	423.64	1,126.27	7,690.96	7,618.81	72.15	106.598	
17,100.00	7,630.00	7,718.49	7,578.41	146.04	33.63	85.06	423.64	1,126.28	7,790.77	7,718.57	72.19	107.918	
17,200.00	7,630.00	7,717.84	7,577.76	147.74	33.63	84.98	423.64	1,126.29	7,890.58	7,818.34	72.24	109.235	
17,300.00	7,630.00	7,717.19	7,577.11	149.44	33.63	84.91	423.63	1,126.29	7,990.39	7,918.11	72.28	110.549	
17,400.00	7,630.00	7,716.53	7,576.45	151.15	33.63	84.83	423.63	1,126.30	8,090.21	8,017.89	72.32	111.861	
17,500.00	7,630.00	7,715.87	7,575.78	152.86	33.62	84.75	423.63	1,126.30	8,190.03	8,117.66	72.37	113.169	
17,600.00	7,630.00	7,715.19	7,575.11	154.56	33.62	84.67	423.62	1,126.31	8,289.86	8,217.45	72.42	114.475	
17,700.00	7,630.00	7,714.52	7,574.43	156.27	33.62	84.59	423.62	1,126.32	8,389.69	8,317.23	72.46	115.778	
17,800.00	7,630.00	7,713.83	7,573.75	157.98	33.62	84.51	423.62	1,126.32	8,489.53	8,417.02	72.51	117.079	
17,900.00	7,630.00	7,713.14	7,573.06	159.70	33.62	84.43	423.61	1,126.33	8,589.37	8,516.81	72.56	118.376	
18,000.00	7,630.00	7,712.45	7,572.36	161.41	33.62	84.35	423.61	1,126.34	8,689.21	8,616.60	72.61	119.670	
18,100.00	7,630.00	7,711.75	7,571.66	163.12	33.61	84.26	423.61	1,126.34	8,789.06	8,716.40	72.66	120.962	
18,154.00	7,630.00	7,711.37	7,571.28	164.05	33.61	84.22	423.60	1,126.35	8,842.98	8,770.29	72.69	121.658	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	68.53	1,834.45	4,663.96	9,390.67				
100.00	100.00	15,353.00	7,799.48	0.13	138.96	68.53	1,834.45	4,663.96	9,306.26	9,217.51	88.75	104.855	
200.00	200.00	15,353.00	7,799.48	0.49	138.96	68.53	1,834.45	4,663.96	9,222.16	9,132.99	89.17	103.423	
300.00	300.00	15,353.00	7,799.48	0.85	138.96	68.53	1,834.45	4,663.96	9,138.37	9,048.76	89.62	101.972	
400.00	400.00	15,353.00	7,799.48	1.21	138.96	68.53	1,834.45	4,663.96	9,054.92	8,964.83	90.09	100.504	
500.00	500.00	15,353.00	7,799.48	1.57	138.96	68.53	1,834.45	4,663.96	8,971.81	8,881.20	90.60	99.023	
600.00	600.00	15,353.00	7,799.48	1.93	138.96	68.53	1,834.45	4,663.96	8,889.04	8,797.90	91.14	97.530	
700.00	700.00	15,353.00	7,799.48	2.29	138.96	68.53	1,834.45	4,663.96	8,806.63	8,714.92	91.71	96.030	
800.00	800.00	15,353.00	7,799.48	2.64	138.96	68.53	1,834.45	4,663.96	8,724.59	8,632.29	92.30	94.527	
900.00	900.00	15,353.00	7,799.48	3.00	138.96	68.53	1,834.45	4,663.96	8,642.92	8,550.01	92.91	93.023	
1,000.00	1,000.00	15,353.00	7,799.48	3.36	138.96	68.53	1,834.45	4,663.96	8,561.65	8,468.10	93.55	91.521	
1,100.00	1,100.00	15,353.00	7,799.48	3.72	138.96	68.53	1,834.45	4,663.96	8,480.77	8,386.57	94.21	90.023	
1,200.00	1,200.00	15,353.00	7,799.48	4.08	138.96	68.53	1,834.45	4,663.96	8,400.31	8,305.43	94.88	88.532	
1,300.00	1,300.00	15,353.00	7,799.48	4.44	138.96	68.53	1,834.45	4,663.96	8,320.27	8,224.69	95.58	87.050	
1,400.00	1,400.00	15,353.00	7,799.48	4.79	138.96	68.53	1,834.45	4,663.96	8,240.67	8,144.37	96.30	85.577	
1,500.00	1,499.98	15,353.00	7,799.48	5.15	138.96	32.12	1,834.45	4,663.96	8,160.61	8,063.58	97.03	84.106	
1,600.00	1,599.84	15,353.00	7,799.48	5.51	138.96	33.64	1,834.45	4,663.96	8,079.23	7,981.47	97.77	82.639	
1,700.00	1,699.45	15,353.00	7,799.48	5.87	138.96	35.30	1,834.45	4,663.96	7,996.60	7,898.10	98.50	81.185	
1,800.00	1,798.70	15,353.00	7,799.48	6.23	138.96	37.11	1,834.45	4,663.96	7,912.77	7,813.54	99.23	79.744	
1,900.00	1,897.47	15,353.00	7,799.48	6.60	138.96	39.10	1,834.45	4,663.96	7,827.81	7,727.86	99.95	78.318	
2,000.00	1,995.62	15,353.00	7,799.48	6.99	138.96	41.28	1,834.45	4,663.96	7,741.79	7,641.13	100.67	76.905	
2,100.00	2,093.06	15,353.00	7,799.48	7.39	138.96	43.66	1,834.45	4,663.96	7,654.79	7,553.41	101.38	75.506	
2,200.00	2,189.64	15,353.00	7,799.48	7.82	138.96	46.27	1,834.45	4,663.96	7,566.86	7,464.77	102.09	74.122	
2,300.00	2,285.27	15,353.00	7,799.48	8.28	138.96	49.12	1,834.45	4,663.96	7,478.09	7,375.30	102.79	72.750	
2,400.00	2,379.82	15,353.00	7,799.48	8.77	138.96	52.23	1,834.45	4,663.96	7,388.57	7,285.08	103.49	71.393	
2,500.00	2,473.17	15,353.00	7,799.48	9.31	138.96	55.61	1,834.45	4,663.96	7,298.37	7,194.18	104.19	70.049	
2,600.00	2,565.21	15,353.00	7,799.48	9.88	138.96	59.26	1,834.45	4,663.96	7,207.57	7,102.69	104.89	68.717	
2,660.67	2,620.37	15,353.00	7,799.48	10.25	138.96	61.60	1,834.45	4,663.96	7,152.24	7,046.93	105.31	67.916	
2,700.00	2,655.96	15,353.00	7,799.48	10.50	138.96	61.60	1,834.45	4,663.96	7,116.33	7,010.75	105.59	67.398	
2,800.00	2,746.43	15,353.00	7,799.48	11.15	138.96	61.60	1,834.45	4,663.96	7,025.20	6,918.90	106.30	66.088	
2,900.00	2,836.90	15,353.00	7,799.48	11.82	138.96	61.60	1,834.45	4,663.96	6,934.31	6,827.27	107.04	64.782	
3,000.00	2,927.37	15,353.00	7,799.48	12.50	138.96	61.60	1,834.45	4,663.96	6,843.67	6,735.86	107.81	63.480	
3,100.00	3,017.85	15,353.00	7,799.48	13.21	138.96	61.60	1,834.45	4,663.96	6,753.30	6,644.70	108.60	62.184	
3,200.00	3,108.32	15,353.00	7,799.48	13.92	138.96	61.60	1,834.45	4,663.96	6,663.20	6,553.78	109.42	60.894	
3,300.00	3,198.79	15,353.00	7,799.48	14.64	138.96	61.60	1,834.45	4,663.96	6,573.39	6,463.13	110.27	59.612	
3,400.00	3,289.27	15,353.00	7,799.48	15.38	138.96	61.60	1,834.45	4,663.96	6,483.88	6,372.74	111.14	58.338	
3,500.00	3,379.74	15,353.00	7,799.48	16.12	138.96	61.60	1,834.45	4,663.96	6,394.68	6,282.64	112.05	57.072	
3,600.00	3,470.21	15,353.00	7,799.48	16.87	138.96	61.60	1,834.45	4,663.96	6,305.81	6,192.83	112.97	55.816	
3,700.00	3,560.68	15,353.00	7,799.48	17.62	138.96	61.60	1,834.45	4,663.96	6,217.27	6,103.34	113.93	54.570	
3,800.00	3,651.16	15,353.00	7,799.48	18.39	138.96	61.60	1,834.45	4,663.96	6,129.08	6,014.16	114.92	53.334	
3,900.00	3,741.63	15,353.00	7,799.48	19.15	138.96	61.60	1,834.45	4,663.96	6,041.26	5,925.33	115.93	52.109	
4,000.00	3,832.10	15,353.00	7,799.48	19.92	138.96	61.60	1,834.45	4,663.96	5,953.83	5,836.85	116.98	50.896	
4,100.00	3,922.57	15,353.00	7,799.48	20.69	138.96	61.60	1,834.45	4,663.96	5,866.80	5,748.74	118.06	49.695	
4,200.00	4,013.05	15,353.00	7,799.48	21.47	138.96	61.60	1,834.45	4,663.96	5,780.19	5,661.02	119.16	48.507	
4,300.00	4,103.52	15,353.00	7,799.48	22.25	138.96	61.60	1,834.45	4,663.96	5,694.01	5,573.71	120.30	47.332	
4,400.00	4,193.99	15,353.00	7,799.48	23.03	138.96	61.60	1,834.45	4,663.96	5,608.30	5,486.83	121.47	46.171	
4,500.00	4,284.47	15,353.00	7,799.48	23.81	138.96	61.60	1,834.45	4,663.96	5,523.06	5,400.39	122.67	45.024	
4,600.00	4,374.94	15,353.00	7,799.48	24.60	138.96	61.60	1,834.45	4,663.96	5,438.33	5,314.43	123.90	43.892	
4,700.00	4,465.41	15,353.00	7,799.48	25.39	138.96	61.60	1,834.45	4,663.96	5,354.13	5,228.95	125.17	42.774	
4,800.00	4,555.88	15,353.00	7,799.48	26.18	138.96	61.60	1,834.45	4,663.96	5,270.47	5,144.00	126.47	41.672	
4,900.00	4,646.36	15,353.00	7,799.48	26.97	138.96	61.60	1,834.45	4,663.96	5,187.40	5,059.59	127.81	40.587	
5,000.00	4,736.83	15,353.00	7,799.48	27.76	138.96	61.60	1,834.45	4,663.96	5,104.93	4,975.75	129.18	39.517	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 16-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,827.30	15,353.00	7,799.48	28.55	138.96	61.60	1,834.45	4,663.96	5,023.10	4,892.51	130.59	38.465	
5,200.00	4,917.77	15,353.00	7,799.48	29.35	138.96	61.60	1,834.45	4,663.96	4,941.94	4,809.91	132.03	37.429	
5,300.00	5,008.25	15,353.00	7,799.48	30.15	138.96	61.60	1,834.45	4,663.96	4,861.48	4,727.97	133.51	36.412	
5,400.00	5,098.72	15,353.00	7,799.48	30.94	138.96	61.60	1,834.45	4,663.96	4,781.76	4,646.73	135.03	35.412	
5,500.00	5,189.19	15,353.00	7,799.48	31.74	138.96	61.60	1,834.45	4,663.96	4,702.81	4,566.23	136.58	34.431	
5,600.00	5,279.67	15,353.00	7,799.48	32.54	138.96	61.60	1,834.45	4,663.96	4,624.68	4,486.51	138.18	33.470	
5,700.00	5,370.14	15,353.00	7,799.48	33.34	138.96	61.60	1,834.45	4,663.96	4,547.41	4,407.60	139.80	32.527	
5,800.00	5,460.61	15,353.00	7,799.48	34.14	138.96	61.60	1,834.45	4,663.96	4,471.03	4,329.57	141.47	31.605	
5,900.00	5,551.08	15,353.00	7,799.48	34.94	138.96	61.60	1,834.45	4,663.96	4,395.61	4,252.44	143.17	30.703	
6,000.00	5,641.56	15,353.00	7,799.48	35.75	138.96	61.60	1,834.45	4,663.96	4,321.18	4,176.28	144.90	29.822	
6,100.00	5,732.03	15,353.00	7,799.48	36.55	138.96	61.60	1,834.45	4,663.96	4,247.80	4,101.13	146.67	28.962	
6,200.00	5,822.50	15,353.00	7,799.48	37.35	138.96	61.60	1,834.45	4,663.96	4,175.53	4,027.06	148.47	28.123	
6,300.00	5,912.97	15,353.00	7,799.48	38.16	138.96	61.60	1,834.45	4,663.96	4,104.42	3,954.11	150.30	27.307	
6,400.00	6,003.45	15,353.00	7,799.48	38.96	138.96	61.60	1,834.45	4,663.96	4,034.54	3,882.37	152.17	26.514	
6,500.00	6,093.92	15,353.00	7,799.48	39.77	138.96	61.60	1,834.45	4,663.96	3,965.94	3,811.89	154.06	25.743	
6,600.00	6,184.39	15,353.00	7,799.48	40.57	138.96	61.60	1,834.45	4,663.96	3,898.71	3,742.74	155.97	24.996	
6,700.00	6,274.87	15,353.00	7,799.48	41.38	138.96	61.60	1,834.45	4,663.96	3,832.90	3,675.00	157.91	24.273	
6,800.00	6,365.34	15,353.00	7,799.48	42.18	138.96	61.60	1,834.45	4,663.96	3,768.60	3,608.75	159.86	23.575	
6,900.00	6,455.81	15,353.00	7,799.48	42.99	138.96	61.60	1,834.45	4,663.96	3,705.89	3,544.07	161.82	22.901	
7,000.00	6,546.28	15,353.00	7,799.48	43.80	138.96	61.60	1,834.45	4,663.96	3,644.84	3,481.04	163.79	22.253	
7,100.00	6,636.76	15,353.00	7,799.48	44.61	138.96	61.60	1,834.45	4,663.96	3,585.53	3,419.77	165.77	21.630	
7,200.00	6,727.23	15,353.00	7,799.48	45.41	138.96	61.60	1,834.45	4,663.96	3,528.07	3,360.34	167.73	21.034	
7,300.00	6,817.70	15,353.00	7,799.48	46.22	138.96	61.60	1,834.45	4,663.96	3,472.53	3,302.85	169.69	20.464	
7,383.79	6,893.51	15,337.52	7,799.62	46.90	138.69	61.32	1,849.92	4,663.70	3,427.52	3,256.56	170.96	20.049	
7,400.00	6,908.25	15,332.22	7,799.67	47.03	138.59	57.88	1,855.22	4,663.61	3,418.92	3,247.77	171.15	19.976	
7,450.00	6,954.52	15,318.63	7,799.79	47.40	138.36	45.55	1,868.81	4,663.39	3,392.28	3,220.53	171.75	19.751	
7,500.00	7,001.74	15,309.28	7,799.87	47.72	138.20	30.09	1,878.16	4,663.23	3,365.65	3,193.28	172.37	19.525	
7,550.00	7,049.55	15,304.24	7,799.92	47.99	138.11	11.43	1,883.20	4,663.15	3,339.29	3,166.29	173.01	19.302	
7,600.00	7,097.58	15,303.56	7,799.93	48.21	138.10	-8.84	1,883.88	4,663.14	3,313.42	3,139.77	173.65	19.081	
7,650.00	7,145.48	15,307.23	7,799.89	48.37	138.16	-27.78	1,880.21	4,663.20	3,288.25	3,113.96	174.29	18.866	
7,700.00	7,192.88	15,315.24	7,799.82	48.48	138.30	-43.36	1,872.21	4,663.33	3,263.98	3,089.04	174.94	18.658	
7,750.00	7,239.41	15,327.51	7,799.71	48.54	138.51	-55.38	1,859.94	4,663.54	3,240.78	3,065.19	175.59	18.456	
7,800.00	7,284.72	15,343.95	7,799.56	48.56	138.80	-64.54	1,843.49	4,663.81	3,218.81	3,042.57	176.24	18.264	
7,850.00	7,328.47	15,353.00	7,799.48	48.54	138.96	-71.77	1,834.45	4,663.96	3,198.22	3,021.60	176.62	18.108	
7,900.00	7,370.32	15,353.00	7,799.48	48.47	138.96	-77.63	1,834.45	4,663.96	3,179.26	3,002.58	176.68	17.994	
7,950.00	7,409.96	15,353.00	7,799.48	48.37	138.96	-82.34	1,834.45	4,663.96	3,162.11	2,985.47	176.64	17.901	
8,000.00	7,447.08	15,353.00	7,799.48	48.24	138.96	-86.14	1,834.45	4,663.96	3,146.94	2,970.44	176.50	17.830	
8,050.00	7,481.41	15,353.00	7,799.48	48.07	138.96	-89.21	1,834.45	4,663.96	3,133.89	2,957.63	176.26	17.780	
8,100.00	7,512.67	15,353.00	7,799.48	47.87	138.96	-91.66	1,834.45	4,663.96	3,123.09	2,947.17	175.92	17.753	
8,150.00	7,540.64	15,353.00	7,799.48	47.65	138.96	-93.59	1,834.45	4,663.96	3,114.64	2,939.15	175.49	17.748	SF
8,200.00	7,565.09	15,353.00	7,799.48	47.40	138.96	-95.03	1,834.45	4,663.96	3,108.63	2,933.64	174.98	17.765	
8,250.00	7,585.85	15,353.00	7,799.48	47.14	138.96	-96.05	1,834.45	4,663.96	3,105.11	2,930.71	174.40	17.805	
8,294.30	7,601.02	15,353.00	7,799.48	46.90	138.96	-96.62	1,834.45	4,663.96	3,104.11	2,930.29	173.82	17.858	CC, ES
8,300.00	7,602.75	15,353.00	7,799.48	46.86	138.96	-96.67	1,834.45	4,663.96	3,104.13	2,930.38	173.75	17.866	
8,350.00	7,615.67	15,353.00	7,799.48	46.58	138.96	-96.91	1,834.45	4,663.96	3,105.69	2,932.65	173.04	17.948	
8,400.00	7,624.51	15,353.00	7,799.48	46.28	138.96	-96.79	1,834.45	4,663.96	3,109.78	2,937.49	172.29	18.049	
8,450.00	7,629.19	15,353.00	7,799.48	45.98	138.96	-96.30	1,834.45	4,663.96	3,116.35	2,944.84	171.51	18.171	
8,481.00	7,630.00	15,353.00	7,799.48	45.79	138.96	-95.83	1,834.45	4,663.96	3,121.65	2,950.64	171.00	18.255	
8,500.00	7,630.00	15,353.00	7,799.48	45.68	138.96	-95.83	1,834.45	4,663.96	3,125.23	2,954.53	170.70	18.309	
8,600.00	7,630.00	15,353.00	7,799.48	45.11	138.96	-95.83	1,834.45	4,663.96	3,145.91	2,976.82	169.10	18.604	
8,700.00	7,630.00	15,353.00	7,799.48	44.56	138.96	-95.83	1,834.45	4,663.96	3,169.62	3,002.07	167.55	18.917	
8,800.00	7,630.00	15,353.00	7,799.48	44.05	138.96	-95.83	1,834.45	4,663.96	3,196.28	3,030.20	166.08	19.246	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	15,353.00	7,799.48	43.57	138.96	-95.83	1,834.45	4,663.96	3,225.82	3,061.14	164.68	19.588	
9,000.00	7,630.00	15,353.00	7,799.48	43.12	138.96	-95.83	1,834.45	4,663.96	3,258.16	3,094.79	163.37	19.944	
9,100.00	7,630.00	15,353.00	7,799.48	42.70	138.96	-95.83	1,834.45	4,663.96	3,293.22	3,131.08	162.14	20.311	
9,200.00	7,630.00	15,353.00	7,799.48	42.31	138.96	-95.83	1,834.45	4,663.96	3,330.92	3,169.92	160.99	20.690	
9,300.00	7,630.00	15,353.00	7,799.48	41.94	138.96	-95.83	1,834.45	4,663.96	3,371.16	3,211.24	159.92	21.080	
9,400.00	7,630.00	15,353.00	7,799.48	41.59	138.96	-95.83	1,834.45	4,663.96	3,413.86	3,254.93	158.92	21.481	
9,500.00	7,630.00	15,353.00	7,799.48	41.26	138.96	-95.83	1,834.45	4,663.96	3,458.92	3,300.93	157.99	21.893	
9,600.00	7,630.00	15,353.00	7,799.48	40.96	138.96	-95.83	1,834.45	4,663.96	3,506.26	3,349.15	157.11	22.317	
9,700.00	7,630.00	15,353.00	7,799.48	40.68	138.96	-95.83	1,834.45	4,663.96	3,555.78	3,399.50	156.27	22.753	
9,800.00	7,630.00	15,353.00	7,799.48	40.42	138.96	-95.83	1,834.45	4,663.96	3,607.39	3,451.91	155.48	23.202	
9,900.00	7,630.00	15,353.00	7,799.48	40.17	138.96	-95.83	1,834.45	4,663.96	3,661.00	3,506.29	154.71	23.663	
10,000.00	7,630.00	15,353.00	7,799.48	39.96	138.96	-95.83	1,834.45	4,663.96	3,716.54	3,562.56	153.98	24.137	
10,100.00	7,630.00	15,353.00	7,799.48	40.05	138.96	-95.83	1,834.45	4,663.96	3,773.91	3,620.64	153.26	24.624	
10,200.00	7,630.00	15,353.00	7,799.48	40.95	138.96	-95.83	1,834.45	4,663.96	3,833.02	3,680.46	152.56	25.124	
10,300.00	7,630.00	15,353.00	7,799.48	41.94	138.96	-95.83	1,834.45	4,663.96	3,893.81	3,741.94	151.88	25.638	
10,400.00	7,630.00	15,353.00	7,799.48	42.98	138.96	-95.83	1,834.45	4,663.96	3,956.20	3,804.99	151.20	26.165	
10,500.00	7,630.00	15,353.00	7,799.48	44.06	138.96	-95.83	1,834.45	4,663.96	4,020.10	3,869.56	150.54	26.705	
10,600.00	7,630.00	15,353.00	7,799.48	45.17	138.96	-95.83	1,834.45	4,663.96	4,085.45	3,935.56	149.88	27.257	
10,700.00	7,630.00	15,353.00	7,799.48	46.32	138.96	-95.83	1,834.45	4,663.96	4,152.18	4,002.94	149.24	27.823	
10,800.00	7,630.00	15,353.00	7,799.48	47.50	138.96	-95.83	1,834.45	4,663.96	4,220.23	4,071.63	148.59	28.401	
10,900.00	7,630.00	15,353.00	7,799.48	48.70	138.96	-95.83	1,834.45	4,663.96	4,289.52	4,141.56	147.96	28.991	
11,000.00	7,630.00	15,353.00	7,799.48	49.94	138.96	-95.83	1,834.45	4,663.96	4,360.01	4,212.68	147.33	29.593	
11,100.00	7,630.00	15,353.00	7,799.48	51.20	138.96	-95.83	1,834.45	4,663.96	4,431.64	4,284.93	146.71	30.207	
11,200.00	7,630.00	15,353.00	7,799.48	52.48	138.96	-95.83	1,834.45	4,663.96	4,504.35	4,358.25	146.09	30.832	
11,300.00	7,630.00	15,353.00	7,799.48	53.79	138.96	-95.83	1,834.45	4,663.96	4,578.08	4,432.60	145.48	31.468	
11,400.00	7,630.00	15,353.00	7,799.48	55.12	138.96	-95.83	1,834.45	4,663.96	4,652.80	4,507.92	144.88	32.115	
11,500.00	7,630.00	15,353.00	7,799.48	56.46	138.96	-95.83	1,834.45	4,663.96	4,728.45	4,584.17	144.28	32.772	
11,600.00	7,630.00	15,353.00	7,799.48	57.83	138.96	-95.83	1,834.45	4,663.96	4,804.99	4,661.30	143.70	33.439	
11,700.00	7,630.00	15,353.00	7,799.48	59.22	138.96	-95.83	1,834.45	4,663.96	4,882.38	4,739.27	143.11	34.115	
11,800.00	7,630.00	15,353.00	7,799.48	60.62	138.96	-95.83	1,834.45	4,663.96	4,960.58	4,818.04	142.54	34.801	
11,900.00	7,630.00	15,353.00	7,799.48	62.04	138.96	-95.83	1,834.45	4,663.96	5,039.55	4,897.57	141.98	35.495	
12,000.00	7,630.00	15,353.00	7,799.48	63.48	138.96	-95.83	1,834.45	4,663.96	5,119.26	4,977.84	141.42	36.199	
12,100.00	7,630.00	15,353.00	7,799.48	64.93	138.96	-95.83	1,834.45	4,663.96	5,199.66	5,058.79	140.87	36.910	
12,200.00	7,630.00	15,353.00	7,799.48	66.39	138.96	-95.83	1,834.45	4,663.96	5,280.74	5,140.40	140.33	37.630	
12,300.00	7,630.00	15,353.00	7,799.48	67.86	138.96	-95.83	1,834.45	4,663.96	5,362.45	5,222.65	139.80	38.357	
12,400.00	7,630.00	15,353.00	7,799.48	69.35	138.96	-95.83	1,834.45	4,663.96	5,444.78	5,305.50	139.28	39.091	
12,500.00	7,630.00	15,353.00	7,799.48	70.85	138.96	-95.83	1,834.45	4,663.96	5,527.69	5,388.92	138.77	39.833	
12,600.00	7,630.00	15,353.00	7,799.48	72.36	138.96	-95.83	1,834.45	4,663.96	5,611.15	5,472.88	138.27	40.582	
12,700.00	7,630.00	15,353.00	7,799.48	73.88	138.96	-95.83	1,834.45	4,663.96	5,695.15	5,557.38	137.77	41.337	
12,800.00	7,630.00	15,353.00	7,799.48	75.41	138.96	-95.83	1,834.45	4,663.96	5,779.66	5,642.37	137.29	42.098	
12,900.00	7,630.00	15,353.00	7,799.48	76.95	138.96	-95.83	1,834.45	4,663.96	5,864.65	5,727.84	136.82	42.865	
13,000.00	7,630.00	15,353.00	7,799.48	78.49	138.96	-95.83	1,834.45	4,663.96	5,950.11	5,813.76	136.35	43.638	
13,100.00	7,630.00	15,353.00	7,799.48	80.05	138.96	-95.83	1,834.45	4,663.96	6,036.02	5,900.13	135.89	44.417	
13,200.00	7,630.00	15,353.00	7,799.48	81.61	138.96	-95.83	1,834.45	4,663.96	6,122.36	5,986.91	135.45	45.201	
13,300.00	7,630.00	15,353.00	7,799.48	83.18	138.96	-95.83	1,834.45	4,663.96	6,209.10	6,074.10	135.01	45.990	
13,400.00	7,630.00	15,353.00	7,799.48	84.76	138.96	-95.83	1,834.45	4,663.96	6,296.24	6,161.66	134.58	46.784	
13,500.00	7,630.00	15,353.00	7,799.48	86.34	138.96	-95.83	1,834.45	4,663.96	6,383.76	6,249.60	134.16	47.583	
13,600.00	7,630.00	15,353.00	7,799.48	87.94	138.96	-95.83	1,834.45	4,663.96	6,471.64	6,337.89	133.75	48.387	
13,700.00	7,630.00	15,353.00	7,799.48	89.53	138.96	-95.83	1,834.45	4,663.96	6,559.86	6,426.52	133.35	49.194	
13,800.00	7,630.00	15,353.00	7,799.48	91.13	138.96	-95.83	1,834.45	4,663.96	6,648.42	6,515.47	132.95	50.006	
13,900.00	7,630.00	15,353.00	7,799.48	92.74	138.96	-95.83	1,834.45	4,663.96	6,737.30	6,604.73	132.57	50.822	
14,000.00	7,630.00	15,353.00	7,799.48	94.35	138.96	-95.83	1,834.45	4,663.96	6,826.49	6,694.30	132.19	51.641	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,100.00	7,630.00	15,353.00	7,799.48	95.97	138.96	-95.83	1,834.45	4,663.96	6,915.97	6,784.15	131.82	52.464	
14,200.00	7,630.00	15,353.00	7,799.48	97.60	138.96	-95.83	1,834.45	4,663.96	7,005.74	6,874.27	131.46	53.291	
14,300.00	7,630.00	15,353.00	7,799.48	99.22	138.96	-95.83	1,834.45	4,663.96	7,095.78	6,964.67	131.11	54.121	
14,400.00	7,630.00	15,353.00	7,799.48	100.85	138.96	-95.83	1,834.45	4,663.96	7,186.08	7,055.31	130.77	54.954	
14,500.00	7,630.00	15,353.00	7,799.48	102.49	138.96	-95.83	1,834.45	4,663.96	7,276.64	7,146.21	130.43	55.790	
14,600.00	7,630.00	15,353.00	7,799.48	104.13	138.96	-95.83	1,834.45	4,663.96	7,367.44	7,237.34	130.10	56.628	
14,700.00	7,630.00	15,353.00	7,799.48	105.77	138.96	-95.83	1,834.45	4,663.96	7,458.48	7,328.70	129.78	57.470	
14,800.00	7,630.00	15,353.00	7,799.48	107.42	138.96	-95.83	1,834.45	4,663.96	7,549.74	7,420.27	129.47	58.314	
14,900.00	7,630.00	15,353.00	7,799.48	109.07	138.96	-95.83	1,834.45	4,663.96	7,641.22	7,512.06	129.16	59.161	
15,000.00	7,630.00	15,353.00	7,799.48	110.72	138.96	-95.83	1,834.45	4,663.96	7,732.92	7,604.06	128.86	60.010	
15,100.00	7,630.00	15,353.00	7,799.48	112.38	138.96	-95.83	1,834.45	4,663.96	7,824.81	7,696.25	128.57	60.862	
15,200.00	7,630.00	15,353.00	7,799.48	114.04	138.96	-95.83	1,834.45	4,663.96	7,916.91	7,788.62	128.28	61.715	
15,300.00	7,630.00	15,353.00	7,799.48	115.71	138.96	-95.83	1,834.45	4,663.96	8,009.19	7,881.19	128.00	62.571	
15,400.00	7,630.00	15,353.00	7,799.48	117.37	138.96	-95.83	1,834.45	4,663.96	8,101.65	7,973.93	127.73	63.428	
15,500.00	7,630.00	15,353.00	7,799.48	119.04	138.96	-95.83	1,834.45	4,663.96	8,194.30	8,066.84	127.46	64.288	
15,600.00	7,630.00	15,353.00	7,799.48	120.71	138.96	-95.83	1,834.45	4,663.96	8,287.11	8,159.91	127.20	65.149	
15,700.00	7,630.00	15,353.00	7,799.48	122.39	138.96	-95.83	1,834.45	4,663.96	8,380.09	8,253.14	126.95	66.012	
15,800.00	7,630.00	15,353.00	7,799.48	124.06	138.96	-95.83	1,834.45	4,663.96	8,473.23	8,346.53	126.70	66.876	
15,900.00	7,630.00	15,353.00	7,799.48	125.74	138.96	-95.83	1,834.45	4,663.96	8,566.52	8,440.07	126.46	67.742	
16,000.00	7,630.00	15,353.00	7,799.48	127.42	138.96	-95.83	1,834.45	4,663.96	8,659.97	8,533.75	126.22	68.609	
16,100.00	7,630.00	15,353.00	7,799.48	129.10	138.96	-95.83	1,834.45	4,663.96	8,753.56	8,627.57	125.99	69.478	
16,200.00	7,630.00	15,353.00	7,799.48	130.79	138.96	-95.83	1,834.45	4,663.96	8,847.29	8,721.52	125.77	70.347	
16,300.00	7,630.00	15,353.00	7,799.48	132.48	138.96	-95.83	1,834.45	4,663.96	8,941.15	8,815.60	125.55	71.218	
16,400.00	7,630.00	15,353.00	7,799.48	134.17	138.96	-95.83	1,834.45	4,663.96	9,035.15	8,909.82	125.33	72.090	
16,500.00	7,630.00	15,353.00	7,799.48	135.86	138.96	-95.83	1,834.45	4,663.96	9,129.27	9,004.15	125.12	72.963	
16,600.00	7,630.00	15,353.00	7,799.48	137.55	138.96	-95.83	1,834.45	4,663.96	9,223.52	9,098.60	124.92	73.837	
16,700.00	7,630.00	15,353.00	7,799.48	139.24	138.96	-95.83	1,834.45	4,663.96	9,317.89	9,193.17	124.72	74.712	
16,800.00	7,630.00	15,353.00	7,799.48	140.94	138.96	-95.83	1,834.45	4,663.96	9,412.37	9,287.85	124.52	75.587	
16,900.00	7,630.00	15,353.00	7,799.48	142.64	138.96	-95.83	1,834.45	4,663.96	9,506.97	9,382.63	124.33	76.464	
17,000.00	7,630.00	15,353.00	7,799.48	144.34	138.96	-95.83	1,834.45	4,663.96	9,601.67	9,477.53	124.15	77.341	
17,100.00	7,630.00	15,353.00	7,799.48	146.04	138.96	-95.83	1,834.45	4,663.96	9,696.48	9,572.52	123.97	78.219	
17,200.00	7,630.00	15,353.00	7,799.48	147.74	138.96	-95.83	1,834.45	4,663.96	9,791.40	9,667.61	123.79	79.097	
17,300.00	7,630.00	15,353.00	7,799.48	149.44	138.96	-95.83	1,834.45	4,663.96	9,886.42	9,762.80	123.62	79.976	
17,400.00	7,630.00	15,353.00	7,799.48	151.15	138.96	-95.83	1,834.45	4,663.96	9,981.53	9,858.08	123.45	80.855	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	69.76	1,843.87	4,999.65	9,455.05				
100.00	100.00	15,243.00	7,668.35	0.13	138.66	69.76	1,843.87	4,999.65	9,372.61	9,281.08	91.54	102.392	
200.00	200.00	15,243.00	7,668.35	0.49	138.66	69.76	1,843.87	4,999.65	9,290.52	9,198.54	91.98	101.001	
300.00	300.00	15,243.00	7,668.35	0.85	138.66	69.76	1,843.87	4,999.65	9,208.79	9,116.32	92.47	99.591	
400.00	400.00	15,243.00	7,668.35	1.21	138.66	69.76	1,843.87	4,999.65	9,127.41	9,034.43	92.98	98.163	
500.00	500.00	15,243.00	7,668.35	1.57	138.66	69.76	1,843.87	4,999.65	9,046.42	8,952.88	93.53	96.721	
600.00	600.00	15,243.00	7,668.35	1.93	138.66	69.76	1,843.87	4,999.65	8,965.80	8,871.69	94.11	95.270	
700.00	700.00	15,243.00	7,668.35	2.29	138.66	69.76	1,843.87	4,999.65	8,885.58	8,790.86	94.72	93.813	
800.00	800.00	15,243.00	7,668.35	2.64	138.66	69.76	1,843.87	4,999.65	8,805.76	8,710.41	95.35	92.353	
900.00	900.00	15,243.00	7,668.35	3.00	138.66	69.76	1,843.87	4,999.65	8,726.36	8,630.35	96.01	90.894	
1,000.00	1,000.00	15,243.00	7,668.35	3.36	138.66	69.76	1,843.87	4,999.65	8,647.39	8,550.70	96.69	89.438	
1,100.00	1,100.00	15,243.00	7,668.35	3.72	138.66	69.76	1,843.87	4,999.65	8,568.85	8,471.47	97.39	87.989	
1,200.00	1,200.00	15,243.00	7,668.35	4.08	138.66	69.76	1,843.87	4,999.65	8,490.77	8,392.66	98.11	86.547	
1,300.00	1,300.00	15,243.00	7,668.35	4.44	138.66	69.76	1,843.87	4,999.65	8,413.15	8,314.30	98.84	85.115	
1,400.00	1,400.00	15,243.00	7,668.35	4.79	138.66	69.76	1,843.87	4,999.65	8,336.01	8,236.41	99.60	83.695	
1,500.00	1,499.98	15,243.00	7,668.35	5.15	138.66	33.28	1,843.87	4,999.65	8,258.41	8,158.04	100.37	82.277	
1,600.00	1,599.84	15,243.00	7,668.35	5.51	138.66	34.71	1,843.87	4,999.65	8,179.48	8,078.32	101.15	80.864	
1,700.00	1,699.45	15,243.00	7,668.35	5.87	138.66	36.27	1,843.87	4,999.65	8,099.25	7,997.32	101.92	79.464	
1,800.00	1,798.70	15,243.00	7,668.35	6.23	138.66	37.97	1,843.87	4,999.65	8,017.79	7,915.10	102.69	78.077	
1,900.00	1,897.47	15,243.00	7,668.35	6.60	138.66	39.81	1,843.87	4,999.65	7,935.17	7,831.72	103.45	76.704	
2,000.00	1,995.62	15,243.00	7,668.35	6.99	138.66	41.81	1,843.87	4,999.65	7,851.45	7,747.24	104.21	75.343	
2,100.00	2,093.06	15,243.00	7,668.35	7.39	138.66	43.98	1,843.87	4,999.65	7,766.70	7,661.74	104.96	73.997	
2,200.00	2,189.64	15,243.00	7,668.35	7.82	138.66	46.34	1,843.87	4,999.65	7,680.98	7,575.27	105.71	72.663	
2,300.00	2,285.27	15,243.00	7,668.35	8.28	138.66	48.90	1,843.87	4,999.65	7,594.38	7,487.93	106.45	71.341	
2,400.00	2,379.82	15,243.00	7,668.35	8.77	138.66	51.67	1,843.87	4,999.65	7,506.97	7,399.78	107.19	70.032	
2,500.00	2,473.17	15,243.00	7,668.35	9.31	138.66	54.66	1,843.87	4,999.65	7,418.83	7,310.89	107.93	68.736	
2,600.00	2,565.21	15,243.00	7,668.35	9.88	138.66	57.87	1,843.87	4,999.65	7,330.04	7,221.36	108.67	67.451	
2,660.67	2,620.37	15,243.00	7,668.35	10.25	138.66	59.92	1,843.87	4,999.65	7,275.89	7,166.77	109.12	66.677	
2,700.00	2,655.96	15,243.00	7,668.35	10.50	138.66	59.92	1,843.87	4,999.65	7,240.74	7,131.33	109.41	66.177	
2,800.00	2,746.43	15,243.00	7,668.35	11.15	138.66	59.92	1,843.87	4,999.65	7,151.58	7,041.41	110.17	64.912	
2,900.00	2,836.90	15,243.00	7,668.35	11.82	138.66	59.92	1,843.87	4,999.65	7,062.71	6,951.76	110.96	63.652	
3,000.00	2,927.37	15,243.00	7,668.35	12.50	138.66	59.92	1,843.87	4,999.65	6,974.15	6,862.38	111.77	62.397	
3,100.00	3,017.85	15,243.00	7,668.35	13.21	138.66	59.92	1,843.87	4,999.65	6,885.89	6,773.28	112.61	61.149	
3,200.00	3,108.32	15,243.00	7,668.35	13.92	138.66	59.92	1,843.87	4,999.65	6,797.96	6,684.49	113.47	59.908	
3,300.00	3,198.79	15,243.00	7,668.35	14.64	138.66	59.92	1,843.87	4,999.65	6,710.37	6,596.01	114.37	58.675	
3,400.00	3,289.27	15,243.00	7,668.35	15.38	138.66	59.92	1,843.87	4,999.65	6,623.13	6,507.85	115.28	57.451	
3,500.00	3,379.74	15,243.00	7,668.35	16.12	138.66	59.92	1,843.87	4,999.65	6,536.26	6,420.03	116.23	56.236	
3,600.00	3,470.21	15,243.00	7,668.35	16.87	138.66	59.92	1,843.87	4,999.65	6,449.76	6,332.56	117.20	55.031	
3,700.00	3,560.68	15,243.00	7,668.35	17.62	138.66	59.92	1,843.87	4,999.65	6,363.66	6,245.46	118.20	53.838	
3,800.00	3,651.16	15,243.00	7,668.35	18.39	138.66	59.92	1,843.87	4,999.65	6,277.98	6,158.75	119.23	52.655	
3,900.00	3,741.63	15,243.00	7,668.35	19.15	138.66	59.92	1,843.87	4,999.65	6,192.72	6,072.44	120.28	51.484	
4,000.00	3,832.10	15,243.00	7,668.35	19.92	138.66	59.92	1,843.87	4,999.65	6,107.91	5,986.54	121.37	50.326	
4,100.00	3,922.57	15,243.00	7,668.35	20.69	138.66	59.92	1,843.87	4,999.65	6,023.57	5,901.09	122.48	49.181	
4,200.00	4,013.05	15,243.00	7,668.35	21.47	138.66	59.92	1,843.87	4,999.65	5,939.71	5,816.09	123.62	48.049	
4,300.00	4,103.52	15,243.00	7,668.35	22.25	138.66	59.92	1,843.87	4,999.65	5,856.36	5,731.57	124.79	46.931	
4,400.00	4,193.99	15,243.00	7,668.35	23.03	138.66	59.92	1,843.87	4,999.65	5,773.53	5,647.55	125.99	45.827	
4,500.00	4,284.47	15,243.00	7,668.35	23.81	138.66	59.92	1,843.87	4,999.65	5,691.26	5,564.05	127.21	44.738	
4,600.00	4,374.94	15,243.00	7,668.35	24.60	138.66	59.92	1,843.87	4,999.65	5,609.57	5,481.10	128.47	43.664	
4,700.00	4,465.41	15,243.00	7,668.35	25.39	138.66	59.92	1,843.87	4,999.65	5,528.48	5,398.72	129.76	42.606	
4,800.00	4,555.88	15,243.00	7,668.35	26.18	138.66	59.92	1,843.87	4,999.65	5,448.01	5,316.94	131.08	41.564	
4,900.00	4,646.36	15,243.00	7,668.35	26.97	138.66	59.92	1,843.87	4,999.65	5,368.20	5,235.78	132.42	40.538	
5,000.00	4,736.83	15,243.00	7,668.35	27.76	138.66	59.92	1,843.87	4,999.65	5,289.08	5,155.28	133.80	39.529	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	15,243.00	7,668.35	28.55	138.66	59.92	1,843.87	4,999.65	5,210.68	5,075.47	135.21	38.537	
5,200.00	4,917.77	15,243.00	7,668.35	29.35	138.66	59.92	1,843.87	4,999.65	5,133.03	4,996.38	136.65	37.563	
5,300.00	5,008.25	15,243.00	7,668.35	30.15	138.66	59.92	1,843.87	4,999.65	5,056.16	4,918.04	138.12	36.607	
5,400.00	5,098.72	15,243.00	7,668.35	30.94	138.66	59.92	1,843.87	4,999.65	4,980.12	4,840.49	139.62	35.669	
5,500.00	5,189.19	15,243.00	7,668.35	31.74	138.66	59.92	1,843.87	4,999.65	4,904.93	4,763.78	141.15	34.750	
5,600.00	5,279.67	15,243.00	7,668.35	32.54	138.66	59.92	1,843.87	4,999.65	4,830.64	4,687.93	142.71	33.850	
5,700.00	5,370.14	15,243.00	7,668.35	33.34	138.66	59.92	1,843.87	4,999.65	4,757.30	4,613.00	144.30	32.969	
5,800.00	5,460.61	15,243.00	7,668.35	34.14	138.66	59.92	1,843.87	4,999.65	4,684.94	4,539.03	145.91	32.109	
5,900.00	5,551.08	15,243.00	7,668.35	34.94	138.66	59.92	1,843.87	4,999.65	4,613.62	4,466.07	147.55	31.268	
6,000.00	5,641.56	15,243.00	7,668.35	35.75	138.66	59.92	1,843.87	4,999.65	4,543.37	4,394.16	149.22	30.448	
6,100.00	5,732.03	15,243.00	7,668.35	36.55	138.66	59.92	1,843.87	4,999.65	4,474.26	4,323.36	150.90	29.650	
6,200.00	5,822.50	15,243.00	7,668.35	37.35	138.66	59.92	1,843.87	4,999.65	4,406.34	4,253.72	152.61	28.872	
6,300.00	5,912.97	15,243.00	7,668.35	38.16	138.66	59.92	1,843.87	4,999.65	4,339.65	4,185.31	154.34	28.117	
6,400.00	6,003.45	15,243.00	7,668.35	38.96	138.66	59.92	1,843.87	4,999.65	4,274.27	4,118.18	156.09	27.383	
6,500.00	6,093.92	15,243.00	7,668.35	39.77	138.66	59.92	1,843.87	4,999.65	4,210.25	4,052.39	157.85	26.672	
6,600.00	6,184.39	15,243.00	7,668.35	40.57	138.66	59.92	1,843.87	4,999.65	4,147.64	3,988.02	159.63	25.984	
6,700.00	6,274.87	15,243.00	7,668.35	41.38	138.66	59.92	1,843.87	4,999.65	4,086.53	3,925.13	161.40	25.319	
6,800.00	6,365.34	15,243.00	7,668.35	42.18	138.66	59.92	1,843.87	4,999.65	4,026.97	3,863.79	163.19	24.677	
6,900.00	6,455.81	15,243.00	7,668.35	42.99	138.66	59.92	1,843.87	4,999.65	3,969.04	3,804.08	164.97	24.059	
7,000.00	6,546.28	15,243.00	7,668.35	43.80	138.66	59.92	1,843.87	4,999.65	3,912.81	3,746.07	166.74	23.466	
7,100.00	6,636.76	15,243.00	7,668.35	44.61	138.66	59.92	1,843.87	4,999.65	3,858.35	3,689.85	168.51	22.897	
7,200.00	6,727.23	15,243.00	7,668.35	45.41	138.66	59.92	1,843.87	4,999.65	3,805.74	3,635.49	170.25	22.354	
7,300.00	6,817.70	15,220.58	7,668.18	46.22	138.27	59.56	1,866.28	4,999.15	3,754.99	3,583.49	171.50	21.895	
7,383.79	6,893.51	15,193.47	7,667.97	46.90	137.80	59.12	1,893.39	4,998.54	3,713.80	3,541.46	172.34	21.549	
7,400.00	6,908.25	15,188.44	7,667.93	47.03	137.71	55.79	1,898.42	4,998.42	3,705.94	3,533.44	172.50	21.483	
7,450.00	6,954.52	15,188.00	7,667.93	47.40	137.70	44.07	1,898.86	4,998.41	3,681.68	3,508.40	173.28	21.247	
7,500.00	7,001.74	15,188.00	7,667.93	47.72	137.70	29.18	1,898.86	4,998.41	3,657.56	3,483.57	173.99	21.021	
7,550.00	7,049.55	15,188.00	7,667.93	47.99	137.70	11.01	1,898.86	4,998.41	3,633.76	3,459.14	174.62	20.809	
7,600.00	7,097.58	15,188.00	7,667.93	48.21	137.70	-8.86	1,898.86	4,998.41	3,610.47	3,435.30	175.17	20.612	
7,650.00	7,145.48	15,188.00	7,667.93	48.37	137.70	-27.49	1,898.86	4,998.41	3,587.88	3,412.26	175.62	20.430	
7,700.00	7,192.88	15,188.00	7,667.93	48.48	137.70	-42.86	1,898.86	4,998.41	3,566.18	3,390.20	175.98	20.265	
7,750.00	7,239.41	15,189.84	7,667.94	48.54	137.73	-54.74	1,897.02	4,998.45	3,545.55	3,369.26	176.29	20.112	
7,800.00	7,284.72	15,207.12	7,668.08	48.56	138.03	-63.59	1,879.75	4,998.84	3,526.11	3,349.26	176.85	19.939	
7,850.00	7,328.47	15,228.42	7,668.24	48.54	138.41	-70.36	1,858.45	4,999.32	3,507.96	3,330.55	177.41	19.773	
7,900.00	7,370.32	15,243.00	7,668.35	48.47	138.66	-75.76	1,843.87	4,999.65	3,491.20	3,313.46	177.74	19.643	
7,950.00	7,409.96	15,243.00	7,668.35	48.37	138.66	-80.25	1,843.87	4,999.65	3,476.07	3,298.42	177.66	19.566	
8,000.00	7,447.08	15,243.00	7,668.35	48.24	138.66	-83.87	1,843.87	4,999.65	3,462.75	3,285.25	177.49	19.509	
8,050.00	7,481.41	15,243.00	7,668.35	48.07	138.66	-86.79	1,843.87	4,999.65	3,451.34	3,274.10	177.24	19.472	
8,100.00	7,512.67	15,243.00	7,668.35	47.87	138.66	-89.11	1,843.87	4,999.65	3,441.97	3,265.05	176.92	19.455	SF
8,150.00	7,540.64	15,243.00	7,668.35	47.65	138.66	-90.93	1,843.87	4,999.65	3,434.71	3,258.19	176.52	19.457	
8,200.00	7,565.09	15,243.00	7,668.35	47.40	138.66	-92.30	1,843.87	4,999.65	3,429.64	3,253.57	176.06	19.479	
8,250.00	7,585.85	15,243.00	7,668.35	47.14	138.66	-93.26	1,843.87	4,999.65	3,426.80	3,251.25	175.55	19.520	
8,287.66	7,598.94	15,243.00	7,668.35	46.93	138.66	-93.73	1,843.87	4,999.65	3,426.16	3,251.03	175.13	19.564	CC, ES
8,300.00	7,602.75	15,243.00	7,668.35	46.86	138.66	-93.84	1,843.87	4,999.65	3,426.23	3,251.24	174.99	19.580	
8,350.00	7,615.67	15,243.00	7,668.35	46.58	138.66	-94.07	1,843.87	4,999.65	3,427.92	3,253.54	174.38	19.657	
8,400.00	7,624.51	15,243.00	7,668.35	46.28	138.66	-93.95	1,843.87	4,999.65	3,431.86	3,258.11	173.75	19.752	
8,450.00	7,629.19	15,243.00	7,668.35	45.98	138.66	-93.49	1,843.87	4,999.65	3,438.02	3,264.93	173.09	19.862	
8,481.00	7,630.00	15,243.00	7,668.35	45.79	138.66	-93.05	1,843.87	4,999.65	3,442.93	3,270.25	172.68	19.938	
8,500.00	7,630.00	15,243.00	7,668.35	45.68	138.66	-93.05	1,843.87	4,999.65	3,446.23	3,273.81	172.42	19.987	
8,600.00	7,630.00	15,243.00	7,668.35	45.11	138.66	-93.05	1,843.87	4,999.65	3,465.31	3,294.20	171.11	20.252	
8,700.00	7,630.00	15,243.00	7,668.35	44.56	138.66	-93.05	1,843.87	4,999.65	3,487.14	3,317.29	169.85	20.530	
8,800.00	7,630.00	15,243.00	7,668.35	44.05	138.66	-93.05	1,843.87	4,999.65	3,511.69	3,343.03	168.67	20.820	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	15,243.00	7,668.35	43.57	138.66	-93.05	1,843.87	4,999.65	3,538.90	3,371.34	167.56	21.121	
9,000.00	7,630.00	15,243.00	7,668.35	43.12	138.66	-93.05	1,843.87	4,999.65	3,568.70	3,402.18	166.52	21.430	
9,100.00	7,630.00	15,243.00	7,668.35	42.70	138.66	-93.05	1,843.87	4,999.65	3,601.03	3,435.46	165.57	21.749	
9,200.00	7,630.00	15,243.00	7,668.35	42.31	138.66	-93.05	1,843.87	4,999.65	3,635.83	3,471.13	164.70	22.075	
9,300.00	7,630.00	15,243.00	7,668.35	41.94	138.66	-93.05	1,843.87	4,999.65	3,673.02	3,509.12	163.90	22.410	
9,400.00	7,630.00	15,243.00	7,668.35	41.59	138.66	-93.05	1,843.87	4,999.65	3,712.53	3,549.36	163.17	22.753	
9,500.00	7,630.00	15,243.00	7,668.35	41.26	138.66	-93.05	1,843.87	4,999.65	3,754.29	3,591.80	162.50	23.104	
9,600.00	7,630.00	15,243.00	7,668.35	40.96	138.66	-93.05	1,843.87	4,999.65	3,798.23	3,636.35	161.87	23.464	
9,700.00	7,630.00	15,243.00	7,668.35	40.68	138.66	-93.05	1,843.87	4,999.65	3,844.26	3,682.97	161.30	23.834	
9,800.00	7,630.00	15,243.00	7,668.35	40.42	138.66	-93.05	1,843.87	4,999.65	3,892.32	3,731.57	160.75	24.213	
9,900.00	7,630.00	15,243.00	7,668.35	40.17	138.66	-93.05	1,843.87	4,999.65	3,942.33	3,782.10	160.24	24.603	
10,000.00	7,630.00	15,243.00	7,668.35	39.96	138.66	-93.05	1,843.87	4,999.65	3,994.22	3,834.48	159.75	25.004	
10,100.00	7,630.00	15,243.00	7,668.35	40.05	138.66	-93.05	1,843.87	4,999.65	4,047.92	3,888.65	159.27	25.415	
10,200.00	7,630.00	15,243.00	7,668.35	40.95	138.66	-93.05	1,843.87	4,999.65	4,103.35	3,944.54	158.81	25.838	
10,300.00	7,630.00	15,243.00	7,668.35	41.94	138.66	-93.05	1,843.87	4,999.65	4,160.44	4,002.09	158.35	26.273	
10,400.00	7,630.00	15,243.00	7,668.35	42.98	138.66	-93.05	1,843.87	4,999.65	4,219.13	4,061.23	157.90	26.720	
10,500.00	7,630.00	15,243.00	7,668.35	44.06	138.66	-93.05	1,843.87	4,999.65	4,279.36	4,121.90	157.46	27.178	
10,600.00	7,630.00	15,243.00	7,668.35	45.17	138.66	-93.05	1,843.87	4,999.65	4,341.05	4,184.04	157.02	27.647	
10,700.00	7,630.00	15,243.00	7,668.35	46.32	138.66	-93.05	1,843.87	4,999.65	4,404.15	4,247.58	156.57	28.129	
10,800.00	7,630.00	15,243.00	7,668.35	47.50	138.66	-93.05	1,843.87	4,999.65	4,468.60	4,312.47	156.13	28.622	
10,900.00	7,630.00	15,243.00	7,668.35	48.70	138.66	-93.05	1,843.87	4,999.65	4,534.33	4,378.65	155.68	29.126	
11,000.00	7,630.00	15,243.00	7,668.35	49.94	138.66	-93.05	1,843.87	4,999.65	4,601.30	4,446.07	155.23	29.641	
11,100.00	7,630.00	15,243.00	7,668.35	51.20	138.66	-93.05	1,843.87	4,999.65	4,669.46	4,514.67	154.79	30.167	
11,200.00	7,630.00	15,243.00	7,668.35	52.48	138.66	-93.05	1,843.87	4,999.65	4,738.74	4,584.40	154.34	30.704	
11,300.00	7,630.00	15,243.00	7,668.35	53.79	138.66	-93.05	1,843.87	4,999.65	4,809.10	4,655.22	153.89	31.251	
11,400.00	7,630.00	15,243.00	7,668.35	55.12	138.66	-93.05	1,843.87	4,999.65	4,880.50	4,727.07	153.43	31.809	
11,500.00	7,630.00	15,243.00	7,668.35	56.46	138.66	-93.05	1,843.87	4,999.65	4,952.89	4,799.91	152.98	32.376	
11,600.00	7,630.00	15,243.00	7,668.35	57.83	138.66	-93.05	1,843.87	4,999.65	5,026.22	4,873.69	152.53	32.953	
11,700.00	7,630.00	15,243.00	7,668.35	59.22	138.66	-93.05	1,843.87	4,999.65	5,100.46	4,948.39	152.08	33.539	
11,800.00	7,630.00	15,243.00	7,668.35	60.62	138.66	-93.05	1,843.87	4,999.65	5,175.57	5,023.95	151.63	34.134	
11,900.00	7,630.00	15,243.00	7,668.35	62.04	138.66	-93.05	1,843.87	4,999.65	5,251.51	5,100.33	151.18	34.738	
12,000.00	7,630.00	15,243.00	7,668.35	63.48	138.66	-93.05	1,843.87	4,999.65	5,328.24	5,177.52	150.73	35.350	
12,100.00	7,630.00	15,243.00	7,668.35	64.93	138.66	-93.05	1,843.87	4,999.65	5,405.74	5,255.46	150.28	35.971	
12,200.00	7,630.00	15,243.00	7,668.35	66.39	138.66	-93.05	1,843.87	4,999.65	5,483.96	5,334.12	149.84	36.599	
12,300.00	7,630.00	15,243.00	7,668.35	67.86	138.66	-93.05	1,843.87	4,999.65	5,562.88	5,413.48	149.40	37.235	
12,400.00	7,630.00	15,243.00	7,668.35	69.35	138.66	-93.05	1,843.87	4,999.65	5,642.47	5,493.51	148.96	37.878	
12,500.00	7,630.00	15,243.00	7,668.35	70.85	138.66	-93.05	1,843.87	4,999.65	5,722.70	5,574.17	148.53	38.529	
12,600.00	7,630.00	15,243.00	7,668.35	72.36	138.66	-93.05	1,843.87	4,999.65	5,803.54	5,655.44	148.10	39.187	
12,700.00	7,630.00	15,243.00	7,668.35	73.88	138.66	-93.05	1,843.87	4,999.65	5,884.97	5,737.30	147.68	39.851	
12,800.00	7,630.00	15,243.00	7,668.35	75.41	138.66	-93.05	1,843.87	4,999.65	5,966.97	5,819.71	147.26	40.521	
12,900.00	7,630.00	15,243.00	7,668.35	76.95	138.66	-93.05	1,843.87	4,999.65	6,049.51	5,902.67	146.84	41.198	
13,000.00	7,630.00	15,243.00	7,668.35	78.49	138.66	-93.05	1,843.87	4,999.65	6,132.57	5,986.14	146.43	41.880	
13,100.00	7,630.00	15,243.00	7,668.35	80.05	138.66	-93.05	1,843.87	4,999.65	6,216.12	6,070.10	146.03	42.569	
13,200.00	7,630.00	15,243.00	7,668.35	81.61	138.66	-93.05	1,843.87	4,999.65	6,300.16	6,154.53	145.63	43.263	
13,300.00	7,630.00	15,243.00	7,668.35	83.18	138.66	-93.05	1,843.87	4,999.65	6,384.66	6,239.42	145.23	43.962	
13,400.00	7,630.00	15,243.00	7,668.35	84.76	138.66	-93.05	1,843.87	4,999.65	6,469.59	6,324.75	144.84	44.666	
13,500.00	7,630.00	15,243.00	7,668.35	86.34	138.66	-93.05	1,843.87	4,999.65	6,554.96	6,410.50	144.46	45.376	
13,600.00	7,630.00	15,243.00	7,668.35	87.94	138.66	-93.05	1,843.87	4,999.65	6,640.73	6,496.65	144.08	46.090	
13,700.00	7,630.00	15,243.00	7,668.35	89.53	138.66	-93.05	1,843.87	4,999.65	6,726.89	6,583.18	143.71	46.809	
13,800.00	7,630.00	15,243.00	7,668.35	91.13	138.66	-93.05	1,843.87	4,999.65	6,813.44	6,670.09	143.34	47.532	
13,900.00	7,630.00	15,243.00	7,668.35	92.74	138.66	-93.05	1,843.87	4,999.65	6,900.34	6,757.36	142.98	48.259	
14,000.00	7,630.00	15,243.00	7,668.35	94.35	138.66	-93.05	1,843.87	4,999.65	6,987.60	6,844.97	142.63	48.991	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 16-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	15,243.00	7,668.35	95.97	138.66	-93.05	1,843.87	4,999.65	7,075.19	6,932.91	142.28	49.726	
14,200.00	7,630.00	15,243.00	7,668.35	97.60	138.66	-93.05	1,843.87	4,999.65	7,163.11	7,021.17	141.94	50.466	
14,300.00	7,630.00	15,243.00	7,668.35	99.22	138.66	-93.05	1,843.87	4,999.65	7,251.35	7,109.74	141.60	51.208	
14,400.00	7,630.00	15,243.00	7,668.35	100.85	138.66	-93.05	1,843.87	4,999.65	7,339.88	7,198.61	141.27	51.955	
14,500.00	7,630.00	15,243.00	7,668.35	102.49	138.66	-93.05	1,843.87	4,999.65	7,428.70	7,287.75	140.95	52.705	
14,600.00	7,630.00	15,243.00	7,668.35	104.13	138.66	-93.05	1,843.87	4,999.65	7,517.81	7,377.18	140.63	53.458	
14,700.00	7,630.00	15,243.00	7,668.35	105.77	138.66	-93.05	1,843.87	4,999.65	7,607.19	7,466.87	140.32	54.214	
14,800.00	7,630.00	15,243.00	7,668.35	107.42	138.66	-93.05	1,843.87	4,999.65	7,696.82	7,556.81	140.01	54.973	
14,900.00	7,630.00	15,243.00	7,668.35	109.07	138.66	-93.05	1,843.87	4,999.65	7,786.71	7,647.01	139.71	55.735	
15,000.00	7,630.00	15,243.00	7,668.35	110.72	138.66	-93.05	1,843.87	4,999.65	7,876.85	7,737.44	139.41	56.500	
15,100.00	7,630.00	15,243.00	7,668.35	112.38	138.66	-93.05	1,843.87	4,999.65	7,967.22	7,828.10	139.12	57.268	
15,200.00	7,630.00	15,243.00	7,668.35	114.04	138.66	-93.05	1,843.87	4,999.65	8,057.81	7,918.98	138.84	58.038	
15,300.00	7,630.00	15,243.00	7,668.35	115.71	138.66	-93.05	1,843.87	4,999.65	8,148.63	8,010.07	138.56	58.810	
15,400.00	7,630.00	15,243.00	7,668.35	117.37	138.66	-93.05	1,843.87	4,999.65	8,239.66	8,101.38	138.28	59.585	
15,500.00	7,630.00	15,243.00	7,668.35	119.04	138.66	-93.05	1,843.87	4,999.65	8,330.90	8,192.88	138.01	60.362	
15,600.00	7,630.00	15,243.00	7,668.35	120.71	138.66	-93.05	1,843.87	4,999.65	8,422.33	8,284.58	137.75	61.142	
15,700.00	7,630.00	15,243.00	7,668.35	122.39	138.66	-93.05	1,843.87	4,999.65	8,513.96	8,376.47	137.49	61.923	
15,800.00	7,630.00	15,243.00	7,668.35	124.06	138.66	-93.05	1,843.87	4,999.65	8,605.77	8,468.53	137.24	62.707	
15,900.00	7,630.00	15,243.00	7,668.35	125.74	138.66	-93.05	1,843.87	4,999.65	8,697.76	8,560.77	136.99	63.492	
16,000.00	7,630.00	15,243.00	7,668.35	127.42	138.66	-93.05	1,843.87	4,999.65	8,789.93	8,653.19	136.75	64.279	
16,100.00	7,630.00	15,243.00	7,668.35	129.10	138.66	-93.05	1,843.87	4,999.65	8,882.27	8,745.76	136.51	65.068	
16,200.00	7,630.00	15,243.00	7,668.35	130.79	138.66	-93.05	1,843.87	4,999.65	8,974.77	8,838.50	136.27	65.858	
16,300.00	7,630.00	15,243.00	7,668.35	132.48	138.66	-93.05	1,843.87	4,999.65	9,067.44	8,931.39	136.04	66.651	
16,400.00	7,630.00	15,243.00	7,668.35	134.17	138.66	-93.05	1,843.87	4,999.65	9,160.25	9,024.43	135.82	67.444	
16,500.00	7,630.00	15,243.00	7,668.35	135.86	138.66	-93.05	1,843.87	4,999.65	9,253.22	9,117.62	135.60	68.239	
16,600.00	7,630.00	15,243.00	7,668.35	137.55	138.66	-93.05	1,843.87	4,999.65	9,346.33	9,210.94	135.38	69.036	
16,700.00	7,630.00	15,243.00	7,668.35	139.24	138.66	-93.05	1,843.87	4,999.65	9,439.58	9,304.41	135.17	69.834	
16,800.00	7,630.00	15,243.00	7,668.35	140.94	138.66	-93.05	1,843.87	4,999.65	9,532.97	9,398.00	134.97	70.633	
16,900.00	7,630.00	15,243.00	7,668.35	142.64	138.66	-93.05	1,843.87	4,999.65	9,626.49	9,491.73	134.76	71.433	
17,000.00	7,630.00	15,243.00	7,668.35	144.34	138.66	-93.05	1,843.87	4,999.65	9,720.14	9,585.58	134.56	72.234	
17,100.00	7,630.00	15,243.00	7,668.35	146.04	138.66	-93.05	1,843.87	4,999.65	9,813.92	9,679.55	134.37	73.037	
17,200.00	7,630.00	15,243.00	7,668.35	147.74	138.66	-93.05	1,843.87	4,999.65	9,907.81	9,773.63	134.18	73.840	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	65.98	1,823.33	4,091.39	8,915.50				
100.00	100.00	15,134.00	7,566.57	0.13	139.08	65.98	1,823.33	4,091.39	8,829.18	8,743.04	86.14	102.501	
200.00	200.00	15,134.00	7,566.57	0.49	139.08	65.98	1,823.33	4,091.39	8,743.15	8,656.63	86.52	101.057	
300.00	300.00	15,134.00	7,566.57	0.85	139.08	65.98	1,823.33	4,091.39	8,657.42	8,570.49	86.93	99.595	
400.00	400.00	15,134.00	7,566.57	1.21	139.08	65.98	1,823.33	4,091.39	8,572.00	8,484.64	87.36	98.117	
500.00	500.00	15,134.00	7,566.57	1.57	139.08	65.98	1,823.33	4,091.39	8,486.90	8,399.07	87.83	96.626	
600.00	600.00	15,134.00	7,566.57	1.93	139.08	65.98	1,823.33	4,091.39	8,402.13	8,313.80	88.33	95.125	
700.00	700.00	15,134.00	7,566.57	2.29	139.08	65.98	1,823.33	4,091.39	8,317.70	8,228.85	88.85	93.616	
800.00	800.00	15,134.00	7,566.57	2.64	139.08	65.98	1,823.33	4,091.39	8,233.61	8,144.21	89.40	92.102	
900.00	900.00	15,134.00	7,566.57	3.00	139.08	65.98	1,823.33	4,091.39	8,149.89	8,059.92	89.97	90.587	
1,000.00	1,000.00	15,134.00	7,566.57	3.36	139.08	65.98	1,823.33	4,091.39	8,066.53	7,975.97	90.56	89.073	
1,100.00	1,100.00	15,134.00	7,566.57	3.72	139.08	65.98	1,823.33	4,091.39	7,983.56	7,892.38	91.18	87.563	
1,200.00	1,200.00	15,134.00	7,566.57	4.08	139.08	65.98	1,823.33	4,091.39	7,900.98	7,809.17	91.81	86.057	
1,300.00	1,300.00	15,134.00	7,566.57	4.44	139.08	65.98	1,823.33	4,091.39	7,818.81	7,726.34	92.47	84.559	
1,400.00	1,400.00	15,134.00	7,566.57	4.79	139.08	65.98	1,823.33	4,091.39	7,737.06	7,643.92	93.14	83.069	
1,500.00	1,499.98	15,134.00	7,566.57	5.15	139.08	29.57	1,823.33	4,091.39	7,654.86	7,561.02	93.83	81.580	
1,600.00	1,599.84	15,134.00	7,566.57	5.51	139.08	31.10	1,823.33	4,091.39	7,571.36	7,476.83	94.53	80.092	
1,700.00	1,699.45	15,134.00	7,566.57	5.87	139.08	32.79	1,823.33	4,091.39	7,486.64	7,391.41	95.23	78.616	
1,800.00	1,798.70	15,134.00	7,566.57	6.23	139.08	34.65	1,823.33	4,091.39	7,400.75	7,304.83	95.92	77.153	
1,900.00	1,897.47	15,134.00	7,566.57	6.60	139.08	36.71	1,823.33	4,091.39	7,313.76	7,217.15	96.61	75.702	
2,000.00	1,995.62	15,134.00	7,566.57	6.99	139.08	38.98	1,823.33	4,091.39	7,225.74	7,128.44	97.30	74.265	
2,100.00	2,093.06	15,134.00	7,566.57	7.39	139.08	41.50	1,823.33	4,091.39	7,136.75	7,038.77	97.98	72.841	
2,200.00	2,189.64	15,134.00	7,566.57	7.82	139.08	44.29	1,823.33	4,091.39	7,046.88	6,948.22	98.65	71.430	
2,300.00	2,285.27	15,134.00	7,566.57	8.28	139.08	47.38	1,823.33	4,091.39	6,956.19	6,856.86	99.33	70.032	
2,400.00	2,379.82	15,134.00	7,566.57	8.77	139.08	50.79	1,823.33	4,091.39	6,864.77	6,764.77	100.00	68.648	
2,500.00	2,473.17	15,134.00	7,566.57	9.31	139.08	54.54	1,823.33	4,091.39	6,772.71	6,672.04	100.67	67.278	
2,600.00	2,565.21	15,134.00	7,566.57	9.88	139.08	58.64	1,823.33	4,091.39	6,680.08	6,578.75	101.34	65.921	
2,660.67	2,620.37	15,134.00	7,566.57	10.25	139.08	61.30	1,823.33	4,091.39	6,623.66	6,521.91	101.74	65.103	
2,700.00	2,655.96	15,134.00	7,566.57	10.50	139.08	61.30	1,823.33	4,091.39	6,587.04	6,485.03	102.00	64.576	
2,800.00	2,746.43	15,134.00	7,566.57	11.15	139.08	61.30	1,823.33	4,091.39	6,494.08	6,391.39	102.69	63.240	
2,900.00	2,836.90	15,134.00	7,566.57	11.82	139.08	61.30	1,823.33	4,091.39	6,401.34	6,297.94	103.40	61.908	
3,000.00	2,927.37	15,134.00	7,566.57	12.50	139.08	61.30	1,823.33	4,091.39	6,308.81	6,204.67	104.14	60.580	
3,100.00	3,017.85	15,134.00	7,566.57	13.21	139.08	61.30	1,823.33	4,091.39	6,216.52	6,111.62	104.91	59.258	
3,200.00	3,108.32	15,134.00	7,566.57	13.92	139.08	61.30	1,823.33	4,091.39	6,124.47	6,018.77	105.70	57.942	
3,300.00	3,198.79	15,134.00	7,566.57	14.64	139.08	61.30	1,823.33	4,091.39	6,032.68	5,926.15	106.52	56.632	
3,400.00	3,289.27	15,134.00	7,566.57	15.38	139.08	61.30	1,823.33	4,091.39	5,941.15	5,833.77	107.38	55.331	
3,500.00	3,379.74	15,134.00	7,566.57	16.12	139.08	61.30	1,823.33	4,091.39	5,849.89	5,741.63	108.26	54.037	
3,600.00	3,470.21	15,134.00	7,566.57	16.87	139.08	61.30	1,823.33	4,091.39	5,758.93	5,649.76	109.17	52.752	
3,700.00	3,560.68	15,134.00	7,566.57	17.62	139.08	61.30	1,823.33	4,091.39	5,668.27	5,558.16	110.11	51.477	
3,800.00	3,651.16	15,134.00	7,566.57	18.39	139.08	61.30	1,823.33	4,091.39	5,577.93	5,466.84	111.09	50.211	
3,900.00	3,741.63	15,134.00	7,566.57	19.15	139.08	61.30	1,823.33	4,091.39	5,487.92	5,375.83	112.10	48.957	
4,000.00	3,832.10	15,134.00	7,566.57	19.92	139.08	61.30	1,823.33	4,091.39	5,398.27	5,285.13	113.14	47.713	
4,100.00	3,922.57	15,134.00	7,566.57	20.69	139.08	61.30	1,823.33	4,091.39	5,308.99	5,194.77	114.22	46.482	
4,200.00	4,013.05	15,134.00	7,566.57	21.47	139.08	61.30	1,823.33	4,091.39	5,220.09	5,104.76	115.33	45.262	
4,300.00	4,103.52	15,134.00	7,566.57	22.25	139.08	61.30	1,823.33	4,091.39	5,131.61	5,015.13	116.48	44.056	
4,400.00	4,193.99	15,134.00	7,566.57	23.03	139.08	61.30	1,823.33	4,091.39	5,043.55	4,925.88	117.67	42.863	
4,500.00	4,284.47	15,134.00	7,566.57	23.81	139.08	61.30	1,823.33	4,091.39	4,955.95	4,837.06	118.89	41.684	
4,600.00	4,374.94	15,134.00	7,566.57	24.60	139.08	61.30	1,823.33	4,091.39	4,868.82	4,748.67	120.16	40.520	
4,700.00	4,465.41	15,134.00	7,566.57	25.39	139.08	61.30	1,823.33	4,091.39	4,782.20	4,660.74	121.46	39.371	
4,800.00	4,555.88	15,134.00	7,566.57	26.18	139.08	61.30	1,823.33	4,091.39	4,696.11	4,573.30	122.81	38.238	
4,900.00	4,646.36	15,134.00	7,566.57	26.97	139.08	61.30	1,823.33	4,091.39	4,610.59	4,486.38	124.21	37.120	
5,000.00	4,736.83	15,134.00	7,566.57	27.76	139.08	61.30	1,823.33	4,091.39	4,525.65	4,400.01	125.64	36.020	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	15,134.00	7,566.57	28.55	139.08	61.30	1,823.33	4,091.39	4,441.34	4,314.22	127.12	34.937	
5,200.00	4,917.77	15,134.00	7,566.57	29.35	139.08	61.30	1,823.33	4,091.39	4,357.70	4,229.05	128.65	33.872	
5,300.00	5,008.25	15,134.00	7,566.57	30.15	139.08	61.30	1,823.33	4,091.39	4,274.76	4,144.53	130.23	32.825	
5,400.00	5,098.72	15,134.00	7,566.57	30.94	139.08	61.30	1,823.33	4,091.39	4,192.56	4,060.71	131.85	31.797	
5,500.00	5,189.19	15,134.00	7,566.57	31.74	139.08	61.30	1,823.33	4,091.39	4,111.16	3,977.63	133.53	30.789	
5,600.00	5,279.67	15,134.00	7,566.57	32.54	139.08	61.30	1,823.33	4,091.39	4,030.59	3,895.34	135.25	29.801	
5,700.00	5,370.14	15,134.00	7,566.57	33.34	139.08	61.30	1,823.33	4,091.39	3,950.91	3,813.88	137.02	28.833	
5,800.00	5,460.61	15,134.00	7,566.57	34.14	139.08	61.30	1,823.33	4,091.39	3,872.17	3,733.32	138.85	27.888	
5,900.00	5,551.08	15,134.00	7,566.57	34.94	139.08	61.30	1,823.33	4,091.39	3,794.43	3,653.71	140.72	26.964	
6,000.00	5,641.56	15,134.00	7,566.57	35.75	139.08	61.30	1,823.33	4,091.39	3,717.76	3,575.11	142.65	26.063	
6,100.00	5,732.03	15,134.00	7,566.57	36.55	139.08	61.30	1,823.33	4,091.39	3,642.22	3,497.59	144.62	25.185	
6,200.00	5,822.50	15,134.00	7,566.57	37.35	139.08	61.30	1,823.33	4,091.39	3,567.88	3,421.24	146.64	24.331	
6,300.00	5,912.97	15,134.00	7,566.57	38.16	139.08	61.30	1,823.33	4,091.39	3,494.82	3,346.11	148.71	23.501	
6,400.00	6,003.45	15,134.00	7,566.57	38.96	139.08	61.30	1,823.33	4,091.39	3,423.13	3,272.31	150.82	22.697	
6,500.00	6,093.92	15,134.00	7,566.57	39.77	139.08	61.30	1,823.33	4,091.39	3,352.88	3,199.91	152.97	21.918	
6,600.00	6,184.39	15,134.00	7,566.57	40.57	139.08	61.30	1,823.33	4,091.39	3,284.18	3,129.02	155.16	21.167	
6,700.00	6,274.87	15,134.00	7,566.57	41.38	139.08	61.30	1,823.33	4,091.39	3,217.12	3,059.74	157.38	20.442	
6,800.00	6,365.34	15,134.00	7,566.57	42.18	139.08	61.30	1,823.33	4,091.39	3,151.80	2,992.19	159.62	19.746	
6,900.00	6,455.81	15,134.00	7,566.57	42.99	139.08	61.30	1,823.33	4,091.39	3,088.35	2,926.47	161.88	19.078	
7,000.00	6,546.28	15,134.00	7,566.57	43.80	139.08	61.30	1,823.33	4,091.39	3,026.86	2,862.72	164.15	18.440	
7,100.00	6,636.76	15,134.00	7,566.57	44.61	139.08	61.30	1,823.33	4,091.39	2,967.48	2,801.06	166.42	17.831	
7,200.00	6,727.23	15,134.00	7,566.57	45.41	139.08	61.30	1,823.33	4,091.39	2,910.32	2,741.64	168.68	17.254	
7,300.00	6,817.70	15,118.80	7,566.24	46.22	138.81	60.96	1,838.53	4,091.15	2,855.47	2,684.96	170.52	16.746	
7,383.79	6,893.51	15,092.62	7,565.66	46.90	138.36	60.38	1,864.69	4,090.75	2,811.21	2,639.53	171.68	16.374	
7,400.00	6,908.25	15,087.78	7,565.55	47.03	138.27	56.95	1,869.53	4,090.68	2,802.79	2,630.88	171.91	16.304	
7,450.00	6,954.52	15,076.28	7,565.29	47.40	138.07	44.71	1,881.03	4,090.50	2,776.83	2,604.20	172.63	16.086	
7,500.00	7,001.74	15,070.07	7,565.16	47.72	137.97	29.43	1,887.23	4,090.41	2,751.07	2,577.69	173.38	15.867	
7,550.00	7,049.55	15,067.23	7,565.10	47.99	137.92	10.97	1,890.07	4,090.37	2,725.76	2,551.64	174.12	15.654	
7,600.00	7,097.58	15,067.80	7,565.11	48.21	137.93	-9.09	1,889.50	4,090.37	2,701.11	2,526.28	174.83	15.450	
7,650.00	7,145.48	15,071.84	7,565.20	48.37	138.00	-27.80	1,885.46	4,090.43	2,677.34	2,501.83	175.51	15.255	
7,700.00	7,192.88	15,079.58	7,565.37	48.48	138.13	-43.12	1,877.72	4,090.55	2,654.62	2,478.46	176.16	15.070	
7,750.00	7,239.41	15,093.29	7,565.67	48.54	138.37	-54.83	1,864.02	4,090.76	2,633.12	2,456.28	176.84	14.890	
7,800.00	7,284.72	15,111.13	7,566.07	48.56	138.68	-63.67	1,846.18	4,091.04	2,612.96	2,435.44	177.51	14.720	
7,850.00	7,328.47	15,132.98	7,566.55	48.54	139.06	-70.38	1,824.35	4,091.37	2,594.24	2,416.07	178.17	14.561	
7,900.00	7,370.32	15,134.00	7,566.57	48.47	139.08	-76.00	1,823.33	4,091.39	2,577.16	2,399.03	178.13	14.468	
7,950.00	7,409.96	15,134.00	7,566.57	48.37	139.08	-80.50	1,823.33	4,091.39	2,561.99	2,384.06	177.93	14.399	
8,000.00	7,447.08	15,134.00	7,566.57	48.24	139.08	-84.10	1,823.33	4,091.39	2,548.88	2,371.28	177.60	14.352	
8,050.00	7,481.41	15,134.00	7,566.57	48.07	139.08	-86.96	1,823.33	4,091.39	2,537.95	2,360.81	177.14	14.327	
8,100.00	7,512.67	15,134.00	7,566.57	47.87	139.08	-89.22	1,823.33	4,091.39	2,529.31	2,352.76	176.56	14.326	SF
8,150.00	7,540.64	15,134.00	7,566.57	47.65	139.08	-90.94	1,823.33	4,091.39	2,523.07	2,347.20	175.87	14.346	
8,200.00	7,565.09	15,134.00	7,566.57	47.40	139.08	-92.18	1,823.33	4,091.39	2,519.28	2,344.21	175.08	14.390	
8,250.00	7,585.85	15,134.00	7,566.57	47.14	139.08	-93.00	1,823.33	4,091.39	2,517.99	2,343.79	174.20	14.455	ES
8,250.79	7,586.14	15,134.00	7,566.57	47.14	139.08	-93.01	1,823.33	4,091.39	2,517.99	2,343.81	174.18	14.456	CC
8,300.00	7,602.75	15,134.00	7,566.57	46.86	139.08	-93.41	1,823.33	4,091.39	2,519.21	2,345.96	173.24	14.542	
8,350.00	7,615.67	15,134.00	7,566.57	46.58	139.08	-93.45	1,823.33	4,091.39	2,522.92	2,350.69	172.22	14.649	
8,400.00	7,624.51	15,134.00	7,566.57	46.28	139.08	-93.11	1,823.33	4,091.39	2,529.08	2,357.92	171.16	14.776	
8,450.00	7,629.19	15,134.00	7,566.57	45.98	139.08	-92.42	1,823.33	4,091.39	2,537.64	2,367.57	170.07	14.921	
8,481.00	7,630.00	15,134.00	7,566.57	45.79	139.08	-91.82	1,823.33	4,091.39	2,544.11	2,374.73	169.38	15.020	
8,500.00	7,630.00	15,134.00	7,566.57	45.68	139.08	-91.82	1,823.33	4,091.39	2,548.40	2,379.45	168.96	15.083	
8,600.00	7,630.00	15,134.00	7,566.57	45.11	139.08	-91.82	1,823.33	4,091.39	2,573.22	2,406.47	166.75	15.432	
8,700.00	7,630.00	15,134.00	7,566.57	44.56	139.08	-91.82	1,823.33	4,091.39	2,601.64	2,437.05	164.59	15.806	
8,800.00	7,630.00	15,134.00	7,566.57	44.05	139.08	-91.82	1,823.33	4,091.39	2,633.56	2,471.05	162.51	16.206	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	15,134.00	7,566.57	43.57	139.08	-91.82	1,823.33	4,091.39	2,668.85	2,508.34	160.50	16.628	
9,000.00	7,630.00	15,134.00	7,566.57	43.12	139.08	-91.82	1,823.33	4,091.39	2,707.37	2,548.78	158.59	17.072	
9,100.00	7,630.00	15,134.00	7,566.57	42.70	139.08	-91.82	1,823.33	4,091.39	2,748.99	2,592.22	156.76	17.536	
9,200.00	7,630.00	15,134.00	7,566.57	42.31	139.08	-91.82	1,823.33	4,091.39	2,793.57	2,638.54	155.03	18.020	
9,300.00	7,630.00	15,134.00	7,566.57	41.94	139.08	-91.82	1,823.33	4,091.39	2,840.97	2,687.59	153.38	18.522	
9,400.00	7,630.00	15,134.00	7,566.57	41.59	139.08	-91.82	1,823.33	4,091.39	2,891.06	2,739.25	151.81	19.044	
9,500.00	7,630.00	15,134.00	7,566.57	41.26	139.08	-91.82	1,823.33	4,091.39	2,943.69	2,793.38	150.31	19.584	
9,600.00	7,630.00	15,134.00	7,566.57	40.96	139.08	-91.82	1,823.33	4,091.39	2,998.73	2,849.86	148.87	20.143	
9,700.00	7,630.00	15,134.00	7,566.57	40.68	139.08	-91.82	1,823.33	4,091.39	3,056.06	2,908.56	147.50	20.720	
9,800.00	7,630.00	15,134.00	7,566.57	40.42	139.08	-91.82	1,823.33	4,091.39	3,115.54	2,969.37	146.17	21.315	
9,900.00	7,630.00	15,134.00	7,566.57	40.17	139.08	-91.82	1,823.33	4,091.39	3,177.06	3,032.17	144.89	21.928	
10,000.00	7,630.00	15,134.00	7,566.57	39.96	139.08	-91.82	1,823.33	4,091.39	3,240.49	3,096.85	143.65	22.559	
10,100.00	7,630.00	15,134.00	7,566.57	40.05	139.08	-91.82	1,823.33	4,091.39	3,305.73	3,163.29	142.44	23.207	
10,200.00	7,630.00	15,134.00	7,566.57	40.95	139.08	-91.82	1,823.33	4,091.39	3,372.68	3,231.40	141.28	23.873	
10,300.00	7,630.00	15,134.00	7,566.57	41.94	139.08	-91.82	1,823.33	4,091.39	3,441.23	3,301.09	140.14	24.555	
10,400.00	7,630.00	15,134.00	7,566.57	42.98	139.08	-91.82	1,823.33	4,091.39	3,511.29	3,372.25	139.04	25.254	
10,500.00	7,630.00	15,134.00	7,566.57	44.06	139.08	-91.82	1,823.33	4,091.39	3,582.77	3,444.80	137.97	25.968	
10,600.00	7,630.00	15,134.00	7,566.57	45.17	139.08	-91.82	1,823.33	4,091.39	3,655.59	3,518.67	136.93	26.698	
10,700.00	7,630.00	15,134.00	7,566.57	46.32	139.08	-91.82	1,823.33	4,091.39	3,729.67	3,593.76	135.91	27.442	
10,800.00	7,630.00	15,134.00	7,566.57	47.50	139.08	-91.82	1,823.33	4,091.39	3,804.94	3,670.01	134.92	28.201	
10,900.00	7,630.00	15,134.00	7,566.57	48.70	139.08	-91.82	1,823.33	4,091.39	3,881.32	3,747.36	133.96	28.973	
11,000.00	7,630.00	15,134.00	7,566.57	49.94	139.08	-91.82	1,823.33	4,091.39	3,958.75	3,825.72	133.03	29.758	
11,100.00	7,630.00	15,134.00	7,566.57	51.20	139.08	-91.82	1,823.33	4,091.39	4,037.18	3,905.06	132.12	30.557	
11,200.00	7,630.00	15,134.00	7,566.57	52.48	139.08	-91.82	1,823.33	4,091.39	4,116.54	3,985.30	131.24	31.367	
11,300.00	7,630.00	15,134.00	7,566.57	53.79	139.08	-91.82	1,823.33	4,091.39	4,196.79	4,066.41	130.38	32.189	
11,400.00	7,630.00	15,134.00	7,566.57	55.12	139.08	-91.82	1,823.33	4,091.39	4,277.86	4,148.32	129.55	33.022	
11,500.00	7,630.00	15,134.00	7,566.57	56.46	139.08	-91.82	1,823.33	4,091.39	4,359.72	4,230.99	128.74	33.865	
11,600.00	7,630.00	15,134.00	7,566.57	57.83	139.08	-91.82	1,823.33	4,091.39	4,442.33	4,314.38	127.95	34.719	
11,700.00	7,630.00	15,134.00	7,566.57	59.22	139.08	-91.82	1,823.33	4,091.39	4,525.64	4,398.45	127.19	35.582	
11,800.00	7,630.00	15,134.00	7,566.57	60.62	139.08	-91.82	1,823.33	4,091.39	4,609.61	4,483.16	126.45	36.455	
11,900.00	7,630.00	15,134.00	7,566.57	62.04	139.08	-91.82	1,823.33	4,091.39	4,694.21	4,568.48	125.73	37.336	
12,000.00	7,630.00	15,134.00	7,566.57	63.48	139.08	-91.82	1,823.33	4,091.39	4,779.40	4,654.37	125.03	38.226	
12,100.00	7,630.00	15,134.00	7,566.57	64.93	139.08	-91.82	1,823.33	4,091.39	4,865.16	4,740.80	124.35	39.123	
12,200.00	7,630.00	15,134.00	7,566.57	66.39	139.08	-91.82	1,823.33	4,091.39	4,951.45	4,827.75	123.70	40.028	
12,300.00	7,630.00	15,134.00	7,566.57	67.86	139.08	-91.82	1,823.33	4,091.39	5,038.25	4,915.19	123.06	40.940	
12,400.00	7,630.00	15,134.00	7,566.57	69.35	139.08	-91.82	1,823.33	4,091.39	5,125.53	5,003.08	122.45	41.859	
12,500.00	7,630.00	15,134.00	7,566.57	70.85	139.08	-91.82	1,823.33	4,091.39	5,213.27	5,091.42	121.85	42.785	
12,600.00	7,630.00	15,134.00	7,566.57	72.36	139.08	-91.82	1,823.33	4,091.39	5,301.44	5,180.17	121.27	43.716	
12,700.00	7,630.00	15,134.00	7,566.57	73.88	139.08	-91.82	1,823.33	4,091.39	5,390.02	5,269.31	120.71	44.653	
12,800.00	7,630.00	15,134.00	7,566.57	75.41	139.08	-91.82	1,823.33	4,091.39	5,479.00	5,358.83	120.16	45.596	
12,900.00	7,630.00	15,134.00	7,566.57	76.95	139.08	-91.82	1,823.33	4,091.39	5,568.35	5,448.71	119.64	46.544	
13,000.00	7,630.00	15,134.00	7,566.57	78.49	139.08	-91.82	1,823.33	4,091.39	5,658.06	5,538.93	119.13	47.496	
13,100.00	7,630.00	15,134.00	7,566.57	80.05	139.08	-91.82	1,823.33	4,091.39	5,748.11	5,629.47	118.63	48.453	
13,200.00	7,630.00	15,134.00	7,566.57	81.61	139.08	-91.82	1,823.33	4,091.39	5,838.48	5,720.32	118.15	49.415	
13,300.00	7,630.00	15,134.00	7,566.57	83.18	139.08	-91.82	1,823.33	4,091.39	5,929.16	5,811.47	117.69	50.381	
13,400.00	7,630.00	15,134.00	7,566.57	84.76	139.08	-91.82	1,823.33	4,091.39	6,020.13	5,902.90	117.24	51.350	
13,500.00	7,630.00	15,134.00	7,566.57	86.34	139.08	-91.82	1,823.33	4,091.39	6,111.39	5,994.59	116.80	52.323	
13,600.00	7,630.00	15,134.00	7,566.57	87.94	139.08	-91.82	1,823.33	4,091.39	6,202.92	6,086.54	116.38	53.299	
13,700.00	7,630.00	15,134.00	7,566.57	89.53	139.08	-91.82	1,823.33	4,091.39	6,294.70	6,178.73	115.97	54.279	
13,800.00	7,630.00	15,134.00	7,566.57	91.13	139.08	-91.82	1,823.33	4,091.39	6,386.73	6,271.16	115.57	55.261	
13,900.00	7,630.00	15,134.00	7,566.57	92.74	139.08	-91.82	1,823.33	4,091.39	6,479.00	6,363.81	115.19	56.246	
14,000.00	7,630.00	15,134.00	7,566.57	94.35	139.08	-91.82	1,823.33	4,091.39	6,571.50	6,456.68	114.82	57.234	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,100.00	7,630.00	15,134.00	7,566.57	95.97	139.08	-91.82	1,823.33	4,091.39	6,664.21	6,549.75	114.46	58.224	
14,200.00	7,630.00	15,134.00	7,566.57	97.60	139.08	-91.82	1,823.33	4,091.39	6,757.13	6,643.02	114.11	59.216	
14,300.00	7,630.00	15,134.00	7,566.57	99.22	139.08	-91.82	1,823.33	4,091.39	6,850.24	6,736.47	113.77	60.210	
14,400.00	7,630.00	15,134.00	7,566.57	100.85	139.08	-91.82	1,823.33	4,091.39	6,943.55	6,830.11	113.44	61.206	
14,500.00	7,630.00	15,134.00	7,566.57	102.49	139.08	-91.82	1,823.33	4,091.39	7,037.05	6,923.92	113.13	62.204	
14,600.00	7,630.00	15,134.00	7,566.57	104.13	139.08	-91.82	1,823.33	4,091.39	7,130.72	7,017.90	112.82	63.204	
14,700.00	7,630.00	15,134.00	7,566.57	105.77	139.08	-91.82	1,823.33	4,091.39	7,224.56	7,112.03	112.52	64.205	
14,800.00	7,630.00	15,134.00	7,566.57	107.42	139.08	-91.82	1,823.33	4,091.39	7,318.56	7,206.32	112.24	65.207	
14,900.00	7,630.00	15,134.00	7,566.57	109.07	139.08	-91.82	1,823.33	4,091.39	7,412.72	7,300.76	111.96	66.210	
15,000.00	7,630.00	15,134.00	7,566.57	110.72	139.08	-91.82	1,823.33	4,091.39	7,507.03	7,395.34	111.69	67.214	
15,100.00	7,630.00	15,134.00	7,566.57	112.38	139.08	-91.82	1,823.33	4,091.39	7,601.49	7,490.06	111.43	68.220	
15,200.00	7,630.00	15,134.00	7,566.57	114.04	139.08	-91.82	1,823.33	4,091.39	7,696.08	7,584.91	111.17	69.226	
15,300.00	7,630.00	15,134.00	7,566.57	115.71	139.08	-91.82	1,823.33	4,091.39	7,790.82	7,679.89	110.93	70.232	
15,400.00	7,630.00	15,134.00	7,566.57	117.37	139.08	-91.82	1,823.33	4,091.39	7,885.68	7,774.98	110.69	71.240	
15,500.00	7,630.00	15,134.00	7,566.57	119.04	139.08	-91.82	1,823.33	4,091.39	7,980.66	7,870.20	110.46	72.248	
15,600.00	7,630.00	15,134.00	7,566.57	120.71	139.08	-91.82	1,823.33	4,091.39	8,075.77	7,965.53	110.24	73.256	
15,700.00	7,630.00	15,134.00	7,566.57	122.39	139.08	-91.82	1,823.33	4,091.39	8,171.00	8,060.97	110.03	74.265	
15,800.00	7,630.00	15,134.00	7,566.57	124.06	139.08	-91.82	1,823.33	4,091.39	8,266.33	8,156.52	109.82	75.274	
15,900.00	7,630.00	15,134.00	7,566.57	125.74	139.08	-91.82	1,823.33	4,091.39	8,361.78	8,252.16	109.62	76.283	
16,000.00	7,630.00	15,134.00	7,566.57	127.42	139.08	-91.82	1,823.33	4,091.39	8,457.33	8,347.91	109.42	77.292	
16,100.00	7,630.00	15,134.00	7,566.57	129.10	139.08	-91.82	1,823.33	4,091.39	8,552.99	8,443.75	109.23	78.301	
16,200.00	7,630.00	15,134.00	7,566.57	130.79	139.08	-91.82	1,823.33	4,091.39	8,648.74	8,539.69	109.05	79.310	
16,300.00	7,630.00	15,134.00	7,566.57	132.48	139.08	-91.82	1,823.33	4,091.39	8,744.58	8,635.71	108.87	80.319	
16,400.00	7,630.00	15,134.00	7,566.57	134.17	139.08	-91.82	1,823.33	4,091.39	8,840.52	8,731.82	108.70	81.327	
16,500.00	7,630.00	15,134.00	7,566.57	135.86	139.08	-91.82	1,823.33	4,091.39	8,936.55	8,828.01	108.54	82.336	
16,600.00	7,630.00	15,134.00	7,566.57	137.55	139.08	-91.82	1,823.33	4,091.39	9,032.67	8,924.29	108.38	83.344	
16,700.00	7,630.00	15,134.00	7,566.57	139.24	139.08	-91.82	1,823.33	4,091.39	9,128.86	9,020.64	108.22	84.351	
16,800.00	7,630.00	15,134.00	7,566.57	140.94	139.08	-91.82	1,823.33	4,091.39	9,225.14	9,117.07	108.08	85.358	
16,900.00	7,630.00	15,134.00	7,566.57	142.64	139.08	-91.82	1,823.33	4,091.39	9,321.50	9,213.57	107.93	86.365	
17,000.00	7,630.00	15,134.00	7,566.57	144.34	139.08	-91.82	1,823.33	4,091.39	9,417.93	9,310.14	107.79	87.371	
17,100.00	7,630.00	15,134.00	7,566.57	146.04	139.08	-91.82	1,823.33	4,091.39	9,514.44	9,406.78	107.66	88.376	
17,200.00	7,630.00	15,134.00	7,566.57	147.74	139.08	-91.82	1,823.33	4,091.39	9,611.01	9,503.49	107.53	89.381	
17,300.00	7,630.00	15,134.00	7,566.57	149.44	139.08	-91.82	1,823.33	4,091.39	9,707.66	9,600.26	107.40	90.385	
17,400.00	7,630.00	15,134.00	7,566.57	151.15	139.08	-91.82	1,823.33	4,091.39	9,804.38	9,697.09	107.28	91.389	
17,500.00	7,630.00	15,134.00	7,566.57	152.86	139.08	-91.82	1,823.33	4,091.39	9,901.16	9,793.99	107.17	92.391	
17,600.00	7,630.00	15,134.00	7,566.57	154.56	139.08	-91.82	1,823.33	4,091.39	9,998.00	9,890.95	107.05	93.393	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	71.58	1,855.19	5,570.20	9,886.34				
100.00	100.00	15,352.00	7,829.29	0.13	138.31	71.58	1,855.19	5,570.20	9,806.06	9,711.38	94.68	103.575	
200.00	200.00	15,352.00	7,829.29	0.49	138.31	71.58	1,855.19	5,570.20	9,726.15	9,631.03	95.12	102.251	
300.00	300.00	15,352.00	7,829.29	0.85	138.31	71.58	1,855.19	5,570.20	9,646.61	9,551.01	95.60	100.905	
400.00	400.00	15,352.00	7,829.29	1.21	138.31	71.58	1,855.19	5,570.20	9,567.46	9,471.34	96.12	99.540	
500.00	500.00	15,352.00	7,829.29	1.57	138.31	71.58	1,855.19	5,570.20	9,488.70	9,392.03	96.67	98.160	
600.00	600.00	15,352.00	7,829.29	1.93	138.31	71.58	1,855.19	5,570.20	9,410.34	9,313.09	97.24	96.770	
700.00	700.00	15,352.00	7,829.29	2.29	138.31	71.58	1,855.19	5,570.20	9,332.40	9,234.55	97.85	95.374	
800.00	800.00	15,352.00	7,829.29	2.64	138.31	71.58	1,855.19	5,570.20	9,254.88	9,156.40	98.48	93.975	
900.00	900.00	15,352.00	7,829.29	3.00	138.31	71.58	1,855.19	5,570.20	9,177.79	9,078.66	99.14	92.577	
1,000.00	1,000.00	15,352.00	7,829.29	3.36	138.31	71.58	1,855.19	5,570.20	9,101.16	9,001.35	99.81	91.184	
1,100.00	1,100.00	15,352.00	7,829.29	3.72	138.31	71.58	1,855.19	5,570.20	9,024.98	8,924.47	100.50	89.796	
1,200.00	1,200.00	15,352.00	7,829.29	4.08	138.31	71.58	1,855.19	5,570.20	8,949.26	8,848.05	101.22	88.417	
1,300.00	1,300.00	15,352.00	7,829.29	4.44	138.31	71.58	1,855.19	5,570.20	8,874.03	8,772.09	101.94	87.048	
1,400.00	1,400.00	15,352.00	7,829.29	4.79	138.31	71.58	1,855.19	5,570.20	8,799.30	8,696.61	102.69	85.690	
1,500.00	1,499.98	15,352.00	7,829.29	5.15	138.31	35.06	1,855.19	5,570.20	8,724.10	8,620.66	103.45	84.334	
1,600.00	1,599.84	15,352.00	7,829.29	5.51	138.31	36.45	1,855.19	5,570.20	8,647.54	8,543.32	104.21	82.980	
1,700.00	1,699.45	15,352.00	7,829.29	5.87	138.31	37.95	1,855.19	5,570.20	8,569.65	8,464.68	104.97	81.636	
1,800.00	1,798.70	15,352.00	7,829.29	6.23	138.31	39.58	1,855.19	5,570.20	8,490.51	8,384.78	105.73	80.302	
1,900.00	1,897.47	15,352.00	7,829.29	6.60	138.31	41.33	1,855.19	5,570.20	8,410.18	8,303.69	106.49	78.979	
2,000.00	1,995.62	15,352.00	7,829.29	6.99	138.31	43.22	1,855.19	5,570.20	8,328.71	8,221.48	107.24	77.666	
2,100.00	2,093.06	15,352.00	7,829.29	7.39	138.31	45.25	1,855.19	5,570.20	8,246.19	8,138.20	107.99	76.362	
2,200.00	2,189.64	15,352.00	7,829.29	7.82	138.31	47.45	1,855.19	5,570.20	8,162.67	8,053.93	108.74	75.069	
2,300.00	2,285.27	15,352.00	7,829.29	8.28	138.31	49.82	1,855.19	5,570.20	8,078.23	7,968.75	109.48	73.785	
2,400.00	2,379.82	15,352.00	7,829.29	8.77	138.31	52.36	1,855.19	5,570.20	7,992.95	7,882.71	110.23	72.509	
2,500.00	2,473.17	15,352.00	7,829.29	9.31	138.31	55.08	1,855.19	5,570.20	7,906.90	7,795.91	110.99	71.243	
2,600.00	2,565.21	15,352.00	7,829.29	9.88	138.31	57.99	1,855.19	5,570.20	7,820.16	7,708.42	111.74	69.985	
2,660.67	2,620.37	15,352.00	7,829.29	10.25	138.31	59.84	1,855.19	5,570.20	7,767.24	7,655.04	112.20	69.225	
2,700.00	2,655.96	15,352.00	7,829.29	10.50	138.31	59.84	1,855.19	5,570.20	7,732.89	7,620.39	112.50	68.734	
2,800.00	2,746.43	15,352.00	7,829.29	11.15	138.31	59.84	1,855.19	5,570.20	7,645.77	7,532.49	113.28	67.492	
2,900.00	2,836.90	15,352.00	7,829.29	11.82	138.31	59.84	1,855.19	5,570.20	7,558.97	7,444.88	114.09	66.255	
3,000.00	2,927.37	15,352.00	7,829.29	12.50	138.31	59.84	1,855.19	5,570.20	7,472.49	7,357.57	114.92	65.023	
3,100.00	3,017.85	15,352.00	7,829.29	13.21	138.31	59.84	1,855.19	5,570.20	7,386.36	7,270.58	115.78	63.798	
3,200.00	3,108.32	15,352.00	7,829.29	13.92	138.31	59.84	1,855.19	5,570.20	7,300.58	7,183.92	116.66	62.580	
3,300.00	3,198.79	15,352.00	7,829.29	14.64	138.31	59.84	1,855.19	5,570.20	7,215.17	7,097.60	117.57	61.371	
3,400.00	3,289.27	15,352.00	7,829.29	15.38	138.31	59.84	1,855.19	5,570.20	7,130.14	7,011.64	118.50	60.171	
3,500.00	3,379.74	15,352.00	7,829.29	16.12	138.31	59.84	1,855.19	5,570.20	7,045.50	6,926.04	119.45	58.981	
3,600.00	3,470.21	15,352.00	7,829.29	16.87	138.31	59.84	1,855.19	5,570.20	6,961.27	6,840.83	120.43	57.801	
3,700.00	3,560.68	15,352.00	7,829.29	17.62	138.31	59.84	1,855.19	5,570.20	6,877.46	6,756.02	121.44	56.632	
3,800.00	3,651.16	15,352.00	7,829.29	18.39	138.31	59.84	1,855.19	5,570.20	6,794.08	6,671.61	122.47	55.475	
3,900.00	3,741.63	15,352.00	7,829.29	19.15	138.31	59.84	1,855.19	5,570.20	6,711.17	6,587.64	123.53	54.330	
4,000.00	3,832.10	15,352.00	7,829.29	19.92	138.31	59.84	1,855.19	5,570.20	6,628.72	6,504.12	124.61	53.198	
4,100.00	3,922.57	15,352.00	7,829.29	20.69	138.31	59.84	1,855.19	5,570.20	6,546.76	6,421.05	125.71	52.079	
4,200.00	4,013.05	15,352.00	7,829.29	21.47	138.31	59.84	1,855.19	5,570.20	6,465.32	6,338.48	126.84	50.973	
4,300.00	4,103.52	15,352.00	7,829.29	22.25	138.31	59.84	1,855.19	5,570.20	6,384.39	6,256.40	127.99	49.881	
4,400.00	4,193.99	15,352.00	7,829.29	23.03	138.31	59.84	1,855.19	5,570.20	6,304.02	6,174.85	129.17	48.803	
4,500.00	4,284.47	15,352.00	7,829.29	23.81	138.31	59.84	1,855.19	5,570.20	6,224.21	6,093.84	130.38	47.740	
4,600.00	4,374.94	15,352.00	7,829.29	24.60	138.31	59.84	1,855.19	5,570.20	6,145.00	6,013.39	131.61	46.693	
4,700.00	4,465.41	15,352.00	7,829.29	25.39	138.31	59.84	1,855.19	5,570.20	6,066.40	5,933.54	132.86	45.660	
4,800.00	4,555.88	15,352.00	7,829.29	26.18	138.31	59.84	1,855.19	5,570.20	5,988.44	5,854.30	134.14	44.644	
4,900.00	4,646.36	15,352.00	7,829.29	26.97	138.31	59.84	1,855.19	5,570.20	5,911.14	5,775.70	135.44	43.643	
5,000.00	4,736.83	15,352.00	7,829.29	27.76	138.31	59.84	1,855.19	5,570.20	5,834.53	5,697.76	136.77	42.659	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	15,352.00	7,829.29	28.55	138.31	59.84	1,855.19	5,570.20	5,758.64	5,620.51	138.12	41.692	
5,200.00	4,917.77	15,352.00	7,829.29	29.35	138.31	59.84	1,855.19	5,570.20	5,683.49	5,543.99	139.50	40.742	
5,300.00	5,008.25	15,352.00	7,829.29	30.15	138.31	59.84	1,855.19	5,570.20	5,609.12	5,468.22	140.90	39.809	
5,400.00	5,098.72	15,352.00	7,829.29	30.94	138.31	59.84	1,855.19	5,570.20	5,535.56	5,393.24	142.33	38.893	
5,500.00	5,189.19	15,352.00	7,829.29	31.74	138.31	59.84	1,855.19	5,570.20	5,462.84	5,319.07	143.77	37.996	
5,600.00	5,279.67	15,352.00	7,829.29	32.54	138.31	59.84	1,855.19	5,570.20	5,390.99	5,245.75	145.24	37.117	
5,700.00	5,370.14	15,352.00	7,829.29	33.34	138.31	59.84	1,855.19	5,570.20	5,320.06	5,173.32	146.73	36.256	
5,800.00	5,460.61	15,352.00	7,829.29	34.14	138.31	59.84	1,855.19	5,570.20	5,250.06	5,101.82	148.25	35.414	
5,900.00	5,551.08	15,352.00	7,829.29	34.94	138.31	59.84	1,855.19	5,570.20	5,181.06	5,031.28	149.78	34.592	
6,000.00	5,641.56	15,352.00	7,829.29	35.75	138.31	59.84	1,855.19	5,570.20	5,113.08	4,961.75	151.33	33.788	
6,100.00	5,732.03	15,352.00	7,829.29	36.55	138.31	59.84	1,855.19	5,570.20	5,046.16	4,893.26	152.89	33.004	
6,200.00	5,822.50	15,352.00	7,829.29	37.35	138.31	59.84	1,855.19	5,570.20	4,980.35	4,825.87	154.48	32.240	
6,300.00	5,912.97	15,352.00	7,829.29	38.16	138.31	59.84	1,855.19	5,570.20	4,915.70	4,759.62	156.07	31.496	
6,400.00	6,003.45	15,352.00	7,829.29	38.96	138.31	59.84	1,855.19	5,570.20	4,852.24	4,694.56	157.68	30.773	
6,500.00	6,093.92	15,352.00	7,829.29	39.77	138.31	59.84	1,855.19	5,570.20	4,790.04	4,630.74	159.30	30.070	
6,600.00	6,184.39	15,352.00	7,829.29	40.57	138.31	59.84	1,855.19	5,570.20	4,729.12	4,568.20	160.92	29.388	
6,700.00	6,274.87	15,352.00	7,829.29	41.38	138.31	59.84	1,855.19	5,570.20	4,669.56	4,507.01	162.55	28.727	
6,800.00	6,365.34	15,352.00	7,829.29	42.18	138.31	59.84	1,855.19	5,570.20	4,611.40	4,447.21	164.18	28.087	
6,900.00	6,455.81	15,352.00	7,829.29	42.99	138.31	59.84	1,855.19	5,570.20	4,554.69	4,388.87	165.81	27.469	
7,000.00	6,546.28	15,352.00	7,829.29	43.80	138.31	59.84	1,855.19	5,570.20	4,499.48	4,332.05	167.44	26.873	
7,100.00	6,636.76	15,352.00	7,829.29	44.61	138.31	59.84	1,855.19	5,570.20	4,445.84	4,276.79	169.05	26.299	
7,200.00	6,727.23	15,352.00	7,829.29	45.41	138.31	59.84	1,855.19	5,570.20	4,393.83	4,223.17	170.65	25.747	
7,300.00	6,817.70	15,352.00	7,829.29	46.22	138.31	59.84	1,855.19	5,570.20	4,343.49	4,171.25	172.24	25.218	
7,383.79	6,893.51	15,352.00	7,829.29	46.90	138.31	59.84	1,855.19	5,570.20	4,302.65	4,129.09	173.55	24.792	
7,400.00	6,908.25	15,352.00	7,829.29	47.03	138.31	56.62	1,855.19	5,570.20	4,294.85	4,121.05	173.80	24.711	
7,450.00	6,954.52	15,352.00	7,829.29	47.40	138.31	44.92	1,855.19	5,570.20	4,270.73	4,096.21	174.52	24.471	
7,500.00	7,001.74	15,355.64	7,829.37	47.72	138.37	30.09	1,851.55	5,570.20	4,246.61	4,071.36	175.24	24.233	
7,550.00	7,049.55	15,351.86	7,829.29	47.99	138.30	11.85	1,855.33	5,570.20	4,222.68	4,046.96	175.72	24.031	
7,600.00	7,097.58	15,352.44	7,829.30	48.21	138.31	-8.05	1,854.75	5,570.20	4,199.13	4,022.93	176.21	23.831	
7,650.00	7,145.48	15,357.37	7,829.41	48.37	138.40	-26.66	1,849.82	5,570.20	4,176.14	3,999.45	176.70	23.635	
7,700.00	7,192.88	15,352.00	7,829.29	48.48	138.31	-42.19	1,855.19	5,570.20	4,153.91	3,977.04	176.87	23.486	
7,750.00	7,239.41	15,352.00	7,829.29	48.54	138.31	-54.19	1,855.19	5,570.20	4,132.61	3,955.54	177.07	23.338	
7,800.00	7,284.72	15,352.00	7,829.29	48.56	138.31	-63.42	1,855.19	5,570.20	4,112.43	3,935.24	177.19	23.209	
7,850.00	7,328.47	15,352.00	7,829.29	48.54	138.31	-70.61	1,855.19	5,570.20	4,093.52	3,916.31	177.21	23.099	
7,900.00	7,370.32	15,352.00	7,829.29	48.47	138.31	-76.31	1,855.19	5,570.20	4,076.06	3,898.91	177.15	23.009	
7,950.00	7,409.96	15,352.00	7,829.29	48.37	138.31	-80.88	1,855.19	5,570.20	4,060.20	3,883.19	177.01	22.938	
8,000.00	7,447.08	15,352.00	7,829.29	48.24	138.31	-84.58	1,855.19	5,570.20	4,046.07	3,869.29	176.78	22.888	
8,050.00	7,481.41	15,352.00	7,829.29	48.07	138.31	-87.58	1,855.19	5,570.20	4,033.81	3,857.34	176.48	22.858	
8,100.00	7,512.67	15,352.00	7,829.29	47.87	138.31	-89.99	1,855.19	5,570.20	4,023.53	3,847.43	176.10	22.848	SF
8,150.00	7,540.64	15,352.00	7,829.29	47.65	138.31	-91.90	1,855.19	5,570.20	4,015.31	3,839.66	175.66	22.859	
8,200.00	7,565.09	15,352.00	7,829.29	47.40	138.31	-93.36	1,855.19	5,570.20	4,009.24	3,834.08	175.16	22.889	
8,250.00	7,585.85	15,352.00	7,829.29	47.14	138.31	-94.41	1,855.19	5,570.20	4,005.37	3,830.76	174.61	22.939	
8,300.00	7,602.75	15,352.00	7,829.29	46.86	138.31	-95.09	1,855.19	5,570.20	4,003.73	3,829.72	174.02	23.008	ES
8,311.35	7,606.04	15,352.00	7,829.29	46.80	138.31	-95.20	1,855.19	5,570.20	4,003.67	3,829.80	173.88	23.026	CC
8,350.00	7,615.67	15,352.00	7,829.29	46.58	138.31	-95.42	1,855.19	5,570.20	4,004.35	3,830.96	173.39	23.095	
8,400.00	7,624.51	15,352.00	7,829.29	46.28	138.31	-95.41	1,855.19	5,570.20	4,007.21	3,834.47	172.74	23.198	
8,450.00	7,629.19	15,352.00	7,829.29	45.98	138.31	-95.06	1,855.19	5,570.20	4,012.29	3,840.22	172.07	23.318	
8,481.00	7,630.00	15,352.00	7,829.29	45.79	138.31	-94.68	1,855.19	5,570.20	4,016.53	3,844.89	171.64	23.400	
8,500.00	7,630.00	15,352.00	7,829.29	45.68	138.31	-94.68	1,855.19	5,570.20	4,019.43	3,848.04	171.38	23.453	
8,600.00	7,630.00	15,352.00	7,829.29	45.11	138.31	-94.68	1,855.19	5,570.20	4,036.12	3,866.06	170.06	23.733	
8,700.00	7,630.00	15,352.00	7,829.29	44.56	138.31	-94.68	1,855.19	5,570.20	4,055.21	3,886.40	168.81	24.022	
8,800.00	7,630.00	15,352.00	7,829.29	44.05	138.31	-94.68	1,855.19	5,570.20	4,076.67	3,909.03	167.64	24.318	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	15,352.00	7,829.29	43.57	138.31	-94.68	1,855.19	5,570.20	4,100.45	3,933.90	166.55	24.620	
9,000.00	7,630.00	15,352.00	7,829.29	43.12	138.31	-94.68	1,855.19	5,570.20	4,126.52	3,960.97	165.55	24.927	
9,100.00	7,630.00	15,352.00	7,829.29	42.70	138.31	-94.68	1,855.19	5,570.20	4,154.83	3,990.19	164.63	25.237	
9,200.00	7,630.00	15,352.00	7,829.29	42.31	138.31	-94.68	1,855.19	5,570.20	4,185.34	4,021.53	163.81	25.550	
9,300.00	7,630.00	15,352.00	7,829.29	41.94	138.31	-94.68	1,855.19	5,570.20	4,218.00	4,054.93	163.07	25.866	
9,400.00	7,630.00	15,352.00	7,829.29	41.59	138.31	-94.68	1,855.19	5,570.20	4,252.76	4,090.36	162.41	26.186	
9,500.00	7,630.00	15,352.00	7,829.29	41.26	138.31	-94.68	1,855.19	5,570.20	4,289.58	4,127.76	161.81	26.510	
9,600.00	7,630.00	15,352.00	7,829.29	40.96	138.31	-94.68	1,855.19	5,570.20	4,328.39	4,167.10	161.28	26.837	
9,700.00	7,630.00	15,352.00	7,829.29	40.68	138.31	-94.68	1,855.19	5,570.20	4,369.14	4,208.33	160.81	27.170	
9,800.00	7,630.00	15,352.00	7,829.29	40.42	138.31	-94.68	1,855.19	5,570.20	4,411.79	4,251.41	160.38	27.508	
9,900.00	7,630.00	15,352.00	7,829.29	40.17	138.31	-94.68	1,855.19	5,570.20	4,456.27	4,296.28	159.99	27.853	
10,000.00	7,630.00	15,352.00	7,829.29	39.96	138.31	-94.68	1,855.19	5,570.20	4,502.53	4,342.90	159.63	28.206	
10,100.00	7,630.00	15,352.00	7,829.29	40.05	138.31	-94.68	1,855.19	5,570.20	4,550.52	4,391.22	159.30	28.566	
10,200.00	7,630.00	15,352.00	7,829.29	40.95	138.31	-94.68	1,855.19	5,570.20	4,600.19	4,441.20	158.99	28.934	
10,300.00	7,630.00	15,352.00	7,829.29	41.94	138.31	-94.68	1,855.19	5,570.20	4,651.47	4,492.78	158.69	29.312	
10,400.00	7,630.00	15,352.00	7,829.29	42.98	138.31	-94.68	1,855.19	5,570.20	4,704.32	4,545.92	158.40	29.699	
10,500.00	7,630.00	15,352.00	7,829.29	44.06	138.31	-94.68	1,855.19	5,570.20	4,758.69	4,600.57	158.12	30.096	
10,600.00	7,630.00	15,352.00	7,829.29	45.17	138.31	-94.68	1,855.19	5,570.20	4,814.52	4,656.68	157.84	30.502	
10,700.00	7,630.00	15,352.00	7,829.29	46.32	138.31	-94.68	1,855.19	5,570.20	4,871.76	4,714.20	157.56	30.919	
10,800.00	7,630.00	15,352.00	7,829.29	47.50	138.31	-94.68	1,855.19	5,570.20	4,930.37	4,773.08	157.29	31.346	
10,900.00	7,630.00	15,352.00	7,829.29	48.70	138.31	-94.68	1,855.19	5,570.20	4,990.29	4,833.28	157.01	31.783	
11,000.00	7,630.00	15,352.00	7,829.29	49.94	138.31	-94.68	1,855.19	5,570.20	5,051.48	4,894.75	156.73	32.231	
11,100.00	7,630.00	15,352.00	7,829.29	51.20	138.31	-94.68	1,855.19	5,570.20	5,113.90	4,957.45	156.44	32.688	
11,200.00	7,630.00	15,352.00	7,829.29	52.48	138.31	-94.68	1,855.19	5,570.20	5,177.49	5,021.33	156.15	33.156	
11,300.00	7,630.00	15,352.00	7,829.29	53.79	138.31	-94.68	1,855.19	5,570.20	5,242.22	5,086.36	155.86	33.634	
11,400.00	7,630.00	15,352.00	7,829.29	55.12	138.31	-94.68	1,855.19	5,570.20	5,308.04	5,152.48	155.56	34.121	
11,500.00	7,630.00	15,352.00	7,829.29	56.46	138.31	-94.68	1,855.19	5,570.20	5,374.92	5,219.66	155.26	34.618	
11,600.00	7,630.00	15,352.00	7,829.29	57.83	138.31	-94.68	1,855.19	5,570.20	5,442.82	5,287.86	154.96	35.125	
11,700.00	7,630.00	15,352.00	7,829.29	59.22	138.31	-94.68	1,855.19	5,570.20	5,511.69	5,357.04	154.65	35.641	
11,800.00	7,630.00	15,352.00	7,829.29	60.62	138.31	-94.68	1,855.19	5,570.20	5,581.50	5,427.17	154.33	36.166	
11,900.00	7,630.00	15,352.00	7,829.29	62.04	138.31	-94.68	1,855.19	5,570.20	5,652.23	5,498.21	154.02	36.699	
12,000.00	7,630.00	15,352.00	7,829.29	63.48	138.31	-94.68	1,855.19	5,570.20	5,723.82	5,570.13	153.69	37.241	
12,100.00	7,630.00	15,352.00	7,829.29	64.93	138.31	-94.68	1,855.19	5,570.20	5,796.26	5,642.89	153.37	37.792	
12,200.00	7,630.00	15,352.00	7,829.29	66.39	138.31	-94.68	1,855.19	5,570.20	5,869.50	5,716.46	153.05	38.351	
12,300.00	7,630.00	15,352.00	7,829.29	67.86	138.31	-94.68	1,855.19	5,570.20	5,943.53	5,790.81	152.72	38.918	
12,400.00	7,630.00	15,352.00	7,829.29	69.35	138.31	-94.68	1,855.19	5,570.20	6,018.30	5,865.91	152.39	39.492	
12,500.00	7,630.00	15,352.00	7,829.29	70.85	138.31	-94.68	1,855.19	5,570.20	6,093.81	5,941.74	152.06	40.074	
12,600.00	7,630.00	15,352.00	7,829.29	72.36	138.31	-94.68	1,855.19	5,570.20	6,170.00	6,018.27	151.73	40.664	
12,700.00	7,630.00	15,352.00	7,829.29	73.88	138.31	-94.68	1,855.19	5,570.20	6,246.87	6,095.47	151.40	41.260	
12,800.00	7,630.00	15,352.00	7,829.29	75.41	138.31	-94.68	1,855.19	5,570.20	6,324.39	6,173.31	151.07	41.863	
12,900.00	7,630.00	15,352.00	7,829.29	76.95	138.31	-94.68	1,855.19	5,570.20	6,402.53	6,251.78	150.74	42.473	
13,000.00	7,630.00	15,352.00	7,829.29	78.49	138.31	-94.68	1,855.19	5,570.20	6,481.26	6,330.85	150.42	43.089	
13,100.00	7,630.00	15,352.00	7,829.29	80.05	138.31	-94.68	1,855.19	5,570.20	6,560.58	6,410.50	150.09	43.711	
13,200.00	7,630.00	15,352.00	7,829.29	81.61	138.31	-94.68	1,855.19	5,570.20	6,640.46	6,490.70	149.76	44.340	
13,300.00	7,630.00	15,352.00	7,829.29	83.18	138.31	-94.68	1,855.19	5,570.20	6,720.88	6,571.44	149.44	44.974	
13,400.00	7,630.00	15,352.00	7,829.29	84.76	138.31	-94.68	1,855.19	5,570.20	6,801.81	6,652.70	149.12	45.614	
13,500.00	7,630.00	15,352.00	7,829.29	86.34	138.31	-94.68	1,855.19	5,570.20	6,883.25	6,734.45	148.80	46.260	
13,600.00	7,630.00	15,352.00	7,829.29	87.94	138.31	-94.68	1,855.19	5,570.20	6,965.17	6,816.69	148.48	46.910	
13,700.00	7,630.00	15,352.00	7,829.29	89.53	138.31	-94.68	1,855.19	5,570.20	7,047.56	6,899.39	148.16	47.566	
13,800.00	7,630.00	15,352.00	7,829.29	91.13	138.31	-94.68	1,855.19	5,570.20	7,130.39	6,982.54	147.85	48.227	
13,900.00	7,630.00	15,352.00	7,829.29	92.74	138.31	-94.68	1,855.19	5,570.20	7,213.67	7,066.12	147.54	48.892	
14,000.00	7,630.00	15,352.00	7,829.29	94.35	138.31	-94.68	1,855.19	5,570.20	7,297.36	7,150.12	147.24	49.562	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 16-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	15,352.00	7,829.29	95.97	138.31	-94.68	1,855.19	5,570.20	7,381.46	7,234.52	146.93	50.237	
14,200.00	7,630.00	15,352.00	7,829.29	97.60	138.31	-94.68	1,855.19	5,570.20	7,465.95	7,319.31	146.63	50.915	
14,300.00	7,630.00	15,352.00	7,829.29	99.22	138.31	-94.68	1,855.19	5,570.20	7,550.82	7,404.48	146.34	51.598	
14,400.00	7,630.00	15,352.00	7,829.29	100.85	138.31	-94.68	1,855.19	5,570.20	7,636.05	7,490.01	146.05	52.285	
14,500.00	7,630.00	15,352.00	7,829.29	102.49	138.31	-94.68	1,855.19	5,570.20	7,721.64	7,575.89	145.76	52.976	
14,600.00	7,630.00	15,352.00	7,829.29	104.13	138.31	-94.68	1,855.19	5,570.20	7,807.58	7,662.10	145.47	53.671	
14,700.00	7,630.00	15,352.00	7,829.29	105.77	138.31	-94.68	1,855.19	5,570.20	7,893.84	7,748.65	145.19	54.369	
14,800.00	7,630.00	15,352.00	7,829.29	107.42	138.31	-94.68	1,855.19	5,570.20	7,980.43	7,835.51	144.91	55.070	
14,900.00	7,630.00	15,352.00	7,829.29	109.07	138.31	-94.68	1,855.19	5,570.20	8,067.32	7,922.68	144.64	55.775	
15,000.00	7,630.00	15,352.00	7,829.29	110.72	138.31	-94.68	1,855.19	5,570.20	8,154.52	8,010.15	144.37	56.484	
15,100.00	7,630.00	15,352.00	7,829.29	112.38	138.31	-94.68	1,855.19	5,570.20	8,242.00	8,097.90	144.10	57.195	
15,200.00	7,630.00	15,352.00	7,829.29	114.04	138.31	-94.68	1,855.19	5,570.20	8,329.77	8,185.93	143.84	57.909	
15,300.00	7,630.00	15,352.00	7,829.29	115.71	138.31	-94.68	1,855.19	5,570.20	8,417.81	8,274.23	143.58	58.626	
15,400.00	7,630.00	15,352.00	7,829.29	117.37	138.31	-94.68	1,855.19	5,570.20	8,506.11	8,362.79	143.33	59.346	
15,500.00	7,630.00	15,352.00	7,829.29	119.04	138.31	-94.68	1,855.19	5,570.20	8,594.68	8,451.60	143.08	60.069	
15,600.00	7,630.00	15,352.00	7,829.29	120.71	138.31	-94.68	1,855.19	5,570.20	8,683.49	8,540.65	142.83	60.794	
15,700.00	7,630.00	15,352.00	7,829.29	122.39	138.31	-94.68	1,855.19	5,570.20	8,772.54	8,629.94	142.59	61.522	
15,800.00	7,630.00	15,352.00	7,829.29	124.06	138.31	-94.68	1,855.19	5,570.20	8,861.82	8,719.47	142.35	62.252	
15,900.00	7,630.00	15,352.00	7,829.29	125.74	138.31	-94.68	1,855.19	5,570.20	8,951.33	8,809.21	142.12	62.985	
16,000.00	7,630.00	15,352.00	7,829.29	127.42	138.31	-94.68	1,855.19	5,570.20	9,041.06	8,899.17	141.89	63.719	
16,100.00	7,630.00	15,352.00	7,829.29	129.10	138.31	-94.68	1,855.19	5,570.20	9,131.01	8,989.34	141.66	64.456	
16,200.00	7,630.00	15,352.00	7,829.29	130.79	138.31	-94.68	1,855.19	5,570.20	9,221.16	9,079.72	141.44	65.195	
16,300.00	7,630.00	15,352.00	7,829.29	132.48	138.31	-94.68	1,855.19	5,570.20	9,311.51	9,170.29	141.22	65.936	
16,400.00	7,630.00	15,352.00	7,829.29	134.17	138.31	-94.68	1,855.19	5,570.20	9,402.06	9,261.05	141.01	66.678	
16,500.00	7,630.00	15,352.00	7,829.29	135.86	138.31	-94.68	1,855.19	5,570.20	9,492.79	9,352.00	140.80	67.423	
16,600.00	7,630.00	15,352.00	7,829.29	137.55	138.31	-94.68	1,855.19	5,570.20	9,583.71	9,443.13	140.59	68.169	
16,700.00	7,630.00	15,352.00	7,829.29	139.24	138.31	-94.68	1,855.19	5,570.20	9,674.82	9,534.43	140.38	68.917	
16,800.00	7,630.00	15,352.00	7,829.29	140.94	138.31	-94.68	1,855.19	5,570.20	9,766.09	9,625.91	140.18	69.666	
16,900.00	7,630.00	15,352.00	7,829.29	142.64	138.31	-94.68	1,855.19	5,570.20	9,857.53	9,717.55	139.99	70.417	
17,000.00	7,630.00	15,352.00	7,829.29	144.34	138.31	-94.68	1,855.19	5,570.20	9,949.14	9,809.35	139.79	71.170	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	58.96	2,113.49	3,511.49	4,098.65				
100.00	100.00	50.41	50.41	0.13	0.09	58.96	2,113.49	3,511.53	4,098.51	4,098.29	0.23	N/A	
200.00	200.00	125.00	125.00	0.49	0.36	58.96	2,113.50	3,512.08	4,099.13	4,098.28	0.85	4,810.084	
300.00	300.00	202.07	202.06	0.85	0.63	58.96	2,113.80	3,513.01	4,100.34	4,098.86	1.49	2,758.683	
400.00	400.00	304.21	304.19	1.21	1.00	58.96	2,114.63	3,514.27	4,101.82	4,099.62	2.21	1,856.275	
500.00	500.00	441.64	441.61	1.57	1.49	58.98	2,114.51	3,515.80	4,102.73	4,099.68	3.06	1,342.337	
600.00	600.00	536.70	536.66	1.93	1.83	58.99	2,113.82	3,516.81	4,103.26	4,099.51	3.75	1,093.550	
700.00	700.00	633.35	633.31	2.29	2.17	59.00	2,113.68	3,517.65	4,103.94	4,099.48	4.45	921.241	
800.00	800.00	778.29	778.24	2.64	2.67	58.99	2,114.38	3,517.37	4,103.99	4,098.68	5.31	773.041	
900.00	900.00	912.63	912.58	3.00	3.12	58.99	2,113.65	3,516.51	4,103.17	4,097.05	6.12	670.391	
1,000.00	1,000.00	996.04	995.98	3.36	3.40	58.99	2,113.15	3,515.71	4,102.06	4,095.29	6.76	606.504	
1,100.00	1,100.00	1,092.01	1,091.95	3.72	3.73	58.98	2,113.34	3,514.79	4,101.33	4,093.88	7.45	550.469	
1,200.00	1,200.00	1,211.58	1,211.51	4.08	4.14	58.97	2,113.37	3,513.45	4,100.39	4,092.17	8.22	498.763	
1,300.00	1,300.00	1,351.74	1,351.65	4.44	4.63	58.96	2,113.25	3,511.23	4,099.12	4,090.05	9.07	452.159	
1,400.00	1,400.00	1,420.72	1,420.61	4.79	4.87	58.94	2,113.33	3,509.47	4,097.08	4,087.42	9.67	423.872	
1,500.00	1,499.98	1,546.49	1,546.36	5.15	5.31	21.19	2,111.77	3,508.79	4,094.52	4,084.06	10.46	391.383	
1,600.00	1,599.84	1,850.69	1,849.17	5.51	6.40	21.66	2,084.20	3,507.47	4,083.68	4,071.80	11.88	343.783	
1,700.00	1,699.45	1,935.13	1,932.67	5.87	6.72	21.97	2,071.65	3,508.34	4,068.86	4,056.32	12.55	324.282	
1,800.00	1,798.70	2,044.83	2,040.70	6.23	7.14	22.43	2,052.76	3,510.64	4,050.65	4,037.33	13.32	304.169	
1,900.00	1,897.47	2,110.00	2,104.66	6.60	7.40	22.82	2,040.46	3,512.86	4,029.69	4,015.76	13.93	289.273	
2,000.00	1,995.62	2,179.54	2,172.82	6.99	7.68	23.28	2,027.04	3,515.94	4,006.37	3,991.80	14.57	275.004	
2,100.00	2,093.06	2,252.31	2,244.18	7.39	7.98	23.79	2,013.28	3,519.57	3,980.73	3,965.50	15.23	261.414	
2,200.00	2,189.64	2,400.06	2,389.24	7.82	8.60	24.68	1,986.00	3,526.25	3,952.19	3,936.00	16.19	244.070	
2,300.00	2,285.27	2,460.15	2,448.28	8.28	8.86	25.24	1,975.06	3,528.57	3,920.20	3,903.38	16.82	233.063	
2,400.00	2,379.82	2,605.90	2,591.36	8.77	9.49	26.30	1,947.74	3,533.38	3,884.70	3,866.90	17.80	218.186	
2,500.00	2,473.17	2,666.00	2,650.33	9.31	9.75	26.99	1,936.34	3,535.41	3,846.60	3,828.14	18.46	208.408	
2,600.00	2,565.21	2,715.17	2,698.65	9.88	9.97	27.68	1,927.40	3,537.33	3,806.60	3,787.52	19.08	199.543	
2,660.67	2,620.37	2,748.34	2,731.27	10.25	10.11	28.14	1,921.58	3,538.73	3,781.43	3,761.95	19.47	194.179	
2,700.00	2,655.96	2,787.24	2,769.54	10.50	10.28	28.38	1,914.84	3,540.46	3,764.93	3,745.12	19.81	190.098	
2,800.00	2,746.43	2,897.62	2,877.92	11.15	10.77	29.09	1,894.44	3,545.12	3,722.54	3,701.83	20.70	179.802	
2,900.00	2,836.90	2,991.03	2,969.73	11.82	11.19	29.70	1,877.60	3,548.60	3,680.33	3,658.77	21.55	170.772	
3,000.00	2,927.37	3,070.10	3,047.20	12.50	11.55	30.24	1,862.08	3,551.88	3,638.17	3,615.81	22.36	162.707	
3,100.00	3,017.85	3,132.00	3,107.93	13.21	11.83	30.67	1,850.43	3,554.63	3,596.88	3,573.76	23.12	155.605	
3,200.00	3,108.32	3,246.26	3,220.09	13.92	12.35	31.47	1,829.18	3,559.23	3,555.69	3,531.59	24.10	147.536	
3,300.00	3,198.79	3,313.88	3,286.62	14.64	12.66	31.94	1,817.27	3,561.57	3,514.80	3,489.90	24.90	141.129	
3,400.00	3,289.27	3,420.00	3,391.10	15.38	13.14	32.68	1,798.99	3,564.99	3,474.24	3,448.36	25.88	134.261	
3,500.00	3,379.74	3,523.53	3,492.74	16.12	13.61	33.45	1,779.59	3,568.20	3,433.44	3,406.58	26.86	127.819	
3,600.00	3,470.21	3,598.80	3,566.78	16.87	13.96	34.01	1,766.19	3,570.17	3,392.98	3,365.24	27.74	122.301	
3,700.00	3,560.68	3,655.74	3,622.91	17.62	14.21	34.43	1,756.73	3,571.69	3,353.35	3,324.79	28.56	117.414	
3,800.00	3,651.16	3,719.84	3,686.06	18.39	14.50	34.91	1,746.00	3,574.02	3,314.80	3,285.38	29.42	112.670	
3,900.00	3,741.63	3,803.02	3,767.94	19.15	14.88	35.55	1,731.74	3,577.31	3,276.84	3,246.46	30.38	107.878	
4,000.00	3,832.10	3,869.21	3,833.01	19.92	15.19	36.08	1,720.00	3,580.30	3,239.62	3,208.34	31.28	103.568	
4,100.00	3,922.57	4,018.98	3,980.00	20.69	15.88	37.33	1,691.85	3,585.96	3,201.80	3,169.24	32.55	98.358	
4,200.00	4,013.05	4,075.00	4,035.25	21.47	16.14	37.78	1,682.74	3,587.37	3,164.37	3,130.93	33.44	94.625	
4,300.00	4,103.52	4,140.60	4,100.08	22.25	16.43	38.30	1,672.92	3,589.27	3,128.03	3,093.66	34.37	91.012	
4,400.00	4,193.99	4,293.99	4,251.28	23.03	17.12	39.59	1,647.53	3,593.61	3,091.80	3,056.13	35.67	86.683	
4,500.00	4,284.47	4,375.98	4,331.89	23.81	17.50	40.31	1,632.59	3,595.21	3,054.90	3,018.18	36.71	83.207	
4,600.00	4,374.94	4,443.05	4,397.68	24.60	17.82	40.93	1,619.70	3,596.95	3,018.86	2,981.14	37.72	80.026	
4,700.00	4,465.41	4,531.02	4,483.85	25.39	18.24	41.77	1,602.19	3,599.59	2,983.63	2,944.79	38.84	76.812	
4,800.00	4,555.88	4,645.36	4,595.84	26.18	18.79	42.89	1,579.28	3,602.33	2,948.55	2,908.46	40.09	73.543	
4,900.00	4,646.36	4,701.48	4,650.86	26.97	19.06	43.44	1,568.27	3,603.58	2,914.05	2,872.95	41.11	70.890	
5,000.00	4,736.83	4,767.28	4,715.49	27.76	19.37	44.09	1,556.12	3,605.40	2,880.87	2,838.71	42.17	68.319	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	4,841.94	4,789.01	28.55	19.72	44.82	1,543.29	3,607.57	2,848.69	2,805.42	43.27	65.831	
5,200.00	4,917.77	4,913.29	4,859.28	29.35	20.05	45.52	1,531.12	3,609.92	2,817.52	2,773.14	44.37	63.494	
5,300.00	5,008.25	5,010.97	4,955.46	30.15	20.50	46.50	1,514.37	3,613.19	2,787.09	2,741.48	45.60	61.114	
5,400.00	5,098.72	5,097.99	5,041.31	30.94	20.89	47.37	1,500.36	3,615.66	2,757.05	2,710.26	46.79	58.922	
5,500.00	5,189.19	5,166.59	5,109.08	31.74	21.20	48.06	1,489.95	3,617.66	2,727.89	2,679.99	47.91	56.939	
5,600.00	5,279.67	5,232.42	5,174.08	32.54	21.49	48.73	1,479.81	3,620.08	2,700.07	2,651.04	49.03	55.073	
5,700.00	5,370.14	5,301.00	5,241.76	33.34	21.80	49.44	1,469.15	3,623.08	2,673.56	2,623.39	50.17	53.292	
5,800.00	5,460.61	5,405.07	5,344.41	34.14	22.27	50.54	1,452.63	3,627.61	2,647.80	2,596.31	51.48	51.429	
5,900.00	5,551.08	5,516.98	5,455.03	34.94	22.77	51.72	1,436.14	3,631.45	2,622.10	2,569.27	52.83	49.631	
6,000.00	5,641.56	5,613.42	5,550.41	35.75	23.19	52.75	1,422.03	3,633.80	2,596.32	2,542.20	54.12	47.972	
6,100.00	5,732.03	5,680.44	5,616.65	36.55	23.49	53.49	1,412.10	3,635.69	2,571.68	2,516.38	55.30	46.504	
6,200.00	5,822.50	5,751.16	5,686.53	37.35	23.80	54.27	1,401.54	3,638.12	2,548.43	2,491.93	56.50	45.102	
6,300.00	5,912.97	5,842.85	5,777.06	38.16	24.21	55.31	1,387.37	3,641.53	2,526.29	2,468.47	57.82	43.694	
6,400.00	6,003.45	5,932.10	5,865.19	38.96	24.61	56.33	1,373.55	3,644.51	2,504.73	2,445.60	59.13	42.362	
6,500.00	6,093.92	6,017.09	5,949.31	39.77	24.98	57.29	1,361.81	3,647.37	2,484.04	2,423.62	60.41	41.119	
6,600.00	6,184.39	6,096.38	6,027.71	40.57	25.33	58.21	1,350.24	3,650.10	2,464.35	2,402.67	61.68	39.953	
6,700.00	6,274.87	6,181.02	6,111.34	41.38	25.70	59.20	1,337.65	3,653.25	2,445.89	2,382.90	62.98	38.834	
6,800.00	6,365.34	6,279.63	6,209.04	42.18	26.13	60.34	1,324.73	3,656.65	2,427.96	2,363.62	64.34	37.736	
6,900.00	6,455.81	6,365.80	6,294.41	42.99	26.50	61.35	1,313.38	3,659.47	2,410.84	2,345.20	65.64	36.727	
7,000.00	6,546.28	6,456.10	6,383.93	43.80	26.88	62.41	1,301.83	3,662.44	2,394.64	2,327.68	66.96	35.762	
7,100.00	6,636.76	6,560.79	6,487.99	44.61	27.30	63.60	1,290.95	3,665.82	2,378.99	2,310.67	68.32	34.821	
7,200.00	6,727.23	6,679.57	6,606.22	45.41	27.77	64.95	1,279.93	3,668.65	2,363.33	2,293.61	69.72	33.898	
7,300.00	6,817.70	6,790.59	6,716.83	46.22	28.20	66.21	1,270.47	3,670.04	2,347.41	2,276.33	71.08	33.027	
7,383.79	6,893.51	6,875.40	6,801.44	46.90	28.51	67.15	1,264.90	3,670.88	2,334.25	2,262.08	72.16	32.347	
7,400.00	6,908.25	6,891.82	6,817.84	47.03	28.57	64.72	1,264.03	3,671.05	2,331.66	2,259.29	72.37	32.219	
7,450.00	6,954.52	6,940.86	6,866.83	47.40	28.74	55.36	1,261.84	3,671.59	2,322.89	2,249.94	72.94	31.845	
7,500.00	7,001.74	6,990.26	6,916.20	47.72	28.90	42.58	1,260.11	3,672.20	2,312.91	2,239.47	73.45	31.491	
7,550.00	7,049.55	7,041.08	6,967.00	47.99	29.07	26.26	1,258.78	3,672.89	2,301.74	2,227.87	73.87	31.160	
7,600.00	7,097.58	7,092.45	7,018.35	48.21	29.24	7.92	1,257.79	3,673.60	2,289.38	2,215.16	74.21	30.849	
7,650.00	7,145.48	7,138.80	7,064.69	48.37	29.39	-9.53	1,257.19	3,674.30	2,275.95	2,201.49	74.46	30.565	
7,700.00	7,192.88	7,184.45	7,110.33	48.48	29.53	-24.08	1,256.86	3,675.10	2,261.62	2,186.99	74.63	30.303	
7,750.00	7,239.41	7,250.20	7,176.07	48.54	29.72	-35.66	1,256.86	3,676.14	2,246.32	2,171.56	74.76	30.046	
7,800.00	7,284.72	7,313.99	7,239.85	48.56	29.90	-44.93	1,257.70	3,676.78	2,229.97	2,155.17	74.80	29.813	
7,850.00	7,328.47	7,371.67	7,297.46	48.54	30.05	-52.57	1,260.56	3,677.45	2,212.88	2,138.15	74.73	29.611	
7,900.00	7,370.32	8,140.10	7,875.46	48.47	30.47	-77.12	1,678.53	3,661.54	2,193.84	2,124.45	69.39	31.617	
7,950.00	7,409.96	8,079.03	7,857.21	48.37	30.48	-80.70	1,620.31	3,663.60	2,172.43	2,102.55	69.89	31.085	
8,000.00	7,447.08	8,054.02	7,848.15	48.24	30.49	-84.38	1,597.02	3,664.49	2,152.72	2,082.78	69.94	30.778	
8,050.00	7,481.41	7,780.29	7,681.62	48.07	30.58	-80.39	1,385.08	3,672.97	2,134.78	2,062.46	72.32	29.518	
8,100.00	7,512.67	7,784.74	7,685.25	47.87	30.58	-83.65	1,387.66	3,672.89	2,118.23	2,046.32	71.91	29.457	
8,150.00	7,540.64	7,783.58	7,684.30	47.65	30.58	-86.21	1,386.98	3,672.91	2,103.73	2,032.25	71.47	29.433	SF
8,200.00	7,565.09	7,778.46	7,680.12	47.40	30.58	-88.18	1,384.04	3,673.00	2,091.41	2,020.40	71.01	29.452	
8,250.00	7,585.85	7,770.48	7,673.53	47.14	30.57	-89.64	1,379.53	3,673.16	2,081.40	2,010.88	70.52	29.515	
8,300.00	7,602.75	7,760.37	7,665.08	46.86	30.57	-90.63	1,373.98	3,673.39	2,073.76	2,003.75	70.01	29.622	
8,350.00	7,615.67	7,749.37	7,655.77	46.58	30.57	-91.22	1,368.13	3,673.65	2,068.53	1,999.05	69.48	29.773	
8,400.00	7,624.51	7,737.60	7,645.68	46.28	30.56	-91.44	1,362.08	3,673.98	2,065.73	1,996.80	68.93	29.967	
8,433.10	7,628.08	7,729.11	7,638.33	46.08	30.56	-91.37	1,357.84	3,674.23	2,065.20	1,996.63	68.58	30.115	CC, ES
8,450.00	7,629.19	7,724.59	7,634.39	45.98	30.56	-91.28	1,355.63	3,674.38	2,065.34	1,996.95	68.40	30.197	
8,481.00	7,630.00	7,710.00	7,621.56	45.79	30.55	-90.85	1,348.70	3,674.89	2,066.31	1,998.20	68.10	30.341	
8,500.00	7,630.00	7,711.15	7,622.58	45.68	30.55	-90.88	1,349.23	3,674.84	2,067.22	1,999.36	67.87	30.459	
8,600.00	7,630.00	7,673.12	7,588.47	45.11	30.53	-89.93	1,332.48	3,676.23	2,074.52	2,007.56	66.97	30.979	
8,700.00	7,630.00	7,591.22	7,512.37	44.56	30.45	-87.82	1,302.38	3,677.91	2,085.44	2,019.07	66.38	31.418	
8,800.00	7,630.00	7,560.36	7,482.94	44.05	30.41	-87.01	1,293.07	3,677.90	2,100.14	2,034.42	65.73	31.952	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	7,543.75	7,466.96	43.57	30.39	-86.57	1,288.54	3,677.86	2,119.17	2,053.95	65.23	32.490	
9,000.00	7,630.00	7,529.36	7,453.04	43.12	30.36	-86.18	1,284.89	3,677.85	2,142.52	2,077.60	64.92	33.004	
9,100.00	7,630.00	7,520.00	7,443.95	42.70	30.35	-85.93	1,282.65	3,677.84	2,170.07	2,105.28	64.79	33.492	
9,200.00	7,630.00	7,507.17	7,431.46	42.31	30.33	-85.59	1,279.76	3,677.85	2,201.71	2,136.85	64.86	33.946	
9,300.00	7,630.00	7,498.21	7,422.70	41.94	30.31	-85.35	1,277.85	3,677.88	2,237.28	2,172.20	65.09	34.375	
9,400.00	7,630.00	7,490.10	7,414.75	41.59	30.30	-85.13	1,276.21	3,677.91	2,276.62	2,211.16	65.46	34.781	
9,500.00	7,630.00	7,473.00	7,397.96	41.26	30.27	-84.67	1,273.02	3,678.03	2,319.59	2,253.63	65.96	35.165	
9,600.00	7,630.00	7,473.00	7,397.96	40.96	30.27	-84.67	1,273.02	3,678.03	2,365.85	2,299.31	66.54	35.556	
9,700.00	7,630.00	7,467.09	7,392.14	40.68	30.26	-84.51	1,272.00	3,678.07	2,415.36	2,348.16	67.20	35.944	
9,800.00	7,630.00	7,456.88	7,382.07	40.42	30.24	-84.23	1,270.31	3,678.11	2,467.86	2,399.94	67.92	36.336	
9,900.00	7,630.00	7,447.85	7,373.14	40.17	30.22	-83.99	1,268.90	3,678.13	2,523.17	2,454.50	68.67	36.743	
10,000.00	7,630.00	7,439.78	7,365.17	39.96	30.20	-83.77	1,267.72	3,678.11	2,581.12	2,511.68	69.44	37.168	
10,100.00	7,630.00	7,426.00	7,351.51	40.05	30.18	-83.39	1,265.85	3,678.04	2,641.57	2,571.34	70.23	37.612	
10,200.00	7,630.00	7,426.00	7,351.51	40.95	30.18	-83.39	1,265.85	3,678.04	2,704.29	2,633.29	71.00	38.087	
10,300.00	7,630.00	7,426.00	7,351.51	41.94	30.18	-83.39	1,265.85	3,678.04	2,769.21	2,697.44	71.77	38.586	
10,400.00	7,630.00	7,426.00	7,351.51	42.98	30.18	-83.39	1,265.85	3,678.04	2,836.17	2,763.65	72.52	39.111	
10,500.00	7,630.00	7,426.00	7,351.51	44.06	30.18	-83.39	1,265.85	3,678.04	2,905.02	2,831.78	73.25	39.662	
10,600.00	7,630.00	7,410.16	7,335.79	45.17	30.14	-82.96	1,263.96	3,677.90	2,975.51	2,901.55	73.96	40.231	
10,700.00	7,630.00	7,406.87	7,332.52	46.32	30.13	-82.87	1,263.60	3,677.87	3,047.71	2,973.07	74.64	40.830	
10,800.00	7,630.00	7,403.81	7,329.48	47.50	30.13	-82.79	1,263.28	3,677.84	3,121.44	3,046.14	75.30	41.452	
10,900.00	7,630.00	7,400.95	7,326.63	48.70	30.12	-82.71	1,262.99	3,677.81	3,196.59	3,120.65	75.93	42.096	
11,000.00	7,630.00	7,398.26	7,323.95	49.94	30.11	-82.64	1,262.72	3,677.78	3,273.06	3,196.52	76.54	42.763	
11,100.00	7,630.00	7,395.74	7,321.44	51.20	30.11	-82.57	1,262.48	3,677.75	3,350.76	3,273.64	77.12	43.449	
11,200.00	7,630.00	7,379.00	7,304.77	52.48	30.07	-82.12	1,261.08	3,677.54	3,429.72	3,352.05	77.67	44.155	
11,300.00	7,630.00	7,379.00	7,304.77	53.79	30.07	-82.12	1,261.08	3,677.54	3,509.61	3,431.41	78.20	44.879	
11,400.00	7,630.00	7,379.00	7,304.77	55.12	30.07	-82.12	1,261.08	3,677.54	3,590.51	3,511.80	78.71	45.619	
11,500.00	7,630.00	7,379.00	7,304.77	56.46	30.07	-82.12	1,261.08	3,677.54	3,672.34	3,593.16	79.19	46.376	
11,600.00	7,630.00	7,379.00	7,304.77	57.83	30.07	-82.12	1,261.08	3,677.54	3,755.06	3,675.41	79.65	47.147	
11,700.00	7,630.00	7,379.00	7,304.77	59.22	30.07	-82.12	1,261.08	3,677.54	3,838.60	3,758.52	80.08	47.933	
11,800.00	7,630.00	7,379.00	7,304.77	60.62	30.07	-82.12	1,261.08	3,677.54	3,922.91	3,842.41	80.50	48.731	
11,900.00	7,630.00	7,379.00	7,304.77	62.04	30.07	-82.12	1,261.08	3,677.54	4,007.94	3,927.04	80.90	49.542	
12,000.00	7,630.00	7,379.00	7,304.77	63.48	30.07	-82.12	1,261.08	3,677.54	4,093.65	4,012.37	81.28	50.364	
12,100.00	7,630.00	7,379.00	7,304.77	64.93	30.07	-82.12	1,261.08	3,677.54	4,179.99	4,098.34	81.64	51.197	
12,200.00	7,630.00	7,379.00	7,304.77	66.39	30.07	-82.12	1,261.08	3,677.54	4,266.93	4,184.94	81.99	52.041	
12,300.00	7,630.00	7,379.00	7,304.77	67.86	30.07	-82.12	1,261.08	3,677.54	4,354.43	4,272.10	82.32	52.893	
12,400.00	7,630.00	7,379.00	7,304.77	69.35	30.07	-82.12	1,261.08	3,677.54	4,442.46	4,359.81	82.64	53.755	
12,500.00	7,630.00	7,379.00	7,304.77	70.85	30.07	-82.12	1,261.08	3,677.54	4,530.98	4,448.03	82.95	54.625	
12,600.00	7,630.00	7,379.00	7,304.77	72.36	30.07	-82.12	1,261.08	3,677.54	4,619.97	4,536.73	83.24	55.502	
12,700.00	7,630.00	7,379.00	7,304.77	73.88	30.07	-82.12	1,261.08	3,677.54	4,709.41	4,625.89	83.52	56.387	
12,800.00	7,630.00	7,379.00	7,304.77	75.41	30.07	-82.12	1,261.08	3,677.54	4,799.26	4,715.47	83.79	57.279	
12,900.00	7,630.00	7,379.00	7,304.77	76.95	30.07	-82.12	1,261.08	3,677.54	4,889.50	4,805.46	84.05	58.177	
13,000.00	7,630.00	7,379.00	7,304.77	78.49	30.07	-82.12	1,261.08	3,677.54	4,980.12	4,895.83	84.29	59.081	
13,100.00	7,630.00	7,379.00	7,304.77	80.05	30.07	-82.12	1,261.08	3,677.54	5,071.09	4,986.56	84.53	59.991	
13,200.00	7,630.00	7,379.00	7,304.77	81.61	30.07	-82.12	1,261.08	3,677.54	5,162.40	5,077.64	84.76	60.906	
13,300.00	7,630.00	7,379.00	7,304.77	83.18	30.07	-82.12	1,261.08	3,677.54	5,254.02	5,169.04	84.98	61.826	
13,400.00	7,630.00	7,379.00	7,304.77	84.76	30.07	-82.12	1,261.08	3,677.54	5,345.94	5,260.75	85.19	62.750	
13,500.00	7,630.00	7,379.00	7,304.77	86.34	30.07	-82.12	1,261.08	3,677.54	5,438.15	5,352.75	85.40	63.680	
13,600.00	7,630.00	7,379.00	7,304.77	87.94	30.07	-82.12	1,261.08	3,677.54	5,530.62	5,445.03	85.60	64.613	
13,700.00	7,630.00	7,379.00	7,304.77	89.53	30.07	-82.12	1,261.08	3,677.54	5,623.36	5,537.57	85.79	65.550	
13,800.00	7,630.00	7,379.00	7,304.77	91.13	30.07	-82.12	1,261.08	3,677.54	5,716.34	5,630.37	85.97	66.490	
13,900.00	7,630.00	7,379.00	7,304.77	92.74	30.07	-82.12	1,261.08	3,677.54	5,809.55	5,723.40	86.15	67.434	
14,000.00	7,630.00	7,379.00	7,304.77	94.35	30.07	-82.12	1,261.08	3,677.54	5,902.99	5,816.66	86.32	68.382	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,100.00	7,630.00	7,379.00	7,304.77	95.97	30.07	-82.12	1,261.08	3,677.54	5,996.64	5,910.14	86.49	69.332	
14,200.00	7,630.00	7,379.00	7,304.77	97.60	30.07	-82.12	1,261.08	3,677.54	6,090.48	6,003.83	86.65	70.285	
14,300.00	7,630.00	7,379.00	7,304.77	99.22	30.07	-82.12	1,261.08	3,677.54	6,184.53	6,097.72	86.81	71.241	
14,400.00	7,630.00	7,379.00	7,304.77	100.85	30.07	-82.12	1,261.08	3,677.54	6,278.75	6,191.79	86.96	72.199	
14,500.00	7,630.00	7,379.00	7,304.77	102.49	30.07	-82.12	1,261.08	3,677.54	6,373.16	6,286.04	87.11	73.159	
14,600.00	7,630.00	7,341.87	7,267.71	104.13	29.97	-81.11	1,258.80	3,677.09	6,467.16	6,379.93	87.23	74.135	
14,700.00	7,630.00	7,340.95	7,266.79	105.77	29.97	-81.08	1,258.75	3,677.08	6,561.87	6,474.49	87.37	75.101	
14,800.00	7,630.00	7,340.05	7,265.90	107.42	29.97	-81.06	1,258.71	3,677.07	6,656.73	6,569.22	87.51	76.068	
14,900.00	7,630.00	7,339.18	7,265.03	109.07	29.97	-81.04	1,258.67	3,677.06	6,751.73	6,664.09	87.64	77.037	
15,000.00	7,630.00	7,338.33	7,264.18	110.72	29.96	-81.01	1,258.63	3,677.05	6,846.88	6,759.11	87.77	78.008	
15,100.00	7,630.00	7,337.50	7,263.35	112.38	29.96	-80.99	1,258.59	3,677.04	6,942.16	6,854.27	87.90	78.980	
15,200.00	7,630.00	7,336.69	7,262.54	114.04	29.96	-80.97	1,258.55	3,677.03	7,037.58	6,949.56	88.02	79.954	
15,300.00	7,630.00	7,335.90	7,261.75	115.71	29.96	-80.95	1,258.52	3,677.02	7,133.12	7,044.98	88.14	80.929	
15,400.00	7,630.00	7,335.13	7,260.98	117.37	29.96	-80.93	1,258.48	3,677.01	7,228.78	7,140.52	88.26	81.905	
15,500.00	7,630.00	7,334.38	7,260.23	119.04	29.95	-80.91	1,258.45	3,677.00	7,324.55	7,236.18	88.37	82.883	
15,600.00	7,630.00	7,333.64	7,259.49	120.71	29.95	-80.89	1,258.42	3,676.99	7,420.44	7,331.95	88.48	83.861	
15,700.00	7,630.00	7,332.92	7,258.77	122.39	29.95	-80.87	1,258.39	3,676.99	7,516.43	7,427.84	88.59	84.841	
15,800.00	7,630.00	7,332.22	7,258.07	124.06	29.95	-80.85	1,258.36	3,676.98	7,612.53	7,523.82	88.70	85.821	
15,900.00	7,630.00	7,331.53	7,257.38	125.74	29.95	-80.83	1,258.33	3,676.97	7,708.72	7,619.91	88.81	86.802	
16,000.00	7,630.00	7,330.85	7,256.71	127.42	29.94	-80.81	1,258.30	3,676.96	7,805.01	7,716.10	88.91	87.784	
16,100.00	7,630.00	7,330.19	7,256.05	129.10	29.94	-80.79	1,258.27	3,676.96	7,901.39	7,812.38	89.01	88.766	
16,200.00	7,630.00	7,329.55	7,255.40	130.79	29.94	-80.78	1,258.24	3,676.95	7,997.86	7,908.75	89.11	89.749	
16,300.00	7,630.00	7,328.92	7,254.77	132.48	29.94	-80.76	1,258.22	3,676.94	8,094.42	8,005.21	89.21	90.733	
16,400.00	7,630.00	7,328.30	7,254.16	134.17	29.94	-80.74	1,258.19	3,676.93	8,191.05	8,101.75	89.31	91.717	
16,500.00	7,630.00	7,327.70	7,253.55	135.86	29.94	-80.73	1,258.17	3,676.93	8,287.77	8,198.37	89.40	92.702	
16,600.00	7,630.00	7,327.10	7,252.96	137.55	29.93	-80.71	1,258.15	3,676.92	8,384.57	8,295.07	89.50	93.686	
16,700.00	7,630.00	7,326.52	7,252.38	139.24	29.93	-80.69	1,258.13	3,676.92	8,481.43	8,391.85	89.59	94.672	
16,800.00	7,630.00	7,325.95	7,251.81	140.94	29.93	-80.68	1,258.10	3,676.91	8,578.37	8,488.70	89.68	95.657	
16,900.00	7,630.00	7,325.40	7,251.25	142.64	29.93	-80.66	1,258.08	3,676.90	8,675.38	8,585.61	89.77	96.642	
17,000.00	7,630.00	7,324.85	7,250.71	144.34	29.93	-80.65	1,258.06	3,676.90	8,772.46	8,682.60	89.86	97.628	
17,100.00	7,630.00	7,324.31	7,250.17	146.04	29.93	-80.63	1,258.04	3,676.89	8,869.60	8,779.66	89.94	98.614	
17,200.00	7,630.00	7,323.79	7,249.65	147.74	29.93	-80.62	1,258.02	3,676.89	8,966.80	8,876.77	90.03	99.600	
17,300.00	7,630.00	7,284.00	7,209.87	149.44	29.82	-79.55	1,257.11	3,676.50	9,064.67	8,974.59	90.08	100.631	
17,400.00	7,630.00	7,284.00	7,209.87	151.15	29.82	-79.55	1,257.11	3,676.50	9,161.98	9,071.82	90.16	101.617	
17,500.00	7,630.00	7,284.00	7,209.87	152.86	29.82	-79.55	1,257.11	3,676.50	9,259.34	9,169.10	90.25	102.602	
17,600.00	7,630.00	7,284.00	7,209.87	154.56	29.82	-79.55	1,257.11	3,676.50	9,356.76	9,266.43	90.33	103.587	
17,700.00	7,630.00	7,284.00	7,209.87	156.27	29.82	-79.55	1,257.11	3,676.50	9,454.23	9,363.83	90.41	104.573	
17,800.00	7,630.00	7,284.00	7,209.87	157.98	29.82	-79.55	1,257.11	3,676.50	9,551.76	9,461.27	90.49	105.558	
17,900.00	7,630.00	7,284.00	7,209.87	159.70	29.82	-79.55	1,257.11	3,676.50	9,649.34	9,558.77	90.57	106.542	
18,000.00	7,630.00	7,284.00	7,209.87	161.41	29.82	-79.55	1,257.11	3,676.50	9,746.96	9,656.31	90.65	107.527	
18,100.00	7,630.00	7,284.00	7,209.87	163.12	29.82	-79.55	1,257.11	3,676.50	9,844.63	9,753.91	90.73	108.511	
18,154.00	7,630.00	7,284.00	7,209.87	164.05	29.82	-79.55	1,257.11	3,676.50	9,897.40	9,806.63	90.77	109.042	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	58.54	2,112.39	3,451.86	4,047.10				
100.00	100.00	51.50	51.50	0.13	0.10	58.54	2,112.38	3,451.90	4,046.95	4,046.73	0.23	N/A	
200.00	200.00	125.12	125.12	0.49	0.36	58.54	2,112.29	3,452.44	4,047.52	4,046.66	0.85	4,746.781	
300.00	300.00	221.65	221.64	0.85	0.70	58.55	2,112.41	3,453.42	4,048.45	4,046.89	1.56	2,602.116	
400.00	400.00	309.54	309.53	1.21	1.02	58.55	2,112.87	3,454.28	4,049.56	4,047.34	2.23	1,817.466	
500.00	500.00	447.88	447.86	1.57	1.51	58.55	2,113.50	3,455.10	4,050.28	4,047.20	3.08	1,316.641	
600.00	600.00	532.84	532.82	1.93	1.81	58.54	2,114.26	3,455.19	4,050.83	4,047.09	3.73	1,085.041	
700.00	700.00	663.34	663.30	2.29	2.26	58.51	2,115.81	3,454.66	4,051.09	4,046.54	4.55	891.080	
800.00	800.00	775.30	775.27	2.64	2.65	58.50	2,116.40	3,454.00	4,050.85	4,045.56	5.29	765.574	
900.00	900.00	884.98	884.94	3.00	3.03	58.49	2,116.62	3,453.27	4,050.40	4,044.37	6.03	671.928	
1,000.00	1,000.00	982.77	982.73	3.36	3.36	58.49	2,116.65	3,452.54	4,049.77	4,043.05	6.72	602.402	
1,100.00	1,100.00	1,069.52	1,069.47	3.72	3.66	58.49	2,116.25	3,452.38	4,049.38	4,042.00	7.38	548.647	
1,200.00	1,200.00	2,018.00	2,008.12	4.08	7.21	58.73	2,045.35	3,368.57	4,030.92	4,019.99	10.92	368.990	
1,300.00	1,300.00	2,154.02	2,140.57	4.44	7.81	58.88	2,021.55	3,348.78	4,009.32	3,997.56	11.76	340.891	
1,400.00	1,400.00	2,218.11	2,202.95	4.79	8.10	58.96	2,010.16	3,339.56	3,987.77	3,975.41	12.36	322.550	
1,500.00	1,499.98	2,276.26	2,259.68	5.15	8.37	21.39	2,000.15	3,331.63	3,965.56	3,952.61	12.95	306.260	
1,600.00	1,599.84	2,436.02	2,415.54	5.51	9.11	21.82	1,972.55	3,309.91	3,940.42	3,926.54	13.88	283.927	
1,700.00	1,699.45	2,572.00	2,547.55	5.87	9.77	22.28	1,947.71	3,288.80	3,909.65	3,894.92	14.73	265.433	
1,800.00	1,798.70	2,639.45	2,613.02	6.23	10.10	22.68	1,935.50	3,278.14	3,876.08	3,860.73	15.35	252.530	
1,900.00	1,897.47	2,686.48	2,658.86	6.60	10.33	23.07	1,927.67	3,271.08	3,840.74	3,824.84	15.90	241.572	
2,000.00	1,995.62	2,761.00	2,731.75	6.99	10.69	23.56	1,916.39	3,260.50	3,803.73	3,787.19	16.54	229.969	
2,100.00	2,093.06	2,788.12	2,758.34	7.39	10.82	23.97	1,912.52	3,256.85	3,764.45	3,747.43	17.02	221.124	
2,200.00	2,189.64	2,855.00	2,823.95	7.82	11.13	24.54	1,902.74	3,248.32	3,723.17	3,705.53	17.64	211.028	
2,300.00	2,285.27	2,993.80	2,959.82	8.28	11.79	25.44	1,880.62	3,230.61	3,678.36	3,659.85	18.51	198.730	
2,400.00	2,379.82	3,185.22	3,146.36	8.77	12.74	26.74	1,846.27	3,204.89	3,629.87	3,610.31	19.55	185.644	
2,500.00	2,473.17	3,290.54	3,248.57	9.31	13.29	27.82	1,826.72	3,188.62	3,576.78	3,556.47	20.32	176.045	
2,600.00	2,565.21	2,600.00	3,360.00	9.88	9.67	29.09	1,805.20	3,169.71	3,520.42	3,502.59	17.82	197.541	
2,660.67	2,620.37	3,451.63	3,404.52	10.25	14.14	29.79	1,796.59	3,161.84	3,484.85	3,463.32	21.53	161.828	
2,700.00	2,655.96	3,466.66	3,419.08	10.50	14.22	29.88	1,793.85	3,159.32	3,461.70	3,439.94	21.76	159.084	
2,800.00	2,746.43	3,515.00	3,466.03	11.15	14.47	30.17	1,785.36	3,151.55	3,403.58	3,381.20	22.37	152.141	
2,900.00	2,836.90	2,900.00	3,550.68	11.82	11.26	30.74	1,769.39	3,137.73	3,345.59	3,325.36	20.24	165.321	
3,000.00	2,927.37	3,664.62	3,611.14	12.50	15.26	31.16	1,757.63	3,127.91	3,287.75	3,263.94	23.81	138.107	
3,100.00	3,017.85	3,715.16	3,660.29	13.21	15.52	31.50	1,748.63	3,120.34	3,230.93	3,206.46	24.48	131.999	
3,200.00	3,108.32	3,809.43	3,751.93	13.92	16.01	32.16	1,731.52	3,106.30	3,174.29	3,149.00	25.29	125.515	
3,300.00	3,198.79	3,864.27	3,805.24	14.64	16.30	32.57	1,721.34	3,098.38	3,118.08	3,092.07	26.01	119.883	
3,400.00	3,289.27	3,921.26	3,860.70	15.38	16.59	33.00	1,710.87	3,090.55	3,062.68	3,035.93	26.75	114.486	
3,500.00	3,379.74	3,980.70	3,918.67	16.12	16.90	33.45	1,700.45	3,082.56	3,008.05	2,980.54	27.52	109.318	
3,600.00	3,470.21	4,052.91	3,989.23	16.87	17.26	34.01	1,688.45	3,072.90	2,954.06	2,925.73	28.33	104.275	
3,700.00	3,560.68	4,128.50	4,063.16	17.62	17.64	34.59	1,676.50	3,062.66	2,900.47	2,871.31	29.16	99.454	
3,800.00	3,651.16	3,800.00	4,176.19	18.39	15.97	35.49	1,659.10	3,045.76	2,846.57	2,818.27	28.30	100.584	
3,900.00	3,741.63	4,366.56	4,295.52	19.15	18.85	36.48	1,640.04	3,026.01	2,791.54	2,760.47	31.07	89.841	
4,000.00	3,832.10	4,531.79	4,455.82	19.92	19.74	37.94	1,612.53	2,996.90	2,735.69	2,703.55	32.13	85.138	
4,100.00	3,922.57	4,601.58	4,523.11	20.69	20.12	38.61	1,599.54	2,983.74	2,678.52	2,645.49	33.03	81.102	
4,200.00	4,013.05	4,661.36	4,580.90	21.47	20.46	39.20	1,588.86	2,972.82	2,622.31	2,588.38	33.92	77.300	
4,300.00	4,103.52	4,748.07	4,664.67	22.25	20.94	40.09	1,572.84	2,957.17	2,566.50	2,531.61	34.90	73.548	
4,400.00	4,193.99	4,788.24	4,703.52	23.03	21.16	40.53	1,565.39	2,950.21	2,511.57	2,475.76	35.81	70.140	
4,500.00	4,284.47	4,836.00	4,749.88	23.81	21.42	41.04	1,556.91	2,942.45	2,458.10	2,421.34	36.76	66.874	
4,600.00	4,374.94	5,018.28	4,926.01	24.60	22.43	43.17	1,522.42	2,910.75	2,404.21	2,366.24	37.98	63.310	
4,700.00	4,465.41	5,076.22	4,981.61	25.39	22.77	43.91	1,510.35	2,899.77	2,349.04	2,310.02	39.02	60.202	
4,800.00	4,555.88	5,129.21	5,032.60	26.18	23.07	44.59	1,499.63	2,890.12	2,295.12	2,255.04	40.09	57.255	
4,900.00	4,646.36	5,177.68	5,079.33	26.97	23.35	45.24	1,489.75	2,881.87	2,242.68	2,201.50	41.18	54.464	
5,000.00	4,736.83	5,239.54	5,139.03	27.76	23.70	46.11	1,476.79	2,872.18	2,191.79	2,149.46	42.33	51.777	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	5,322.27	5,218.74	28.55	24.16	47.33	1,458.90	2,859.13	2,141.48	2,097.91	43.57	49.149	
5,200.00	4,917.77	5,374.10	5,268.78	29.35	24.45	48.11	1,447.94	2,851.21	2,092.45	2,047.67	44.78	46.728	
5,300.00	5,008.25	5,451.90	5,344.10	30.15	24.88	49.30	1,432.11	2,839.87	2,044.96	1,998.88	46.08	44.381	
5,400.00	5,098.72	5,536.71	5,426.02	30.94	25.35	50.66	1,414.30	2,827.00	1,997.81	1,950.38	47.43	42.117	
5,500.00	5,189.19	5,606.75	5,493.76	31.74	25.74	51.81	1,400.06	2,816.37	1,951.76	1,902.97	48.80	39.998	
5,600.00	5,279.67	5,673.64	5,558.54	32.54	26.11	52.94	1,386.65	2,806.49	1,907.10	1,856.91	50.19	37.998	
5,700.00	5,370.14	5,750.07	5,632.65	33.34	26.53	54.27	1,371.55	2,795.42	1,863.80	1,812.16	51.64	36.092	
5,800.00	5,460.61	5,846.35	5,726.09	34.14	27.05	55.98	1,353.35	2,781.03	1,821.40	1,768.24	53.16	34.260	
5,900.00	5,551.08	5,924.51	5,801.99	34.94	27.47	57.39	1,339.43	2,768.61	1,779.50	1,724.82	54.68	32.545	
6,000.00	5,641.56	5,994.48	5,870.08	35.75	27.85	58.69	1,327.52	2,757.77	1,739.20	1,682.99	56.21	30.941	
6,100.00	5,732.03	6,065.33	5,938.89	36.55	28.23	60.06	1,314.43	2,747.10	1,700.57	1,642.77	57.80	29.422	
6,200.00	5,822.50	6,117.24	5,989.37	37.35	28.50	61.10	1,304.81	2,739.82	1,664.21	1,604.84	59.37	28.030	
6,300.00	5,912.97	6,171.45	6,042.38	38.16	28.78	62.17	1,295.67	2,733.05	1,630.60	1,569.64	60.95	26.752	
6,400.00	6,003.45	6,226.78	6,096.74	38.96	29.04	63.25	1,287.27	2,727.08	1,599.79	1,537.26	62.52	25.588	
6,500.00	6,093.92	6,295.07	6,164.10	39.77	29.36	64.58	1,278.01	2,720.81	1,571.66	1,507.54	64.12	24.513	
6,600.00	6,184.39	6,384.30	6,252.28	40.57	29.75	66.32	1,266.85	2,712.95	1,545.32	1,479.55	65.77	23.496	
6,700.00	6,274.87	6,472.46	6,339.54	41.38	30.13	68.04	1,257.34	2,704.64	1,519.75	1,452.35	67.40	22.548	
6,800.00	6,365.34	6,538.38	6,404.99	42.18	30.40	69.30	1,251.72	2,699.29	1,496.43	1,427.48	68.95	21.703	
6,900.00	6,455.81	6,609.48	6,475.76	42.99	30.67	70.64	1,246.69	2,694.59	1,475.55	1,405.08	70.47	20.938	
7,000.00	6,546.28	6,696.13	6,562.12	43.80	30.98	72.26	1,241.53	2,689.71	1,456.68	1,384.67	72.01	20.230	
7,100.00	6,636.76	6,783.61	6,649.37	44.61	31.29	73.88	1,237.47	2,684.94	1,439.07	1,365.55	73.51	19.575	
7,200.00	6,727.23	6,867.16	6,732.76	45.41	31.58	75.44	1,234.36	2,680.80	1,423.04	1,348.06	74.98	18.978	
7,300.00	6,817.70	6,950.53	6,816.04	46.22	31.85	76.96	1,232.49	2,677.46	1,408.73	1,332.32	76.41	18.437	
7,383.79	6,893.51	7,021.72	6,887.19	46.90	32.07	78.25	1,231.46	2,675.09	1,398.04	1,320.46	77.58	18.021	
7,400.00	6,908.25	7,036.18	6,901.64	47.03	32.11	75.97	1,231.28	2,674.64	1,395.99	1,318.18	77.80	17.943	
7,450.00	6,954.52	7,081.63	6,947.06	47.40	32.25	67.06	1,230.73	2,673.24	1,388.47	1,310.04	78.43	17.703	
7,500.00	7,001.74	7,123.36	6,988.77	47.72	32.38	54.63	1,230.22	2,671.99	1,379.14	1,300.17	78.97	17.463	
7,550.00	7,049.55	7,162.00	7,027.39	47.99	32.50	38.57	1,229.65	2,671.04	1,368.18	1,288.76	79.42	17.226	
7,600.00	7,097.58	7,201.30	7,066.68	48.21	32.62	20.45	1,228.96	2,670.30	1,355.61	1,275.82	79.79	16.990	
7,650.00	7,145.48	7,243.30	7,108.68	48.37	32.74	3.16	1,228.32	2,669.80	1,341.40	1,261.34	80.07	16.754	
7,700.00	7,192.88	7,285.05	7,150.42	48.48	32.86	-11.35	1,227.90	2,669.61	1,325.59	1,245.33	80.26	16.516	
7,750.00	7,239.41	7,338.75	7,204.12	48.54	33.01	-23.00	1,227.74	2,669.56	1,308.10	1,227.71	80.39	16.271	
7,800.00	7,284.72	7,395.93	7,261.29	48.56	33.16	-32.57	1,228.11	2,669.32	1,288.80	1,208.36	80.44	16.022	
7,850.00	7,328.47	7,467.21	7,332.42	48.54	33.32	-41.22	1,232.52	2,669.60	1,267.50	1,187.16	80.34	15.777	
7,900.00	7,370.32	7,822.09	7,658.47	48.47	33.54	-61.60	1,360.95	2,665.78	1,238.09	1,161.67	76.42	16.201	
7,950.00	7,409.96	7,839.67	7,672.48	48.37	33.53	-69.09	1,371.56	2,665.36	1,208.95	1,132.89	76.06	15.894	
8,000.00	7,447.08	7,850.09	7,680.64	48.24	33.52	-75.25	1,378.04	2,665.19	1,181.37	1,105.69	75.68	15.611	
8,050.00	7,481.41	7,854.74	7,684.25	48.07	33.52	-80.24	1,380.97	2,665.14	1,155.80	1,080.57	75.23	15.364	
8,100.00	7,512.67	7,854.75	7,684.26	47.87	33.52	-84.21	1,380.98	2,665.14	1,132.64	1,057.94	74.70	15.162	
8,150.00	7,540.64	7,851.03	7,681.37	47.65	33.52	-87.29	1,378.63	2,665.18	1,112.23	1,038.15	74.08	15.015	
8,200.00	7,565.09	7,844.29	7,676.11	47.40	33.52	-89.59	1,374.42	2,665.28	1,094.84	1,021.49	73.35	14.926	
8,250.00	7,585.85	7,835.10	7,668.87	47.14	33.53	-91.20	1,368.76	2,665.46	1,080.68	1,008.15	72.53	14.900	SF
8,300.00	7,602.75	7,823.91	7,659.94	46.86	33.54	-92.19	1,362.03	2,665.73	1,069.90	998.28	71.62	14.939	
8,350.00	7,615.67	7,811.14	7,649.60	46.58	33.55	-92.62	1,354.54	2,666.12	1,062.59	991.94	70.65	15.041	
8,400.00	7,624.51	7,790.87	7,632.92	46.28	33.56	-92.25	1,343.05	2,666.83	1,058.70	988.97	69.73	15.182	
8,434.00	7,628.15	7,776.40	7,620.82	46.08	33.56	-91.72	1,335.13	2,667.35	1,057.95	988.85	69.10	15.310	CC, ES
8,450.00	7,629.19	7,770.80	7,616.10	45.98	33.56	-91.47	1,332.12	2,667.55	1,058.11	989.33	68.78	15.384	
8,481.00	7,630.00	7,753.56	7,601.42	45.79	33.57	-90.56	1,323.10	2,668.20	1,059.34	991.10	68.25	15.522	
8,500.00	7,630.00	7,743.16	7,592.48	45.68	33.57	-90.08	1,317.82	2,668.58	1,060.57	992.65	67.92	15.615	
8,600.00	7,630.00	7,692.21	7,547.63	45.11	33.56	-87.66	1,293.70	2,670.15	1,071.15	1,004.93	66.22	16.176	
8,700.00	7,630.00	7,649.90	7,509.14	44.56	33.55	-85.59	1,276.17	2,670.95	1,088.90	1,024.25	64.65	16.843	
8,800.00	7,630.00	7,622.00	7,483.15	44.05	33.53	-84.19	1,266.05	2,671.15	1,114.09	1,050.77	63.32	17.594	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	7,598.47	7,460.86	43.57	33.51	-83.01	1,258.50	2,671.18	1,146.71	1,084.32	62.39	18.380	
9,000.00	7,630.00	7,575.00	7,438.33	43.12	33.49	-81.81	1,251.94	2,671.13	1,186.48	1,124.60	61.88	19.175	
9,100.00	7,630.00	7,567.61	7,431.18	42.70	33.48	-81.43	1,250.08	2,671.10	1,232.68	1,170.96	61.72	19.974	
9,200.00	7,630.00	7,554.40	7,418.34	42.31	33.46	-80.75	1,246.95	2,671.00	1,284.78	1,222.90	61.88	20.763	
9,300.00	7,630.00	7,543.23	7,407.44	41.94	33.45	-80.18	1,244.52	2,670.89	1,342.11	1,279.84	62.27	21.552	
9,400.00	7,630.00	7,528.00	7,392.51	41.59	33.43	-79.40	1,241.52	2,670.67	1,404.10	1,341.27	62.83	22.348	
9,500.00	7,630.00	7,528.00	7,392.51	41.26	33.43	-79.40	1,241.52	2,670.67	1,470.13	1,406.63	63.50	23.152	
9,600.00	7,630.00	7,528.00	7,392.51	40.96	33.43	-79.40	1,241.52	2,670.67	1,539.82	1,475.59	64.23	23.974	
9,700.00	7,630.00	7,509.97	7,374.75	40.68	33.40	-78.47	1,238.39	2,670.37	1,612.47	1,547.50	64.97	24.819	
9,800.00	7,630.00	7,503.45	7,368.33	40.42	33.39	-78.13	1,237.35	2,670.25	1,687.92	1,622.21	65.72	25.685	
9,900.00	7,630.00	7,497.53	7,362.48	40.17	33.38	-77.83	1,236.45	2,670.14	1,765.77	1,699.32	66.45	26.572	
10,000.00	7,630.00	7,481.00	7,346.11	39.96	33.35	-76.98	1,234.16	2,669.83	1,845.79	1,778.64	67.15	27.487	
10,100.00	7,630.00	7,481.00	7,346.11	40.05	33.35	-76.98	1,234.16	2,669.83	1,927.50	1,859.67	67.83	28.416	
10,200.00	7,630.00	7,481.00	7,346.11	40.95	33.35	-76.98	1,234.16	2,669.83	2,010.86	1,942.38	68.48	29.365	
10,300.00	7,630.00	7,481.00	7,346.11	41.94	33.35	-76.98	1,234.16	2,669.83	2,095.67	2,026.59	69.09	30.333	
10,400.00	7,630.00	7,481.00	7,346.11	42.98	33.35	-76.98	1,234.16	2,669.83	2,181.78	2,112.12	69.66	31.319	
10,500.00	7,630.00	7,481.00	7,346.11	44.06	33.35	-76.98	1,234.16	2,669.83	2,269.02	2,198.82	70.20	32.322	
10,600.00	7,630.00	7,481.00	7,346.11	45.17	33.35	-76.98	1,234.16	2,669.83	2,357.28	2,286.57	70.70	33.340	
10,700.00	7,630.00	7,481.00	7,346.11	46.32	33.35	-76.98	1,234.16	2,669.83	2,446.44	2,375.26	71.18	34.371	
10,800.00	7,630.00	7,481.00	7,346.11	47.50	33.35	-76.98	1,234.16	2,669.83	2,536.41	2,464.79	71.62	35.415	
10,900.00	7,630.00	7,481.00	7,346.11	48.70	33.35	-76.98	1,234.16	2,669.83	2,627.10	2,555.06	72.04	36.469	
11,000.00	7,630.00	7,461.07	7,326.31	49.94	33.31	-75.97	1,231.87	2,669.51	2,718.09	2,645.67	72.42	37.533	
11,100.00	7,630.00	7,459.08	7,324.33	51.20	33.30	-75.87	1,231.67	2,669.49	2,809.95	2,737.16	72.79	38.606	
11,200.00	7,630.00	7,457.20	7,322.46	52.48	33.30	-75.77	1,231.49	2,669.47	2,902.34	2,829.21	73.13	39.687	
11,300.00	7,630.00	7,455.42	7,320.69	53.79	33.30	-75.68	1,231.33	2,669.45	2,995.22	2,921.77	73.46	40.776	
11,400.00	7,630.00	7,453.74	7,319.01	55.12	33.29	-75.60	1,231.17	2,669.43	3,088.54	3,014.78	73.76	41.872	
11,500.00	7,630.00	7,452.14	7,317.42	56.46	33.29	-75.52	1,231.03	2,669.41	3,182.26	3,108.21	74.05	42.974	
11,600.00	7,630.00	7,433.00	7,298.33	57.83	33.25	-74.55	1,229.60	2,669.30	3,276.62	3,202.30	74.32	44.088	
11,700.00	7,630.00	7,433.00	7,298.33	59.22	33.25	-74.55	1,229.60	2,669.30	3,370.99	3,296.41	74.58	45.200	
11,800.00	7,630.00	7,433.00	7,298.33	60.62	33.25	-74.55	1,229.60	2,669.30	3,465.69	3,390.86	74.83	46.317	
11,900.00	7,630.00	7,433.00	7,298.33	62.04	33.25	-74.55	1,229.60	2,669.30	3,560.67	3,485.61	75.06	47.438	
12,000.00	7,630.00	7,433.00	7,298.33	63.48	33.25	-74.55	1,229.60	2,669.30	3,655.92	3,580.64	75.28	48.563	
12,100.00	7,630.00	7,433.00	7,298.33	64.93	33.25	-74.55	1,229.60	2,669.30	3,751.42	3,675.93	75.49	49.692	
12,200.00	7,630.00	7,433.00	7,298.33	66.39	33.25	-74.55	1,229.60	2,669.30	3,847.15	3,771.45	75.69	50.825	
12,300.00	7,630.00	7,433.00	7,298.33	67.86	33.25	-74.55	1,229.60	2,669.30	3,943.09	3,867.20	75.89	51.960	
12,400.00	7,630.00	7,433.00	7,298.33	69.35	33.25	-74.55	1,229.60	2,669.30	4,039.22	3,963.15	76.07	53.098	
12,500.00	7,630.00	7,433.00	7,298.33	70.85	33.25	-74.55	1,229.60	2,669.30	4,135.54	4,059.30	76.25	54.239	
12,600.00	7,630.00	7,433.00	7,298.33	72.36	33.25	-74.55	1,229.60	2,669.30	4,232.03	4,155.62	76.42	55.382	
12,700.00	7,630.00	7,433.00	7,298.33	73.88	33.25	-74.55	1,229.60	2,669.30	4,328.68	4,252.11	76.58	56.527	
12,800.00	7,630.00	7,433.00	7,298.33	75.41	33.25	-74.55	1,229.60	2,669.30	4,425.48	4,348.75	76.73	57.674	
12,900.00	7,630.00	7,433.00	7,298.33	76.95	33.25	-74.55	1,229.60	2,669.30	4,522.42	4,445.54	76.88	58.823	
13,000.00	7,630.00	7,433.00	7,298.33	78.49	33.25	-74.55	1,229.60	2,669.30	4,619.49	4,542.46	77.03	59.973	
13,100.00	7,630.00	7,433.00	7,298.33	80.05	33.25	-74.55	1,229.60	2,669.30	4,716.68	4,639.51	77.17	61.124	
13,200.00	7,630.00	7,433.00	7,298.33	81.61	33.25	-74.55	1,229.60	2,669.30	4,813.98	4,736.68	77.30	62.276	
13,300.00	7,630.00	7,433.00	7,298.33	83.18	33.25	-74.55	1,229.60	2,669.30	4,911.40	4,833.97	77.43	63.430	
13,400.00	7,630.00	7,433.00	7,298.33	84.76	33.25	-74.55	1,229.60	2,669.30	5,008.91	4,931.36	77.56	64.584	
13,500.00	7,630.00	7,433.00	7,298.33	86.34	33.25	-74.55	1,229.60	2,669.30	5,106.53	5,028.85	77.68	65.740	
13,600.00	7,630.00	7,433.00	7,298.33	87.94	33.25	-74.55	1,229.60	2,669.30	5,204.23	5,126.43	77.80	66.896	
13,700.00	7,630.00	7,433.00	7,298.33	89.53	33.25	-74.55	1,229.60	2,669.30	5,302.02	5,224.11	77.91	68.052	
13,800.00	7,630.00	7,433.00	7,298.33	91.13	33.25	-74.55	1,229.60	2,669.30	5,399.89	5,321.86	78.02	69.209	
13,900.00	7,630.00	7,433.00	7,298.33	92.74	33.25	-74.55	1,229.60	2,669.30	5,497.83	5,419.70	78.13	70.366	
14,000.00	7,630.00	7,433.00	7,298.33	94.35	33.25	-74.55	1,229.60	2,669.30	5,595.85	5,517.61	78.24	71.524	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,100.00	7,630.00	7,433.00	7,298.33	95.97	33.25	-74.55	1,229.60	2,669.30	5,693.94	5,615.60	78.34	72.681	
14,200.00	7,630.00	7,433.00	7,298.33	97.60	33.25	-74.55	1,229.60	2,669.30	5,792.09	5,713.65	78.44	73.839	
14,300.00	7,630.00	7,433.00	7,298.33	99.22	33.25	-74.55	1,229.60	2,669.30	5,890.31	5,811.77	78.54	74.997	
14,400.00	7,630.00	7,433.00	7,298.33	100.85	33.25	-74.55	1,229.60	2,669.30	5,988.58	5,909.95	78.64	76.155	
14,500.00	7,630.00	7,433.00	7,298.33	102.49	33.25	-74.55	1,229.60	2,669.30	6,086.91	6,008.18	78.73	77.313	
14,600.00	7,630.00	7,433.00	7,298.33	104.13	33.25	-74.55	1,229.60	2,669.30	6,185.30	6,106.47	78.82	78.470	
14,700.00	7,630.00	7,433.00	7,298.33	105.77	33.25	-74.55	1,229.60	2,669.30	6,283.73	6,204.82	78.91	79.627	
14,800.00	7,630.00	7,433.00	7,298.33	107.42	33.25	-74.55	1,229.60	2,669.30	6,382.22	6,303.21	79.00	80.784	
14,900.00	7,630.00	7,433.00	7,298.33	109.07	33.25	-74.55	1,229.60	2,669.30	6,480.75	6,401.66	79.09	81.941	
15,000.00	7,630.00	7,433.00	7,298.33	110.72	33.25	-74.55	1,229.60	2,669.30	6,579.32	6,500.14	79.18	83.097	
15,100.00	7,630.00	7,433.00	7,298.33	112.38	33.25	-74.55	1,229.60	2,669.30	6,677.94	6,598.68	79.26	84.252	
15,200.00	7,630.00	7,433.00	7,298.33	114.04	33.25	-74.55	1,229.60	2,669.30	6,776.60	6,697.25	79.34	85.408	
15,300.00	7,630.00	7,433.00	7,298.33	115.71	33.25	-74.55	1,229.60	2,669.30	6,875.29	6,795.87	79.43	86.562	
15,400.00	7,630.00	7,433.00	7,298.33	117.37	33.25	-74.55	1,229.60	2,669.30	6,974.02	6,894.52	79.51	87.716	
15,500.00	7,630.00	7,433.00	7,298.33	119.04	33.25	-74.55	1,229.60	2,669.30	7,072.79	6,993.21	79.59	88.869	
15,600.00	7,630.00	7,433.00	7,298.33	120.71	33.25	-74.55	1,229.60	2,669.30	7,171.60	7,091.93	79.67	90.022	
15,700.00	7,630.00	7,433.00	7,298.33	122.39	33.25	-74.55	1,229.60	2,669.30	7,270.43	7,190.69	79.74	91.173	
15,800.00	7,630.00	7,433.00	7,298.33	124.06	33.25	-74.55	1,229.60	2,669.30	7,369.30	7,289.48	79.82	92.324	
15,900.00	7,630.00	7,433.00	7,298.33	125.74	33.25	-74.55	1,229.60	2,669.30	7,468.20	7,388.30	79.90	93.474	
16,000.00	7,630.00	7,433.00	7,298.33	127.42	33.25	-74.55	1,229.60	2,669.30	7,567.12	7,487.15	79.97	94.623	
16,100.00	7,630.00	7,433.00	7,298.33	129.10	33.25	-74.55	1,229.60	2,669.30	7,666.08	7,586.03	80.05	95.772	
16,200.00	7,630.00	7,433.00	7,298.33	130.79	33.25	-74.55	1,229.60	2,669.30	7,765.06	7,684.94	80.12	96.919	
16,300.00	7,630.00	7,433.00	7,298.33	132.48	33.25	-74.55	1,229.60	2,669.30	7,864.07	7,783.87	80.19	98.065	
16,400.00	7,630.00	7,433.00	7,298.33	134.17	33.25	-74.55	1,229.60	2,669.30	7,963.10	7,882.83	80.26	99.211	
16,500.00	7,630.00	7,433.00	7,298.33	135.86	33.25	-74.55	1,229.60	2,669.30	8,062.15	7,981.82	80.34	100.355	
16,600.00	7,630.00	7,433.00	7,298.33	137.55	33.25	-74.55	1,229.60	2,669.30	8,161.23	8,080.82	80.41	101.498	
16,700.00	7,630.00	7,433.00	7,298.33	139.24	33.25	-74.55	1,229.60	2,669.30	8,260.33	8,179.85	80.48	102.640	
16,800.00	7,630.00	7,433.00	7,298.33	140.94	33.25	-74.55	1,229.60	2,669.30	8,359.45	8,278.91	80.55	103.781	
16,900.00	7,630.00	7,411.97	7,277.33	142.64	33.20	-73.50	1,228.57	2,669.28	8,458.32	8,377.71	80.62	104.922	
17,000.00	7,630.00	7,411.62	7,276.98	144.34	33.20	-73.48	1,228.56	2,669.28	8,557.48	8,476.79	80.68	106.061	
17,100.00	7,630.00	7,411.27	7,276.63	146.04	33.20	-73.46	1,228.54	2,669.28	8,656.65	8,575.90	80.75	107.198	
17,200.00	7,630.00	7,410.93	7,276.29	147.74	33.20	-73.45	1,228.53	2,669.28	8,755.84	8,675.02	80.82	108.334	
17,300.00	7,630.00	7,410.60	7,275.96	149.44	33.20	-73.43	1,228.52	2,669.28	8,855.05	8,774.16	80.89	109.469	
17,400.00	7,630.00	7,410.28	7,275.64	151.15	33.20	-73.42	1,228.51	2,669.28	8,954.28	8,873.32	80.96	110.602	
17,500.00	7,630.00	7,409.96	7,275.32	152.86	33.20	-73.40	1,228.50	2,669.28	9,053.52	8,972.50	81.03	111.734	
17,600.00	7,630.00	7,409.64	7,275.00	154.56	33.19	-73.38	1,228.49	2,669.28	9,152.78	9,071.69	81.09	112.865	
17,700.00	7,630.00	7,409.34	7,274.70	156.27	33.19	-73.37	1,228.48	2,669.28	9,252.06	9,170.90	81.16	113.994	
17,800.00	7,630.00	7,409.04	7,274.40	157.98	33.19	-73.35	1,228.47	2,669.28	9,351.35	9,270.12	81.23	115.122	
17,900.00	7,630.00	7,408.74	7,274.10	159.70	33.19	-73.34	1,228.46	2,669.29	9,450.66	9,369.36	81.30	116.249	
18,000.00	7,630.00	7,408.45	7,273.81	161.41	33.19	-73.32	1,228.45	2,669.29	9,549.98	9,468.61	81.36	117.374	
18,100.00	7,630.00	7,408.17	7,273.53	163.12	33.19	-73.31	1,228.44	2,669.29	9,649.31	9,567.88	81.43	118.498	
18,154.00	7,630.00	7,408.01	7,273.38	164.05	33.19	-73.30	1,228.43	2,669.29	9,702.96	9,621.50	81.47	119.104	

Anticollision Report

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

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	58.76	2,112.39	3,482.38	4,073.16				
100.00	100.00	50.47	50.47	0.13	0.09	58.76	2,112.39	3,482.41	4,073.02	4,072.80	0.23	N/A	
200.00	200.00	125.00	125.00	0.49	0.36	58.76	2,112.45	3,482.93	4,073.64	4,072.79	0.85	4,780.301	
300.00	300.00	193.48	193.47	0.85	0.60	58.77	2,112.73	3,483.83	4,074.96	4,073.50	1.46	2,797.693	
400.00	400.00	287.61	287.59	1.21	0.94	58.77	2,113.56	3,485.37	4,076.80	4,074.65	2.15	1,894.650	
500.00	500.00	442.32	442.28	1.57	1.49	58.77	2,114.27	3,487.16	4,078.09	4,075.02	3.06	1,332.161	
600.00	600.00	567.85	567.81	1.93	1.92	58.77	2,114.08	3,487.32	4,078.08	4,074.23	3.85	1,059.273	
700.00	700.00	679.66	679.62	2.29	2.30	58.77	2,114.32	3,486.88	4,077.87	4,073.29	4.59	889.114	
800.00	800.00	804.30	804.25	2.64	2.73	58.76	2,114.32	3,485.74	4,077.08	4,071.71	5.37	759.257	
900.00	900.00	883.26	883.21	3.00	3.00	58.76	2,114.18	3,484.98	4,076.19	4,070.19	6.00	679.238	
1,000.00	1,000.00	978.87	978.82	3.36	3.33	58.75	2,114.51	3,484.45	4,075.89	4,069.19	6.69	609.016	
1,100.00	1,100.00	1,114.82	1,114.76	3.72	3.81	58.73	2,114.94	3,482.81	4,075.02	4,067.50	7.53	541.491	
1,200.00	1,200.00	1,866.12	1,861.59	4.08	6.54	58.87	2,073.45	3,433.34	4,071.59	4,061.16	10.43	390.362	
1,300.00	1,300.00	1,975.32	1,968.58	4.44	6.98	59.02	2,054.76	3,422.17	4,053.89	4,042.71	11.18	362.760	
1,400.00	1,400.00	1,400.00	2,075.78	4.79	4.78	59.21	2,033.38	3,412.73	4,036.37	4,027.06	9.31	433.638	
1,500.00	1,499.98	2,181.10	2,169.40	5.15	7.85	21.75	2,013.42	3,404.70	4,016.82	4,004.17	12.65	317.591	
1,600.00	1,599.84	2,281.60	2,267.42	5.51	8.30	22.15	1,992.76	3,396.59	3,994.52	3,981.14	13.39	298.380	
1,700.00	1,699.45	2,358.41	2,342.32	5.87	8.64	22.55	1,976.90	3,390.44	3,969.15	3,955.10	14.05	282.570	
1,800.00	1,798.70	2,422.89	2,405.34	6.23	8.93	22.94	1,964.29	3,385.30	3,941.33	3,926.67	14.66	268.810	
1,900.00	1,897.47	2,482.15	2,463.40	6.60	9.19	23.36	1,953.24	3,380.85	3,911.32	3,896.06	15.26	256.324	
2,000.00	1,995.62	2,541.09	2,521.24	6.99	9.46	23.81	1,942.75	3,376.72	3,879.16	3,863.30	15.86	244.652	
2,100.00	2,093.06	2,598.68	2,577.88	7.39	9.71	24.29	1,932.99	3,372.96	3,844.89	3,828.44	16.45	233.751	
2,200.00	2,189.64	2,654.77	2,633.15	7.82	9.96	24.81	1,924.06	3,369.56	3,808.57	3,791.53	17.04	223.525	
2,300.00	2,285.27	2,710.55	2,688.21	8.28	10.20	25.37	1,915.76	3,366.42	3,770.24	3,752.61	17.63	213.823	
2,400.00	2,379.82	2,779.79	2,756.70	8.77	10.49	26.03	1,906.24	3,362.81	3,729.93	3,711.65	18.28	204.042	
2,500.00	2,473.17	2,960.10	2,935.02	9.31	11.27	27.22	1,882.71	3,350.11	3,685.75	3,666.44	19.32	190.821	
2,600.00	2,565.21	3,047.11	3,020.84	9.88	11.65	28.15	1,870.11	3,343.44	3,637.97	3,617.93	20.04	181.535	
2,660.67	2,620.37	3,081.00	3,054.27	10.25	11.80	28.66	1,865.02	3,341.05	3,607.87	3,587.44	20.43	176.639	
2,700.00	2,655.96	3,104.78	3,077.72	10.50	11.90	28.79	1,861.47	3,339.43	3,588.17	3,567.49	20.68	173.495	
2,800.00	2,746.43	3,158.48	3,130.74	11.15	12.14	29.10	1,853.63	3,335.96	3,538.63	3,517.31	21.32	166.008	
2,900.00	2,836.90	3,207.93	3,179.65	11.82	12.35	29.37	1,847.01	3,332.99	3,490.06	3,468.11	21.95	158.995	
3,000.00	2,927.37	3,448.96	3,417.61	12.50	13.41	30.73	1,814.72	3,312.70	3,439.31	3,416.09	23.21	148.173	
3,100.00	3,017.85	3,510.70	3,478.46	13.21	13.69	31.09	1,806.48	3,306.39	3,387.99	3,364.08	23.91	141.685	
3,200.00	3,108.32	3,641.57	3,607.32	13.92	14.28	31.87	1,788.48	3,292.30	3,336.22	3,311.39	24.83	134.355	
3,300.00	3,198.79	3,747.00	3,710.98	14.64	14.77	32.54	1,773.36	3,280.45	3,284.25	3,258.56	25.69	127.847	
3,400.00	3,289.27	3,842.85	3,804.91	15.38	15.22	33.19	1,757.67	3,269.55	3,231.60	3,205.06	26.54	121.761	
3,500.00	3,379.74	3,904.63	3,865.38	16.12	15.52	33.65	1,746.95	3,262.89	3,179.38	3,152.07	27.31	116.399	
3,600.00	3,470.21	3,951.40	3,911.25	16.87	15.74	33.99	1,739.00	3,258.25	3,128.18	3,100.12	28.06	111.473	
3,700.00	3,560.68	4,013.14	3,971.87	17.62	16.03	34.46	1,728.79	3,252.69	3,078.07	3,049.20	28.87	106.616	
3,800.00	3,651.16	4,075.00	4,032.56	18.39	16.32	34.95	1,718.01	3,247.41	3,028.45	2,998.75	29.70	101.975	
3,900.00	3,741.63	4,127.96	4,084.54	19.15	16.57	35.39	1,708.69	3,243.38	2,979.84	2,949.32	30.52	97.644	
4,000.00	3,832.10	4,176.08	4,131.87	19.92	16.80	35.79	1,700.56	3,240.36	2,932.68	2,901.35	31.34	93.583	
4,100.00	3,922.57	4,411.60	4,363.23	20.69	17.90	37.78	1,662.00	3,219.44	2,884.06	2,851.36	32.70	88.206	
4,200.00	4,013.05	4,490.38	4,440.20	21.47	18.29	38.49	1,647.73	3,210.62	2,833.62	2,799.97	33.64	84.226	
4,300.00	4,103.52	4,558.60	4,506.96	22.25	18.62	39.13	1,635.80	3,203.20	2,783.98	2,749.40	34.58	80.504	
4,400.00	4,193.99	4,657.56	4,603.55	23.03	19.12	40.10	1,617.22	3,192.39	2,734.38	2,698.75	35.63	76.751	
4,500.00	4,284.47	4,711.89	4,656.61	23.81	19.39	40.65	1,607.04	3,186.64	2,685.55	2,648.97	36.58	73.418	
4,600.00	4,374.94	4,793.83	4,736.85	24.60	19.79	41.48	1,592.81	3,178.12	2,637.71	2,600.10	37.61	70.126	
4,700.00	4,465.41	4,888.22	4,829.29	25.39	20.25	42.45	1,576.93	3,167.60	2,589.91	2,551.21	38.70	66.926	
4,800.00	4,555.88	4,967.30	4,906.46	26.18	20.65	43.33	1,561.86	3,159.06	2,542.41	2,502.63	39.78	63.905	
4,900.00	4,646.36	5,036.83	4,974.26	26.97	21.00	44.13	1,548.28	3,151.80	2,495.69	2,454.82	40.88	61.053	
5,000.00	4,736.83	5,099.79	5,035.69	27.76	21.31	44.88	1,535.98	3,145.59	2,450.07	2,408.09	41.98	58.364	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	5,165.09	5,099.48	28.55	21.64	45.68	1,523.38	3,139.52	2,405.62	2,362.51	43.11	55.800	
5,200.00	4,917.77	5,229.18	5,162.18	29.35	21.96	46.47	1,511.38	3,133.87	2,362.36	2,318.10	44.26	53.372	
5,300.00	5,008.25	5,289.75	5,221.51	30.15	22.25	47.23	1,500.19	3,128.97	2,320.48	2,275.06	45.43	51.083	
5,400.00	5,098.72	5,350.47	5,281.03	30.94	22.54	48.01	1,489.01	3,124.58	2,280.08	2,233.46	46.61	48.915	
5,500.00	5,189.19	5,426.17	5,355.25	31.74	22.91	49.02	1,474.95	3,119.74	2,241.14	2,193.27	47.88	46.812	
5,600.00	5,279.67	5,515.34	5,442.61	32.54	23.34	50.23	1,458.24	3,113.50	2,202.58	2,153.37	49.21	44.759	
5,700.00	5,370.14	5,573.91	5,500.06	33.34	23.62	51.04	1,447.46	3,109.73	2,165.47	2,115.01	50.47	42.909	
5,800.00	5,460.61	5,655.77	5,580.47	34.14	24.01	52.20	1,432.88	3,104.88	2,129.81	2,077.99	51.82	41.102	
5,900.00	5,551.08	5,742.31	5,665.57	34.94	24.42	53.43	1,418.08	3,099.52	2,094.96	2,041.75	53.21	39.375	
6,000.00	5,641.56	5,899.34	5,819.79	35.75	25.17	55.74	1,391.40	3,086.88	2,059.71	2,004.88	54.83	37.565	
6,100.00	5,732.03	5,984.84	5,903.45	36.55	25.59	57.07	1,376.20	3,078.04	2,023.58	1,967.30	56.28	35.959	
6,200.00	5,822.50	6,042.86	5,960.34	37.35	25.86	57.98	1,366.29	3,072.43	1,989.18	1,931.52	57.66	34.499	
6,300.00	5,912.97	6,102.14	6,018.63	38.16	26.15	58.91	1,356.75	3,067.37	1,956.87	1,897.81	59.06	33.136	
6,400.00	6,003.45	6,176.78	6,092.21	38.96	26.50	60.08	1,345.51	3,061.81	1,926.59	1,866.09	60.51	31.841	
6,500.00	6,093.92	6,275.98	6,189.97	39.77	26.96	61.68	1,330.81	3,053.59	1,896.82	1,834.77	62.04	30.572	
6,600.00	6,184.39	6,345.06	6,257.97	40.57	27.28	62.83	1,320.05	3,047.91	1,868.50	1,804.99	63.51	29.419	
6,700.00	6,274.87	6,407.00	6,319.03	41.38	27.56	63.86	1,310.67	3,043.42	1,842.29	1,777.33	64.96	28.360	
6,800.00	6,365.34	6,471.07	6,382.36	42.18	27.84	64.93	1,301.75	3,039.59	1,818.35	1,751.95	66.40	27.385	
6,900.00	6,455.81	6,537.40	6,448.06	42.99	28.13	66.03	1,293.20	3,036.41	1,796.63	1,728.79	67.83	26.486	
7,000.00	6,546.28	6,608.47	6,518.60	43.80	28.42	67.19	1,284.94	3,033.81	1,776.99	1,707.73	69.26	25.657	
7,100.00	6,636.76	6,677.24	6,586.98	44.61	28.69	68.30	1,277.83	3,032.09	1,759.41	1,688.76	70.65	24.904	
7,200.00	6,727.23	6,752.70	6,662.10	45.41	28.98	69.50	1,270.79	3,031.13	1,743.93	1,671.89	72.04	24.208	
7,300.00	6,817.70	6,864.44	6,773.51	46.22	29.38	71.24	1,262.41	3,030.17	1,729.74	1,656.20	73.54	23.521	
7,383.79	6,893.51	6,955.56	6,864.54	46.90	29.69	72.62	1,258.44	3,028.42	1,717.19	1,642.45	74.74	22.976	
7,400.00	6,908.25	6,969.31	6,878.27	47.03	29.74	70.24	1,258.05	3,028.21	1,714.75	1,639.80	74.95	22.879	
7,450.00	6,954.52	7,014.13	6,923.08	47.40	29.89	61.04	1,257.09	3,027.66	1,706.32	1,630.76	75.56	22.583	
7,500.00	7,001.74	7,063.33	6,972.27	47.72	30.04	48.44	1,256.31	3,027.12	1,696.35	1,620.25	76.09	22.293	
7,550.00	7,049.55	7,113.95	7,022.88	47.99	30.20	32.24	1,255.71	3,026.56	1,684.78	1,608.24	76.54	22.011	
7,600.00	7,097.58	7,166.09	7,075.02	48.21	30.35	13.93	1,255.54	3,026.02	1,671.58	1,594.69	76.90	21.737	
7,650.00	7,145.48	7,380.09	7,286.04	48.37	30.79	-4.70	1,284.81	3,023.81	1,654.95	1,578.20	76.75	21.562	
7,700.00	7,192.88	7,455.40	7,356.68	48.48	30.85	-21.03	1,310.83	3,023.89	1,633.89	1,557.37	76.52	21.353	
7,750.00	7,239.41	7,724.83	7,579.90	48.54	30.83	-40.84	1,458.56	3,022.22	1,608.43	1,534.75	73.68	21.829	
7,800.00	7,284.72	7,740.99	7,591.03	48.56	30.82	-51.57	1,470.27	3,022.19	1,582.26	1,508.61	73.65	21.483	
7,850.00	7,328.47	7,752.23	7,598.58	48.54	30.81	-60.13	1,478.61	3,022.27	1,557.05	1,483.49	73.56	21.167	
7,900.00	7,370.32	7,763.26	7,605.83	48.47	30.80	-67.19	1,486.92	3,022.43	1,533.15	1,459.81	73.34	20.904	
7,950.00	7,409.96	7,770.09	7,610.25	48.37	30.80	-72.90	1,492.12	3,022.53	1,510.87	1,437.82	73.05	20.684	
8,000.00	7,447.08	7,769.84	7,610.09	48.24	30.80	-77.39	1,491.92	3,022.53	1,490.51	1,417.79	72.72	20.496	
8,050.00	7,481.41	7,764.19	7,606.43	48.07	30.80	-80.87	1,487.62	3,022.44	1,472.31	1,399.97	72.35	20.351	
8,100.00	7,512.67	7,756.00	7,601.07	47.87	30.81	-83.58	1,481.43	3,022.32	1,456.46	1,384.57	71.89	20.261 SF	
8,150.00	7,540.64	7,756.00	7,601.07	47.65	30.81	-86.05	1,481.43	3,022.32	1,443.14	1,371.93	71.21	20.267	
8,200.00	7,565.09	7,739.95	7,590.33	47.40	30.82	-87.38	1,469.51	3,022.18	1,432.38	1,361.72	70.65	20.273	
8,250.00	7,585.85	7,730.12	7,583.58	47.14	30.83	-88.48	1,462.36	3,022.18	1,424.36	1,354.42	69.94	20.365	
8,300.00	7,602.75	7,719.09	7,575.87	46.86	30.84	-89.12	1,454.48	3,022.27	1,419.10	1,349.91	69.19	20.509	
8,350.00	7,615.67	7,706.11	7,566.58	46.58	30.85	-89.29	1,445.40	3,022.48	1,416.59	1,348.16	68.44	20.699 ES	
8,373.43	7,620.32	7,694.32	7,557.97	46.44	30.85	-89.04	1,437.35	3,022.71	1,416.32	1,348.18	68.14	20.785 CC	
8,400.00	7,624.51	7,681.04	7,548.07	46.28	30.86	-88.67	1,428.51	3,022.95	1,416.67	1,348.87	67.80	20.895	
8,450.00	7,629.19	7,656.35	7,529.09	45.98	30.87	-87.74	1,412.72	3,023.39	1,419.14	1,351.99	67.15	21.135	
8,481.00	7,630.00	7,641.15	7,517.12	45.79	30.88	-87.01	1,403.37	3,023.66	1,421.83	1,355.08	66.74	21.303	
8,500.00	7,630.00	7,631.93	7,509.76	45.68	30.88	-86.71	1,397.81	3,023.83	1,423.82	1,357.32	66.50	21.410	
8,600.00	7,630.00	7,583.09	7,469.65	45.11	30.89	-85.09	1,369.98	3,024.64	1,437.27	1,371.95	65.32	22.004	
8,700.00	7,630.00	7,520.94	7,415.96	44.56	30.88	-82.94	1,338.73	3,024.78	1,455.50	1,391.14	64.36	22.614	
8,800.00	7,630.00	7,490.96	7,389.13	44.05	30.87	-81.87	1,325.37	3,024.34	1,478.68	1,415.23	63.45	23.303	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,630.00	7,472.00	7,371.90	43.57	30.87	-81.19	1,317.44	3,024.08	1,507.41	1,444.62	62.79	24.008	
9,000.00	7,630.00	7,446.80	7,348.75	43.12	30.85	-80.27	1,307.51	3,023.82	1,541.49	1,479.08	62.41	24.699	
9,100.00	7,630.00	7,425.00	7,328.49	42.70	30.84	-79.48	1,299.46	3,023.72	1,580.74	1,518.46	62.28	25.382	
9,200.00	7,630.00	7,425.00	7,328.49	42.31	30.84	-79.48	1,299.46	3,023.72	1,624.91	1,562.56	62.35	26.060	
9,300.00	7,630.00	7,400.70	7,305.64	41.94	30.81	-78.58	1,291.18	3,023.73	1,673.44	1,610.82	62.63	26.720	
9,400.00	7,630.00	7,378.00	7,284.04	41.59	30.79	-77.75	1,284.20	3,023.83	1,726.35	1,663.31	63.04	27.384	
9,500.00	7,630.00	7,378.00	7,284.04	41.26	30.79	-77.75	1,284.20	3,023.83	1,782.93	1,719.36	63.57	28.046	
9,600.00	7,630.00	7,378.00	7,284.04	40.96	30.79	-77.75	1,284.20	3,023.83	1,843.20	1,779.03	64.18	28.720	
9,700.00	7,630.00	7,356.88	7,263.75	40.68	30.76	-76.96	1,278.34	3,023.97	1,906.50	1,841.67	64.82	29.412	
9,800.00	7,630.00	7,347.66	7,254.84	40.42	30.75	-76.62	1,275.96	3,024.03	1,972.78	1,907.28	65.50	30.120	
9,900.00	7,630.00	7,331.00	7,238.68	40.17	30.73	-76.01	1,271.94	3,024.15	2,041.75	1,975.57	66.18	30.852	
10,000.00	7,630.00	7,331.00	7,238.68	39.96	30.73	-76.01	1,271.94	3,024.15	2,113.02	2,046.15	66.87	31.599	
10,100.00	7,630.00	7,331.00	7,238.68	40.05	30.73	-76.01	1,271.94	3,024.15	2,186.54	2,118.99	67.55	32.370	
10,200.00	7,630.00	7,331.00	7,238.68	40.95	30.73	-76.01	1,271.94	3,024.15	2,262.09	2,193.88	68.21	33.164	
10,300.00	7,630.00	7,331.00	7,238.68	41.94	30.73	-76.01	1,271.94	3,024.15	2,339.47	2,270.63	68.85	33.981	
10,400.00	7,630.00	7,311.53	7,219.66	42.98	30.70	-75.28	1,267.78	3,024.32	2,418.15	2,348.71	69.44	34.822	
10,500.00	7,630.00	7,307.45	7,215.66	44.06	30.69	-75.13	1,266.99	3,024.37	2,498.53	2,428.51	70.02	35.681	
10,600.00	7,630.00	7,303.65	7,211.92	45.17	30.68	-74.99	1,266.28	3,024.41	2,580.25	2,509.67	70.58	36.558	
10,700.00	7,630.00	7,284.00	7,192.55	46.32	30.65	-74.26	1,263.01	3,024.66	2,663.44	2,592.35	71.10	37.463	
10,800.00	7,630.00	7,284.00	7,192.55	47.50	30.65	-74.26	1,263.01	3,024.66	2,747.40	2,675.80	71.60	38.371	
10,900.00	7,630.00	7,284.00	7,192.55	48.70	30.65	-74.26	1,263.01	3,024.66	2,832.41	2,760.33	72.08	39.295	
11,000.00	7,630.00	7,284.00	7,192.55	49.94	30.65	-74.26	1,263.01	3,024.66	2,918.37	2,845.83	72.54	40.234	
11,100.00	7,630.00	7,284.00	7,192.55	51.20	30.65	-74.26	1,263.01	3,024.66	3,005.19	2,932.22	72.97	41.186	
11,200.00	7,630.00	7,284.00	7,192.55	52.48	30.65	-74.26	1,263.01	3,024.66	3,092.81	3,019.44	73.37	42.151	
11,300.00	7,630.00	7,284.00	7,192.55	53.79	30.65	-74.26	1,263.01	3,024.66	3,181.16	3,107.40	73.76	43.128	
11,400.00	7,630.00	7,284.00	7,192.55	55.12	30.65	-74.26	1,263.01	3,024.66	3,270.18	3,196.06	74.13	44.116	
11,500.00	7,630.00	7,284.00	7,192.55	56.46	30.65	-74.26	1,263.01	3,024.66	3,359.82	3,285.35	74.48	45.113	
11,600.00	7,630.00	7,284.00	7,192.55	57.83	30.65	-74.26	1,263.01	3,024.66	3,450.03	3,375.23	74.81	46.120	
11,700.00	7,630.00	7,284.00	7,192.55	59.22	30.65	-74.26	1,263.01	3,024.66	3,540.77	3,465.65	75.12	47.135	
11,800.00	7,630.00	7,284.00	7,192.55	60.62	30.65	-74.26	1,263.01	3,024.66	3,631.99	3,556.57	75.42	48.157	
11,900.00	7,630.00	7,284.00	7,192.55	62.04	30.65	-74.26	1,263.01	3,024.66	3,723.66	3,647.96	75.70	49.187	
12,000.00	7,630.00	7,284.00	7,192.55	63.48	30.65	-74.26	1,263.01	3,024.66	3,815.75	3,739.78	75.97	50.224	
12,100.00	7,630.00	7,284.00	7,192.55	64.93	30.65	-74.26	1,263.01	3,024.66	3,908.23	3,832.00	76.23	51.267	
12,200.00	7,630.00	7,284.00	7,192.55	66.39	30.65	-74.26	1,263.01	3,024.66	4,001.07	3,924.59	76.48	52.315	
12,300.00	7,630.00	7,284.00	7,192.55	67.86	30.65	-74.26	1,263.01	3,024.66	4,094.25	4,017.53	76.72	53.369	
12,400.00	7,630.00	7,284.00	7,192.55	69.35	30.65	-74.26	1,263.01	3,024.66	4,187.74	4,110.80	76.94	54.427	
12,500.00	7,630.00	7,284.00	7,192.55	70.85	30.65	-74.26	1,263.01	3,024.66	4,281.53	4,204.37	77.16	55.490	
12,600.00	7,630.00	7,284.00	7,192.55	72.36	30.65	-74.26	1,263.01	3,024.66	4,375.59	4,298.23	77.37	56.557	
12,700.00	7,630.00	7,284.00	7,192.55	73.88	30.65	-74.26	1,263.01	3,024.66	4,469.91	4,392.35	77.56	57.628	
12,800.00	7,630.00	7,284.00	7,192.55	75.41	30.65	-74.26	1,263.01	3,024.66	4,564.48	4,486.72	77.76	58.702	
12,900.00	7,630.00	7,284.00	7,192.55	76.95	30.65	-74.26	1,263.01	3,024.66	4,659.27	4,581.33	77.94	59.780	
13,000.00	7,630.00	7,284.00	7,192.55	78.49	30.65	-74.26	1,263.01	3,024.66	4,754.27	4,676.15	78.12	60.861	
13,100.00	7,630.00	7,284.00	7,192.55	80.05	30.65	-74.26	1,263.01	3,024.66	4,849.47	4,771.18	78.29	61.944	
13,200.00	7,630.00	7,284.00	7,192.55	81.61	30.65	-74.26	1,263.01	3,024.66	4,944.86	4,866.41	78.45	63.030	
13,300.00	7,630.00	7,284.00	7,192.55	83.18	30.65	-74.26	1,263.01	3,024.66	5,040.44	4,961.82	78.61	64.119	
13,400.00	7,630.00	7,284.00	7,192.55	84.76	30.65	-74.26	1,263.01	3,024.66	5,136.18	5,057.41	78.76	65.209	
13,500.00	7,630.00	7,284.00	7,192.55	86.34	30.65	-74.26	1,263.01	3,024.66	5,232.08	5,153.16	78.91	66.302	
13,600.00	7,630.00	7,284.00	7,192.55	87.94	30.65	-74.26	1,263.01	3,024.66	5,328.13	5,249.07	79.06	67.396	
13,700.00	7,630.00	7,242.80	7,151.65	89.53	30.55	-72.75	1,258.13	3,025.21	5,422.93	5,343.75	79.19	68.482	
13,800.00	7,630.00	7,241.83	7,150.69	91.13	30.55	-72.71	1,258.05	3,025.22	5,519.20	5,439.87	79.32	69.578	
13,900.00	7,630.00	7,240.90	7,149.76	92.74	30.55	-72.68	1,257.97	3,025.23	5,615.59	5,536.13	79.45	70.677	
14,000.00	7,630.00	7,239.99	7,148.85	94.35	30.54	-72.64	1,257.89	3,025.24	5,712.10	5,632.52	79.58	71.776	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,100.00	7,630.00	7,239.11	7,147.98	95.97	30.54	-72.61	1,257.82	3,025.26	5,808.74	5,729.03	79.71	72.876	
14,200.00	7,630.00	7,238.26	7,147.13	97.60	30.54	-72.58	1,257.75	3,025.27	5,905.48	5,825.65	79.83	73.978	
14,300.00	7,630.00	7,237.44	7,146.31	99.22	30.54	-72.55	1,257.68	3,025.28	6,002.33	5,922.38	79.95	75.080	
14,400.00	7,630.00	7,236.64	7,145.51	100.85	30.54	-72.52	1,257.62	3,025.28	6,099.28	6,019.22	80.06	76.184	
14,500.00	7,630.00	7,235.86	7,144.74	102.49	30.53	-72.49	1,257.56	3,025.29	6,196.32	6,116.15	80.17	77.288	
14,600.00	7,630.00	7,235.11	7,143.99	104.13	30.53	-72.47	1,257.50	3,025.30	6,293.46	6,213.18	80.28	78.392	
14,700.00	7,630.00	7,234.38	7,143.26	105.77	30.53	-72.44	1,257.45	3,025.31	6,390.68	6,310.29	80.39	79.497	
14,800.00	7,630.00	7,233.67	7,142.56	107.42	30.53	-72.41	1,257.40	3,025.32	6,487.99	6,407.50	80.49	80.603	
14,900.00	7,630.00	7,232.99	7,141.87	109.07	30.53	-72.39	1,257.35	3,025.33	6,585.38	6,504.78	80.60	81.709	
15,000.00	7,630.00	7,232.32	7,141.20	110.72	30.53	-72.36	1,257.30	3,025.34	6,682.84	6,602.15	80.70	82.815	
15,100.00	7,630.00	7,231.67	7,140.55	112.38	30.52	-72.34	1,257.25	3,025.34	6,780.38	6,699.58	80.79	83.921	
15,200.00	7,630.00	7,189.00	7,097.93	114.04	30.42	-70.79	1,255.62	3,025.80	6,879.41	6,798.54	80.88	85.061	
15,300.00	7,630.00	7,189.00	7,097.93	115.71	30.42	-70.79	1,255.62	3,025.80	6,977.05	6,896.07	80.97	86.167	
15,400.00	7,630.00	7,189.00	7,097.93	117.37	30.42	-70.79	1,255.62	3,025.80	7,074.74	6,993.68	81.06	87.273	
15,500.00	7,630.00	7,189.00	7,097.93	119.04	30.42	-70.79	1,255.62	3,025.80	7,172.51	7,091.35	81.16	88.379	
15,600.00	7,630.00	7,189.00	7,097.93	120.71	30.42	-70.79	1,255.62	3,025.80	7,270.33	7,189.08	81.25	89.484	
15,700.00	7,630.00	7,189.00	7,097.93	122.39	30.42	-70.79	1,255.62	3,025.80	7,368.21	7,286.87	81.34	90.590	
15,800.00	7,630.00	7,189.00	7,097.93	124.06	30.42	-70.79	1,255.62	3,025.80	7,466.15	7,384.72	81.42	91.696	
15,900.00	7,630.00	7,189.00	7,097.93	125.74	30.42	-70.79	1,255.62	3,025.80	7,564.14	7,482.63	81.51	92.801	
16,000.00	7,630.00	7,189.00	7,097.93	127.42	30.42	-70.79	1,255.62	3,025.80	7,662.18	7,580.59	81.59	93.906	
16,100.00	7,630.00	7,189.00	7,097.93	129.10	30.42	-70.79	1,255.62	3,025.80	7,760.27	7,678.60	81.68	95.010	
16,200.00	7,630.00	7,189.00	7,097.93	130.79	30.42	-70.79	1,255.62	3,025.80	7,858.41	7,776.65	81.76	96.114	
16,300.00	7,630.00	7,189.00	7,097.93	132.48	30.42	-70.79	1,255.62	3,025.80	7,956.60	7,874.76	81.84	97.218	
16,400.00	7,630.00	7,189.00	7,097.93	134.17	30.42	-70.79	1,255.62	3,025.80	8,054.83	7,972.91	81.92	98.321	
16,500.00	7,630.00	7,189.00	7,097.93	135.86	30.42	-70.79	1,255.62	3,025.80	8,153.11	8,071.11	82.00	99.424	
16,600.00	7,630.00	7,189.00	7,097.93	137.55	30.42	-70.79	1,255.62	3,025.80	8,251.43	8,169.34	82.08	100.526	
16,700.00	7,630.00	7,189.00	7,097.93	139.24	30.42	-70.79	1,255.62	3,025.80	8,349.78	8,267.62	82.16	101.628	
16,800.00	7,630.00	7,189.00	7,097.93	140.94	30.42	-70.79	1,255.62	3,025.80	8,448.18	8,365.94	82.24	102.729	
16,900.00	7,630.00	7,189.00	7,097.93	142.64	30.42	-70.79	1,255.62	3,025.80	8,546.61	8,464.29	82.31	103.829	
17,000.00	7,630.00	7,189.00	7,097.93	144.34	30.42	-70.79	1,255.62	3,025.80	8,645.08	8,562.69	82.39	104.928	
17,100.00	7,630.00	7,189.00	7,097.93	146.04	30.42	-70.79	1,255.62	3,025.80	8,743.58	8,661.11	82.47	106.027	
17,200.00	7,630.00	7,189.00	7,097.93	147.74	30.42	-70.79	1,255.62	3,025.80	8,842.12	8,759.58	82.54	107.125	
17,300.00	7,630.00	7,189.00	7,097.93	149.44	30.42	-70.79	1,255.62	3,025.80	8,940.69	8,858.07	82.61	108.222	
17,400.00	7,630.00	7,189.00	7,097.93	151.15	30.42	-70.79	1,255.62	3,025.80	9,039.29	8,956.60	82.69	109.318	
17,500.00	7,630.00	7,189.00	7,097.93	152.86	30.42	-70.79	1,255.62	3,025.80	9,137.92	9,055.16	82.76	110.413	
17,600.00	7,630.00	7,189.00	7,097.93	154.56	30.42	-70.79	1,255.62	3,025.80	9,236.58	9,153.74	82.83	111.507	
17,700.00	7,630.00	7,189.00	7,097.93	156.27	30.42	-70.79	1,255.62	3,025.80	9,335.27	9,252.36	82.91	112.600	
17,800.00	7,630.00	7,189.00	7,097.93	157.98	30.42	-70.79	1,255.62	3,025.80	9,433.98	9,351.00	82.98	113.693	
17,900.00	7,630.00	7,189.00	7,097.93	159.70	30.42	-70.79	1,255.62	3,025.80	9,532.73	9,449.68	83.05	114.784	
18,000.00	7,630.00	7,189.00	7,097.93	161.41	30.42	-70.79	1,255.62	3,025.80	9,631.49	9,548.37	83.12	115.874	
18,100.00	7,630.00	7,189.00	7,097.93	163.12	30.42	-70.79	1,255.62	3,025.80	9,730.29	9,647.10	83.19	116.963	
18,154.00	7,630.00	7,189.00	7,097.93	164.05	30.42	-70.79	1,255.62	3,025.80	9,783.65	9,700.42	83.23	117.551	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	174.36	-4,018.83	396.55	4,038.37				
100.00	100.00	52.27	52.27	0.13	0.09	174.36	-4,019.01	396.78	4,038.67	4,038.45	0.22	N/A	
200.00	200.00	120.00	119.99	0.49	0.20	174.35	-4,019.79	397.79	4,039.93	4,039.25	0.69	5,881.296	
300.00	300.00	290.56	290.51	0.85	0.80	174.31	-4,021.16	400.61	4,041.07	4,039.41	1.65	2,442.474	
400.00	400.00	408.88	408.83	1.21	1.22	174.30	-4,020.48	401.64	4,040.56	4,038.13	2.43	1,662.003	
500.00	500.00	508.40	508.32	1.57	1.58	174.26	-4,019.72	403.79	4,040.02	4,036.87	3.15	1,284.376	
600.00	600.00	600.00	736.38	1.93	1.91	174.00	-4,012.91	421.90	4,037.91	4,034.08	3.83	1,054.685	
700.00	700.00	969.61	965.35	2.29	3.38	173.48	-3,996.24	456.53	4,032.06	4,026.40	5.66	712.209	
800.00	800.00	1,073.29	1,066.78	2.64	3.85	173.20	-3,986.64	475.73	4,024.87	4,018.39	6.48	621.106	
900.00	900.00	1,150.04	1,141.71	3.00	4.21	172.97	-3,979.76	490.87	4,018.19	4,011.00	7.19	558.583	
1,000.00	1,000.00	1,292.57	1,281.17	3.36	4.88	172.57	-3,966.76	517.23	4,011.36	4,003.15	8.21	488.556	
1,100.00	1,100.00	1,361.17	1,348.39	3.72	5.20	172.39	-3,960.40	529.34	4,004.35	3,995.46	8.89	450.523	
1,200.00	1,200.00	1,479.28	1,463.86	4.08	5.78	172.05	-3,949.52	551.62	3,997.66	3,987.85	9.81	407.593	
1,300.00	1,300.00	1,610.71	1,591.89	4.44	6.44	171.64	-3,936.05	578.13	3,990.18	3,979.36	10.81	368.988	
1,400.00	1,400.00	1,728.40	1,706.17	4.79	7.04	171.26	-3,923.18	603.10	3,982.32	3,970.55	11.77	338.451	
1,500.00	1,499.98	1,824.24	1,799.50	5.15	7.53	133.28	-3,912.56	622.10	3,975.44	3,962.84	12.60	315.454	
1,600.00	1,599.84	1,904.09	1,877.38	5.51	7.94	133.14	-3,903.99	637.56	3,971.33	3,957.97	13.36	297.280	
1,700.00	1,699.45	1,995.90	1,966.86	5.87	8.40	132.96	-3,894.49	655.75	3,970.08	3,955.90	14.18	280.015	
1,700.65	1,700.10	1,996.57	1,967.52	5.87	8.41	132.96	-3,894.42	655.89	3,970.08	3,955.90	14.18	279.902	
1,800.00	1,798.70	2,096.91	2,065.31	6.23	8.92	132.76	-3,884.00	675.80	3,971.24	3,956.19	15.05	263.831	
1,900.00	1,897.47	2,196.82	2,162.33	6.60	9.45	132.54	-3,873.37	697.11	3,974.79	3,958.85	15.94	249.344	
2,000.00	1,995.62	2,302.65	2,264.97	6.99	10.02	132.31	-3,861.96	720.26	3,980.65	3,963.77	16.88	235.866	
2,100.00	2,093.06	2,436.93	2,395.26	7.39	10.74	132.08	-3,846.80	748.97	3,988.28	3,970.32	17.97	221.975	
2,200.00	2,189.64	2,528.18	2,483.84	7.82	11.23	131.88	-3,836.16	768.11	3,997.86	3,979.00	18.85	212.060	
2,300.00	2,285.27	2,300.00	2,597.11	8.28	9.98	131.68	-3,822.74	793.81	4,010.12	3,992.07	18.06	222.091	
2,400.00	2,379.82	2,787.00	2,734.74	8.77	12.63	131.51	-3,804.70	823.26	4,023.09	4,002.02	21.07	190.907	
2,500.00	2,473.17	2,834.78	2,781.15	9.31	12.88	131.30	-3,798.83	832.93	4,038.88	4,017.09	21.79	185.329	
2,600.00	2,565.21	2,881.00	2,826.09	9.88	13.12	131.06	-3,793.79	842.52	4,058.27	4,035.75	22.52	180.176	
2,660.67	2,620.37	2,977.89	2,920.20	10.25	13.64	130.98	-3,783.32	863.04	4,071.30	4,047.95	23.34	174.426	
2,700.00	2,655.96	3,011.70	2,952.99	10.50	13.83	131.03	-3,779.48	870.32	4,079.81	4,056.08	23.73	171.954	
2,800.00	2,746.43	3,070.00	3,009.49	11.15	14.15	131.10	-3,772.90	883.10	4,101.74	4,077.17	24.57	166.965	
2,900.00	2,836.90	3,138.41	3,075.80	11.82	14.52	131.19	-3,765.72	898.32	4,124.44	4,098.96	25.47	161.906	
3,000.00	2,927.37	3,292.17	3,224.68	12.50	15.37	131.37	-3,749.85	933.27	4,147.40	4,120.53	26.87	154.347	
3,100.00	3,017.85	3,386.51	3,315.98	13.21	15.89	131.48	-3,739.33	954.57	4,169.44	4,141.49	27.95	149.172	
3,200.00	3,108.32	3,488.89	3,415.11	13.92	16.46	131.60	-3,727.99	977.54	4,191.56	4,162.48	29.08	144.134	
3,300.00	3,198.79	3,584.85	3,508.06	14.64	16.99	131.72	-3,717.15	998.76	4,213.43	4,183.25	30.18	139.611	
3,400.00	3,289.27	3,663.50	3,584.35	15.38	17.42	131.82	-3,708.64	1,015.88	4,235.72	4,204.54	31.18	135.831	
3,500.00	3,379.74	3,749.67	3,668.01	16.12	17.88	131.93	-3,699.56	1,034.40	4,258.29	4,226.06	32.23	132.125	
3,600.00	3,470.21	3,820.03	3,736.46	16.87	18.26	132.02	-3,692.54	1,049.14	4,281.34	4,248.15	33.18	129.018	
3,700.00	3,560.68	3,898.78	3,813.29	17.62	18.66	132.14	-3,685.22	1,064.81	4,304.92	4,270.75	34.17	125.976	
3,800.00	3,651.16	3,978.37	3,891.24	18.39	19.05	132.28	-3,678.32	1,079.28	4,328.92	4,293.77	35.15	123.163	
3,900.00	3,741.63	4,045.22	3,956.98	19.15	19.37	132.42	-3,672.98	1,090.17	4,353.39	4,317.35	36.04	120.794	
4,000.00	3,832.10	4,111.00	4,021.90	19.92	19.66	132.56	-3,668.52	1,099.80	4,378.77	4,341.86	36.91	118.631	
4,100.00	3,922.57	4,167.81	4,078.14	20.69	19.90	132.70	-3,665.23	1,107.10	4,404.93	4,367.22	37.71	116.802	
4,200.00	4,013.05	4,267.76	4,177.44	21.47	20.29	132.98	-3,660.13	1,117.23	4,431.57	4,392.89	38.68	114.556	
4,300.00	4,103.52	4,345.35	4,254.72	22.25	20.56	133.23	-3,656.26	1,122.85	4,458.12	4,418.59	39.53	112.783	
4,400.00	4,193.99	4,394.00	4,303.26	23.03	20.73	133.39	-3,654.25	1,125.52	4,485.47	4,445.22	40.24	111.463	
4,500.00	4,284.47	4,446.07	4,355.26	23.81	20.89	133.58	-3,652.67	1,127.70	4,513.82	4,472.87	40.95	110.239	
4,600.00	4,374.94	4,490.57	4,399.74	24.60	21.03	133.74	-3,651.92	1,129.04	4,543.33	4,501.72	41.61	109.182	
4,700.00	4,465.41	4,575.21	4,484.34	25.39	21.27	134.06	-3,651.03	1,130.85	4,573.54	4,531.13	42.41	107.837	
4,800.00	4,555.88	4,673.87	4,582.98	26.18	21.56	134.43	-3,650.04	1,132.65	4,603.91	4,560.66	43.26	106.428	
4,900.00	4,646.36	4,759.99	4,669.09	26.97	21.81	134.75	-3,649.12	1,134.44	4,634.41	4,590.35	44.06	105.180	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,736.83	4,850.33	4,759.40	27.76	22.08	135.07	-3,648.20	1,136.57	4,665.13	4,620.25	44.88	103.939	
5,100.00	4,827.30	4,951.50	4,860.53	28.55	22.38	135.43	-3,647.07	1,139.22	4,695.93	4,650.18	45.75	102.645	
5,200.00	4,917.77	5,041.27	4,950.26	29.35	22.65	135.74	-3,645.96	1,141.58	4,726.77	4,680.20	46.57	101.497	
5,300.00	5,008.25	5,149.24	5,058.18	30.15	22.98	136.12	-3,644.52	1,144.13	4,757.64	4,710.18	47.46	100.245	
5,400.00	5,098.72	5,255.42	5,164.34	30.94	23.30	136.49	-3,642.78	1,145.82	4,788.33	4,740.00	48.33	99.069	
5,500.00	5,189.19	5,335.97	5,244.87	31.74	23.53	136.78	-3,641.49	1,146.44	4,819.16	4,770.06	49.10	98.155	
5,600.00	5,279.67	5,406.43	5,315.33	32.54	23.73	137.03	-3,640.58	1,146.50	4,850.40	4,800.59	49.81	97.376	
5,700.00	5,370.14	5,475.75	5,384.64	33.34	23.92	137.28	-3,640.01	1,146.12	4,882.20	4,831.69	50.51	96.660	
5,800.00	5,460.61	5,551.13	5,460.02	34.14	24.12	137.56	-3,639.72	1,145.53	4,914.54	4,863.32	51.22	95.949	
5,900.00	5,551.08	5,645.18	5,554.07	34.94	24.37	137.90	-3,639.41	1,144.76	4,947.10	4,895.10	52.00	95.145	
6,000.00	5,641.56	5,739.85	5,648.74	35.75	24.62	138.24	-3,639.05	1,143.75	4,979.75	4,926.98	52.77	94.366	
6,100.00	5,732.03	5,835.80	5,744.67	36.55	24.88	138.58	-3,638.54	1,142.56	5,012.43	4,958.88	53.55	93.604	
6,200.00	5,822.50	5,921.97	5,830.83	37.35	25.11	138.89	-3,638.12	1,141.32	5,045.30	4,991.01	54.29	92.933	
6,300.00	5,912.97	6,027.64	5,936.49	38.16	25.40	139.26	-3,637.50	1,139.80	5,078.23	5,023.13	55.10	92.158	
6,400.00	6,003.45	6,132.90	6,041.74	38.96	25.70	139.62	-3,636.45	1,138.82	5,110.93	5,055.00	55.93	91.388	
6,500.00	6,093.92	6,229.22	6,138.05	39.77	25.98	139.94	-3,635.44	1,138.46	5,143.72	5,087.00	56.72	90.682	
6,600.00	6,184.39	6,347.29	6,256.11	40.57	26.33	140.32	-3,633.75	1,138.18	5,176.32	5,118.71	57.61	89.851	
6,700.00	6,274.87	6,448.88	6,357.68	41.38	26.63	140.65	-3,631.88	1,137.50	5,208.66	5,150.23	58.43	89.150	
6,800.00	6,365.34	6,538.94	6,447.71	42.18	26.89	140.94	-3,630.15	1,136.43	5,241.07	5,181.89	59.19	88.548	
6,900.00	6,455.81	6,630.80	6,539.55	42.99	27.16	141.24	-3,628.40	1,135.38	5,273.64	5,213.68	59.96	87.953	
7,000.00	6,546.28	6,693.29	6,602.03	43.80	27.34	141.43	-3,627.28	1,134.84	5,306.48	5,245.87	60.61	87.551	
7,100.00	6,636.76	6,756.00	6,664.74	44.61	27.53	141.63	-3,626.76	1,134.25	5,340.19	5,278.93	61.26	87.178	
7,200.00	6,727.23	6,827.48	6,736.22	45.41	27.73	141.85	-3,626.48	1,133.51	5,374.45	5,312.52	61.93	86.780	
7,300.00	6,817.70	6,917.06	6,825.79	46.22	27.99	142.13	-3,626.00	1,132.67	5,408.76	5,346.07	62.68	86.287	
7,383.79	6,893.51	7,000.04	6,908.76	46.90	28.24	142.38	-3,625.59	1,132.28	5,437.61	5,374.26	63.35	85.831	
7,400.00	6,908.25	7,017.78	6,926.51	47.03	28.29	140.05	-3,625.49	1,132.24	5,442.97	5,379.48	63.49	85.731	
7,450.00	6,954.52	7,061.08	6,969.81	47.40	28.43	131.14	-3,625.20	1,132.22	5,456.73	5,392.87	63.86	85.448	
7,500.00	7,001.74	7,097.44	7,006.17	47.72	28.54	119.05	-3,625.03	1,132.22	5,466.37	5,402.17	64.20	85.150	
7,550.00	7,049.55	7,134.41	7,043.14	47.99	28.65	103.66	-3,624.93	1,132.23	5,471.84	5,407.31	64.53	84.801	
7,600.00	7,097.58	7,203.58	7,112.30	48.21	28.87	86.62	-3,624.68	1,132.26	5,472.94	5,407.96	64.99	84.218	
7,650.00	7,145.48	7,258.43	7,167.16	48.37	29.04	70.69	-3,624.31	1,132.28	5,469.59	5,404.22	65.36	83.680	
7,700.00	7,192.88	7,305.02	7,213.74	48.48	29.18	57.91	-3,623.99	1,132.26	5,461.94	5,396.25	65.68	83.155	
7,750.00	7,239.41	7,354.33	7,263.05	48.54	29.33	48.47	-3,623.65	1,132.21	5,450.05	5,384.05	66.00	82.578	
7,800.00	7,284.72	7,404.64	7,313.36	48.56	29.49	41.70	-3,623.26	1,132.26	5,433.99	5,367.68	66.30	81.958	
7,850.00	7,328.47	7,446.91	7,355.63	48.54	29.62	36.82	-3,622.92	1,132.36	5,413.88	5,347.33	66.55	81.346	
7,900.00	7,370.32	7,485.26	7,393.97	48.47	29.74	33.30	-3,622.63	1,132.41	5,389.93	5,323.16	66.77	80.719	
7,950.00	7,409.96	7,523.21	7,431.93	48.37	29.86	30.78	-3,622.36	1,132.41	5,362.32	5,295.34	66.98	80.058	
8,000.00	7,447.08	7,562.56	7,471.27	48.24	29.99	29.04	-3,622.08	1,132.46	5,331.22	5,264.04	67.18	79.355	
8,050.00	7,481.41	7,598.90	7,507.62	48.07	30.10	27.93	-3,621.80	1,132.57	5,296.86	5,229.49	67.36	78.633	
8,100.00	7,512.67	7,636.09	7,544.80	47.87	30.22	27.41	-3,621.50	1,132.72	5,259.48	5,191.94	67.54	77.873	
8,150.00	7,540.64	7,670.19	7,578.90	47.65	30.33	27.44	-3,621.18	1,132.88	5,219.37	5,151.67	67.70	77.098	
8,200.00	7,565.09	7,699.81	7,608.52	47.40	30.42	28.11	-3,620.86	1,133.03	5,176.83	5,109.00	67.83	76.317	
8,250.00	7,585.85	7,715.40	7,624.10	47.14	30.47	29.49	-3,620.70	1,133.11	5,132.21	5,064.31	67.90	75.582	
8,300.00	7,602.75	7,728.30	7,637.01	46.86	30.52	32.08	-3,620.57	1,133.18	5,085.86	5,017.90	67.96	74.835	
8,350.00	7,615.67	7,738.12	7,646.82	46.58	30.55	36.83	-3,620.48	1,133.24	5,038.12	4,970.12	68.01	74.082	
8,400.00	7,624.51	7,744.75	7,653.45	46.28	30.57	46.28	-3,620.43	1,133.28	4,989.35	4,921.31	68.04	73.326	
8,450.00	7,629.19	7,748.12	7,656.82	45.98	30.58	68.37	-3,620.40	1,133.30	4,939.90	4,871.83	68.07	72.569	
8,481.00	7,630.00	7,748.55	7,657.26	45.79	30.58	95.36	-3,620.40	1,133.30	4,909.07	4,840.98	68.09	72.101	
8,500.00	7,630.00	7,748.43	7,657.13	45.68	30.58	95.35	-3,620.40	1,133.30	4,890.16	4,822.06	68.09	71.815	
8,600.00	7,630.00	7,747.77	7,656.47	45.11	30.58	95.27	-3,620.40	1,133.30	4,790.61	4,722.48	68.14	70.310	
8,700.00	7,630.00	7,747.10	7,655.81	44.56	30.58	95.19	-3,620.41	1,133.29	4,691.09	4,622.91	68.18	68.804	
8,800.00	7,630.00	7,746.43	7,655.14	44.05	30.57	95.10	-3,620.41	1,133.29	4,591.59	4,523.36	68.23	67.296	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	7,745.75	7,654.46	43.57	30.57	95.02	-3,620.42	1,133.29	4,492.11	4,423.83	68.28	65.788	
9,000.00	7,630.00	7,745.07	7,653.78	43.12	30.57	94.93	-3,620.42	1,133.28	4,392.65	4,324.32	68.34	64.279	
9,100.00	7,630.00	7,744.38	7,653.09	42.70	30.57	94.85	-3,620.43	1,133.28	4,293.22	4,224.82	68.40	62.769	
9,200.00	7,630.00	7,743.69	7,652.39	42.31	30.56	94.76	-3,620.44	1,133.27	4,193.82	4,125.35	68.46	61.257	
9,300.00	7,630.00	7,742.98	7,651.69	41.94	30.56	94.68	-3,620.44	1,133.27	4,094.44	4,025.91	68.53	59.745	
9,400.00	7,630.00	7,742.27	7,650.98	41.59	30.56	94.59	-3,620.45	1,133.27	3,995.10	3,926.49	68.61	58.232	
9,500.00	7,630.00	7,741.56	7,650.27	41.26	30.56	94.50	-3,620.45	1,133.26	3,895.78	3,827.10	68.69	56.719	
9,600.00	7,630.00	7,740.84	7,649.54	40.96	30.56	94.41	-3,620.46	1,133.26	3,796.51	3,727.74	68.77	55.205	
9,700.00	7,630.00	7,740.11	7,648.81	40.68	30.55	94.32	-3,620.47	1,133.25	3,697.27	3,628.41	68.86	53.690	
9,800.00	7,630.00	7,739.37	7,648.08	40.42	30.55	94.23	-3,620.47	1,133.25	3,598.08	3,529.11	68.96	52.174	
9,900.00	7,630.00	7,738.63	7,647.34	40.17	30.55	94.14	-3,620.48	1,133.24	3,498.93	3,429.86	69.07	50.658	
10,000.00	7,630.00	7,737.88	7,646.59	39.96	30.55	94.05	-3,620.49	1,133.24	3,399.83	3,330.64	69.18	49.141	
10,100.00	7,630.00	7,737.13	7,645.83	40.05	30.54	93.95	-3,620.49	1,133.24	3,300.78	3,231.48	69.31	47.624	
10,200.00	7,630.00	7,736.36	7,645.07	40.95	30.54	93.86	-3,620.50	1,133.23	3,201.80	3,132.36	69.44	46.107	
10,300.00	7,630.00	7,735.59	7,644.30	41.94	30.54	93.76	-3,620.51	1,133.23	3,102.88	3,033.29	69.59	44.589	
10,400.00	7,630.00	7,734.81	7,643.52	42.98	30.54	93.67	-3,620.51	1,133.22	3,004.03	2,934.28	69.74	43.072	
10,500.00	7,630.00	7,734.03	7,642.73	44.06	30.53	93.57	-3,620.52	1,133.22	2,905.26	2,835.34	69.92	41.554	
10,600.00	7,630.00	7,733.24	7,641.94	45.17	30.53	93.47	-3,620.53	1,133.21	2,806.57	2,736.47	70.10	40.036	
10,700.00	7,630.00	7,732.43	7,641.14	46.32	30.53	93.37	-3,620.54	1,133.21	2,707.98	2,637.68	70.30	38.519	
10,800.00	7,630.00	7,731.63	7,640.33	47.50	30.53	93.27	-3,620.54	1,133.20	2,609.50	2,538.98	70.52	37.002	
10,900.00	7,630.00	7,730.81	7,639.52	48.70	30.52	93.17	-3,620.55	1,133.20	2,511.14	2,440.38	70.77	35.485	
11,000.00	7,630.00	7,729.98	7,638.69	49.94	30.52	93.07	-3,620.56	1,133.19	2,412.91	2,341.88	71.03	33.969	
11,100.00	7,630.00	7,729.15	7,637.86	51.20	30.52	92.96	-3,620.57	1,133.19	2,314.84	2,243.51	71.33	32.454	
11,200.00	7,630.00	7,728.31	7,637.02	52.48	30.52	92.86	-3,620.57	1,133.19	2,216.93	2,145.28	71.65	30.941	
11,300.00	7,630.00	7,727.46	7,636.17	53.79	30.51	92.75	-3,620.58	1,133.18	2,119.23	2,047.21	72.01	29.429	
11,400.00	7,630.00	7,726.60	7,635.31	55.12	30.51	92.65	-3,620.59	1,133.18	2,021.74	1,949.33	72.42	27.919	
11,500.00	7,630.00	7,725.74	7,634.44	56.46	30.51	92.54	-3,620.60	1,133.17	1,924.51	1,851.65	72.87	26.411	
11,600.00	7,630.00	7,724.86	7,633.57	57.83	30.50	92.43	-3,620.61	1,133.17	1,827.59	1,754.21	73.38	24.907	
11,700.00	7,630.00	7,723.98	7,632.68	59.22	30.50	92.32	-3,620.62	1,133.16	1,731.01	1,657.05	73.95	23.407	
11,800.00	7,630.00	7,723.08	7,631.79	60.62	30.50	92.21	-3,620.62	1,133.16	1,634.84	1,560.23	74.61	21.913	
11,900.00	7,630.00	7,722.18	7,630.89	62.04	30.50	92.10	-3,620.63	1,133.15	1,539.16	1,463.80	75.36	20.425	
12,000.00	7,630.00	7,721.27	7,629.97	63.48	30.49	91.99	-3,620.64	1,133.15	1,444.06	1,367.84	76.22	18.945	
12,100.00	7,630.00	7,720.34	7,629.05	64.93	30.49	91.87	-3,620.65	1,133.14	1,349.67	1,272.45	77.23	17.477	
12,200.00	7,630.00	7,719.41	7,628.12	66.39	30.49	91.75	-3,620.66	1,133.14	1,256.15	1,177.76	78.40	16.023	
12,300.00	7,630.00	7,718.47	7,627.18	67.86	30.48	91.64	-3,620.67	1,133.13	1,163.71	1,083.94	79.77	14.588	
12,400.00	7,630.00	7,717.52	7,626.23	69.35	30.48	91.52	-3,620.68	1,133.12	1,072.62	991.22	81.40	13.177	
12,500.00	7,630.00	7,716.56	7,625.27	70.85	30.48	91.40	-3,620.69	1,133.12	983.27	899.93	83.34	11.798	
12,600.00	7,630.00	7,715.59	7,624.29	72.36	30.47	91.28	-3,620.70	1,133.11	896.17	810.51	85.66	10.462	
12,700.00	7,630.00	7,714.60	7,623.31	73.88	30.47	91.16	-3,620.71	1,133.11	812.04	723.61	88.43	9.182	
12,800.00	7,630.00	7,713.61	7,622.32	75.41	30.47	91.03	-3,620.72	1,133.10	731.92	640.19	91.73	7.979	
12,900.00	7,630.00	7,712.61	7,621.32	76.95	30.47	90.91	-3,620.73	1,133.10	657.27	561.68	95.59	6.876	
13,000.00	7,630.00	7,711.59	7,620.30	78.49	30.46	90.78	-3,620.74	1,133.09	590.16	490.24	99.92	5.906	
13,100.00	7,630.00	7,710.57	7,619.28	80.05	30.46	90.66	-3,620.75	1,133.09	533.45	429.04	104.41	5.109	
13,200.00	7,630.00	7,709.53	7,618.24	81.61	30.46	90.53	-3,620.76	1,133.08	490.77	382.42	108.35	4.529	
13,300.00	7,630.00	7,708.54	7,617.25	83.18	30.45	90.40	-3,620.77	1,133.08	465.98	355.33	110.65	4.211	
13,368.60	7,630.00	7,707.76	7,616.46	84.27	30.45	90.31	-3,620.78	1,133.07	460.91	350.17	110.73	4.162	CC, ES, SF
13,400.00	7,630.00	7,707.42	7,616.13	84.76	30.45	90.26	-3,620.78	1,133.07	461.97	351.67	110.30	4.188	
13,500.00	7,630.00	7,706.35	7,615.06	86.34	30.45	90.13	-3,620.79	1,133.06	479.27	372.09	107.18	4.472	
13,600.00	7,630.00	7,705.26	7,613.97	87.94	30.44	90.00	-3,620.81	1,133.06	515.73	413.55	102.18	5.047	
13,700.00	7,630.00	7,704.17	7,612.88	89.53	30.44	89.86	-3,620.82	1,133.05	567.67	471.11	96.56	5.879	
13,800.00	7,630.00	7,703.06	7,611.77	91.13	30.43	89.72	-3,620.83	1,133.05	631.28	540.05	91.23	6.920	
13,900.00	7,630.00	7,701.94	7,610.64	92.74	30.43	89.58	-3,620.84	1,133.04	703.41	616.79	86.62	8.121	

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

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

Offset Site Error: 0.00 usft

Survey Program: 120-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,630.00	7,700.80	7,609.51	94.35	30.43	89.44	-3,620.85	1,133.03	781.70	698.89	82.81	9.440	
14,100.00	7,630.00	7,699.65	7,608.36	95.97	30.42	89.30	-3,620.87	1,133.03	864.47	784.74	79.74	10.842	
14,200.00	7,630.00	7,698.53	7,607.24	97.60	30.42	89.16	-3,620.88	1,133.02	950.57	873.28	77.29	12.299	
14,300.00	7,630.00	7,697.45	7,606.16	99.22	30.42	89.03	-3,620.89	1,133.02	1,039.15	963.80	75.35	13.792	
14,400.00	7,630.00	7,696.39	7,605.10	100.85	30.41	88.89	-3,620.90	1,133.01	1,129.64	1,055.84	73.80	15.307	
14,500.00	7,630.00	7,695.33	7,604.04	102.49	30.41	88.76	-3,620.91	1,133.01	1,221.62	1,149.05	72.57	16.834	
14,600.00	7,630.00	7,694.28	7,602.98	104.13	30.41	88.63	-3,620.92	1,133.00	1,314.76	1,243.18	71.58	18.367	
14,700.00	7,630.00	7,693.23	7,601.94	105.77	30.40	88.50	-3,620.94	1,132.99	1,408.85	1,338.05	70.79	19.902	
14,800.00	7,630.00	7,692.19	7,600.90	107.42	30.40	88.37	-3,620.95	1,132.99	1,503.69	1,433.54	70.15	21.435	
14,900.00	7,630.00	7,691.16	7,599.87	109.07	30.40	88.24	-3,620.96	1,132.98	1,599.17	1,529.54	69.63	22.966	
15,000.00	7,630.00	7,690.14	7,598.85	110.72	30.39	88.12	-3,620.97	1,132.98	1,695.16	1,625.95	69.21	24.493	
15,100.00	7,630.00	7,689.12	7,597.83	112.38	30.39	87.99	-3,620.98	1,132.97	1,791.60	1,722.73	68.87	26.015	
15,200.00	7,630.00	7,688.11	7,596.82	114.04	30.39	87.87	-3,620.99	1,132.97	1,888.40	1,819.81	68.59	27.533	
15,300.00	7,630.00	7,687.11	7,595.82	115.71	30.38	87.74	-3,621.00	1,132.96	1,985.52	1,917.16	68.36	29.046	
15,400.00	7,630.00	7,686.11	7,594.82	117.37	30.38	87.62	-3,621.01	1,132.96	2,082.91	2,014.74	68.17	30.554	
15,500.00	7,630.00	7,685.12	7,593.83	119.04	30.38	87.49	-3,621.02	1,132.95	2,180.54	2,112.52	68.02	32.057	
15,600.00	7,630.00	7,684.13	7,592.84	120.71	30.37	87.37	-3,621.03	1,132.95	2,278.37	2,210.47	67.90	33.555	
15,700.00	7,630.00	7,683.16	7,591.87	122.39	30.37	87.25	-3,621.04	1,132.94	2,376.39	2,308.59	67.80	35.049	
15,800.00	7,630.00	7,682.19	7,590.90	124.06	30.37	87.13	-3,621.05	1,132.94	2,474.56	2,406.83	67.72	36.539	
15,900.00	7,630.00	7,681.22	7,589.93	125.74	30.36	87.01	-3,621.06	1,132.93	2,572.87	2,505.21	67.66	38.024	
16,000.00	7,630.00	7,680.26	7,588.97	127.42	30.36	86.89	-3,621.07	1,132.93	2,671.31	2,603.69	67.62	39.505	
16,100.00	7,630.00	7,679.31	7,588.02	129.10	30.36	86.77	-3,621.08	1,132.92	2,769.86	2,702.27	67.59	40.982	
16,200.00	7,630.00	7,678.36	7,587.07	130.79	30.36	86.66	-3,621.09	1,132.92	2,868.51	2,800.94	67.57	42.455	
16,300.00	7,630.00	7,677.42	7,586.13	132.48	30.35	86.54	-3,621.10	1,132.91	2,967.24	2,899.69	67.55	43.924	
16,400.00	7,630.00	7,676.49	7,585.20	134.17	30.35	86.43	-3,621.11	1,132.91	3,066.06	2,998.51	67.55	45.389	
16,500.00	7,630.00	7,675.56	7,584.27	135.86	30.35	86.31	-3,621.12	1,132.91	3,164.96	3,097.41	67.55	46.851	
16,600.00	7,630.00	7,674.64	7,583.35	137.55	30.34	86.20	-3,621.13	1,132.90	3,263.92	3,196.36	67.56	48.309	
16,700.00	7,630.00	7,673.72	7,582.43	139.24	30.34	86.08	-3,621.14	1,132.90	3,362.94	3,295.37	67.58	49.764	
16,800.00	7,630.00	7,672.81	7,581.52	140.94	30.34	85.97	-3,621.15	1,132.89	3,462.02	3,394.42	67.60	51.215	
16,900.00	7,630.00	7,671.91	7,580.62	142.64	30.34	85.86	-3,621.16	1,132.89	3,561.15	3,493.53	67.62	52.663	
17,000.00	7,630.00	7,671.01	7,579.72	144.34	30.33	85.75	-3,621.17	1,132.88	3,660.33	3,592.68	67.65	54.107	
17,100.00	7,630.00	7,670.12	7,578.83	146.04	30.33	85.64	-3,621.18	1,132.88	3,759.55	3,691.87	67.68	55.548	
17,200.00	7,630.00	7,669.23	7,577.94	147.74	30.33	85.53	-3,621.19	1,132.87	3,858.81	3,791.09	67.72	56.986	
17,300.00	7,630.00	7,668.35	7,577.06	149.44	30.32	85.42	-3,621.19	1,132.87	3,958.10	3,890.35	67.75	58.420	
17,400.00	7,630.00	7,667.47	7,576.18	151.15	30.32	85.31	-3,621.20	1,132.87	4,057.44	3,989.64	67.79	59.851	
17,500.00	7,630.00	7,666.60	7,575.31	152.86	30.32	85.20	-3,621.21	1,132.86	4,156.80	4,088.97	67.83	61.279	
17,600.00	7,630.00	7,665.73	7,574.44	154.56	30.32	85.10	-3,621.22	1,132.86	4,256.19	4,188.31	67.88	62.704	
17,700.00	7,630.00	7,664.87	7,573.58	156.27	30.31	84.99	-3,621.23	1,132.85	4,355.61	4,287.69	67.92	64.125	
17,800.00	7,630.00	7,664.02	7,572.73	157.98	30.31	84.89	-3,621.24	1,132.85	4,455.06	4,387.09	67.97	65.543	
17,900.00	7,630.00	7,663.17	7,571.88	159.70	30.31	84.78	-3,621.25	1,132.85	4,554.53	4,486.51	68.02	66.957	
18,000.00	7,630.00	7,662.32	7,571.03	161.41	30.30	84.68	-3,621.25	1,132.84	4,654.02	4,585.95	68.07	68.369	
18,100.00	7,630.00	7,661.48	7,570.19	163.12	30.30	84.57	-3,621.26	1,132.84	4,753.54	4,685.41	68.12	69.777	
18,154.00	7,630.00	7,661.03	7,569.74	164.05	30.30	84.52	-3,621.27	1,132.83	4,807.29	4,739.13	68.15	70.536	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	174.38	-4,029.75	396.55	4,049.25				
100.00	100.00	96.24	96.24	0.13	0.16	174.38	-4,029.59	396.76	4,049.10	4,048.81	0.29	N/A	
200.00	200.00	244.84	244.82	0.49	0.69	174.35	-4,028.05	398.73	4,048.20	4,047.01	1.19	3,414.482	
300.00	300.00	305.00	304.94	0.85	0.91	174.32	-4,026.85	400.25	4,046.74	4,044.98	1.76	2,300.338	
320.94	320.94	305.00	304.94	0.93	0.91	174.32	-4,026.85	400.25	4,046.69	4,044.85	1.83	2,205.965	
400.00	400.00	305.00	304.94	1.21	0.91	174.32	-4,026.85	400.25	4,047.46	4,045.34	2.12	1,908.697	
431.73	431.73	386.59	386.48	1.32	1.21	174.28	-4,026.03	403.25	4,046.28	4,043.75	2.53	1,599.912	
500.00	500.00	415.70	415.55	1.57	1.31	174.26	-4,026.24	404.64	4,047.10	4,044.22	2.88	1,405.145	
600.00	600.00	458.29	458.06	1.93	1.47	174.23	-4,027.03	406.99	4,049.50	4,046.11	3.39	1,192.960	
700.00	700.00	500.81	500.47	2.29	1.63	174.19	-4,028.39	409.68	4,053.32	4,049.42	3.91	1,037.207	
800.00	800.00	543.23	542.75	2.64	1.78	174.15	-4,030.30	412.73	4,058.56	4,054.14	4.42	918.298	
900.00	900.00	639.00	637.94	3.00	2.13	174.05	-4,036.70	420.93	4,066.04	4,060.92	5.12	793.874	
1,000.00	1,000.00	639.00	637.94	3.36	2.13	174.05	-4,036.70	420.93	4,073.31	4,067.84	5.48	743.800	
1,100.00	1,100.00	673.00	671.66	3.72	2.27	174.01	-4,039.63	424.21	4,082.72	4,076.76	5.96	685.272	
1,200.00	1,200.00	731.00	729.08	4.08	2.50	173.93	-4,045.36	430.02	4,093.51	4,086.98	6.53	627.231	
1,300.00	1,300.00	731.00	729.08	4.44	2.50	173.93	-4,045.36	430.02	4,105.82	4,098.95	6.87	597.663	
1,400.00	1,400.00	792.03	789.29	4.79	2.75	173.85	-4,052.63	436.74	4,119.25	4,111.80	7.45	552.738	
1,500.00	1,499.98	825.00	821.70	5.15	2.89	135.77	-4,057.19	440.77	4,135.69	4,127.77	7.92	522.195	
1,600.00	1,599.84	863.99	859.90	5.51	3.07	135.43	-4,063.14	445.86	4,156.08	4,147.66	8.42	493.862	
1,700.00	1,699.45	920.00	914.53	5.87	3.32	135.04	-4,072.63	453.73	4,180.42	4,171.44	8.98	465.548	
1,800.00	1,798.70	920.00	914.53	6.23	3.32	134.62	-4,072.63	453.73	4,208.39	4,199.09	9.30	452.325	
1,900.00	1,897.47	972.53	965.52	6.60	3.58	134.13	-4,082.59	461.51	4,239.99	4,230.13	9.86	430.049	
2,000.00	1,995.62	1,014.00	1,005.60	6.99	3.78	133.60	-4,091.19	467.78	4,275.29	4,264.93	10.37	412.415	
2,100.00	2,093.06	1,051.61	1,041.83	7.39	3.98	133.01	-4,099.44	473.57	4,313.99	4,303.12	10.87	397.025	
2,200.00	2,189.64	1,108.00	1,096.00	7.82	4.28	132.39	-4,112.38	482.41	4,355.87	4,344.41	11.46	380.201	
2,300.00	2,285.27	1,215.51	1,199.28	8.28	4.87	131.81	-4,137.55	498.46	4,400.38	4,388.08	12.30	357.628	
2,400.00	2,379.82	1,317.56	1,297.63	8.77	5.43	131.23	-4,160.18	513.58	4,445.72	4,432.57	13.15	338.082	
2,500.00	2,473.17	1,369.00	1,347.05	9.31	5.72	130.51	-4,171.93	521.73	4,493.87	4,480.10	13.77	326.390	
2,600.00	2,565.21	1,483.64	1,457.00	9.88	6.39	129.90	-4,197.96	541.10	4,544.07	4,529.33	14.74	308.386	
2,660.67	2,620.37	1,531.35	1,502.75	10.25	6.67	129.46	-4,208.62	549.39	4,575.33	4,560.10	15.22	300.530	
2,700.00	2,655.96	1,562.07	1,532.21	10.50	6.85	129.55	-4,215.50	554.75	4,595.85	4,580.31	15.54	295.690	
2,800.00	2,746.43	1,625.37	1,592.85	11.15	7.23	129.72	-4,229.81	565.95	4,648.28	4,632.00	16.28	285.447	
2,900.00	2,836.90	1,698.19	1,662.50	11.82	7.67	129.91	-4,246.51	579.07	4,701.07	4,683.98	17.09	275.090	
3,000.00	2,927.37	1,822.03	1,781.01	12.50	8.42	130.23	-4,274.72	601.38	4,753.86	4,735.67	18.19	261.354	
3,100.00	3,017.85	1,901.74	1,857.35	13.21	8.90	130.42	-4,292.30	616.06	4,806.03	4,786.97	19.06	252.184	
3,200.00	3,108.32	1,994.69	1,946.55	13.92	9.45	130.66	-4,313.11	631.90	4,858.43	4,838.43	20.00	242.881	
3,300.00	3,198.79	2,094.03	2,042.01	14.64	10.05	130.91	-4,334.97	648.52	4,910.49	4,889.50	20.99	233.942	
3,400.00	3,289.27	2,150.70	2,096.44	15.38	10.39	131.04	-4,347.42	658.24	4,962.66	4,940.92	21.75	228.207	
3,500.00	3,379.74	2,189.44	2,133.53	16.12	10.62	131.14	-4,356.25	665.10	5,015.58	4,993.18	22.40	223.885	
3,600.00	3,470.21	2,246.68	2,188.17	16.87	10.98	131.26	-4,369.78	675.50	5,069.25	5,046.09	23.17	218.808	
3,700.00	3,560.68	2,356.10	2,292.79	17.62	11.66	131.51	-4,395.42	694.73	5,122.79	5,098.55	24.25	211.283	
3,800.00	3,651.16	3,800.00	2,413.29	18.39	20.49	131.79	-4,424.01	717.05	5,175.74	5,144.02	31.72	163.167	
3,900.00	3,741.63	2,552.48	2,480.91	19.15	12.86	131.94	-4,439.71	729.58	5,228.41	5,202.13	26.28	198.913	
4,000.00	3,832.10	2,595.50	2,522.02	19.92	13.13	132.03	-4,449.60	737.50	5,281.75	5,254.78	26.98	195.799	
4,100.00	3,922.57	2,767.24	2,686.40	20.69	14.19	132.37	-4,488.18	768.89	5,334.58	5,306.12	28.46	187.425	
4,200.00	4,013.05	2,863.71	2,778.99	21.47	14.77	132.56	-4,509.05	786.12	5,386.79	5,357.30	29.49	182.692	
4,300.00	4,103.52	2,923.13	2,836.05	22.25	15.13	132.68	-4,521.98	796.50	5,439.12	5,408.84	30.28	179.619	
4,400.00	4,193.99	2,981.82	2,892.33	23.03	15.49	132.79	-4,535.08	806.80	5,491.95	5,460.88	31.07	176.752	
4,500.00	4,284.47	3,082.33	2,988.71	23.81	16.11	132.99	-4,557.54	824.34	5,544.84	5,512.72	32.12	172.608	
4,600.00	4,374.94	3,139.86	3,043.84	24.60	16.46	133.10	-4,570.48	834.48	5,597.89	5,564.98	32.91	170.106	
4,700.00	4,465.41	3,214.86	3,115.65	25.39	16.92	133.23	-4,587.54	847.83	5,651.20	5,617.39	33.80	167.175	
4,800.00	4,555.88	3,352.12	3,247.15	26.18	17.77	133.48	-4,618.38	872.27	5,704.39	5,669.29	35.10	162.509	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 92-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,646.36	3,425.47	3,317.45	26.97	18.22	133.61	-4,634.46	885.61	5,757.09	5,721.09	35.99	159.946	
5,000.00	4,736.83	3,498.46	3,387.34	27.76	18.67	133.72	-4,650.58	899.19	5,809.97	5,773.08	36.89	157.514	
5,100.00	4,827.30	3,564.10	3,450.16	28.55	19.08	133.83	-4,665.22	911.28	5,863.05	5,825.32	37.73	155.404	
5,200.00	4,917.77	3,618.61	3,502.32	29.35	19.42	133.92	-4,677.62	921.14	5,916.53	5,878.03	38.49	153.701	
5,300.00	5,008.25	3,809.90	3,685.69	30.15	20.59	134.24	-4,720.36	954.92	5,969.88	5,929.72	40.16	148.653	
5,400.00	5,098.72	3,869.43	3,742.94	30.94	20.95	134.34	-4,733.07	965.18	6,022.19	5,981.23	40.96	147.036	
5,500.00	5,189.19	3,919.00	3,790.53	31.74	21.25	134.42	-4,743.98	973.73	6,075.04	6,033.36	41.69	145.732	
5,600.00	5,279.67	3,956.50	3,826.49	32.54	21.48	134.48	-4,752.48	980.09	6,128.48	6,086.15	42.33	144.778	
5,700.00	5,370.14	5,531.84	5,374.54	33.34	28.25	137.89	-4,933.19	1,125.27	6,174.00	6,123.49	50.51	122.238	
5,800.00	5,460.61	5,622.38	5,465.07	34.14	28.47	138.14	-4,932.89	1,125.90	6,206.72	6,155.37	51.35	120.874	
5,900.00	5,551.08	5,724.58	5,567.27	34.94	28.71	138.41	-4,932.44	1,126.59	6,239.45	6,187.23	52.22	119.481	
6,000.00	5,641.56	5,814.39	5,657.08	35.75	28.93	138.65	-4,931.99	1,127.23	6,272.24	6,219.19	53.06	118.220	
6,100.00	5,732.03	5,921.03	5,763.72	36.55	29.19	138.94	-4,931.31	1,127.85	6,305.02	6,251.08	53.94	116.897	
6,200.00	5,822.50	6,028.70	5,871.37	37.35	29.44	139.22	-4,930.34	1,128.32	6,337.65	6,282.84	54.81	115.621	
6,300.00	5,912.97	6,132.95	5,975.62	38.16	29.68	139.49	-4,929.17	1,128.75	6,370.19	6,314.51	55.68	114.410	
6,400.00	6,003.45	6,230.70	6,073.36	38.96	29.91	139.74	-4,927.88	1,129.13	6,402.66	6,346.14	56.52	113.278	
6,500.00	6,093.92	6,342.35	6,185.00	39.77	30.18	140.03	-4,926.29	1,129.61	6,435.15	6,377.74	57.41	112.098	
6,600.00	6,184.39	6,469.10	6,311.72	40.57	30.48	140.35	-4,923.82	1,130.29	6,467.24	6,408.90	58.34	110.864	
6,700.00	6,274.87	6,525.11	6,367.72	41.38	30.62	140.48	-4,922.73	1,130.67	6,499.44	6,440.38	59.05	110.062	
6,800.00	6,365.34	6,585.96	6,428.56	42.18	30.77	140.63	-4,921.89	1,131.35	6,532.22	6,472.44	59.78	109.266	
6,900.00	6,455.81	6,659.59	6,502.19	42.99	30.96	140.81	-4,921.11	1,132.26	6,565.41	6,504.86	60.55	108.421	
7,000.00	6,546.28	6,741.40	6,583.98	43.80	31.18	141.00	-4,920.41	1,133.34	6,598.87	6,537.52	61.35	107.553	
7,100.00	6,636.76	6,848.55	6,691.12	44.61	31.46	141.25	-4,919.48	1,134.94	6,632.40	6,570.16	62.24	106.560	
7,200.00	6,727.23	6,969.01	6,811.55	45.41	31.78	141.53	-4,917.91	1,136.89	6,665.59	6,602.43	63.17	105.520	
7,300.00	6,817.70	7,062.60	6,905.13	46.22	32.02	141.75	-4,916.56	1,137.32	6,698.81	6,634.81	63.99	104.682	
7,383.79	6,893.51	7,182.61	7,025.12	46.90	32.31	142.03	-4,914.30	1,137.29	6,726.38	6,661.58	64.80	103.794	
7,400.00	6,908.25	7,205.55	7,048.05	47.03	32.37	139.72	-4,913.79	1,137.25	6,731.45	6,666.49	64.96	103.624	
7,450.00	6,954.52	7,285.39	7,127.86	47.40	32.56	130.88	-4,911.73	1,136.96	6,744.20	6,678.73	65.46	103.022	
7,500.00	7,001.74	7,341.55	7,184.00	47.72	32.70	118.83	-4,910.06	1,136.58	6,752.52	6,686.63	65.89	102.484	
7,550.00	7,049.55	7,379.41	7,221.85	47.99	32.79	103.44	-4,908.97	1,136.31	6,756.59	6,690.34	66.25	101.989	
7,600.00	7,097.58	7,414.00	7,256.42	48.21	32.87	86.28	-4,908.01	1,136.05	6,756.41	6,689.83	66.58	101.473	
7,650.00	7,145.48	7,438.06	7,280.47	48.37	32.93	70.26	-4,907.42	1,135.89	6,752.05	6,685.18	66.87	100.974	
7,700.00	7,192.88	7,459.92	7,302.33	48.48	32.99	57.38	-4,906.96	1,135.78	6,743.57	6,676.45	67.13	100.460	
7,750.00	7,239.41	7,481.40	7,323.81	48.54	33.04	47.84	-4,906.60	1,135.70	6,731.05	6,663.68	67.36	99.922	
7,800.00	7,284.72	7,508.00	7,350.40	48.56	33.11	40.95	-4,906.26	1,135.65	6,714.55	6,646.96	67.60	99.333	
7,850.00	7,328.47	7,548.61	7,391.01	48.54	33.21	36.01	-4,905.81	1,135.66	6,694.13	6,626.26	67.86	98.645	
7,900.00	7,370.32	7,602.35	7,444.74	48.47	33.35	32.47	-4,905.14	1,135.81	6,669.77	6,601.62	68.15	97.864	
7,950.00	7,409.96	7,641.33	7,483.71	48.37	33.46	29.88	-4,904.62	1,136.04	6,641.70	6,573.32	68.38	97.122	
8,000.00	7,447.08	7,677.91	7,520.29	48.24	33.56	28.04	-4,904.15	1,136.36	6,610.17	6,541.58	68.59	96.367	
8,050.00	7,481.41	7,727.00	7,569.37	48.07	33.69	26.86	-4,903.49	1,136.96	6,575.40	6,506.56	68.84	95.524	
8,100.00	7,512.67	7,787.18	7,629.54	47.87	33.86	26.29	-4,902.46	1,137.90	6,537.53	6,468.42	69.11	94.603	
8,150.00	7,540.64	7,820.82	7,663.17	47.65	33.95	26.16	-4,901.80	1,138.51	6,496.92	6,427.64	69.27	93.787	
8,200.00	7,565.09	7,849.05	7,691.38	47.40	34.03	26.61	-4,901.22	1,139.04	6,453.93	6,384.52	69.41	92.979	
8,250.00	7,585.85	7,872.75	7,715.07	47.14	34.10	27.83	-4,900.73	1,139.51	6,408.91	6,339.38	69.53	92.173	
8,300.00	7,602.75	7,891.75	7,734.06	46.86	34.15	30.23	-4,900.32	1,139.89	6,362.19	6,292.56	69.63	91.375	
8,350.00	7,615.67	7,896.40	7,738.71	46.58	34.16	34.67	-4,900.22	1,139.98	6,314.15	6,244.48	69.67	90.630	
8,400.00	7,624.51	7,901.49	7,743.81	46.28	34.18	44.35	-4,900.12	1,140.07	6,265.14	6,195.43	69.71	89.872	
8,450.00	7,629.19	7,903.89	7,746.21	45.98	34.18	70.78	-4,900.07	1,140.11	6,215.53	6,145.79	69.74	89.118	
8,481.00	7,630.00	7,904.01	7,746.33	45.79	34.18	106.40	-4,900.07	1,140.11	6,184.64	6,114.87	69.76	88.654	
8,500.00	7,630.00	7,903.76	7,746.08	45.68	34.18	106.37	-4,900.07	1,140.11	6,165.69	6,095.92	69.77	88.371	
8,600.00	7,630.00	7,902.44	7,744.76	45.11	34.18	106.22	-4,900.10	1,140.09	6,065.99	5,996.17	69.82	86.881	
8,700.00	7,630.00	7,901.11	7,743.42	44.56	34.17	106.06	-4,900.13	1,140.06	5,966.29	5,896.42	69.87	85.389	

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

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 92-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,800.00	7,630.00	7,899.76	7,742.07	44.05	34.17	105.90	-4,900.15	1,140.04	5,866.60	5,796.68	69.93	83.897	
8,900.00	7,630.00	7,898.40	7,740.71	43.57	34.17	105.74	-4,900.18	1,140.01	5,766.93	5,696.94	69.98	82.403	
9,000.00	7,630.00	7,897.02	7,739.34	43.12	34.16	105.58	-4,900.21	1,139.99	5,667.26	5,597.21	70.05	80.908	
9,100.00	7,630.00	7,903.42	7,745.74	42.70	34.18	106.33	-4,900.06	1,140.14	5,567.59	5,497.45	70.14	79.376	
9,200.00	7,630.00	7,900.87	7,743.18	42.31	34.17	106.03	-4,900.12	1,140.08	5,467.95	5,397.75	70.21	77.884	
9,300.00	7,630.00	7,898.32	7,740.64	41.94	34.17	105.73	-4,900.17	1,140.03	5,368.33	5,298.05	70.27	76.391	
9,400.00	7,630.00	7,895.79	7,738.11	41.59	34.16	105.43	-4,900.23	1,139.98	5,268.71	5,198.37	70.35	74.897	
9,500.00	7,630.00	7,893.28	7,735.59	41.26	34.15	105.13	-4,900.28	1,139.92	5,169.11	5,098.69	70.42	73.402	
9,600.00	7,630.00	7,890.77	7,733.09	40.96	34.15	104.83	-4,900.34	1,139.87	5,069.53	4,999.03	70.50	71.906	
9,700.00	7,630.00	7,888.28	7,730.60	40.68	34.14	104.53	-4,900.39	1,139.82	4,969.96	4,899.37	70.59	70.409	
9,800.00	7,630.00	7,885.80	7,728.12	40.42	34.13	104.23	-4,900.45	1,139.77	4,870.40	4,799.73	70.68	68.911	
9,900.00	7,630.00	7,883.34	7,725.66	40.17	34.13	103.94	-4,900.50	1,139.72	4,770.87	4,700.10	70.77	67.412	
10,000.00	7,630.00	7,880.89	7,723.21	39.96	34.12	103.64	-4,900.55	1,139.67	4,671.35	4,600.48	70.87	65.913	
10,100.00	7,630.00	7,878.45	7,720.77	40.05	34.11	103.35	-4,900.60	1,139.62	4,571.85	4,500.88	70.98	64.412	
10,200.00	7,630.00	7,876.02	7,718.35	40.95	34.10	103.05	-4,900.66	1,139.57	4,472.38	4,401.29	71.09	62.911	
10,300.00	7,630.00	7,873.61	7,715.93	41.94	34.10	102.76	-4,900.71	1,139.52	4,372.92	4,301.71	71.21	61.409	
10,400.00	7,630.00	7,871.21	7,713.53	42.98	34.09	102.47	-4,900.76	1,139.48	4,273.50	4,202.16	71.34	59.907	
10,500.00	7,630.00	7,868.82	7,711.14	44.06	34.08	102.18	-4,900.81	1,139.43	4,174.09	4,102.62	71.47	58.404	
10,600.00	7,630.00	7,866.44	7,708.77	45.17	34.08	101.89	-4,900.86	1,139.38	4,074.72	4,003.11	71.61	56.901	
10,700.00	7,630.00	7,864.07	7,706.40	46.32	34.07	101.60	-4,900.91	1,139.33	3,975.37	3,903.61	71.76	55.397	
10,800.00	7,630.00	7,861.72	7,704.05	47.50	34.07	101.31	-4,900.96	1,139.29	3,876.06	3,804.14	71.92	53.893	
10,900.00	7,630.00	7,859.38	7,701.71	48.70	34.06	101.02	-4,901.01	1,139.24	3,776.78	3,704.69	72.09	52.389	
11,000.00	7,630.00	7,857.05	7,699.38	49.94	34.05	100.73	-4,901.06	1,139.20	3,677.54	3,605.27	72.27	50.885	
11,100.00	7,630.00	7,854.73	7,697.07	51.20	34.05	100.45	-4,901.11	1,139.15	3,578.34	3,505.88	72.47	49.380	
11,200.00	7,630.00	7,852.43	7,694.76	52.48	34.04	100.16	-4,901.15	1,139.11	3,479.19	3,406.52	72.67	47.875	
11,300.00	7,630.00	7,850.13	7,692.47	53.79	34.03	99.88	-4,901.20	1,139.06	3,380.08	3,307.19	72.89	46.371	
11,400.00	7,630.00	7,847.85	7,690.19	55.12	34.03	99.60	-4,901.25	1,139.02	3,281.03	3,207.90	73.13	44.866	
11,500.00	7,630.00	7,845.58	7,687.92	56.46	34.02	99.31	-4,901.30	1,138.97	3,182.03	3,108.65	73.38	43.362	
11,600.00	7,630.00	7,843.32	7,685.66	57.83	34.01	99.03	-4,901.34	1,138.93	3,083.10	3,009.45	73.66	41.858	
11,700.00	7,630.00	7,841.07	7,683.41	59.22	34.01	98.75	-4,901.39	1,138.89	2,984.24	2,910.29	73.95	40.355	
11,800.00	7,630.00	7,838.83	7,681.17	60.62	34.00	98.48	-4,901.43	1,138.85	2,885.45	2,811.19	74.27	38.852	
11,900.00	7,630.00	7,836.61	7,678.95	62.04	34.00	98.20	-4,901.48	1,138.80	2,786.75	2,712.14	74.61	37.351	
12,000.00	7,630.00	7,834.39	7,676.73	63.48	33.99	97.92	-4,901.53	1,138.76	2,688.15	2,613.16	74.98	35.850	
12,100.00	7,630.00	7,832.19	7,674.53	64.93	33.98	97.65	-4,901.57	1,138.72	2,589.65	2,514.26	75.39	34.351	
12,200.00	7,630.00	7,829.99	7,672.34	66.39	33.98	97.37	-4,901.61	1,138.68	2,491.26	2,415.43	75.83	32.853	
12,300.00	7,630.00	7,827.81	7,670.16	67.86	33.97	97.10	-4,901.66	1,138.64	2,393.01	2,316.70	76.31	31.357	
12,400.00	7,630.00	7,825.64	7,667.98	69.35	33.97	96.83	-4,901.70	1,138.60	2,294.91	2,218.06	76.85	29.864	
12,500.00	7,630.00	7,823.48	7,665.82	70.85	33.96	96.55	-4,901.75	1,138.56	2,196.98	2,119.54	77.43	28.373	
12,600.00	7,630.00	7,821.33	7,663.67	72.36	33.95	96.28	-4,901.79	1,138.52	2,099.24	2,021.16	78.08	26.886	
12,700.00	7,630.00	7,819.19	7,661.53	73.88	33.95	96.01	-4,901.83	1,138.48	2,001.72	1,922.92	78.80	25.403	
12,800.00	7,630.00	7,817.05	7,659.40	75.41	33.94	95.75	-4,901.88	1,138.44	1,904.45	1,824.85	79.60	23.926	
12,900.00	7,630.00	7,814.93	7,657.28	76.95	33.94	95.48	-4,901.92	1,138.40	1,807.48	1,726.99	80.50	22.454	
13,000.00	7,630.00	7,812.82	7,655.17	78.49	33.93	95.21	-4,901.96	1,138.36	1,710.86	1,629.35	81.51	20.990	
13,100.00	7,630.00	7,810.73	7,653.08	80.05	33.92	94.95	-4,902.00	1,138.32	1,614.65	1,531.99	82.66	19.535	
13,200.00	7,630.00	7,808.64	7,650.99	81.61	33.92	94.68	-4,902.04	1,138.28	1,518.92	1,434.96	83.96	18.091	
13,300.00	7,630.00	7,806.56	7,648.91	83.18	33.91	94.42	-4,902.08	1,138.25	1,423.78	1,338.33	85.46	16.661	
13,400.00	7,630.00	7,805.70	7,648.05	84.76	33.91	94.31	-4,902.10	1,138.23	1,329.35	1,242.15	87.20	15.245	
13,500.00	7,630.00	7,803.39	7,645.74	86.34	33.90	94.02	-4,902.14	1,138.19	1,235.79	1,146.60	89.19	13.855	
13,600.00	7,630.00	7,801.12	7,643.47	87.94	33.90	93.73	-4,902.19	1,138.15	1,143.32	1,051.80	91.53	12.492	
13,700.00	7,630.00	7,798.88	7,641.24	89.53	33.89	93.45	-4,902.23	1,138.11	1,052.23	957.96	94.26	11.163	
13,800.00	7,630.00	7,796.68	7,639.04	91.13	33.88	93.17	-4,902.28	1,138.07	962.90	865.40	97.50	9.876	
13,900.00	7,630.00	7,794.52	7,636.87	92.74	33.88	92.90	-4,902.32	1,138.03	875.87	774.55	101.32	8.645	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,000.00	7,630.00	7,792.38	7,634.74	94.35	33.87	92.63	-4,902.36	1,137.99	791.91	686.07	105.84	7.482	
14,100.00	7,630.00	7,790.28	7,632.64	95.97	33.87	92.36	-4,902.40	1,137.96	712.10	600.97	111.13	6.408	
14,200.00	7,630.00	7,788.21	7,630.57	97.60	33.86	92.10	-4,902.44	1,137.92	638.00	520.83	117.17	5.445	
14,300.00	7,630.00	7,786.17	7,628.53	99.22	33.86	91.84	-4,902.48	1,137.88	571.83	448.11	123.72	4.622	
14,400.00	7,630.00	7,784.17	7,626.53	100.85	33.85	91.59	-4,902.52	1,137.85	516.65	386.58	130.07	3.972	
14,500.00	7,630.00	7,782.19	7,624.55	102.49	33.84	91.34	-4,902.56	1,137.82	476.30	341.44	134.86	3.532	
14,600.00	7,630.00	7,780.24	7,622.60	104.13	33.84	91.09	-4,902.59	1,137.78	454.74	318.45	136.29	3.337	SF
14,650.41	7,630.00	7,779.27	7,621.63	104.96	33.84	90.97	-4,902.61	1,137.77	451.94	316.63	135.30	3.340	CC, ES
14,700.00	7,630.00	7,778.32	7,620.68	105.77	33.83	90.85	-4,902.63	1,137.75	454.65	321.45	133.20	3.413	
14,800.00	7,630.00	7,776.42	7,618.79	107.42	33.83	90.61	-4,902.67	1,137.72	476.04	349.85	126.19	3.772	
14,900.00	7,630.00	7,774.56	7,616.92	109.07	33.82	90.37	-4,902.70	1,137.69	516.25	399.03	117.23	4.404	
15,000.00	7,630.00	7,772.72	7,615.08	110.72	33.82	90.14	-4,902.73	1,137.66	571.33	463.10	108.22	5.279	
15,100.00	7,630.00	7,770.90	7,613.27	112.38	33.81	89.91	-4,902.77	1,137.63	637.42	537.19	100.23	6.360	
15,200.00	7,630.00	7,769.11	7,611.48	114.04	33.81	89.68	-4,902.80	1,137.60	711.47	617.89	93.58	7.603	
15,300.00	7,630.00	7,767.35	7,609.72	115.71	33.80	89.46	-4,902.83	1,137.57	791.24	703.03	88.21	8.970	
15,400.00	7,630.00	7,765.61	7,607.98	117.37	33.80	89.24	-4,902.86	1,137.54	875.18	791.23	83.94	10.426	
15,500.00	7,630.00	7,763.90	7,606.26	119.04	33.79	89.02	-4,902.89	1,137.51	962.19	881.62	80.57	11.943	
15,600.00	7,630.00	7,762.20	7,604.57	120.71	33.79	88.81	-4,902.92	1,137.49	1,051.50	973.61	77.89	13.499	
15,700.00	7,630.00	7,760.54	7,602.90	122.39	33.79	88.59	-4,902.95	1,137.46	1,142.59	1,066.82	75.77	15.079	
15,800.00	7,630.00	7,758.89	7,601.26	124.06	33.78	88.39	-4,902.98	1,137.43	1,235.05	1,160.97	74.09	16.671	
15,900.00	7,630.00	7,757.26	7,599.63	125.74	33.78	88.18	-4,903.01	1,137.41	1,328.61	1,255.87	72.74	18.266	
16,000.00	7,630.00	7,755.66	7,598.03	127.42	33.77	87.98	-4,903.03	1,137.38	1,423.04	1,351.38	71.66	19.859	
16,100.00	7,630.00	7,754.08	7,596.45	129.10	33.77	87.78	-4,903.06	1,137.36	1,518.18	1,447.39	70.79	21.447	
16,200.00	7,630.00	7,752.52	7,594.89	130.79	33.76	87.58	-4,903.09	1,137.33	1,613.91	1,543.82	70.09	23.027	
16,300.00	7,630.00	7,750.98	7,593.35	132.48	33.76	87.39	-4,903.11	1,137.31	1,710.12	1,640.60	69.52	24.598	
16,400.00	7,630.00	7,749.46	7,591.83	134.17	33.75	87.19	-4,903.14	1,137.29	1,806.74	1,737.68	69.07	26.160	
16,500.00	7,630.00	7,747.96	7,590.33	135.86	33.75	87.00	-4,903.16	1,137.27	1,903.72	1,835.02	68.70	27.712	
16,600.00	7,630.00	7,746.47	7,588.84	137.55	33.75	86.82	-4,903.19	1,137.24	2,000.99	1,932.58	68.40	29.254	
16,700.00	7,630.00	7,745.01	7,587.38	139.24	33.74	86.63	-4,903.21	1,137.22	2,098.51	2,030.35	68.16	30.787	
16,800.00	7,630.00	7,743.57	7,585.94	140.94	33.74	86.45	-4,903.23	1,137.20	2,196.26	2,128.28	67.97	32.311	
16,900.00	7,630.00	7,742.14	7,584.51	142.64	33.73	86.27	-4,903.26	1,137.18	2,294.19	2,226.37	67.82	33.826	
17,000.00	7,630.00	7,740.73	7,583.10	144.34	33.73	86.09	-4,903.28	1,137.16	2,392.30	2,324.60	67.71	35.334	
17,100.00	7,630.00	7,739.34	7,581.71	146.04	33.73	85.92	-4,903.30	1,137.14	2,490.56	2,422.94	67.62	36.833	
17,200.00	7,630.00	7,737.96	7,580.34	147.74	33.72	85.75	-4,903.32	1,137.12	2,588.95	2,521.40	67.55	38.325	
17,300.00	7,630.00	7,736.61	7,578.98	149.44	33.72	85.57	-4,903.34	1,137.10	2,687.46	2,619.95	67.51	39.810	
17,400.00	7,630.00	7,735.26	7,577.64	151.15	33.72	85.41	-4,903.36	1,137.08	2,786.08	2,718.60	67.48	41.289	
17,500.00	7,630.00	7,733.94	7,576.31	152.86	33.71	85.24	-4,903.38	1,137.06	2,884.78	2,817.32	67.46	42.761	
17,600.00	7,630.00	7,732.63	7,575.00	154.56	33.71	85.08	-4,903.40	1,137.04	2,983.58	2,916.12	67.46	44.227	
17,700.00	7,630.00	7,731.34	7,573.71	156.27	33.70	84.91	-4,903.42	1,137.02	3,082.45	3,014.98	67.47	45.687	
17,800.00	7,630.00	7,730.06	7,572.43	157.98	33.70	84.75	-4,903.44	1,137.01	3,181.39	3,113.91	67.49	47.142	
17,900.00	7,630.00	7,728.80	7,571.17	159.70	33.70	84.59	-4,903.46	1,136.99	3,280.40	3,212.89	67.51	48.591	
18,000.00	7,630.00	7,727.55	7,569.92	161.41	33.69	84.44	-4,903.48	1,136.97	3,379.46	3,311.92	67.54	50.036	
18,100.00	7,630.00	7,726.31	7,568.69	163.12	33.69	84.28	-4,903.50	1,136.95	3,478.58	3,411.00	67.58	51.475	
18,154.00	7,630.00	7,725.65	7,568.03	164.05	33.69	84.20	-4,903.51	1,136.94	3,532.12	3,464.52	67.60	52.250	

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

Offset Design SEC 23-T1N-R68W - ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 100-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	134.19	-2,139.73	2,201.29	3,070.28				
100.00	100.00	51.06	51.06	0.13	0.08	134.19	-2,139.68	2,201.33	3,069.87	3,069.65	0.22	N/A	
200.00	200.00	157.25	157.25	0.49	0.36	134.18	-2,139.27	2,201.57	3,069.76	3,068.91	0.86	3,584.073	
300.00	300.00	257.24	257.24	0.85	0.71	134.17	-2,138.94	2,201.48	3,069.46	3,067.90	1.57	1,960.423	
400.00	400.00	352.69	352.69	1.21	1.04	134.18	-2,139.04	2,201.18	3,069.32	3,067.06	2.25	1,361.477	
500.00	500.00	453.27	453.27	1.57	1.39	134.19	-2,139.24	2,200.89	3,069.25	3,066.28	2.96	1,035.771	
600.00	600.00	555.21	555.20	1.93	1.75	134.20	-2,139.63	2,200.29	3,069.09	3,065.41	3.68	833.713	
700.00	700.00	657.32	657.32	2.29	2.12	134.21	-2,140.07	2,199.60	3,068.90	3,064.50	4.40	697.109	
800.00	800.00	767.85	767.84	2.64	2.51	134.23	-2,140.57	2,198.54	3,068.54	3,063.39	5.15	595.257	
900.00	900.00	870.84	870.82	3.00	2.88	134.26	-2,141.02	2,197.12	3,067.85	3,061.97	5.88	521.582	
1,000.00	1,000.00	959.17	959.14	3.36	3.20	134.28	-2,141.57	2,195.91	3,067.32	3,060.76	6.56	467.840	
1,100.00	1,100.00	1,050.28	1,050.23	3.72	3.52	134.31	-2,142.51	2,194.88	3,067.22	3,059.98	7.24	423.623	
1,200.00	1,200.00	1,157.55	1,157.49	4.08	3.91	134.34	-2,143.74	2,193.60	3,067.17	3,059.19	7.98	384.225	
1,300.00	1,300.00	1,263.85	1,263.78	4.44	4.29	134.38	-2,144.74	2,192.01	3,066.76	3,058.04	8.72	351.587	
1,400.00	1,400.00	1,363.41	1,363.31	4.79	4.64	134.41	-2,145.82	2,190.34	3,066.32	3,056.88	9.44	324.861	
1,500.00	1,499.98	1,465.32	1,465.20	5.15	5.01	96.68	-2,146.97	2,188.57	3,066.07	3,055.91	10.16	301.728	
1,529.81	1,529.77	1,496.14	1,496.01	5.26	5.12	96.72	-2,147.31	2,188.02	3,066.06	3,055.68	10.38	295.426	
1,600.00	1,599.84	1,564.90	1,564.76	5.51	5.37	96.81	-2,148.08	2,186.77	3,066.18	3,055.30	10.88	281.943	
1,700.00	1,699.45	1,662.27	1,662.11	5.87	5.72	97.00	-2,149.25	2,184.99	3,066.78	3,055.19	11.58	264.754	
1,800.00	1,798.70	1,762.22	1,762.04	6.23	6.08	97.24	-2,150.40	2,183.26	3,067.89	3,055.58	12.31	249.283	
1,900.00	1,897.47	1,869.07	1,868.86	6.60	6.46	97.56	-2,151.47	2,181.38	3,069.39	3,056.33	13.06	234.941	
2,000.00	1,995.62	1,975.23	1,975.00	6.99	6.85	97.93	-2,152.17	2,179.39	3,071.15	3,057.32	13.83	222.010	
2,100.00	2,093.06	2,075.79	2,075.54	7.39	7.21	98.34	-2,152.57	2,177.50	3,073.37	3,058.77	14.60	210.498	
2,200.00	2,189.64	2,175.92	2,175.65	7.82	7.57	98.78	-2,152.76	2,175.69	3,076.21	3,060.83	15.39	199.902	
2,300.00	2,285.27	2,279.08	2,278.80	8.28	7.93	99.29	-2,152.55	2,173.97	3,079.68	3,063.46	16.21	189.941	
2,400.00	2,379.82	2,367.43	2,367.14	8.77	8.25	99.75	-2,152.17	2,172.60	3,083.93	3,066.92	17.02	181.208	
2,500.00	2,473.17	2,454.70	2,454.40	9.31	8.56	100.23	-2,152.00	2,171.37	3,089.42	3,071.56	17.86	173.009	
2,600.00	2,565.21	2,566.23	2,565.91	9.88	8.96	100.92	-2,151.79	2,169.63	3,095.93	3,077.10	18.82	164.489	
2,660.67	2,620.37	2,633.83	2,633.50	10.25	9.20	101.36	-2,151.26	2,168.26	3,100.00	3,080.58	19.43	159.583	
2,700.00	2,655.96	2,671.08	2,670.74	10.50	9.33	101.65	-2,150.92	2,167.47	3,102.79	3,082.99	19.80	156.703	
2,800.00	2,746.43	2,797.11	2,796.73	11.15	9.78	102.64	-2,149.11	2,164.63	3,109.88	3,089.00	20.88	148.967	
2,900.00	2,836.90	2,892.17	2,891.73	11.82	10.11	103.38	-2,147.04	2,162.18	3,116.80	3,094.94	21.86	142.574	
3,000.00	2,927.37	2,966.63	2,966.15	12.50	10.38	103.96	-2,145.61	2,160.22	3,124.44	3,101.65	22.79	137.103	
3,100.00	3,017.85	3,045.10	3,044.59	13.21	10.65	104.56	-2,144.32	2,158.55	3,133.11	3,109.37	23.74	131.976	
3,200.00	3,108.32	3,126.84	3,126.31	13.92	10.94	105.18	-2,142.91	2,157.25	3,142.58	3,117.87	24.71	127.181	
3,300.00	3,198.79	3,204.72	3,204.17	14.64	11.21	105.77	-2,141.81	2,156.16	3,152.91	3,127.24	25.67	122.822	
3,400.00	3,289.27	3,279.70	3,279.15	15.38	11.48	106.34	-2,141.04	2,155.29	3,164.18	3,137.56	26.63	118.839	
3,500.00	3,379.74	3,356.21	3,355.65	16.12	11.75	106.91	-2,140.51	2,154.66	3,176.41	3,148.82	27.59	115.137	
3,600.00	3,470.21	3,438.38	3,437.82	16.87	12.04	107.52	-2,140.16	2,154.26	3,189.51	3,160.94	28.57	111.628	
3,700.00	3,560.68	3,527.51	3,526.95	17.62	12.36	108.18	-2,139.86	2,153.85	3,203.23	3,173.64	29.58	108.276	
3,800.00	3,651.16	3,617.43	3,616.87	18.39	12.68	108.84	-2,139.59	2,153.44	3,217.47	3,186.87	30.60	105.153	
3,900.00	3,741.63	3,707.65	3,707.08	19.15	13.00	109.49	-2,139.31	2,153.07	3,232.23	3,200.61	31.61	102.247	
4,000.00	3,832.10	3,797.41	3,796.85	19.92	13.31	110.14	-2,139.01	2,152.75	3,247.49	3,214.86	32.62	99.550	
4,100.00	3,922.57	3,883.51	3,882.94	20.69	13.62	110.75	-2,138.78	2,152.49	3,263.30	3,229.68	33.62	97.078	
4,200.00	4,013.05	3,978.15	3,977.58	21.47	13.96	111.42	-2,138.60	2,152.11	3,279.61	3,244.97	34.64	94.677	
4,300.00	4,103.52	4,076.81	4,076.24	22.25	14.31	112.12	-2,138.39	2,151.34	3,296.22	3,260.54	35.68	92.387	
4,400.00	4,193.99	4,181.26	4,180.68	23.03	14.68	112.86	-2,137.99	2,150.13	3,313.00	3,276.26	36.74	90.184	
4,500.00	4,284.47	4,283.01	4,282.41	23.81	15.05	113.57	-2,137.33	2,148.54	3,329.88	3,292.10	37.78	88.143	
4,600.00	4,374.94	4,377.38	4,376.77	24.60	15.39	114.23	-2,136.49	2,147.03	3,347.00	3,308.22	38.79	86.291	
4,700.00	4,465.41	4,467.02	4,466.39	25.39	15.71	114.85	-2,135.72	2,145.44	3,364.55	3,324.78	39.77	84.591	
4,800.00	4,555.88	4,577.94	4,577.28	26.18	16.10	115.62	-2,134.76	2,143.02	3,382.41	3,341.58	40.84	82.824	
4,900.00	4,646.36	4,673.94	4,673.24	26.97	16.45	116.28	-2,133.51	2,140.53	3,400.20	3,358.36	41.84	81.267	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,736.83	4,761.12	4,760.38	27.76	16.76	116.87	-2,132.40	2,138.25	3,418.46	3,375.66	42.80	79.866	
5,100.00	4,827.30	4,850.13	4,849.36	28.55	17.08	117.47	-2,131.33	2,135.99	3,437.25	3,393.48	43.77	78.536	
5,200.00	4,917.77	4,938.93	4,938.13	29.35	17.40	118.06	-2,130.21	2,133.85	3,456.47	3,411.75	44.72	77.284	
5,300.00	5,008.25	5,025.86	5,025.02	30.15	17.71	118.63	-2,129.20	2,131.79	3,476.22	3,430.55	45.67	76.117	
5,400.00	5,098.72	5,116.24	5,115.37	30.94	18.04	119.22	-2,128.15	2,129.72	3,496.41	3,449.79	46.62	74.994	
5,500.00	5,189.19	5,207.44	5,206.54	31.74	18.36	119.81	-2,127.07	2,127.68	3,517.01	3,469.44	47.57	73.928	
5,600.00	5,279.67	5,318.84	5,317.91	32.54	18.76	120.51	-2,125.19	2,125.68	3,537.73	3,489.13	48.60	72.796	
5,700.00	5,370.14	5,405.63	5,404.67	33.34	19.07	121.04	-2,123.40	2,124.55	3,558.66	3,509.14	49.52	71.866	
5,800.00	5,460.61	5,493.60	5,492.62	34.14	19.38	121.57	-2,121.51	2,123.75	3,579.99	3,529.55	50.44	70.980	
5,900.00	5,551.08	5,576.46	5,575.46	34.94	19.67	122.06	-2,119.74	2,123.34	3,601.80	3,550.47	51.33	70.171	
6,000.00	5,641.56	5,661.86	5,660.85	35.75	19.96	122.56	-2,118.03	2,123.15	3,624.14	3,571.92	52.22	69.395	
6,100.00	5,732.03	5,747.97	5,746.94	36.55	20.26	123.05	-2,116.41	2,123.01	3,646.94	3,593.82	53.12	68.658	
6,200.00	5,822.50	5,835.46	5,834.41	37.35	20.57	123.55	-2,114.88	2,122.88	3,670.18	3,616.17	54.01	67.952	
6,300.00	5,912.97	5,925.48	5,924.42	38.16	20.88	124.05	-2,113.34	2,122.76	3,693.78	3,638.87	54.91	67.269	
6,400.00	6,003.45	6,014.04	6,012.97	38.96	21.19	124.55	-2,111.87	2,122.63	3,717.73	3,661.93	55.80	66.627	
6,500.00	6,093.92	6,097.93	6,096.85	39.77	21.48	125.01	-2,110.59	2,122.52	3,742.11	3,685.44	56.66	66.042	
6,600.00	6,184.39	6,197.80	6,196.71	40.57	21.83	125.55	-2,109.05	2,122.37	3,766.77	3,709.18	57.59	65.407	
6,700.00	6,274.87	6,300.26	6,299.15	41.38	22.19	126.10	-2,107.20	2,122.15	3,791.48	3,732.96	58.52	64.786	
6,800.00	6,365.34	6,371.24	6,370.12	42.18	22.44	126.48	-2,105.99	2,122.02	3,816.58	3,757.26	59.32	64.341	
6,900.00	6,455.81	6,453.12	6,451.99	42.99	22.72	126.91	-2,104.96	2,121.93	3,842.36	3,782.21	60.15	63.875	
7,000.00	6,546.28	6,542.63	6,541.49	43.80	23.04	127.38	-2,103.90	2,121.80	3,868.50	3,807.48	61.02	63.399	
7,100.00	6,636.76	6,630.25	6,629.11	44.61	23.35	127.83	-2,102.91	2,121.64	3,894.94	3,833.07	61.87	62.953	
7,200.00	6,727.23	6,713.22	6,712.08	45.41	23.64	128.25	-2,102.09	2,121.51	3,921.79	3,859.09	62.70	62.552	
7,300.00	6,817.70	6,791.60	6,790.45	46.22	23.91	128.64	-2,101.47	2,121.67	3,949.14	3,885.64	63.49	62.196	
7,383.79	6,893.51	6,882.01	6,880.86	46.90	24.22	129.08	-2,100.70	2,122.24	3,972.26	3,907.99	64.27	61.808	
7,400.00	6,908.25	6,900.35	6,899.20	47.03	24.28	126.90	-2,100.49	2,122.38	3,976.50	3,912.08	64.42	61.727	
7,450.00	6,954.52	6,947.48	6,946.32	47.40	24.44	118.33	-2,099.92	2,122.77	3,986.82	3,921.98	64.84	61.485	
7,500.00	7,001.74	6,995.59	6,994.43	47.72	24.60	106.50	-2,099.33	2,123.19	3,992.95	3,927.69	65.26	61.188	
7,550.00	7,049.55	7,045.54	7,044.37	47.99	24.78	91.26	-2,098.70	2,123.64	3,994.83	3,929.16	65.66	60.837	
7,600.00	7,097.58	7,095.80	7,094.63	48.21	24.95	74.18	-2,098.03	2,124.12	3,992.42	3,926.37	66.05	60.443	
7,650.00	7,145.48	7,145.27	7,144.09	48.37	25.12	58.14	-2,097.35	2,124.62	3,985.75	3,919.34	66.41	60.013	
7,700.00	7,192.88	7,194.10	7,192.91	48.48	25.28	45.16	-2,096.65	2,125.11	3,974.86	3,908.11	66.75	59.549	
7,750.00	7,239.41	7,244.76	7,243.56	48.54	25.46	35.41	-2,095.89	2,125.64	3,959.81	3,892.74	67.07	59.039	
7,800.00	7,284.72	7,294.38	7,293.17	48.56	25.63	28.18	-2,095.09	2,126.21	3,940.70	3,873.33	67.37	58.496	
7,850.00	7,328.47	7,348.27	7,347.05	48.54	25.81	22.72	-2,094.10	2,126.91	3,917.62	3,849.96	67.66	57.899	
7,900.00	7,370.32	7,400.36	7,399.12	48.47	25.99	18.44	-2,092.98	2,127.69	3,890.72	3,822.79	67.93	57.272	
7,950.00	7,409.96	7,433.64	7,432.39	48.37	26.11	14.89	-2,092.25	2,128.20	3,860.30	3,792.19	68.11	56.681	
8,000.00	7,447.08	7,464.89	7,463.63	48.24	26.21	11.80	-2,091.61	2,128.65	3,826.65	3,758.40	68.25	56.065	
8,050.00	7,481.41	7,493.75	7,492.48	48.07	26.31	8.96	-2,091.07	2,129.03	3,790.02	3,721.64	68.38	55.429	
8,100.00	7,512.67	7,524.26	7,522.98	47.87	26.42	6.14	-2,090.52	2,129.40	3,750.65	3,682.15	68.50	54.758	
8,150.00	7,540.64	7,552.59	7,551.31	47.65	26.52	3.09	-2,090.01	2,129.70	3,708.81	3,640.22	68.59	54.068	
8,200.00	7,565.09	7,577.20	7,575.92	47.40	26.60	-0.53	-2,089.57	2,129.93	3,664.83	3,596.16	68.67	53.369	
8,250.00	7,585.85	7,597.91	7,596.62	47.14	26.67	-5.30	-2,089.19	2,130.10	3,619.02	3,550.30	68.72	52.663	
8,300.00	7,602.75	7,613.14	7,611.84	46.86	26.73	-12.27	-2,088.92	2,130.22	3,571.76	3,503.02	68.74	51.958	
8,350.00	7,615.67	7,624.42	7,623.13	46.58	26.77	-23.69	-2,088.72	2,130.31	3,523.41	3,454.66	68.75	51.253	
8,400.00	7,624.51	7,631.89	7,630.59	46.28	26.79	-43.99	-2,088.58	2,130.37	3,474.33	3,405.60	68.73	50.550	
8,450.00	7,629.19	7,635.47	7,634.17	45.98	26.80	-75.84	-2,088.52	2,130.39	3,424.90	3,356.20	68.70	49.853	
8,481.00	7,630.00	7,635.72	7,634.42	45.79	26.80	-95.85	-2,088.52	2,130.40	3,394.25	3,325.57	68.67	49.426	
8,500.00	7,630.00	7,635.41	7,634.11	45.68	26.80	-95.82	-2,088.52	2,130.39	3,375.49	3,306.83	68.65	49.166	
8,600.00	7,630.00	7,633.77	7,632.47	45.11	26.80	-95.64	-2,088.55	2,130.38	3,276.78	3,208.23	68.56	47.796	
8,700.00	7,630.00	7,632.12	7,630.83	44.56	26.79	-95.47	-2,088.58	2,130.37	3,178.16	3,109.70	68.46	46.426	
8,800.00	7,630.00	7,630.47	7,629.18	44.05	26.79	-95.29	-2,088.61	2,130.36	3,079.63	3,011.27	68.35	45.056	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
8,900.00	7,630.00	7,628.82	7,627.52	43.57	26.78	-95.11	-2,088.64	2,130.34	2,981.19	2,912.95	68.24	43.686	
9,000.00	7,630.00	7,627.15	7,625.86	43.12	26.77	-94.93	-2,088.67	2,130.33	2,882.86	2,814.73	68.13	42.316	
9,100.00	7,630.00	7,625.48	7,624.19	42.70	26.77	-94.76	-2,088.70	2,130.32	2,784.64	2,716.63	68.01	40.946	
9,200.00	7,630.00	7,623.81	7,622.51	42.31	26.76	-94.58	-2,088.73	2,130.30	2,686.56	2,618.68	67.88	39.577	
9,300.00	7,630.00	7,622.12	7,620.83	41.94	26.76	-94.40	-2,088.76	2,130.29	2,588.62	2,520.87	67.75	38.207	
9,400.00	7,630.00	7,620.43	7,619.14	41.59	26.75	-94.21	-2,088.79	2,130.28	2,490.84	2,423.23	67.61	36.839	
9,500.00	7,630.00	7,618.74	7,617.44	41.26	26.75	-94.03	-2,088.82	2,130.26	2,393.25	2,325.78	67.47	35.471	
9,600.00	7,630.00	7,617.04	7,615.74	40.96	26.74	-93.85	-2,088.85	2,130.25	2,295.87	2,228.54	67.32	34.103	
9,700.00	7,630.00	7,615.33	7,614.03	40.68	26.73	-93.67	-2,088.88	2,130.24	2,198.71	2,131.55	67.16	32.736	
9,800.00	7,630.00	7,613.61	7,612.32	40.42	26.73	-93.48	-2,088.91	2,130.22	2,101.82	2,034.82	67.00	31.371	
9,900.00	7,630.00	7,611.89	7,610.60	40.17	26.72	-93.30	-2,088.94	2,130.21	2,005.24	1,938.41	66.83	30.006	
10,000.00	7,630.00	7,610.87	7,609.58	39.96	26.72	-93.19	-2,088.95	2,130.20	1,909.00	1,842.35	66.66	28.640	
10,100.00	7,630.00	7,608.99	7,607.70	40.05	26.71	-92.99	-2,088.99	2,130.19	1,813.18	1,746.71	66.47	27.278	
10,200.00	7,630.00	7,607.12	7,605.83	40.95	26.71	-92.78	-2,089.02	2,130.17	1,717.82	1,651.54	66.28	25.916	
10,300.00	7,630.00	7,605.25	7,603.95	41.94	26.70	-92.58	-2,089.06	2,130.16	1,623.03	1,556.93	66.09	24.556	
10,400.00	7,630.00	7,603.37	7,602.08	42.98	26.69	-92.38	-2,089.09	2,130.14	1,528.89	1,462.98	65.91	23.197	
10,500.00	7,630.00	7,601.50	7,600.21	44.06	26.69	-92.18	-2,089.13	2,130.13	1,435.55	1,369.81	65.73	21.839	
10,600.00	7,630.00	7,599.63	7,598.34	45.17	26.68	-91.98	-2,089.16	2,130.12	1,343.16	1,277.58	65.58	20.481	
10,700.00	7,630.00	7,597.76	7,596.47	46.32	26.67	-91.78	-2,089.19	2,130.10	1,251.94	1,186.47	65.47	19.123	
10,800.00	7,630.00	7,595.89	7,594.60	47.50	26.67	-91.58	-2,089.23	2,130.09	1,162.16	1,096.74	65.42	17.765	
10,900.00	7,630.00	7,594.02	7,592.73	48.70	26.66	-91.37	-2,089.26	2,130.07	1,074.18	1,008.71	65.48	16.406	
11,000.00	7,630.00	7,592.16	7,590.87	49.94	26.65	-91.17	-2,089.29	2,130.06	988.50	922.80	65.70	15.047	
11,100.00	7,630.00	7,590.29	7,589.00	51.20	26.65	-90.97	-2,089.33	2,130.04	905.74	839.58	66.16	13.689	
11,200.00	7,630.00	7,588.43	7,587.14	52.48	26.64	-90.77	-2,089.36	2,130.03	826.81	759.81	67.00	12.340	
11,300.00	7,630.00	7,586.56	7,585.27	53.79	26.63	-90.57	-2,089.40	2,130.01	752.89	684.53	68.36	11.014	
11,400.00	7,630.00	7,584.70	7,583.41	55.12	26.63	-90.37	-2,089.43	2,130.00	685.61	615.20	70.41	9.737	
11,500.00	7,630.00	7,582.84	7,581.55	56.46	26.62	-90.17	-2,089.46	2,129.98	627.12	553.84	73.28	8.557	
11,600.00	7,630.00	7,580.98	7,579.69	57.83	26.61	-89.97	-2,089.50	2,129.96	580.08	503.13	76.95	7.538	
11,700.00	7,630.00	7,579.12	7,577.83	59.22	26.61	-89.77	-2,089.53	2,129.95	547.45	466.35	81.10	6.750	
11,800.00	7,630.00	7,577.26	7,575.97	60.62	26.60	-89.57	-2,089.56	2,129.93	531.88	446.77	85.11	6.249	
11,834.04	7,630.00	7,576.63	7,575.34	61.11	26.60	-89.50	-2,089.58	2,129.93	530.79	444.48	86.31	6.149	CC, ES
11,900.00	7,630.00	7,575.40	7,574.11	62.04	26.60	-89.36	-2,089.60	2,129.91	534.87	446.60	88.27	6.059	SF
12,000.00	7,630.00	7,573.54	7,572.26	63.48	26.59	-89.16	-2,089.63	2,129.90	556.12	465.97	90.15	6.169	
12,100.00	7,630.00	7,571.69	7,570.40	64.93	26.58	-88.96	-2,089.66	2,129.88	593.68	502.91	90.77	6.540	
12,200.00	7,630.00	7,569.83	7,568.55	66.39	26.58	-88.76	-2,089.70	2,129.86	644.69	554.22	90.46	7.126	
12,300.00	7,630.00	7,567.98	7,566.69	67.86	26.57	-88.56	-2,089.73	2,129.85	706.25	616.64	89.61	7.881	
12,400.00	7,630.00	7,566.12	7,564.84	69.35	26.56	-88.36	-2,089.77	2,129.83	775.85	687.34	88.51	8.765	
12,500.00	7,630.00	7,564.27	7,562.99	70.85	26.56	-88.16	-2,089.80	2,129.81	851.53	764.18	87.35	9.748	
12,600.00	7,630.00	7,562.42	7,561.14	72.36	26.55	-87.96	-2,089.83	2,129.79	931.80	845.57	86.22	10.807	
12,700.00	7,630.00	7,560.57	7,559.29	73.88	26.54	-87.76	-2,089.87	2,129.78	1,015.57	930.39	85.18	11.923	
12,800.00	7,630.00	7,558.72	7,557.44	75.41	26.54	-87.56	-2,089.90	2,129.76	1,102.05	1,017.82	84.23	13.084	
12,900.00	7,630.00	7,556.87	7,555.59	76.95	26.53	-87.37	-2,089.93	2,129.74	1,190.65	1,107.27	83.37	14.281	
13,000.00	7,630.00	7,555.02	7,553.74	78.49	26.52	-87.17	-2,089.97	2,129.72	1,280.92	1,198.31	82.61	15.505	
13,100.00	7,630.00	7,553.18	7,551.89	80.05	26.52	-86.97	-2,090.00	2,129.70	1,372.54	1,290.60	81.94	16.751	
13,200.00	7,630.00	7,551.33	7,550.05	81.61	26.51	-86.77	-2,090.03	2,129.69	1,465.25	1,383.92	81.33	18.015	
13,300.00	7,630.00	7,549.49	7,548.20	83.18	26.51	-86.57	-2,090.07	2,129.67	1,558.87	1,478.07	80.80	19.294	
13,400.00	7,630.00	7,547.64	7,546.36	84.76	26.50	-86.37	-2,090.10	2,129.65	1,653.23	1,572.91	80.32	20.584	
13,500.00	7,630.00	7,545.80	7,544.52	86.34	26.49	-86.17	-2,090.13	2,129.63	1,748.21	1,668.32	79.89	21.884	
13,600.00	7,630.00	7,543.96	7,542.68	87.94	26.49	-85.98	-2,090.16	2,129.61	1,843.72	1,764.23	79.50	23.192	
13,700.00	7,630.00	7,542.12	7,540.84	89.53	26.48	-85.78	-2,090.20	2,129.59	1,939.69	1,860.54	79.15	24.506	
13,800.00	7,630.00	7,540.28	7,539.00	91.13	26.47	-85.58	-2,090.23	2,129.57	2,036.04	1,957.20	78.84	25.826	
13,900.00	7,630.00	7,538.44	7,537.16	92.74	26.47	-85.38	-2,090.26	2,129.55	2,132.72	2,054.17	78.55	27.151	

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

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

Offset Site Error: 0.00 usft

Survey Program: 100-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,630.00	7,536.60	7,535.32	94.35	26.46	-85.18	-2,090.30	2,129.53	2,229.70	2,151.41	78.29	28.479	
14,100.00	7,630.00	7,534.76	7,533.48	95.97	26.45	-84.99	-2,090.33	2,129.51	2,326.93	2,248.88	78.06	29.811	
14,200.00	7,630.00	7,532.92	7,531.65	97.60	26.45	-84.79	-2,090.36	2,129.49	2,424.39	2,346.54	77.84	31.145	
14,300.00	7,630.00	7,531.09	7,529.81	99.22	26.44	-84.59	-2,090.40	2,129.47	2,522.04	2,444.39	77.65	32.482	
14,400.00	7,630.00	7,529.25	7,527.98	100.85	26.44	-84.40	-2,090.43	2,129.45	2,619.87	2,542.40	77.47	33.820	
14,500.00	7,630.00	7,527.42	7,526.14	102.49	26.43	-84.20	-2,090.46	2,129.43	2,717.85	2,640.55	77.30	35.159	
14,600.00	7,630.00	7,525.59	7,524.31	104.13	26.42	-84.00	-2,090.50	2,129.41	2,815.98	2,738.83	77.15	36.500	
14,700.00	7,630.00	7,523.76	7,522.48	105.77	26.42	-83.81	-2,090.53	2,129.39	2,914.23	2,837.22	77.01	37.842	
14,800.00	7,630.00	7,521.93	7,520.65	107.42	26.41	-83.61	-2,090.56	2,129.37	3,012.60	2,935.71	76.88	39.184	
14,900.00	7,630.00	7,520.10	7,518.82	109.07	26.40	-83.42	-2,090.59	2,129.35	3,111.07	3,034.30	76.77	40.526	
15,000.00	7,630.00	7,518.27	7,516.99	110.72	26.40	-83.22	-2,090.63	2,129.33	3,209.63	3,132.97	76.66	41.869	
15,100.00	7,630.00	7,519.78	7,518.51	112.38	26.40	-83.38	-2,090.61	2,129.35	3,308.27	3,231.72	76.55	43.217	
15,200.00	7,630.00	7,517.70	7,516.42	114.04	26.40	-83.16	-2,090.64	2,129.32	3,407.00	3,330.54	76.46	44.559	
15,300.00	7,630.00	7,515.59	7,514.31	115.71	26.39	-82.94	-2,090.68	2,129.30	3,505.79	3,429.42	76.38	45.901	
15,400.00	7,630.00	7,513.45	7,512.18	117.37	26.38	-82.71	-2,090.72	2,129.27	3,604.66	3,528.36	76.30	47.243	
15,500.00	7,630.00	7,511.29	7,510.01	119.04	26.37	-82.48	-2,090.75	2,129.25	3,703.58	3,627.35	76.23	48.584	
15,600.00	7,630.00	7,509.09	7,507.82	120.71	26.37	-82.25	-2,090.79	2,129.22	3,802.56	3,726.39	76.17	49.924	
15,700.00	7,630.00	7,506.87	7,505.60	122.39	26.36	-82.01	-2,090.83	2,129.19	3,901.59	3,825.48	76.11	51.263	
15,800.00	7,630.00	7,504.62	7,503.35	124.06	26.35	-81.77	-2,090.87	2,129.16	4,000.67	3,924.61	76.06	52.602	
15,900.00	7,630.00	7,502.35	7,501.08	125.74	26.34	-81.53	-2,090.91	2,129.14	4,099.79	4,023.79	76.01	53.940	
16,000.00	7,630.00	7,500.04	7,498.77	127.42	26.33	-81.29	-2,090.95	2,129.11	4,198.95	4,122.99	75.96	55.277	
16,100.00	7,630.00	7,497.70	7,496.43	129.10	26.33	-81.04	-2,090.99	2,129.08	4,298.15	4,222.23	75.92	56.613	
16,200.00	7,630.00	7,495.33	7,494.06	130.79	26.32	-80.79	-2,091.04	2,129.05	4,397.39	4,321.50	75.89	57.948	
16,300.00	7,630.00	7,492.93	7,491.66	132.48	26.31	-80.53	-2,091.08	2,129.02	4,496.66	4,420.80	75.85	59.282	
16,400.00	7,630.00	7,490.50	7,489.23	134.17	26.30	-80.28	-2,091.13	2,128.99	4,595.96	4,520.13	75.82	60.614	
16,500.00	7,630.00	7,488.03	7,486.77	135.86	26.29	-80.02	-2,091.17	2,128.96	4,695.28	4,619.49	75.80	61.945	
16,600.00	7,630.00	7,485.53	7,484.27	137.55	26.28	-79.76	-2,091.22	2,128.92	4,794.64	4,718.86	75.77	63.275	
16,700.00	7,630.00	7,483.00	7,481.73	139.24	26.28	-79.49	-2,091.26	2,128.89	4,894.02	4,818.26	75.75	64.604	
16,800.00	7,630.00	7,480.43	7,479.16	140.94	26.27	-79.22	-2,091.31	2,128.86	4,993.42	4,917.68	75.74	65.931	
16,900.00	7,630.00	7,477.83	7,476.56	142.64	26.26	-78.95	-2,091.36	2,128.82	5,092.85	5,017.13	75.72	67.256	
17,000.00	7,630.00	7,475.18	7,473.92	144.34	26.25	-78.67	-2,091.41	2,128.79	5,192.30	5,116.58	75.71	68.581	
17,100.00	7,630.00	7,472.51	7,471.24	146.04	26.24	-78.40	-2,091.46	2,128.75	5,291.76	5,216.06	75.70	69.903	
17,200.00	7,630.00	7,469.79	7,468.53	147.74	26.23	-78.11	-2,091.52	2,128.71	5,391.25	5,315.55	75.69	71.224	
17,300.00	7,630.00	7,467.03	7,465.77	149.44	26.22	-77.83	-2,091.57	2,128.68	5,490.75	5,415.06	75.69	72.543	
17,400.00	7,630.00	7,464.24	7,462.98	151.15	26.21	-77.54	-2,091.62	2,128.64	5,590.27	5,514.59	75.69	73.861	
17,500.00	7,630.00	7,461.40	7,460.14	152.86	26.20	-77.24	-2,091.68	2,128.60	5,689.81	5,614.12	75.69	75.177	
17,600.00	7,630.00	7,458.53	7,457.27	154.56	26.19	-76.95	-2,091.74	2,128.56	5,789.36	5,713.67	75.69	76.491	
17,700.00	7,630.00	7,455.61	7,454.35	156.27	26.18	-76.65	-2,091.80	2,128.52	5,888.93	5,813.24	75.69	77.804	
17,800.00	7,630.00	7,452.64	7,451.39	157.98	26.17	-76.34	-2,091.86	2,128.48	5,988.50	5,912.81	75.69	79.114	
17,900.00	7,630.00	7,449.64	7,448.38	159.70	26.16	-76.04	-2,091.92	2,128.43	6,088.10	6,012.39	75.70	80.423	
18,000.00	7,630.00	7,446.58	7,445.33	161.41	26.15	-75.72	-2,091.98	2,128.39	6,187.70	6,111.99	75.71	81.730	
18,100.00	7,630.00	7,443.49	7,442.23	163.12	26.14	-75.41	-2,092.04	2,128.35	6,287.32	6,211.60	75.72	83.035	
18,154.00	7,630.00	7,441.79	7,440.54	164.05	26.13	-75.24	-2,092.08	2,128.32	6,341.12	6,265.39	75.72	83.739	

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 95-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	70.59	764.37	2,168.83	2,299.97				
100.00	100.00	81.19	81.19	0.13	0.13	70.58	764.34	2,168.41	2,299.30	2,299.03	0.26	8,722.768	
200.00	200.00	235.82	235.78	0.49	0.66	70.54	765.03	2,164.93	2,297.45	2,296.29	1.15	1,991.667	
300.00	300.00	496.20	495.11	0.85	1.65	70.23	770.46	2,143.46	2,290.03	2,287.54	2.49	920.783	
400.00	400.00	642.50	639.66	1.21	2.26	69.85	778.66	2,122.59	2,278.38	2,274.98	3.40	669.197	
500.00	500.00	743.57	738.91	1.57	2.72	69.49	787.95	2,105.90	2,265.96	2,261.79	4.17	543.288	
600.00	600.00	828.42	821.86	1.93	3.12	69.11	798.15	2,091.27	2,253.90	2,249.01	4.89	460.891	
700.00	700.00	907.32	898.69	2.29	3.51	68.71	809.72	2,077.51	2,242.68	2,237.07	5.61	400.017	
800.00	800.00	983.02	972.09	2.64	3.89	68.27	822.64	2,064.34	2,232.50	2,226.17	6.33	352.728	
900.00	900.00	1,101.13	1,086.13	3.00	4.51	67.53	845.16	2,043.35	2,222.98	2,215.69	7.29	305.134	
1,000.00	1,000.00	1,186.54	1,168.66	3.36	4.96	67.00	860.71	2,027.87	2,213.02	2,204.93	8.09	273.715	
1,100.00	1,100.00	1,287.52	1,266.34	3.72	5.51	66.38	878.97	2,009.88	2,203.54	2,194.57	8.97	245.607	
1,200.00	1,200.00	1,391.60	1,366.35	4.08	6.10	65.67	899.92	1,990.13	2,194.06	2,184.16	9.90	221.529	
1,300.00	1,300.00	1,484.85	1,455.54	4.44	6.65	64.99	920.02	1,971.79	2,184.81	2,174.00	10.81	202.179	
1,400.00	1,400.00	1,576.40	1,542.97	4.79	7.19	64.30	940.25	1,953.66	2,176.02	2,164.31	11.71	185.843	
1,500.00	1,499.98	1,661.68	1,624.54	5.15	7.70	25.96	958.91	1,937.19	2,166.37	2,153.79	12.58	172.260	
1,600.00	1,599.84	1,763.27	1,721.90	5.51	8.30	25.38	980.61	1,917.94	2,154.02	2,140.49	13.53	159.172	
1,700.00	1,699.45	1,859.33	1,814.03	5.87	8.87	24.89	1,000.83	1,899.76	2,138.72	2,124.26	14.46	147.936	
1,800.00	1,798.70	1,957.76	1,908.43	6.23	9.45	24.44	1,021.45	1,881.02	2,120.40	2,105.01	15.40	137.730	
1,900.00	1,897.47	2,045.45	1,992.85	6.60	9.96	24.13	1,038.97	1,865.02	2,099.42	2,083.15	16.26	129.085	
2,000.00	1,995.62	2,165.52	2,108.48	6.99	10.66	23.71	1,062.38	1,842.68	2,074.97	2,057.66	17.31	119.864	
2,100.00	2,093.06	2,267.30	2,206.13	7.39	11.26	23.40	1,082.81	1,822.53	2,046.86	2,028.59	18.27	112.020	
2,200.00	2,189.64	2,360.12	2,295.10	7.82	11.82	23.17	1,101.61	1,803.96	2,015.75	1,996.56	19.19	105.044	
2,300.00	2,285.27	2,449.06	2,380.53	8.28	12.35	23.03	1,119.19	1,786.50	1,981.82	1,961.73	20.08	98.677	
2,400.00	2,379.82	2,532.25	2,460.51	8.77	12.84	22.96	1,135.56	1,770.52	1,945.28	1,924.34	20.95	92.865	
2,500.00	2,473.17	2,611.11	2,536.25	9.31	13.31	22.95	1,151.65	1,755.59	1,906.40	1,884.60	21.79	87.471	
2,600.00	2,565.21	2,691.66	2,613.58	9.88	13.79	22.96	1,168.50	1,740.63	1,865.16	1,842.50	22.66	82.311	
2,660.67	2,620.37	2,736.20	2,656.38	10.25	14.05	23.02	1,177.86	1,732.59	1,839.04	1,815.87	23.16	79.398	
2,700.00	2,655.96	2,764.72	2,683.82	10.50	14.21	22.91	1,183.83	1,727.62	1,821.93	1,798.44	23.49	77.577	
2,800.00	2,746.43	2,855.94	2,771.70	11.15	14.74	22.58	1,202.78	1,712.14	1,778.76	1,754.36	24.40	72.887	
2,900.00	2,836.90	2,954.97	2,867.13	11.82	15.31	22.21	1,222.92	1,694.99	1,735.16	1,709.80	25.36	68.408	
3,000.00	2,927.37	3,038.73	2,948.01	12.50	15.79	21.90	1,239.33	1,680.68	1,691.45	1,665.20	26.25	64.444	
3,100.00	3,017.85	3,137.85	3,043.86	13.21	16.35	21.53	1,258.49	1,664.19	1,648.03	1,620.82	27.20	60.579	
3,200.00	3,108.32	3,236.96	3,139.25	13.92	16.93	21.08	1,278.37	1,646.11	1,603.75	1,575.57	28.18	56.912	
3,300.00	3,198.79	3,330.05	3,228.65	14.64	17.48	20.61	1,297.43	1,628.55	1,559.28	1,530.15	29.13	53.520	
3,400.00	3,289.27	3,416.98	3,312.37	15.38	17.98	20.18	1,314.46	1,612.50	1,514.77	1,484.71	30.06	50.392	
3,500.00	3,379.74	3,506.61	3,398.66	16.12	18.51	19.70	1,332.25	1,595.99	1,470.50	1,439.49	31.00	47.433	
3,600.00	3,470.21	3,597.03	3,485.35	16.87	19.05	19.13	1,351.10	1,578.52	1,426.14	1,394.19	31.96	44.628	
3,700.00	3,560.68	3,681.42	3,566.40	17.62	19.56	18.59	1,368.32	1,562.53	1,381.97	1,349.08	32.89	42.023	
3,800.00	3,651.16	3,765.95	3,647.82	18.39	20.05	18.05	1,385.16	1,547.31	1,338.34	1,304.53	33.81	39.583	
3,900.00	3,741.63	3,856.03	3,734.51	19.15	20.58	17.43	1,403.39	1,530.91	1,294.84	1,260.09	34.76	37.255	
4,000.00	3,832.10	3,944.62	3,819.64	19.92	21.10	16.75	1,421.62	1,514.57	1,251.50	1,215.80	35.70	35.056	
4,100.00	3,922.57	4,033.97	3,905.53	20.69	21.63	16.02	1,439.98	1,498.12	1,208.31	1,171.66	36.64	32.975	
4,200.00	4,013.05	4,124.02	3,992.31	21.47	22.16	15.28	1,457.82	1,482.02	1,165.27	1,127.69	37.58	31.008	
4,300.00	4,103.52	4,219.03	4,083.86	22.25	22.71	14.44	1,476.49	1,464.76	1,122.11	1,083.58	38.52	29.128	
4,400.00	4,193.99	4,313.31	4,174.57	23.03	23.26	13.50	1,495.05	1,446.98	1,078.69	1,039.22	39.46	27.334	
4,500.00	4,284.47	4,404.37	4,262.30	23.81	23.80	12.56	1,512.32	1,429.79	1,035.06	994.67	40.39	25.626	
4,600.00	4,374.94	4,477.39	4,332.66	24.60	24.22	11.74	1,526.54	1,416.44	992.38	951.09	41.29	24.034	
4,700.00	4,465.41	4,581.68	4,432.98	25.39	24.84	10.42	1,547.48	1,397.08	950.19	907.95	42.23	22.498	
4,800.00	4,555.88	4,672.64	4,520.60	26.18	25.37	9.19	1,564.72	1,379.77	907.31	864.16	43.15	21.027	
4,900.00	4,646.36	4,758.03	4,603.50	26.97	25.83	8.11	1,579.15	1,365.29	864.82	820.79	44.03	19.641	
5,000.00	4,736.83	4,853.03	4,696.57	27.76	26.29	7.08	1,592.55	1,351.78	822.56	777.69	44.86	18.336	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
5,100.00	4,827.30	4,941.18	4,783.38	28.55	26.69	6.21	1,603.12	1,340.70	780.15	734.48	45.67	17.082	
5,200.00	4,917.77	5,027.65	4,868.77	29.35	27.06	5.39	1,612.75	1,331.14	738.26	691.79	46.47	15.888	
5,300.00	5,008.25	5,117.95	4,958.19	30.15	27.43	4.59	1,621.93	1,322.57	696.83	649.59	47.23	14.753	
5,400.00	5,098.72	5,209.25	5,049.01	30.94	27.75	3.99	1,628.88	1,316.35	655.37	607.41	47.96	13.665	
5,500.00	5,189.19	5,302.87	5,142.42	31.74	28.05	3.65	1,633.66	1,312.40	613.80	565.17	48.64	12.620	
5,600.00	5,279.67	5,397.15	5,236.63	32.54	28.31	3.55	1,636.24	1,310.10	571.69	522.42	49.28	11.601	
5,700.00	5,370.14	5,489.34	5,328.81	33.34	28.53	3.72	1,636.91	1,309.31	529.15	479.24	49.91	10.603	
5,800.00	5,460.61	5,578.11	5,417.59	34.14	28.73	4.06	1,636.76	1,309.39	486.57	436.02	50.56	9.624	
5,900.00	5,551.08	5,668.38	5,507.86	34.94	28.93	4.50	1,636.79	1,309.90	444.43	393.23	51.20	8.680	
6,000.00	5,641.56	5,760.04	5,599.51	35.75	29.13	5.03	1,636.64	1,310.18	402.02	350.20	51.83	7.757	
6,100.00	5,732.03	5,850.77	5,690.25	36.55	29.34	5.65	1,636.52	1,310.30	359.57	307.09	52.48	6.851	
6,200.00	5,822.50	5,941.27	5,780.75	37.35	29.55	6.39	1,636.51	1,310.17	317.06	263.91	53.15	5.965	
6,300.00	5,912.97	6,031.16	5,870.63	38.16	29.77	7.26	1,636.86	1,309.82	274.72	220.86	53.86	5.100	
6,400.00	6,003.45	6,121.21	5,960.68	38.96	30.00	8.50	1,637.21	1,309.79	232.68	178.07	54.61	4.261	
6,500.00	6,093.92	6,211.38	6,050.85	39.77	30.23	10.19	1,637.85	1,309.65	190.89	135.47	55.42	3.445	
6,600.00	6,184.39	6,301.17	6,140.63	40.57	30.46	12.84	1,638.75	1,309.96	149.83	93.46	56.36	2.658	
6,700.00	6,274.87	6,392.09	6,231.55	41.38	30.69	17.50	1,639.82	1,310.52	109.55	51.97	57.57	1.903	
6,800.00	6,365.34	6,482.98	6,322.43	42.18	30.92	27.42	1,640.72	1,311.12	70.54	10.76	59.77	1.180	Level 2
6,900.00	6,455.81	6,573.57	6,412.99	42.99	31.15	54.48	1,642.48	1,312.63	38.30	-26.91	65.21	0.587	Level 1
6,957.66	6,507.98	6,626.46	6,465.86	43.46	31.29	89.50	1,643.43	1,313.56	30.40	-37.36	67.76	0.449	Level 1, CC, ES, SF
7,000.00	6,546.28	6,664.96	6,504.36	43.80	31.38	117.16	1,643.73	1,313.99	35.11	-30.91	66.02	0.532	Level 1
7,100.00	6,636.76	6,757.02	6,596.40	44.61	31.62	150.38	1,645.11	1,314.84	65.75	3.99	61.75	1.065	Level 2
7,200.00	6,727.23	6,846.52	6,685.88	45.41	31.85	161.16	1,646.05	1,316.06	104.05	43.35	60.69	1.714	
7,300.00	6,817.70	6,937.70	6,777.05	46.22	32.07	165.84	1,646.01	1,317.96	144.52	83.65	60.87	2.374	
7,383.79	6,893.51	7,011.99	6,851.33	46.90	32.26	168.43	1,646.15	1,318.47	179.12	118.02	61.09	2.932	
7,400.00	6,908.25	7,026.27	6,865.61	47.03	32.30	166.25	1,646.23	1,318.25	185.76	124.63	61.13	3.039	
7,450.00	6,954.52	7,072.89	6,912.21	47.40	32.43	158.30	1,646.58	1,317.29	204.09	142.74	61.35	3.327	
7,500.00	7,001.74	7,121.12	6,960.44	47.72	32.57	147.60	1,647.03	1,316.61	218.86	157.25	61.61	3.552	
7,550.00	7,049.55	7,168.83	7,008.14	47.99	32.70	133.95	1,647.48	1,316.20	230.25	168.41	61.84	3.724	
7,600.00	7,097.58	7,216.53	7,055.84	48.21	32.83	118.97	1,647.80	1,315.90	238.59	176.50	62.09	3.843	
7,650.00	7,145.48	7,264.67	7,103.98	48.37	32.97	105.65	1,648.05	1,315.69	244.07	181.63	62.44	3.909	
7,700.00	7,192.88	7,312.37	7,151.68	48.48	33.10	96.05	1,648.35	1,315.56	246.95	184.06	62.88	3.927	
7,750.00	7,239.41	7,358.99	7,198.30	48.54	33.22	90.31	1,648.60	1,315.53	247.72	184.25	63.47	3.903	
7,800.00	7,284.72	7,404.52	7,243.83	48.56	33.35	87.76	1,648.72	1,315.66	247.00	182.74	64.26	3.844	
7,850.00	7,328.47	7,448.20	7,287.51	48.54	33.46	87.57	1,648.76	1,315.87	245.53	180.25	65.29	3.761	
7,900.00	7,370.32	7,489.91	7,329.22	48.47	33.57	89.12	1,648.80	1,316.04	244.30	177.72	66.58	3.669	
7,924.50	7,390.04	7,509.56	7,348.87	48.42	33.62	90.32	1,648.81	1,316.11	244.10	176.81	67.29	3.627	
7,950.00	7,409.96	7,529.41	7,368.72	48.37	33.67	91.78	1,648.81	1,316.18	244.37	176.28	68.08	3.589	
8,000.00	7,447.08	7,566.53	7,405.84	48.24	33.77	95.03	1,648.73	1,316.32	246.85	177.17	69.68	3.543	
8,050.00	7,481.41	7,601.03	7,440.34	48.07	33.86	98.39	1,648.57	1,316.45	252.81	181.60	71.20	3.551	
8,100.00	7,512.67	7,632.55	7,471.86	47.87	33.94	101.41	1,648.40	1,316.57	263.06	190.59	72.48	3.630	
8,150.00	7,540.64	7,660.72	7,500.02	47.65	34.01	103.77	1,648.27	1,316.69	278.16	204.75	73.41	3.789	
8,200.00	7,565.09	7,685.32	7,524.63	47.40	34.07	105.20	1,648.18	1,316.79	298.21	224.22	73.99	4.030	
8,250.00	7,585.85	7,706.40	7,545.71	47.14	34.13	105.57	1,648.11	1,316.88	323.00	248.73	74.27	4.349	
8,300.00	7,602.75	7,723.91	7,563.21	46.86	34.17	104.80	1,648.03	1,316.96	352.00	277.68	74.32	4.736	
8,350.00	7,615.67	7,737.45	7,576.75	46.58	34.21	102.72	1,647.96	1,317.03	384.60	310.37	74.22	5.182	
8,400.00	7,624.51	7,746.88	7,586.18	46.28	34.23	99.28	1,647.90	1,317.08	420.12	346.09	74.03	5.675	
8,450.00	7,629.19	7,752.08	7,591.38	45.98	34.24	94.48	1,647.86	1,317.11	457.89	384.12	73.77	6.207	
8,481.00	7,630.00	7,753.14	7,592.45	45.79	34.25	90.86	1,647.85	1,317.12	482.17	408.57	73.59	6.552	
8,500.00	7,630.00	7,753.28	7,592.59	45.68	34.25	90.89	1,647.85	1,317.12	497.34	423.85	73.48	6.768	
8,600.00	7,630.00	7,754.03	7,593.34	45.11	34.25	91.04	1,647.85	1,317.12	580.92	507.99	72.93	7.965	
8,700.00	7,630.00	7,754.79	7,594.10	44.56	34.25	91.19	1,647.84	1,317.13	669.02	596.58	72.45	9.235	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,800.00	7,630.00	7,755.56	7,594.87	44.05	34.25	91.34	1,647.83	1,317.13	760.07	688.04	72.03	10.552	
8,900.00	7,630.00	7,756.35	7,595.65	43.57	34.25	91.49	1,647.83	1,317.14	853.13	781.45	71.68	11.901	
9,000.00	7,630.00	7,757.14	7,596.45	43.12	34.26	91.64	1,647.82	1,317.14	947.60	876.22	71.39	13.274	
9,100.00	7,630.00	7,757.95	7,597.25	42.70	34.26	91.80	1,647.82	1,317.15	1,043.11	971.97	71.14	14.663	
9,200.00	7,630.00	7,758.77	7,598.07	42.31	34.26	91.96	1,647.81	1,317.15	1,139.38	1,068.46	70.92	16.065	
9,300.00	7,630.00	7,759.60	7,598.91	41.94	34.26	92.12	1,647.80	1,317.16	1,236.25	1,165.51	70.74	17.477	
9,400.00	7,630.00	7,760.45	7,599.75	41.59	34.26	92.28	1,647.80	1,317.16	1,333.57	1,263.00	70.58	18.895	
9,500.00	7,630.00	7,761.31	7,600.61	41.26	34.27	92.45	1,647.79	1,317.17	1,431.27	1,360.83	70.44	20.320	
9,600.00	7,630.00	7,762.18	7,601.49	40.96	34.27	92.62	1,647.78	1,317.17	1,529.26	1,458.95	70.31	21.750	
9,700.00	7,630.00	7,763.07	7,602.38	40.68	34.27	92.79	1,647.78	1,317.18	1,627.50	1,557.30	70.20	23.183	
9,800.00	7,630.00	7,763.98	7,603.28	40.42	34.27	92.97	1,647.77	1,317.18	1,725.94	1,655.83	70.10	24.620	
9,900.00	7,630.00	7,764.90	7,604.20	40.17	34.28	93.15	1,647.76	1,317.19	1,824.55	1,754.53	70.02	26.059	
10,000.00	7,630.00	7,765.83	7,605.13	39.96	34.28	93.33	1,647.76	1,317.19	1,923.30	1,853.36	69.94	27.500	
10,100.00	7,630.00	7,766.78	7,606.08	40.05	34.28	93.51	1,647.75	1,317.20	2,022.17	1,952.30	69.87	28.942	
10,200.00	7,630.00	7,767.75	7,607.05	40.95	34.28	93.70	1,647.74	1,317.21	2,121.15	2,051.34	69.81	30.386	
10,300.00	7,630.00	7,768.73	7,608.03	41.94	34.29	93.89	1,647.73	1,317.21	2,220.22	2,150.47	69.75	31.832	
10,400.00	7,630.00	7,769.73	7,609.03	42.98	34.29	94.08	1,647.72	1,317.22	2,319.37	2,249.67	69.70	33.277	
10,500.00	7,630.00	7,770.75	7,610.05	44.06	34.29	94.28	1,647.72	1,317.22	2,418.59	2,348.94	69.65	34.724	
10,600.00	7,630.00	7,771.78	7,611.09	45.17	34.29	94.48	1,647.71	1,317.23	2,517.87	2,448.26	69.61	36.171	
10,700.00	7,630.00	7,772.84	7,612.14	46.32	34.30	94.69	1,647.70	1,317.24	2,617.21	2,547.63	69.57	37.618	
10,800.00	7,630.00	7,773.91	7,613.21	47.50	34.30	94.89	1,647.69	1,317.24	2,716.59	2,647.05	69.54	39.066	
10,900.00	7,630.00	7,775.00	7,614.31	48.70	34.30	95.10	1,647.68	1,317.25	2,816.02	2,746.51	69.51	40.513	
11,000.00	7,630.00	7,776.12	7,615.42	49.94	34.30	95.32	1,647.67	1,317.26	2,915.48	2,846.00	69.48	41.961	
11,100.00	7,630.00	7,777.25	7,616.56	51.20	34.31	95.54	1,647.66	1,317.27	3,014.98	2,945.53	69.46	43.408	
11,200.00	7,630.00	7,778.41	7,617.71	52.48	34.31	95.76	1,647.65	1,317.27	3,114.52	3,045.08	69.44	44.855	
11,300.00	7,630.00	7,779.58	7,618.89	53.79	34.31	95.99	1,647.64	1,317.28	3,214.08	3,144.66	69.42	46.302	
11,400.00	7,630.00	7,780.78	7,620.09	55.12	34.32	96.22	1,647.63	1,317.29	3,313.66	3,244.27	69.40	47.748	
11,500.00	7,630.00	7,782.01	7,621.31	56.46	34.32	96.45	1,647.62	1,317.30	3,413.28	3,343.89	69.38	49.193	
11,600.00	7,630.00	7,783.25	7,622.56	57.83	34.32	96.69	1,647.60	1,317.31	3,512.91	3,443.54	69.37	50.638	
11,700.00	7,630.00	7,784.52	7,623.83	59.22	34.33	96.94	1,647.59	1,317.31	3,612.56	3,543.20	69.36	52.083	
11,800.00	7,630.00	7,785.82	7,625.12	60.62	34.33	97.19	1,647.58	1,317.32	3,712.23	3,642.88	69.35	53.526	
11,900.00	7,630.00	7,787.14	7,626.45	62.04	34.33	97.44	1,647.57	1,317.33	3,811.92	3,742.57	69.35	54.969	
12,000.00	7,630.00	7,788.49	7,627.79	63.48	34.34	97.70	1,647.55	1,317.34	3,911.62	3,842.28	69.34	56.411	
12,100.00	7,630.00	7,789.87	7,629.17	64.93	34.34	97.96	1,647.54	1,317.35	4,011.34	3,942.00	69.34	57.852	
12,200.00	7,630.00	7,791.27	7,630.58	66.39	34.34	98.23	1,647.53	1,317.36	4,111.07	4,041.74	69.34	59.291	
12,300.00	7,630.00	7,792.71	7,632.01	67.86	34.35	98.50	1,647.51	1,317.37	4,210.82	4,141.48	69.34	60.730	
12,400.00	7,630.00	7,794.17	7,633.48	69.35	34.35	98.78	1,647.50	1,317.38	4,310.57	4,241.24	69.34	62.168	
12,500.00	7,630.00	7,795.67	7,634.97	70.85	34.35	99.07	1,647.48	1,317.39	4,410.34	4,341.00	69.34	63.605	
12,600.00	7,630.00	7,797.20	7,636.50	72.36	34.36	99.36	1,647.47	1,317.40	4,510.12	4,440.77	69.34	65.040	
12,700.00	7,630.00	7,798.76	7,638.06	73.88	34.36	99.65	1,647.45	1,317.41	4,609.90	4,540.55	69.35	66.474	
12,800.00	7,630.00	7,800.36	7,639.66	75.41	34.37	99.95	1,647.43	1,317.42	4,709.70	4,640.34	69.36	67.907	
12,900.00	7,630.00	7,801.99	7,641.29	76.95	34.37	100.26	1,647.42	1,317.44	4,809.50	4,740.14	69.36	69.338	
13,000.00	7,630.00	7,803.66	7,642.96	78.49	34.38	100.58	1,647.40	1,317.45	4,909.31	4,839.94	69.37	70.768	
13,100.00	7,630.00	7,805.37	7,644.67	80.05	34.38	100.90	1,647.38	1,317.46	5,009.13	4,939.74	69.38	72.197	
13,200.00	7,630.00	7,807.11	7,646.41	81.61	34.38	101.23	1,647.36	1,317.47	5,108.95	5,039.56	69.39	73.624	
13,300.00	7,630.00	7,808.90	7,648.20	83.18	34.39	101.56	1,647.34	1,317.49	5,208.78	5,139.38	69.41	75.049	
13,400.00	7,630.00	7,810.73	7,650.03	84.76	34.39	101.90	1,647.32	1,317.50	5,308.62	5,239.20	69.42	76.473	
13,500.00	7,630.00	7,812.60	7,651.90	86.34	34.40	102.25	1,647.30	1,317.51	5,408.46	5,339.03	69.43	77.895	
13,600.00	7,630.00	7,804.51	7,643.82	87.94	34.38	100.74	1,647.40	1,317.45	5,508.32	5,438.86	69.46	79.302	
13,700.00	7,630.00	7,805.39	7,644.70	89.53	34.38	100.90	1,647.39	1,317.46	5,608.17	5,538.70	69.48	80.719	
13,800.00	7,630.00	7,806.27	7,645.57	91.13	34.38	101.07	1,647.38	1,317.46	5,708.03	5,638.54	69.50	82.135	
13,900.00	7,630.00	7,807.14	7,646.45	92.74	34.38	101.23	1,647.37	1,317.47	5,807.90	5,738.38	69.52	83.549	

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 95-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,630.00	7,808.02	7,647.32	94.35	34.39	101.39	1,647.36	1,317.47	5,907.77	5,838.23	69.54	84.960	
14,100.00	7,630.00	7,808.88	7,648.18	95.97	34.39	101.56	1,647.35	1,317.48	6,007.64	5,938.08	69.56	86.370	
14,200.00	7,630.00	7,809.75	7,649.05	97.60	34.39	101.72	1,647.34	1,317.48	6,107.51	6,037.94	69.58	87.778	
14,300.00	7,630.00	7,810.61	7,649.91	99.22	34.39	101.88	1,647.34	1,317.49	6,207.40	6,137.79	69.60	89.184	
14,400.00	7,630.00	7,811.47	7,650.77	100.85	34.39	102.04	1,647.33	1,317.49	6,307.28	6,237.65	69.63	90.588	
14,500.00	7,630.00	7,812.33	7,651.63	102.49	34.40	102.20	1,647.32	1,317.50	6,407.17	6,337.52	69.65	91.989	
14,600.00	7,630.00	7,813.18	7,652.48	104.13	34.40	102.36	1,647.31	1,317.50	6,507.06	6,437.38	69.68	93.389	
14,700.00	7,630.00	7,814.03	7,653.33	105.77	34.40	102.52	1,647.30	1,317.51	6,606.95	6,537.25	69.70	94.786	
14,800.00	7,630.00	7,814.88	7,654.18	107.42	34.40	102.68	1,647.29	1,317.51	6,706.85	6,637.12	69.73	96.181	
14,900.00	7,630.00	7,815.73	7,655.03	109.07	34.41	102.83	1,647.29	1,317.52	6,806.75	6,736.99	69.76	97.574	
15,000.00	7,630.00	7,816.57	7,655.87	110.72	34.41	102.99	1,647.28	1,317.52	6,906.65	6,836.86	69.79	98.965	
15,100.00	7,630.00	7,817.41	7,656.71	112.38	34.41	103.14	1,647.27	1,317.53	7,006.56	6,936.74	69.82	100.353	
15,200.00	7,630.00	7,818.25	7,657.55	114.04	34.41	103.30	1,647.26	1,317.53	7,106.47	7,036.62	69.85	101.739	
15,300.00	7,630.00	7,819.09	7,658.39	115.71	34.41	103.45	1,647.25	1,317.54	7,206.38	7,136.50	69.88	103.122	
15,400.00	7,630.00	7,819.92	7,659.22	117.37	34.42	103.61	1,647.25	1,317.54	7,306.29	7,236.38	69.91	104.503	
15,500.00	7,630.00	7,820.75	7,660.05	119.04	34.42	103.76	1,647.24	1,317.55	7,406.21	7,336.26	69.95	105.882	
15,600.00	7,630.00	7,821.58	7,660.88	120.71	34.42	103.91	1,647.23	1,317.55	7,506.12	7,436.14	69.98	107.258	
15,700.00	7,630.00	7,822.40	7,661.70	122.39	34.42	104.06	1,647.22	1,317.56	7,606.04	7,536.03	70.02	108.631	
15,800.00	7,630.00	7,823.22	7,662.52	124.06	34.42	104.21	1,647.21	1,317.56	7,705.97	7,635.91	70.05	110.002	
15,900.00	7,630.00	7,824.04	7,663.34	125.74	34.43	104.36	1,647.21	1,317.57	7,805.89	7,735.80	70.09	111.371	
16,000.00	7,630.00	7,824.86	7,664.16	127.42	34.43	104.51	1,647.20	1,317.57	7,905.81	7,835.69	70.13	112.737	
16,100.00	7,630.00	7,825.68	7,664.98	129.10	34.43	104.66	1,647.19	1,317.58	8,005.74	7,935.58	70.16	114.100	
16,200.00	7,630.00	7,826.49	7,665.79	130.79	34.43	104.81	1,647.18	1,317.58	8,105.67	8,035.47	70.20	115.460	
16,300.00	7,630.00	7,827.30	7,666.60	132.48	34.44	104.96	1,647.18	1,317.59	8,205.60	8,135.36	70.24	116.818	
16,400.00	7,630.00	7,828.10	7,667.40	134.17	34.44	105.10	1,647.17	1,317.59	8,305.53	8,235.25	70.28	118.173	
16,500.00	7,630.00	7,828.91	7,668.21	135.86	34.44	105.25	1,647.16	1,317.59	8,405.46	8,335.14	70.32	119.525	
16,600.00	7,630.00	7,829.71	7,669.01	137.55	34.44	105.40	1,647.15	1,317.60	8,505.40	8,435.03	70.37	120.874	
16,700.00	7,630.00	7,830.51	7,669.81	139.24	34.44	105.54	1,647.15	1,317.60	8,605.34	8,534.93	70.41	122.221	
16,800.00	7,630.00	7,831.31	7,670.61	140.94	34.45	105.69	1,647.14	1,317.61	8,705.27	8,634.82	70.45	123.565	
16,900.00	7,630.00	7,832.10	7,671.40	142.64	34.45	105.83	1,647.13	1,317.61	8,805.21	8,734.72	70.49	124.906	
17,000.00	7,630.00	7,832.89	7,672.19	144.34	34.45	105.97	1,647.12	1,317.62	8,905.15	8,834.61	70.54	126.243	
17,100.00	7,630.00	7,833.68	7,672.98	146.04	34.45	106.11	1,647.12	1,317.62	9,005.09	8,934.51	70.58	127.578	
17,200.00	7,630.00	7,834.47	7,673.77	147.74	34.45	106.26	1,647.11	1,317.62	9,105.04	9,034.41	70.63	128.910	
17,300.00	7,630.00	7,835.26	7,674.56	149.44	34.46	106.40	1,647.10	1,317.63	9,204.98	9,134.30	70.68	130.240	
17,400.00	7,630.00	7,836.04	7,675.34	151.15	34.46	106.54	1,647.09	1,317.63	9,304.93	9,234.20	70.72	131.566	
17,500.00	7,630.00	7,836.82	7,676.12	152.86	34.46	106.68	1,647.09	1,317.64	9,404.87	9,334.10	70.77	132.889	
17,600.00	7,630.00	7,837.60	7,676.90	154.56	34.46	106.82	1,647.08	1,317.64	9,504.82	9,434.00	70.82	134.209	
17,700.00	7,630.00	7,838.37	7,677.67	156.27	34.46	106.95	1,647.07	1,317.64	9,604.77	9,533.90	70.87	135.525	
17,800.00	7,630.00	7,839.14	7,678.44	157.98	34.47	107.09	1,647.07	1,317.65	9,704.72	9,633.80	70.92	136.839	
17,900.00	7,630.00	7,839.92	7,679.21	159.70	34.47	107.23	1,647.06	1,317.65	9,804.67	9,733.70	70.97	138.150	
18,000.00	7,630.00	7,840.68	7,679.98	161.41	34.47	107.37	1,647.05	1,317.66	9,904.62	9,833.60	71.02	139.457	

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 120-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	133.12	-2,062.50	2,202.68	3,017.86				
100.00	100.00	73.60	73.60	0.13	0.12	133.12	-2,062.41	2,202.51	3,017.42	3,017.17	0.25	N/A	
200.00	200.00	194.79	194.78	0.49	0.46	133.12	-2,061.61	2,201.78	3,016.52	3,015.56	0.95	3,162.311	
300.00	300.00	881.79	874.08	0.85	3.26	132.03	-1,972.97	2,189.22	3,010.79	3,006.77	4.03	747.608	
400.00	400.00	1,208.65	1,184.70	1.21	5.13	130.78	-1,873.35	2,171.60	2,984.75	2,978.85	5.90	506.008	
500.00	500.00	1,362.02	1,327.49	1.57	6.14	130.06	-1,818.19	2,162.19	2,955.82	2,948.81	7.01	421.599	
600.00	600.00	600.00	1,434.49	1.93	1.84	129.48	-1,774.78	2,154.87	2,926.01	2,922.69	3.32	880.058	
700.00	700.00	1,628.67	1,572.93	2.29	8.03	128.66	-1,715.57	2,144.32	2,894.55	2,885.41	9.13	316.885	
800.00	800.00	1,723.49	1,659.50	2.64	8.73	128.12	-1,677.41	2,137.93	2,863.07	2,853.05	10.03	285.592	
900.00	900.00	1,808.76	1,737.36	3.00	9.36	127.62	-1,643.20	2,131.82	2,831.61	2,820.74	10.87	260.396	
1,000.00	1,000.00	1,873.00	1,796.24	3.36	9.83	127.25	-1,617.87	2,127.52	2,801.16	2,789.55	11.62	241.139	
1,100.00	1,100.00	1,982.95	1,897.09	3.72	10.64	126.60	-1,574.68	2,120.25	2,771.13	2,758.51	12.62	219.624	
1,200.00	1,200.00	2,042.89	1,952.30	4.08	11.08	126.25	-1,551.69	2,116.10	2,741.63	2,728.28	13.35	205.415	
1,300.00	1,300.00	2,142.47	2,044.32	4.44	11.80	125.68	-1,514.31	2,109.00	2,712.81	2,698.52	14.29	189.821	
1,400.00	1,400.00	2,259.81	2,152.30	4.79	12.66	124.97	-1,469.21	2,100.43	2,683.52	2,668.18	15.34	174.883	
1,500.00	1,499.98	2,365.52	2,249.24	5.15	13.44	87.17	-1,427.84	2,092.21	2,653.60	2,637.26	16.35	162.347	
1,600.00	1,599.84	2,443.34	2,320.72	5.51	14.02	87.40	-1,397.71	2,086.02	2,623.87	2,606.67	17.19	152.615	
1,700.00	1,699.45	2,513.27	2,385.26	5.87	14.53	87.72	-1,371.38	2,080.53	2,594.84	2,576.85	17.99	144.226	
1,800.00	1,798.70	2,638.90	2,500.90	6.23	15.45	87.87	-1,323.16	2,071.49	2,565.91	2,546.81	19.10	134.357	
1,900.00	1,897.47	2,708.72	2,564.81	6.60	15.98	88.25	-1,295.37	2,067.12	2,536.69	2,516.76	19.93	127.250	
2,000.00	1,995.62	2,819.08	2,666.08	6.99	16.81	88.61	-1,252.14	2,059.82	2,507.58	2,486.59	20.99	119.463	
2,100.00	2,093.06	2,955.66	2,791.59	7.39	17.83	89.11	-1,199.63	2,047.78	2,477.06	2,454.89	22.17	111.733	
2,200.00	2,189.64	3,062.37	2,888.91	7.82	18.64	89.72	-1,156.87	2,038.41	2,445.57	2,422.34	23.23	105.297	
2,300.00	2,285.27	2,300.00	2,997.21	8.28	12.62	90.41	-1,107.59	2,027.72	2,413.15	2,394.35	18.81	128.323	
2,400.00	2,379.82	3,267.82	3,074.98	8.77	20.26	91.19	-1,071.80	2,019.71	2,380.34	2,354.96	25.38	93.770	
2,500.00	2,473.17	3,343.61	3,143.89	9.31	20.85	92.02	-1,040.95	2,013.08	2,348.58	2,322.22	26.36	89.095	
2,600.00	2,565.21	3,419.23	3,212.72	9.88	21.44	92.91	-1,010.24	2,007.03	2,317.64	2,290.28	27.36	84.697	
2,660.67	2,620.37	3,462.99	3,252.66	10.25	21.77	93.46	-992.66	2,003.78	2,299.40	2,271.43	27.98	82.191	
2,700.00	2,655.96	3,499.04	3,285.62	10.50	22.05	93.61	-978.29	2,001.17	2,287.77	2,259.35	28.41	80.516	
2,800.00	2,746.43	3,615.72	3,392.36	11.15	22.94	94.14	-932.08	1,991.87	2,257.86	2,228.20	29.66	76.136	
2,900.00	2,836.90	3,710.31	3,478.10	11.82	23.68	94.53	-892.78	1,984.74	2,227.16	2,196.33	30.83	72.248	
3,000.00	2,927.37	3,787.03	3,547.86	12.50	24.28	94.86	-861.31	1,979.38	2,197.29	2,165.36	31.93	68.816	
3,100.00	3,017.85	3,871.69	3,625.21	13.21	24.92	95.25	-827.46	1,973.23	2,168.00	2,134.93	33.07	65.563	
3,200.00	3,108.32	3,949.24	3,696.46	13.92	25.50	95.65	-797.39	1,967.44	2,139.46	2,105.29	34.17	62.611	
3,300.00	3,198.79	4,042.74	3,782.36	14.64	26.20	96.12	-761.04	1,961.02	2,111.45	2,076.10	35.35	59.734	
3,400.00	3,289.27	4,141.78	3,873.16	15.38	26.95	96.62	-722.00	1,954.57	2,083.49	2,046.93	36.56	56.991	
3,500.00	3,379.74	4,246.50	3,969.19	16.12	27.74	97.18	-680.92	1,947.10	2,055.34	2,017.55	37.78	54.401	
3,600.00	3,470.21	4,308.68	4,026.49	16.87	28.20	97.53	-657.20	1,942.67	2,027.99	1,989.15	38.84	52.216	
3,700.00	3,560.68	4,392.79	4,104.36	17.62	28.81	98.03	-625.90	1,936.96	2,001.76	1,961.80	39.97	50.086	
3,800.00	3,651.16	4,497.14	4,200.98	18.39	29.56	98.68	-587.13	1,929.81	1,975.75	1,934.59	41.15	48.008	
3,900.00	3,741.63	4,591.89	4,288.65	19.15	30.25	99.28	-551.92	1,922.81	1,949.53	1,907.23	42.30	46.085	
4,000.00	3,832.10	4,697.44	4,386.14	19.92	31.02	99.96	-512.13	1,915.30	1,923.36	1,879.88	43.48	44.233	
4,100.00	3,922.57	4,775.00	4,457.67	20.69	31.59	100.46	-482.63	1,910.09	1,897.45	1,852.86	44.59	42.556	
4,200.00	4,013.05	4,857.99	4,534.44	21.47	32.19	101.00	-451.51	1,905.03	1,872.55	1,826.85	45.70	40.978	
4,300.00	4,103.52	4,927.01	4,598.75	22.25	32.67	101.51	-426.96	1,900.11	1,848.62	1,801.88	46.74	39.554	
4,400.00	4,193.99	4,987.00	4,655.24	23.03	33.08	102.00	-407.22	1,895.78	1,826.73	1,779.01	47.73	38.276	
4,500.00	4,284.47	5,048.68	4,713.75	23.81	33.47	102.53	-388.16	1,891.61	1,806.94	1,758.26	48.68	37.118	
4,600.00	4,374.94	5,112.83	4,774.94	24.60	33.86	103.10	-369.27	1,887.80	1,789.15	1,739.53	49.62	36.058	
4,700.00	4,465.41	5,175.00	4,834.57	25.39	34.23	103.67	-352.01	1,884.43	1,773.38	1,722.86	50.52	35.099	
4,800.00	4,555.88	5,244.71	4,901.78	26.18	34.61	104.34	-333.84	1,880.97	1,759.60	1,708.18	51.42	34.223	
4,900.00	4,646.36	5,304.54	4,959.74	26.97	34.93	104.93	-319.26	1,878.33	1,747.91	1,695.67	52.25	33.454	
5,000.00	4,736.83	5,364.00	5,017.68	27.76	35.23	105.54	-306.05	1,876.28	1,738.85	1,685.81	53.05	32.780	

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 120-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,827.30	5,414.32	5,066.96	28.55	35.46	106.06	-295.98	1,874.96	1,732.50	1,678.73	53.76	32.225	
5,200.00	4,917.77	5,459.00	5,110.91	29.35	35.66	106.54	-287.98	1,874.05	1,728.99	1,674.58	54.41	31.778	
5,282.58	4,992.49	5,516.71	5,167.89	30.01	35.89	107.19	-278.94	1,873.07	1,728.04	1,673.05	54.99	31.425	
5,300.00	5,008.25	5,526.69	5,177.77	30.15	35.92	107.30	-277.53	1,872.90	1,728.08	1,672.98	55.10	31.363	
5,400.00	5,098.72	5,588.94	5,239.50	30.94	36.15	108.03	-269.59	1,871.91	1,729.83	1,674.10	55.73	31.042	
5,500.00	5,189.19	5,655.42	5,305.58	31.74	36.38	108.82	-262.27	1,871.02	1,733.81	1,677.47	56.34	30.775	
5,600.00	5,279.67	5,722.54	5,372.40	32.54	36.59	109.63	-256.10	1,870.10	1,739.95	1,683.03	56.92	30.569	
5,700.00	5,370.14	5,780.51	5,430.22	33.34	36.75	110.35	-251.92	1,869.23	1,748.41	1,691.00	57.41	30.455	
5,800.00	5,460.61	5,836.00	5,485.64	34.14	36.89	111.06	-249.34	1,868.41	1,759.67	1,701.82	57.85	30.419	
5,900.00	5,551.08	5,907.24	5,556.84	34.94	37.05	111.99	-247.36	1,867.34	1,773.25	1,714.91	58.35	30.391	
6,000.00	5,641.56	5,977.72	5,627.31	35.75	37.20	112.90	-246.20	1,866.29	1,788.65	1,729.82	58.83	30.404	
6,100.00	5,732.03	6,055.32	5,704.90	36.55	37.35	113.90	-245.69	1,865.58	1,805.91	1,746.55	59.36	30.425	
6,200.00	5,822.50	6,150.84	5,800.41	37.35	37.54	115.10	-245.10	1,864.67	1,824.04	1,764.03	60.01	30.394	
6,300.00	5,912.97	6,246.00	5,895.56	38.16	37.73	116.27	-244.14	1,864.04	1,842.76	1,782.08	60.68	30.367	
6,400.00	6,003.45	6,338.94	5,988.49	38.96	37.93	117.38	-242.85	1,863.58	1,862.00	1,800.66	61.35	30.352	
6,500.00	6,093.92	6,426.44	6,075.98	39.77	38.12	118.41	-241.73	1,863.28	1,882.12	1,820.15	61.98	30.368	
6,600.00	6,184.39	6,520.90	6,170.44	40.57	38.32	119.49	-240.36	1,863.13	1,902.86	1,840.19	62.67	30.363	
6,700.00	6,274.87	6,608.75	6,258.27	41.38	38.51	120.48	-239.16	1,862.78	1,924.28	1,860.97	63.31	30.393	
6,800.00	6,365.34	6,693.33	6,342.85	42.18	38.69	121.41	-238.20	1,862.60	1,946.61	1,882.68	63.93	30.447	
6,900.00	6,455.81	6,788.04	6,437.56	42.99	38.90	122.43	-237.12	1,862.56	1,969.62	1,904.98	64.64	30.471	
7,000.00	6,546.28	6,878.39	6,527.90	43.80	39.10	123.39	-236.02	1,862.49	1,993.17	1,927.86	65.32	30.516	
7,100.00	6,636.76	6,969.29	6,618.79	44.61	39.30	124.33	-234.91	1,862.45	2,017.32	1,951.32	66.00	30.566	
7,200.00	6,727.23	7,048.94	6,698.44	45.41	39.48	125.13	-234.13	1,862.52	2,042.28	1,975.68	66.59	30.668	
7,300.00	6,817.70	7,142.46	6,791.95	46.22	39.68	126.05	-233.39	1,862.98	2,068.03	2,000.73	67.30	30.728	
7,383.79	6,893.51	7,215.43	6,864.92	46.90	39.84	126.74	-232.65	1,863.73	2,089.93	2,022.08	67.85	30.800	
7,400.00	6,908.25	7,229.20	6,878.69	47.03	39.87	124.61	-232.52	1,863.91	2,094.02	2,026.06	67.96	30.813	
7,450.00	6,954.52	7,272.89	6,922.37	47.40	39.97	116.23	-232.14	1,864.58	2,103.98	2,035.70	68.28	30.815	
7,500.00	7,001.74	7,318.10	6,967.57	47.72	40.07	104.57	-231.76	1,865.46	2,109.89	2,041.29	68.60	30.757	
7,550.00	7,049.55	7,363.57	7,013.02	47.99	40.17	89.47	-231.38	1,866.55	2,111.68	2,042.77	68.91	30.645	
7,600.00	7,097.58	7,408.58	7,058.02	48.21	40.26	72.49	-231.06	1,867.74	2,109.35	2,040.15	69.19	30.484	
7,650.00	7,145.48	7,452.83	7,102.25	48.37	40.36	56.54	-230.79	1,869.00	2,102.89	2,033.44	69.46	30.277	
7,700.00	7,192.88	7,494.72	7,144.12	48.48	40.45	43.61	-230.65	1,870.18	2,092.39	2,022.72	69.68	30.031	
7,750.00	7,239.41	7,535.86	7,185.25	48.54	40.53	33.90	-230.64	1,871.29	2,077.92	2,008.05	69.87	29.739	
7,800.00	7,284.72	7,575.00	7,224.37	48.56	40.62	26.69	-230.75	1,872.30	2,059.58	1,989.54	70.04	29.407	
7,850.00	7,328.47	7,612.87	7,262.23	48.54	40.69	21.23	-230.98	1,873.25	2,037.50	1,967.32	70.18	29.031	
7,900.00	7,370.32	7,647.62	7,296.96	48.47	40.76	16.93	-231.31	1,874.10	2,011.83	1,941.54	70.29	28.621	
7,950.00	7,409.96	7,679.21	7,328.55	48.37	40.83	13.39	-231.76	1,874.84	1,982.78	1,912.41	70.37	28.177	
8,000.00	7,447.08	7,709.05	7,358.38	48.24	40.88	10.31	-232.31	1,875.50	1,950.54	1,880.11	70.43	27.696	
8,050.00	7,481.41	7,739.40	7,388.71	48.07	40.94	7.47	-232.99	1,876.17	1,915.31	1,844.81	70.49	27.170	
8,100.00	7,512.67	7,770.30	7,419.60	47.87	41.00	4.64	-233.71	1,876.89	1,877.25	1,806.68	70.57	26.600	
8,150.00	7,540.64	7,798.15	7,447.42	47.65	41.05	1.59	-234.38	1,877.58	1,836.63	1,765.99	70.64	26.000	
8,200.00	7,565.09	7,822.72	7,471.98	47.40	41.10	-2.02	-234.97	1,878.24	1,793.74	1,723.06	70.69	25.375	
8,250.00	7,585.85	7,841.12	7,490.37	47.14	41.14	-6.63	-235.45	1,878.71	1,748.93	1,678.24	70.69	24.739	
8,300.00	7,602.75	7,856.72	7,505.96	46.86	41.17	-13.04	-235.89	1,879.06	1,702.54	1,631.84	70.70	24.083	
8,350.00	7,615.67	7,869.07	7,518.30	46.58	41.19	-22.74	-236.26	1,879.31	1,654.90	1,584.21	70.69	23.411	
8,400.00	7,624.51	7,878.03	7,527.25	46.28	41.21	-38.29	-236.54	1,879.48	1,606.38	1,535.70	70.68	22.728	
8,450.00	7,629.19	7,883.48	7,532.70	45.98	41.22	-61.90	-236.71	1,879.58	1,557.35	1,486.69	70.66	22.039	
8,481.00	7,630.00	7,885.06	7,534.28	45.79	41.22	-78.91	-236.76	1,879.60	1,526.86	1,456.21	70.65	21.610	
8,500.00	7,630.00	7,885.60	7,534.82	45.68	41.22	-79.02	-236.78	1,879.61	1,508.19	1,437.54	70.65	21.348	
8,600.00	7,630.00	7,888.49	7,537.71	45.11	41.23	-79.61	-236.88	1,879.66	1,410.04	1,339.42	70.62	19.968	
8,700.00	7,630.00	7,891.45	7,540.66	44.56	41.23	-80.21	-236.98	1,879.71	1,312.16	1,241.57	70.59	18.589	
8,800.00	7,630.00	7,894.47	7,543.68	44.05	41.24	-80.82	-237.08	1,879.75	1,214.61	1,144.05	70.57	17.212	

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 120-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			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
8,900.00	7,630.00	7,897.57	7,546.78	43.57	41.24	-81.46	-237.18	1,879.80	1,117.50	1,046.94	70.55	15.839	
9,000.00	7,630.00	7,900.74	7,549.95	43.12	41.25	-82.11	-237.29	1,879.84	1,020.92	950.37	70.55	14.470	
9,100.00	7,630.00	7,903.98	7,553.19	42.70	41.25	-82.77	-237.41	1,879.89	925.07	854.49	70.58	13.107	
9,200.00	7,630.00	7,907.31	7,556.51	42.31	41.26	-83.46	-237.53	1,879.93	830.18	759.54	70.64	11.753	
9,300.00	7,630.00	7,910.72	7,559.92	41.94	41.27	-84.16	-237.65	1,879.98	736.62	665.86	70.76	10.410	
9,400.00	7,630.00	7,914.22	7,563.42	41.59	41.27	-84.88	-237.77	1,880.02	644.99	573.99	71.00	9.085	
9,500.00	7,630.00	7,917.91	7,567.10	41.26	41.28	-85.65	-237.91	1,880.06	556.22	484.80	71.42	7.788	
9,600.00	7,630.00	7,921.65	7,570.84	40.96	41.29	-86.43	-238.05	1,880.10	471.93	399.75	72.18	6.539	
9,700.00	7,630.00	7,925.45	7,574.64	40.68	41.29	-87.22	-238.19	1,880.14	395.01	321.52	73.49	5.375	
9,800.00	7,630.00	7,929.31	7,578.49	40.42	41.30	-88.02	-238.33	1,880.18	330.63	255.03	75.60	4.374	
9,900.00	7,630.00	7,933.22	7,582.41	40.17	41.31	-88.83	-238.48	1,880.22	287.35	209.01	78.34	3.668	
9,983.92	7,630.00	7,936.56	7,585.74	39.98	41.31	-89.53	-238.61	1,880.24	274.84	194.59	80.26	3.425	CC, ES
10,000.00	7,630.00	7,937.20	7,586.38	39.96	41.32	-89.66	-238.63	1,880.25	275.31	194.83	80.49	3.421	SF
10,100.00	7,630.00	7,941.24	7,590.42	40.05	41.32	-90.50	-238.79	1,880.28	298.32	217.58	80.73	3.695	
10,200.00	7,630.00	7,945.34	7,594.52	40.95	41.33	-91.36	-238.94	1,880.31	349.51	269.95	79.56	4.393	
10,300.00	7,630.00	7,949.51	7,598.68	41.94	41.34	-92.22	-239.11	1,880.33	418.67	340.61	78.07	5.363	
10,400.00	7,630.00	7,953.74	7,602.91	42.98	41.35	-93.10	-239.27	1,880.36	498.38	421.60	76.79	6.490	
10,500.00	7,630.00	7,958.04	7,607.21	44.06	41.35	-94.00	-239.44	1,880.38	584.34	508.54	75.80	7.709	
10,600.00	7,630.00	7,962.42	7,611.58	45.17	41.36	-94.90	-239.62	1,880.40	674.15	599.10	75.05	8.983	
10,700.00	7,630.00	7,966.86	7,616.02	46.32	41.37	-95.82	-239.80	1,880.41	766.47	691.99	74.48	10.291	
10,800.00	7,630.00	7,971.38	7,620.53	47.50	41.38	-96.75	-239.98	1,880.42	860.49	786.45	74.04	11.622	
10,900.00	7,630.00	7,975.97	7,625.12	48.70	41.39	-97.69	-240.17	1,880.43	955.70	882.00	73.69	12.968	
11,000.00	7,630.00	7,980.64	7,629.78	49.94	41.39	-98.64	-240.36	1,880.43	1,051.78	978.36	73.42	14.326	
11,100.00	7,630.00	7,985.38	7,634.52	51.20	41.40	-99.60	-240.56	1,880.43	1,148.52	1,075.32	73.19	15.691	
11,200.00	7,630.00	7,990.21	7,639.35	52.48	41.41	-100.58	-240.76	1,880.43	1,245.75	1,172.74	73.01	17.063	
11,300.00	7,630.00	7,995.12	7,644.25	53.79	41.42	-101.56	-240.96	1,880.42	1,343.38	1,270.52	72.86	18.439	
11,400.00	7,630.00	8,000.12	7,649.25	55.12	41.43	-102.56	-241.18	1,880.41	1,441.31	1,368.58	72.73	19.818	
11,500.00	7,630.00	8,005.20	7,654.32	56.46	41.44	-103.56	-241.40	1,880.39	1,539.50	1,466.88	72.62	21.200	
11,600.00	7,630.00	8,010.56	7,659.68	57.83	41.45	-104.61	-241.63	1,880.37	1,637.89	1,565.37	72.52	22.584	
11,700.00	7,630.00	8,016.62	7,665.73	59.22	41.46	-105.79	-241.89	1,880.34	1,736.46	1,664.02	72.43	23.973	
11,800.00	7,630.00	8,022.89	7,672.00	60.62	41.47	-106.99	-242.17	1,880.29	1,835.16	1,762.80	72.36	25.362	
11,900.00	7,630.00	8,029.39	7,678.49	62.04	41.48	-108.22	-242.47	1,880.24	1,933.98	1,861.69	72.29	26.754	
12,000.00	7,630.00	8,036.13	7,685.22	63.48	41.50	-109.48	-242.78	1,880.17	2,032.90	1,960.68	72.23	28.146	
12,100.00	7,630.00	8,043.12	7,692.20	64.93	41.51	-110.77	-243.11	1,880.09	2,131.91	2,059.74	72.17	29.539	
12,200.00	7,630.00	8,050.38	7,699.45	66.39	41.52	-112.09	-243.46	1,880.00	2,230.99	2,158.87	72.12	30.934	
12,300.00	7,630.00	8,057.92	7,706.98	67.86	41.53	-113.44	-243.83	1,879.89	2,330.14	2,258.06	72.08	32.329	
12,400.00	7,630.00	8,065.76	7,714.81	69.35	41.55	-114.81	-244.22	1,879.75	2,429.33	2,357.30	72.04	33.724	
12,500.00	7,630.00	8,073.92	7,722.96	70.85	41.56	-116.21	-244.64	1,879.60	2,528.58	2,456.58	72.00	35.120	
12,600.00	7,630.00	8,082.42	7,731.45	72.36	41.58	-117.63	-245.08	1,879.43	2,627.87	2,555.90	71.96	36.517	
12,700.00	7,630.00	8,091.28	7,740.29	73.88	41.59	-119.08	-245.55	1,879.23	2,727.19	2,655.26	71.93	37.914	
12,800.00	7,630.00	8,100.52	7,749.52	75.41	41.61	-120.55	-246.06	1,879.00	2,826.54	2,754.64	71.90	39.312	
12,900.00	7,630.00	8,134.80	7,783.72	76.95	41.67	-125.65	-248.11	1,878.30	2,925.90	2,854.18	71.72	40.798	
13,000.00	7,630.00	8,204.11	7,852.82	78.49	41.78	-134.14	-253.48	1,878.22	3,025.19	2,953.83	71.36	42.396	
13,100.00	7,630.00	8,256.16	7,904.61	80.05	41.85	-139.11	-258.53	1,879.48	3,124.35	3,053.22	71.13	43.926	
13,200.00	7,630.00	13,200.00	7,904.87	81.61	48.57	-139.09	-258.88	1,879.96	3,223.19	3,140.18	83.01	38.828	
13,300.00	7,630.00	8,292.00	7,940.20	83.18	41.89	-141.94	-262.49	1,881.05	3,322.45	3,251.36	71.09	46.738	
13,400.00	7,630.00	8,292.00	7,940.20	84.76	41.89	-141.94	-262.49	1,881.05	3,421.56	3,350.41	71.16	48.085	
13,500.00	7,630.00	8,292.00	7,940.20	86.34	41.89	-141.94	-262.49	1,881.05	3,520.73	3,449.51	71.22	49.433	
13,600.00	7,630.00	8,292.00	7,940.20	87.94	41.89	-141.94	-262.49	1,881.05	3,619.94	3,548.65	71.29	50.780	
13,700.00	7,630.00	8,292.00	7,940.20	89.53	41.89	-141.94	-262.49	1,881.05	3,719.20	3,647.85	71.35	52.126	
13,800.00	7,630.00	8,292.00	7,940.20	91.13	41.89	-141.94	-262.49	1,881.05	3,818.49	3,747.08	71.41	53.472	
13,900.00	7,630.00	8,292.00	7,940.20	92.74	41.89	-141.94	-262.49	1,881.05	3,917.82	3,846.35	71.47	54.817	

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 120-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,630.00	8,322.93	7,970.91	94.35	41.94	-144.09	-265.81	1,882.58	4,016.80	3,945.38	71.42	56.239	
14,100.00	7,630.00	8,325.97	7,973.94	95.97	41.94	-144.29	-266.11	1,882.72	4,116.12	4,044.64	71.47	57.589	
14,200.00	7,630.00	8,328.92	7,976.86	97.60	41.95	-144.48	-266.39	1,882.85	4,215.46	4,143.94	71.53	58.936	
14,300.00	7,630.00	8,331.76	7,979.69	99.22	41.95	-144.67	-266.66	1,882.98	4,314.83	4,243.25	71.58	60.283	
14,400.00	7,630.00	8,334.51	7,982.43	100.85	41.96	-144.84	-266.92	1,883.10	4,414.22	4,342.59	71.63	61.628	
14,500.00	7,630.00	8,337.18	7,985.08	102.49	41.96	-145.01	-267.16	1,883.22	4,513.63	4,441.95	71.68	62.971	
14,600.00	7,630.00	8,339.75	7,987.64	104.13	41.96	-145.17	-267.39	1,883.34	4,613.06	4,541.33	71.73	64.312	
14,700.00	7,630.00	8,342.25	7,990.13	105.77	41.97	-145.33	-267.61	1,883.45	4,712.51	4,640.73	71.78	65.652	
14,800.00	7,630.00	8,344.68	7,992.54	107.42	41.97	-145.48	-267.83	1,883.55	4,811.98	4,740.15	71.83	66.991	
14,900.00	7,630.00	8,347.03	7,994.88	109.07	41.97	-145.62	-268.03	1,883.65	4,911.47	4,839.59	71.88	68.328	
15,000.00	7,630.00	8,349.31	7,997.15	110.72	41.98	-145.76	-268.22	1,883.75	5,010.97	4,939.04	71.93	69.663	
15,100.00	7,630.00	8,351.52	7,999.36	112.38	41.98	-145.90	-268.41	1,883.84	5,110.49	5,038.51	71.98	70.996	
15,200.00	7,630.00	8,386.00	8,033.72	114.04	42.03	-147.87	-270.94	1,885.18	5,210.41	5,138.45	71.96	72.405	
15,300.00	7,630.00	8,386.00	8,033.72	115.71	42.03	-147.87	-270.94	1,885.18	5,309.91	5,237.89	72.02	73.729	
15,400.00	7,630.00	8,386.00	8,033.72	117.37	42.03	-147.87	-270.94	1,885.18	5,409.43	5,337.35	72.08	75.050	
15,500.00	7,630.00	8,386.00	8,033.72	119.04	42.03	-147.87	-270.94	1,885.18	5,508.96	5,436.83	72.13	76.371	
15,600.00	7,630.00	8,386.00	8,033.72	120.71	42.03	-147.87	-270.94	1,885.18	5,608.51	5,536.32	72.19	77.689	
15,700.00	7,630.00	8,386.00	8,033.72	122.39	42.03	-147.87	-270.94	1,885.18	5,708.08	5,635.83	72.25	79.006	
15,800.00	7,630.00	8,386.00	8,033.72	124.06	42.03	-147.87	-270.94	1,885.18	5,807.66	5,735.35	72.31	80.322	
15,900.00	7,630.00	8,386.00	8,033.72	125.74	42.03	-147.87	-270.94	1,885.18	5,907.25	5,834.89	72.36	81.635	
16,000.00	7,630.00	8,386.00	8,033.72	127.42	42.03	-147.87	-270.94	1,885.18	6,006.86	5,934.45	72.42	82.947	
16,100.00	7,630.00	8,386.00	8,033.72	129.10	42.03	-147.87	-270.94	1,885.18	6,106.49	6,034.01	72.47	84.257	
16,200.00	7,630.00	8,386.00	8,033.72	130.79	42.03	-147.87	-270.94	1,885.18	6,206.12	6,133.59	72.53	85.566	
16,300.00	7,630.00	8,386.00	8,033.72	132.48	42.03	-147.87	-270.94	1,885.18	6,305.76	6,233.18	72.59	86.872	
16,400.00	7,630.00	8,386.00	8,033.72	134.17	42.03	-147.87	-270.94	1,885.18	6,405.42	6,332.78	72.64	88.177	
16,500.00	7,630.00	8,386.00	8,033.72	135.86	42.03	-147.87	-270.94	1,885.18	6,505.09	6,432.39	72.70	89.480	
16,600.00	7,630.00	8,386.00	8,033.72	137.55	42.03	-147.87	-270.94	1,885.18	6,604.77	6,532.01	72.76	90.781	
16,700.00	7,630.00	8,386.00	8,033.72	139.24	42.03	-147.87	-270.94	1,885.18	6,704.45	6,631.64	72.81	92.079	
16,800.00	7,630.00	8,386.00	8,033.72	140.94	42.03	-147.87	-270.94	1,885.18	6,804.15	6,731.28	72.87	93.376	
16,900.00	7,630.00	8,386.00	8,033.72	142.64	42.03	-147.87	-270.94	1,885.18	6,903.85	6,830.93	72.92	94.671	
17,000.00	7,630.00	8,386.00	8,033.72	144.34	42.03	-147.87	-270.94	1,885.18	7,003.57	6,930.58	72.98	95.964	
17,100.00	7,630.00	8,386.00	8,033.72	146.04	42.03	-147.87	-270.94	1,885.18	7,103.29	7,030.25	73.04	97.254	
17,200.00	7,630.00	8,386.00	8,033.72	147.74	42.03	-147.87	-270.94	1,885.18	7,203.02	7,129.92	73.10	98.543	
17,300.00	7,630.00	8,386.00	8,033.72	149.44	42.03	-147.87	-270.94	1,885.18	7,302.75	7,229.60	73.15	99.829	
17,400.00	7,630.00	8,386.00	8,033.72	151.15	42.03	-147.87	-270.94	1,885.18	7,402.50	7,329.29	73.21	101.113	
17,500.00	7,630.00	8,386.00	8,033.72	152.86	42.03	-147.87	-270.94	1,885.18	7,502.25	7,428.98	73.27	102.395	
17,600.00	7,630.00	8,386.00	8,033.72	154.56	42.03	-147.87	-270.94	1,885.18	7,602.00	7,528.68	73.33	103.674	
17,700.00	7,630.00	8,386.00	8,033.72	156.27	42.03	-147.87	-270.94	1,885.18	7,701.77	7,628.38	73.38	104.951	
17,800.00	7,630.00	8,386.00	8,033.72	157.98	42.03	-147.87	-270.94	1,885.18	7,801.54	7,728.09	73.44	106.226	
17,900.00	7,630.00	8,386.00	8,033.72	159.70	42.03	-147.87	-270.94	1,885.18	7,901.31	7,827.81	73.50	107.499	
18,000.00	7,630.00	8,386.00	8,033.72	161.41	42.03	-147.87	-270.94	1,885.18	8,001.09	7,927.53	73.56	108.769	
18,100.00	7,630.00	8,386.00	8,033.72	163.12	42.03	-147.87	-270.94	1,885.18	8,100.88	8,027.26	73.62	110.037	
18,154.00	7,630.00	8,386.00	8,033.72	164.05	42.03	-147.87	-270.94	1,885.18	8,154.77	8,081.12	73.65	110.721	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	70.39	771.66	2,166.03	2,299.75				
100.00	100.00	61.71	61.71	0.13	0.10	70.40	771.44	2,166.07	2,299.35	2,299.11	0.23	9,840.528	
200.00	200.00	166.43	166.42	0.49	0.36	70.43	770.28	2,166.24	2,299.13	2,298.28	0.85	2,710.703	
300.00	300.00	270.22	270.21	0.85	0.73	70.44	769.51	2,166.06	2,298.71	2,297.13	1.58	1,456.663	
400.00	400.00	360.01	360.00	1.21	1.05	70.45	768.95	2,165.90	2,298.35	2,296.09	2.26	1,018.626	
405.87	405.87	364.88	364.87	1.23	1.06	70.45	768.92	2,165.91	2,298.35	2,296.05	2.29	1,001.610	
500.00	500.00	451.10	451.08	1.57	1.37	70.47	768.42	2,166.32	2,298.58	2,295.64	2.94	782.700	
600.00	600.00	539.68	539.67	1.93	1.68	70.48	768.19	2,166.88	2,299.10	2,295.49	3.61	637.522	
700.00	700.00	632.00	631.98	2.29	2.00	70.50	767.93	2,168.06	2,300.20	2,295.91	4.29	536.257	
800.00	800.00	729.17	729.14	2.64	2.35	70.51	767.71	2,169.37	2,301.40	2,296.41	4.99	461.223	
900.00	900.00	831.94	831.89	3.00	2.71	70.52	767.88	2,170.74	2,302.71	2,297.00	5.71	403.257	
1,000.00	1,000.00	947.64	947.59	3.36	3.11	70.52	768.30	2,171.66	2,303.59	2,297.12	6.47	355.994	
1,100.00	1,100.00	1,051.79	1,051.73	3.72	3.46	70.49	769.56	2,171.64	2,303.98	2,296.80	7.18	320.767	
1,200.00	1,200.00	1,135.89	1,135.82	4.08	3.75	70.46	770.79	2,171.82	2,304.66	2,296.83	7.83	294.336	
1,300.00	1,300.00	1,236.74	1,236.67	4.44	4.10	70.43	772.15	2,172.14	2,305.41	2,296.87	8.54	270.012	
1,400.00	1,400.00	1,296.15	1,296.05	4.79	4.31	70.40	773.65	2,172.77	2,307.25	2,298.15	9.10	253.487	
1,500.00	1,499.98	1,355.41	1,355.23	5.15	4.52	32.54	776.24	2,174.11	2,309.39	2,299.73	9.66	239.028	
1,600.00	1,599.84	1,409.00	1,408.69	5.51	4.71	32.50	779.53	2,175.95	2,310.37	2,300.17	10.20	226.602	
1,700.00	1,699.45	1,477.30	1,476.72	5.87	4.95	32.49	784.75	2,179.14	2,310.06	2,299.28	10.78	214.201	
1,800.00	1,798.70	1,536.39	1,535.46	6.23	5.16	32.50	790.03	2,182.71	2,308.49	2,297.15	11.34	203.596	
1,900.00	1,897.47	1,598.00	1,596.57	6.60	5.39	32.56	796.29	2,187.43	2,305.83	2,293.93	11.90	193.721	
2,000.00	1,995.62	1,655.14	1,653.12	6.99	5.61	32.64	802.60	2,192.68	2,301.99	2,289.54	12.45	184.845	
2,100.00	2,093.06	1,719.18	1,716.36	7.39	5.85	32.78	810.01	2,199.49	2,296.83	2,283.79	13.04	176.167	
2,200.00	2,189.64	1,787.00	1,783.15	7.82	6.11	32.95	818.67	2,207.48	2,290.23	2,276.59	13.65	167.825	
2,300.00	2,285.27	1,843.47	1,838.59	8.28	6.34	33.14	826.40	2,214.91	2,282.35	2,268.14	14.22	160.524	
2,400.00	2,379.82	1,906.68	1,900.45	8.77	6.60	33.39	835.39	2,224.29	2,273.36	2,258.53	14.83	153.275	
2,500.00	2,473.17	1,975.00	1,967.15	9.31	6.89	33.71	845.42	2,235.17	2,262.78	2,247.29	15.49	146.120	
2,600.00	2,565.21	2,029.01	2,019.73	9.88	7.12	34.03	853.23	2,244.73	2,251.03	2,234.94	16.09	139.882	
2,660.67	2,620.37	2,070.00	2,059.49	10.25	7.31	34.30	858.82	2,252.94	2,243.61	2,227.10	16.51	135.899	
2,700.00	2,655.96	2,082.75	2,071.84	10.50	7.36	34.36	860.50	2,255.64	2,238.80	2,222.09	16.72	133.930	
2,800.00	2,746.43	2,151.50	2,138.33	11.15	7.68	34.70	869.04	2,270.89	2,227.73	2,210.30	17.43	127.823	
2,900.00	2,836.90	2,227.68	2,211.85	11.82	8.03	35.13	877.25	2,289.07	2,217.95	2,199.76	18.19	121.915	
3,000.00	2,927.37	2,298.90	2,280.45	12.50	8.38	35.57	883.66	2,307.10	2,209.34	2,190.39	18.95	116.599	
3,100.00	3,017.85	2,366.81	2,345.61	13.21	8.71	35.99	889.95	2,325.15	2,202.25	2,182.55	19.70	111.785	
3,200.00	3,108.32	2,439.14	2,414.78	13.92	9.08	36.45	896.57	2,345.25	2,196.59	2,176.10	20.49	107.197	
3,300.00	3,198.79	2,493.91	2,466.92	14.64	9.37	36.80	901.72	2,361.20	2,192.61	2,171.41	21.20	103.433	
3,400.00	3,289.27	2,548.80	2,518.79	15.38	9.67	37.13	907.66	2,378.13	2,190.86	2,168.95	21.91	99.987	
3,500.00	3,379.74	2,645.00	2,609.42	16.12	10.23	37.73	918.06	2,408.67	2,190.32	2,167.44	22.88	95.733	
3,600.00	3,470.21	2,770.75	2,728.23	16.87	10.96	38.52	931.04	2,447.77	2,189.22	2,165.18	24.04	91.066	
3,700.00	3,560.68	2,871.36	2,823.46	17.62	11.56	39.12	942.37	2,478.19	2,187.75	2,162.69	25.07	87.271	
3,800.00	3,651.16	2,966.44	2,913.42	18.39	12.13	39.69	953.36	2,506.94	2,186.59	2,160.51	26.08	83.843	
3,900.00	3,741.63	3,053.63	2,995.88	19.15	12.66	40.21	963.34	2,533.44	2,185.81	2,158.76	27.06	80.783	
3,928.39	3,767.32	3,075.57	3,016.59	19.37	12.80	40.34	965.92	2,540.21	2,185.77	2,158.45	27.32	80.003	
4,000.00	3,832.10	3,138.74	3,076.14	19.92	13.19	40.71	973.54	2,559.88	2,186.01	2,157.98	28.04	77.971	
4,100.00	3,922.57	3,248.03	3,179.22	20.69	13.88	41.35	986.77	2,593.68	2,186.34	2,157.17	29.18	74.930	
4,200.00	4,013.05	3,362.63	3,287.65	21.47	14.60	42.05	999.21	2,628.63	2,186.27	2,155.90	30.37	71.992	
4,291.73	4,096.03	3,448.82	3,369.33	22.18	15.15	42.58	1,008.58	2,654.50	2,185.98	2,154.63	31.35	69.719	
4,300.00	4,103.52	3,455.84	3,375.98	22.25	15.19	42.62	1,009.38	2,656.62	2,185.99	2,154.55	31.44	69.532	
4,400.00	4,193.99	3,549.00	3,464.08	23.03	15.78	43.17	1,020.35	2,684.84	2,186.33	2,153.81	32.52	67.229	
4,500.00	4,284.47	3,677.14	3,585.45	23.81	16.60	43.92	1,035.46	2,723.05	2,186.48	2,152.64	33.84	64.618	
4,580.81	4,357.58	3,745.58	3,650.44	24.45	17.03	44.33	1,043.13	2,743.08	2,186.22	2,151.53	34.69	63.025	
4,600.00	4,374.94	3,761.90	3,665.93	24.60	17.13	44.43	1,044.89	2,747.91	2,186.24	2,151.34	34.89	62.658	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
4,700.00	4,465.41	3,874.98	3,773.30	25.39	17.85	45.11	1,057.60	2,781.06	2,186.23	2,150.09	36.14	60.496	
4,734.60	4,496.72	3,903.58	3,800.46	25.66	18.03	45.28	1,060.87	2,789.37	2,186.20	2,149.69	36.51	59.886	
4,800.00	4,555.88	3,961.86	3,855.82	26.18	18.40	45.64	1,067.20	2,806.43	2,186.33	2,149.09	37.23	58.723	
4,900.00	4,646.36	4,042.67	3,932.47	26.97	18.92	46.13	1,075.98	2,830.48	2,187.22	2,148.92	38.30	57.115	
5,000.00	4,736.83	4,177.48	4,060.33	27.76	19.78	46.91	1,092.41	2,869.93	2,187.97	2,148.25	39.72	55.081	
5,100.00	4,827.30	4,280.88	4,158.80	28.55	20.43	47.50	1,104.97	2,898.86	2,187.60	2,146.65	40.95	53.415	
5,109.12	4,835.56	4,287.95	4,165.54	28.63	20.48	47.55	1,105.77	2,900.85	2,187.60	2,146.55	41.05	53.287	
5,200.00	4,917.77	4,364.12	4,238.07	29.35	20.96	48.02	1,113.73	2,922.70	2,188.03	2,145.96	42.07	52.007	
5,300.00	5,008.25	4,469.80	4,338.63	30.15	21.62	48.66	1,125.35	2,953.06	2,188.85	2,145.51	43.34	50.498	
5,400.00	5,098.72	4,565.05	4,429.36	30.94	22.23	49.23	1,136.18	2,979.92	2,189.39	2,144.83	44.56	49.131	
5,500.00	5,189.19	4,659.18	4,518.60	31.74	22.83	49.74	1,148.76	3,007.11	2,190.89	2,145.11	45.78	47.859	
5,600.00	5,279.67	4,801.39	4,654.19	32.54	23.73	50.55	1,165.97	3,046.37	2,191.25	2,143.93	47.32	46.303	
5,700.00	5,370.14	4,901.11	4,749.82	33.34	24.33	51.19	1,175.68	3,072.91	2,190.85	2,142.25	48.60	45.077	
5,800.00	5,460.61	5,069.91	4,912.81	34.14	25.30	52.33	1,189.55	3,114.53	2,188.54	2,138.23	50.31	43.501	
5,900.00	5,551.08	5,355.18	5,192.29	34.94	26.69	54.44	1,207.48	3,167.97	2,180.30	2,127.81	52.49	41.540	
6,000.00	5,641.56	5,742.45	5,578.00	35.75	28.00	57.86	1,216.57	3,196.79	2,161.10	2,106.70	54.40	39.727	
6,100.00	5,732.03	5,845.18	5,680.72	36.55	28.27	58.86	1,217.32	3,197.54	2,137.83	2,082.16	55.66	38.405	
6,200.00	5,822.50	5,925.48	5,761.01	37.35	28.48	59.66	1,218.01	3,198.18	2,115.18	2,058.25	56.93	37.152	
6,300.00	5,912.97	6,014.28	5,849.80	38.16	28.72	60.55	1,218.85	3,199.20	2,093.43	2,035.21	58.22	35.957	
6,400.00	6,003.45	6,111.77	5,947.28	38.96	28.98	61.54	1,220.04	3,200.25	2,072.18	2,012.65	59.53	34.812	
6,500.00	6,093.92	6,210.45	6,045.95	39.77	29.25	62.56	1,221.17	3,200.93	2,051.19	1,990.35	60.84	33.713	
6,600.00	6,184.39	6,306.76	6,142.26	40.57	29.50	63.58	1,222.17	3,201.26	2,030.53	1,968.36	62.17	32.662	
6,700.00	6,274.87	6,395.56	6,231.05	41.38	29.74	64.55	1,222.67	3,201.41	2,010.44	1,946.94	63.50	31.659	
6,800.00	6,365.34	6,484.32	6,319.82	42.18	29.97	65.55	1,222.82	3,201.61	1,991.17	1,926.31	64.85	30.703	
6,900.00	6,455.81	6,562.96	6,398.46	42.99	30.19	66.44	1,223.22	3,202.05	1,972.85	1,906.64	66.20	29.799	
7,000.00	6,546.28	6,654.57	6,490.06	43.80	30.44	67.48	1,223.50	3,203.09	1,955.80	1,888.22	67.57	28.943	
7,100.00	6,636.76	6,749.87	6,585.35	44.61	30.70	68.60	1,223.84	3,203.67	1,939.01	1,870.06	68.95	28.120	
7,200.00	6,727.23	6,841.07	6,676.55	45.41	30.96	69.66	1,224.63	3,204.45	1,923.10	1,852.76	70.34	27.341	
7,300.00	6,817.70	6,937.59	6,773.06	46.22	31.23	70.79	1,225.99	3,205.19	1,907.73	1,836.01	71.73	26.598	
7,383.79	6,893.51	7,021.02	6,856.48	46.90	31.46	71.79	1,226.95	3,205.51	1,895.24	1,822.35	72.89	26.001	
7,400.00	6,908.25	7,037.82	6,873.28	47.03	31.51	69.40	1,227.11	3,205.51	1,892.76	1,819.65	73.11	25.888	
7,450.00	6,954.52	7,089.26	6,924.71	47.40	31.65	60.15	1,227.57	3,205.41	1,884.05	1,810.31	73.74	25.548	
7,500.00	7,001.74	7,139.35	6,974.80	47.72	31.79	47.42	1,228.18	3,205.26	1,873.77	1,799.49	74.29	25.224	
7,550.00	7,049.55	7,188.59	7,024.04	47.99	31.92	31.09	1,228.98	3,205.11	1,861.94	1,787.21	74.73	24.914	
7,600.00	7,097.58	7,236.22	7,071.66	48.21	32.05	12.69	1,229.76	3,204.97	1,848.66	1,773.58	75.09	24.620	
7,650.00	7,145.48	7,282.10	7,117.53	48.37	32.18	-4.86	1,230.47	3,204.83	1,834.02	1,758.68	75.34	24.342	
7,700.00	7,192.88	7,325.81	7,161.24	48.48	32.30	-19.54	1,231.07	3,204.76	1,818.20	1,742.69	75.51	24.080	
7,750.00	7,239.41	7,369.00	7,204.43	48.54	32.42	-31.19	1,231.61	3,204.75	1,801.34	1,725.76	75.58	23.834	
7,800.00	7,284.72	7,411.56	7,246.99	48.56	32.54	-40.47	1,232.07	3,204.79	1,783.61	1,708.06	75.56	23.607	
7,850.00	7,328.47	7,452.71	7,288.14	48.54	32.66	-48.10	1,232.44	3,204.86	1,765.22	1,689.78	75.44	23.399	
7,900.00	7,370.32	7,492.31	7,327.73	48.47	32.77	-54.60	1,232.66	3,204.94	1,746.41	1,671.18	75.23	23.215	
7,950.00	7,409.96	7,530.01	7,365.44	48.37	32.87	-60.29	1,232.69	3,205.01	1,727.44	1,652.51	74.93	23.055	
8,000.00	7,447.08	7,567.45	7,402.87	48.24	32.97	-65.42	1,232.57	3,205.06	1,708.59	1,634.06	74.53	22.925	
8,050.00	7,481.41	7,603.18	7,438.60	48.07	33.07	-70.07	1,232.40	3,205.07	1,690.13	1,616.09	74.04	22.827	
8,100.00	7,512.67	7,635.85	7,471.27	47.87	33.15	-74.27	1,232.20	3,205.04	1,672.39	1,598.93	73.46	22.765	
8,150.00	7,540.64	7,662.85	7,498.27	47.65	33.22	-77.94	1,232.00	3,205.01	1,655.74	1,582.94	72.81	22.742	SF
8,200.00	7,565.09	7,686.51	7,521.93	47.40	33.28	-81.14	1,231.80	3,205.00	1,640.54	1,568.46	72.08	22.761	
8,250.00	7,585.85	7,706.74	7,542.15	47.14	33.34	-83.87	1,231.62	3,205.00	1,627.09	1,555.81	71.29	22.825	
8,300.00	7,602.75	7,723.36	7,558.77	46.86	33.38	-86.11	1,231.46	3,205.00	1,615.69	1,545.24	70.44	22.936	
8,350.00	7,615.67	7,736.22	7,571.64	46.58	33.41	-87.84	1,231.32	3,205.01	1,606.57	1,537.01	69.56	23.095	
8,400.00	7,624.51	7,744.32	7,579.73	46.28	33.44	-89.03	1,231.24	3,205.02	1,599.96	1,531.29	68.67	23.301	
8,450.00	7,629.19	7,748.97	7,584.39	45.98	33.45	-89.71	1,231.19	3,205.03	1,596.00	1,528.23	67.76	23.553	

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 122-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,481.00	7,630.00	7,749.98	7,585.40	45.79	33.45	-89.87	1,231.18	3,205.03	1,594.91	1,527.70	67.20	23.732	ES
8,500.00	7,630.00	7,750.16	7,585.57	45.68	33.45	-89.88	1,231.18	3,205.03	1,594.68	1,527.81	66.87	23.848	
8,509.67	7,630.00	7,750.25	7,585.66	45.62	33.45	-89.88	1,231.18	3,205.03	1,594.65	1,527.95	66.70	23.906	CC
8,600.00	7,630.00	7,751.08	7,586.49	45.11	33.45	-89.91	1,231.17	3,205.04	1,597.21	1,531.99	65.22	24.489	
8,700.00	7,630.00	7,751.99	7,587.41	44.56	33.46	-89.94	1,231.16	3,205.04	1,605.97	1,542.16	63.81	25.168	
8,800.00	7,630.00	7,752.91	7,588.32	44.05	33.46	-89.98	1,231.15	3,205.04	1,620.86	1,558.19	62.68	25.860	
8,900.00	7,630.00	7,753.82	7,589.24	43.57	33.46	-90.01	1,231.14	3,205.04	1,641.72	1,579.87	61.85	26.542	
9,000.00	7,630.00	7,754.73	7,590.15	43.12	33.46	-90.04	1,231.13	3,205.04	1,668.33	1,606.98	61.35	27.194	
9,100.00	7,630.00	7,755.64	7,591.06	42.70	33.47	-90.07	1,231.12	3,205.05	1,700.40	1,639.25	61.16	27.805	
9,200.00	7,630.00	7,756.55	7,591.97	42.31	33.47	-90.11	1,231.12	3,205.05	1,737.65	1,676.41	61.24	28.373	
9,300.00	7,630.00	7,757.46	7,592.88	41.94	33.47	-90.14	1,231.11	3,205.05	1,779.74	1,718.16	61.58	28.902	
9,400.00	7,630.00	7,758.37	7,593.78	41.59	33.47	-90.17	1,231.10	3,205.05	1,826.34	1,764.23	62.12	29.402	
9,500.00	7,630.00	7,759.27	7,594.69	41.26	33.48	-90.20	1,231.09	3,205.06	1,877.12	1,814.31	62.81	29.886	
9,600.00	7,630.00	7,760.17	7,595.59	40.96	33.48	-90.24	1,231.08	3,205.06	1,931.74	1,868.12	63.62	30.364	
9,700.00	7,630.00	7,761.08	7,596.49	40.68	33.48	-90.27	1,231.07	3,205.06	1,989.89	1,925.39	64.51	30.848	
9,800.00	7,630.00	7,761.98	7,597.39	40.42	33.48	-90.30	1,231.06	3,205.06	2,051.27	1,985.83	65.44	31.345	
9,900.00	7,630.00	7,762.87	7,598.29	40.17	33.49	-90.33	1,231.05	3,205.07	2,115.60	2,049.20	66.40	31.862	
10,000.00	7,630.00	7,763.77	7,599.19	39.96	33.49	-90.37	1,231.04	3,205.07	2,182.61	2,115.25	67.36	32.402	
10,100.00	7,630.00	7,764.67	7,600.08	40.05	33.49	-90.40	1,231.03	3,205.07	2,252.07	2,183.76	68.31	32.969	
10,200.00	7,630.00	7,765.56	7,600.98	40.95	33.49	-90.43	1,231.02	3,205.07	2,323.76	2,254.53	69.24	33.562	
10,300.00	7,630.00	7,766.45	7,601.87	41.94	33.50	-90.46	1,231.01	3,205.08	2,397.48	2,327.34	70.14	34.184	
10,400.00	7,630.00	7,767.34	7,602.76	42.98	33.50	-90.49	1,231.01	3,205.08	2,473.04	2,402.04	71.00	34.832	
10,500.00	7,630.00	7,768.23	7,603.65	44.06	33.50	-90.53	1,231.00	3,205.08	2,550.29	2,478.46	71.83	35.506	
10,600.00	7,630.00	7,769.12	7,604.54	45.17	33.50	-90.56	1,230.99	3,205.09	2,629.07	2,556.45	72.62	36.204	
10,700.00	7,630.00	7,770.01	7,605.42	46.32	33.51	-90.59	1,230.98	3,205.09	2,709.25	2,635.88	73.37	36.926	
10,800.00	7,630.00	7,770.89	7,606.31	47.50	33.51	-90.62	1,230.97	3,205.09	2,790.71	2,716.63	74.08	37.670	
10,900.00	7,630.00	7,771.78	7,607.19	48.70	33.51	-90.65	1,230.96	3,205.10	2,873.34	2,798.58	74.76	38.434	
11,000.00	7,630.00	7,772.66	7,608.07	49.94	33.51	-90.69	1,230.95	3,205.10	2,957.04	2,881.64	75.40	39.217	
11,100.00	7,630.00	7,773.54	7,608.96	51.20	33.51	-90.72	1,230.94	3,205.10	3,041.73	2,965.72	76.01	40.017	
11,200.00	7,630.00	7,774.42	7,609.83	52.48	33.52	-90.75	1,230.93	3,205.11	3,127.32	3,050.74	76.59	40.834	
11,300.00	7,630.00	7,775.30	7,610.71	53.79	33.52	-90.78	1,230.93	3,205.11	3,213.75	3,136.61	77.13	41.666	
11,400.00	7,630.00	7,776.17	7,611.59	55.12	33.52	-90.81	1,230.92	3,205.11	3,300.94	3,223.29	77.65	42.512	
11,500.00	7,630.00	7,777.05	7,612.46	56.46	33.52	-90.84	1,230.91	3,205.12	3,388.83	3,310.70	78.14	43.371	
11,600.00	7,630.00	7,777.92	7,613.34	57.83	33.53	-90.87	1,230.90	3,205.12	3,477.38	3,398.78	78.60	44.242	
11,700.00	7,630.00	7,778.79	7,614.21	59.22	33.53	-90.91	1,230.89	3,205.12	3,566.54	3,487.50	79.04	45.123	
11,800.00	7,630.00	7,779.66	7,615.08	60.62	33.53	-90.94	1,230.88	3,205.13	3,656.26	3,576.80	79.46	46.015	
11,900.00	7,630.00	7,780.53	7,615.95	62.04	33.53	-90.97	1,230.87	3,205.13	3,746.49	3,666.64	79.85	46.917	
12,000.00	7,630.00	7,781.40	7,616.82	63.48	33.54	-91.00	1,230.86	3,205.13	3,837.22	3,756.98	80.23	47.827	
12,100.00	7,630.00	7,782.27	7,617.68	64.93	33.54	-91.03	1,230.86	3,205.14	3,928.39	3,847.80	80.59	48.745	
12,200.00	7,630.00	7,783.13	7,618.55	66.39	33.54	-91.06	1,230.85	3,205.14	4,019.98	3,939.05	80.93	49.670	
12,300.00	7,630.00	7,784.00	7,619.41	67.86	33.54	-91.09	1,230.84	3,205.15	4,111.96	4,030.70	81.26	50.603	
12,400.00	7,630.00	7,784.86	7,620.27	69.35	33.55	-91.12	1,230.83	3,205.15	4,204.31	4,122.74	81.57	51.542	
12,500.00	7,630.00	7,785.72	7,621.13	70.85	33.55	-91.15	1,230.82	3,205.15	4,297.00	4,215.13	81.87	52.487	
12,600.00	7,630.00	7,786.58	7,621.99	72.36	33.55	-91.19	1,230.81	3,205.16	4,390.01	4,307.86	82.15	53.437	
12,700.00	7,630.00	7,787.43	7,622.85	73.88	33.55	-91.22	1,230.80	3,205.16	4,483.33	4,400.90	82.43	54.393	
12,800.00	7,630.00	7,788.29	7,623.70	75.41	33.55	-91.25	1,230.80	3,205.17	4,576.92	4,494.23	82.69	55.353	
12,900.00	7,630.00	7,789.15	7,624.56	76.95	33.56	-91.28	1,230.79	3,205.17	4,670.78	4,587.84	82.94	56.318	
13,000.00	7,630.00	7,790.00	7,625.41	78.49	33.56	-91.31	1,230.78	3,205.17	4,764.89	4,681.71	83.18	57.286	
13,100.00	7,630.00	7,790.85	7,626.26	80.05	33.56	-91.34	1,230.77	3,205.18	4,859.24	4,775.83	83.41	58.259	
13,200.00	7,630.00	7,791.70	7,627.12	81.61	33.56	-91.37	1,230.76	3,205.18	4,953.80	4,870.17	83.63	59.235	
13,300.00	7,630.00	7,792.55	7,627.96	83.18	33.57	-91.40	1,230.75	3,205.19	5,048.58	4,964.73	83.84	60.215	
13,400.00	7,630.00	7,793.40	7,628.81	84.76	33.57	-91.43	1,230.74	3,205.19	5,143.55	5,059.50	84.05	61.197	

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 122-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,500.00	7,630.00	7,794.25	7,629.66	86.34	33.57	-91.46	1,230.74	3,205.20	5,238.71	5,154.46	84.25	62.182	
13,600.00	7,630.00	7,795.09	7,630.50	87.94	33.57	-91.49	1,230.73	3,205.20	5,334.05	5,249.61	84.44	63.170	
13,700.00	7,630.00	7,795.93	7,631.35	89.53	33.57	-91.52	1,230.72	3,205.21	5,429.55	5,344.93	84.62	64.160	
13,800.00	7,630.00	7,796.78	7,632.19	91.13	33.58	-91.55	1,230.71	3,205.21	5,525.22	5,440.41	84.80	65.153	
13,900.00	7,630.00	7,797.62	7,633.03	92.74	33.58	-91.58	1,230.70	3,205.21	5,621.03	5,536.05	84.98	66.148	
14,000.00	7,630.00	7,798.46	7,633.87	94.35	33.58	-91.61	1,230.70	3,205.22	5,716.99	5,631.84	85.15	67.144	
14,100.00	7,630.00	7,799.30	7,634.71	95.97	33.58	-91.64	1,230.69	3,205.22	5,813.08	5,727.78	85.31	68.142	
14,200.00	7,630.00	7,800.13	7,635.55	97.60	33.59	-91.67	1,230.68	3,205.23	5,909.31	5,823.84	85.47	69.142	
14,300.00	7,630.00	7,800.97	7,636.38	99.22	33.59	-91.70	1,230.67	3,205.23	6,005.65	5,920.03	85.62	70.144	
14,400.00	7,630.00	7,801.80	7,637.21	100.85	33.59	-91.73	1,230.66	3,205.24	6,102.12	6,016.35	85.77	71.146	
14,500.00	7,630.00	7,802.63	7,638.05	102.49	33.59	-91.76	1,230.65	3,205.24	6,198.69	6,112.78	85.91	72.150	
14,600.00	7,630.00	7,803.47	7,638.88	104.13	33.60	-91.79	1,230.65	3,205.25	6,295.38	6,209.32	86.05	73.156	
14,700.00	7,630.00	7,804.30	7,639.71	105.77	33.60	-91.82	1,230.64	3,205.25	6,392.16	6,305.97	86.19	74.162	
14,800.00	7,630.00	7,805.13	7,640.54	107.42	33.60	-91.85	1,230.63	3,205.26	6,489.04	6,402.72	86.33	75.169	
14,900.00	7,630.00	7,805.95	7,641.37	109.07	33.60	-91.88	1,230.62	3,205.26	6,586.02	6,499.56	86.46	76.177	
15,000.00	7,630.00	7,806.78	7,642.19	110.72	33.60	-91.91	1,230.61	3,205.27	6,683.08	6,596.50	86.58	77.185	
15,100.00	7,630.00	7,807.60	7,643.02	112.38	33.61	-91.94	1,230.61	3,205.27	6,780.23	6,693.52	86.71	78.195	
15,200.00	7,630.00	7,808.43	7,643.84	114.04	33.61	-91.97	1,230.60	3,205.28	6,877.46	6,790.63	86.83	79.204	
15,300.00	7,630.00	7,809.25	7,644.66	115.71	33.61	-92.00	1,230.59	3,205.28	6,974.77	6,887.82	86.95	80.215	
15,400.00	7,630.00	7,810.07	7,645.48	117.37	33.61	-92.03	1,230.58	3,205.29	7,072.16	6,985.09	87.07	81.225	
15,500.00	7,630.00	7,810.89	7,646.30	119.04	33.62	-92.06	1,230.57	3,205.29	7,169.61	7,082.43	87.18	82.237	
15,600.00	7,630.00	7,811.71	7,647.12	120.71	33.62	-92.09	1,230.57	3,205.30	7,267.14	7,179.84	87.30	83.248	
15,700.00	7,630.00	7,812.52	7,647.94	122.39	33.62	-92.12	1,230.56	3,205.31	7,364.73	7,277.32	87.41	84.259	
15,800.00	7,630.00	7,813.34	7,648.75	124.06	33.62	-92.15	1,230.55	3,205.31	7,462.38	7,374.87	87.51	85.271	
15,900.00	7,630.00	7,814.15	7,649.57	125.74	33.62	-92.17	1,230.54	3,205.32	7,560.10	7,472.48	87.62	86.283	
16,000.00	7,630.00	7,814.97	7,650.38	127.42	33.63	-92.20	1,230.53	3,205.32	7,657.87	7,570.15	87.72	87.295	
16,100.00	7,630.00	7,815.78	7,651.19	129.10	33.63	-92.23	1,230.53	3,205.33	7,755.71	7,667.88	87.83	88.307	
16,200.00	7,630.00	7,816.59	7,652.00	130.79	33.63	-92.26	1,230.52	3,205.33	7,853.59	7,765.66	87.93	89.319	
16,300.00	7,630.00	7,817.40	7,652.81	132.48	33.63	-92.29	1,230.51	3,205.34	7,951.53	7,863.50	88.03	90.330	
16,400.00	7,630.00	7,818.21	7,653.62	134.17	33.63	-92.32	1,230.50	3,205.34	8,049.52	7,961.40	88.13	91.342	
16,500.00	7,630.00	7,819.01	7,654.43	135.86	33.64	-92.35	1,230.49	3,205.35	8,147.56	8,059.34	88.22	92.353	
16,600.00	7,630.00	7,819.82	7,655.23	137.55	33.64	-92.38	1,230.49	3,205.36	8,245.64	8,157.33	88.32	93.364	
16,700.00	7,630.00	7,820.62	7,656.03	139.24	33.64	-92.41	1,230.48	3,205.36	8,343.77	8,255.36	88.41	94.375	
16,800.00	7,630.00	7,821.43	7,656.84	140.94	33.64	-92.44	1,230.47	3,205.37	8,441.95	8,353.44	88.50	95.385	
16,900.00	7,630.00	7,822.23	7,657.64	142.64	33.65	-92.46	1,230.46	3,205.37	8,540.17	8,451.57	88.60	96.395	
17,000.00	7,630.00	7,823.03	7,658.44	144.34	33.65	-92.49	1,230.46	3,205.38	8,638.42	8,549.74	88.69	97.405	
17,100.00	7,630.00	7,823.83	7,659.24	146.04	33.65	-92.52	1,230.45	3,205.39	8,736.72	8,647.94	88.78	98.414	
17,200.00	7,630.00	7,824.62	7,660.03	147.74	33.65	-92.55	1,230.44	3,205.39	8,835.05	8,746.19	88.86	99.422	
17,300.00	7,630.00	7,825.00	7,660.41	149.44	33.65	-92.56	1,230.44	3,205.39	8,933.43	8,844.47	88.95	100.430	
17,400.00	7,630.00	7,825.00	7,660.41	151.15	33.65	-92.56	1,230.44	3,205.39	9,031.83	8,942.80	89.04	101.438	
17,500.00	7,630.00	7,825.00	7,660.41	152.86	33.65	-92.56	1,230.44	3,205.39	9,130.28	9,041.15	89.12	102.445	
17,600.00	7,630.00	7,825.00	7,660.41	154.56	33.65	-92.56	1,230.44	3,205.39	9,228.75	9,139.54	89.21	103.451	
17,700.00	7,630.00	7,825.00	7,660.41	156.27	33.65	-92.56	1,230.44	3,205.39	9,327.26	9,237.97	89.29	104.457	
17,800.00	7,630.00	7,825.00	7,660.41	157.98	33.65	-92.56	1,230.44	3,205.39	9,425.80	9,336.42	89.38	105.462	
17,900.00	7,630.00	7,825.00	7,660.41	159.70	33.65	-92.56	1,230.44	3,205.39	9,524.37	9,434.91	89.46	106.467	
18,000.00	7,630.00	7,825.00	7,660.41	161.41	33.65	-92.56	1,230.44	3,205.39	9,622.97	9,533.43	89.54	107.470	
18,100.00	7,630.00	7,825.00	7,660.41	163.12	33.65	-92.56	1,230.44	3,205.39	9,721.60	9,631.98	89.62	108.473	
18,154.00	7,630.00	7,825.00	7,660.41	164.05	33.65	-92.56	1,230.44	3,205.39	9,774.87	9,685.21	89.67	109.015	

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 91-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	70.84	753.44	2,168.83	2,296.36				
100.00	100.00	79.59	79.59	0.13	0.13	70.85	753.13	2,168.55	2,295.71	2,295.44	0.26	8,823.722	
200.00	200.00	166.44	166.44	0.49	0.41	70.85	752.69	2,168.00	2,294.96	2,294.06	0.90	2,545.713	
300.00	300.00	275.46	275.45	0.85	0.80	70.84	752.99	2,167.38	2,294.52	2,292.87	1.65	1,393.748	
400.00	400.00	381.54	381.53	1.21	1.17	70.84	752.92	2,166.46	2,293.69	2,291.31	2.38	962.674	
500.00	500.00	539.99	539.91	1.57	1.74	70.91	748.94	2,164.39	2,291.77	2,288.47	3.30	693.787	
600.00	600.00	662.71	662.29	1.93	2.19	71.09	740.52	2,161.68	2,287.38	2,283.28	4.10	557.353	
700.00	700.00	741.47	740.63	2.29	2.48	71.28	732.36	2,161.07	2,283.29	2,278.54	4.75	480.514	
800.00	800.00	819.22	817.71	2.64	2.78	71.53	722.29	2,161.92	2,280.17	2,274.76	5.41	421.781	
900.00	900.00	874.86	872.69	3.00	3.00	71.74	713.97	2,163.69	2,278.49	2,272.51	5.99	380.665	
931.06	931.06	891.44	889.06	3.11	3.07	71.81	711.40	2,164.48	2,278.39	2,272.23	6.16	369.695	
1,000.00	1,000.00	920.00	917.20	3.36	3.18	71.93	706.86	2,166.13	2,278.91	2,272.39	6.52	349.385	
1,100.00	1,100.00	987.23	983.25	3.72	3.46	72.24	695.47	2,171.34	2,281.22	2,274.06	7.16	318.482	
1,200.00	1,200.00	1,039.88	1,034.74	4.08	3.69	72.51	685.86	2,176.68	2,285.50	2,277.76	7.74	295.279	
1,300.00	1,300.00	1,087.77	1,081.39	4.44	3.90	72.77	676.86	2,182.70	2,292.05	2,283.75	8.30	276.081	
1,400.00	1,400.00	1,142.48	1,134.48	4.79	4.15	73.08	666.45	2,190.82	2,300.83	2,291.93	8.90	258.496	
1,500.00	1,499.98	1,206.74	1,196.72	5.15	4.45	35.55	654.46	2,201.36	2,309.99	2,300.45	9.54	242.092	
1,600.00	1,599.84	1,279.00	1,266.78	5.51	4.79	35.90	641.85	2,213.79	2,317.66	2,307.44	10.22	226.766	
1,700.00	1,699.45	1,344.01	1,329.74	5.87	5.10	36.24	630.87	2,225.67	2,323.95	2,313.09	10.87	213.874	
1,800.00	1,798.70	1,411.69	1,395.03	6.23	5.45	36.67	619.10	2,239.08	2,329.06	2,317.53	11.53	202.035	
1,900.00	1,897.47	1,489.93	1,470.13	6.60	5.86	37.25	604.63	2,255.60	2,332.75	2,320.49	12.26	190.226	
2,000.00	1,995.62	1,589.49	1,565.50	6.99	6.40	38.09	585.45	2,276.77	2,334.16	2,321.03	13.14	177.685	
2,100.00	2,093.06	1,679.60	1,651.82	7.39	6.91	38.92	568.15	2,296.01	2,333.49	2,319.52	13.97	167.071	
2,200.00	2,189.64	1,775.51	1,743.78	7.82	7.46	39.87	549.88	2,316.21	2,330.46	2,315.62	14.84	157.010	
2,300.00	2,285.27	1,848.56	1,813.78	8.28	7.88	40.67	536.17	2,331.92	2,325.90	2,310.31	15.60	149.137	
2,400.00	2,379.82	1,968.17	1,928.61	8.77	8.57	42.02	513.95	2,357.01	2,318.91	2,302.27	16.64	139.349	
2,500.00	2,473.17	2,044.05	2,001.46	9.31	9.01	42.99	499.85	2,372.82	2,310.12	2,292.67	17.45	132.407	
2,600.00	2,565.21	2,112.58	2,067.15	9.88	9.41	43.94	487.04	2,387.59	2,300.33	2,282.10	18.23	126.150	
2,660.67	2,620.37	2,179.44	2,131.12	10.25	9.81	44.86	474.23	2,402.21	2,293.84	2,274.95	18.88	121.466	
2,700.00	2,655.96	2,233.00	2,182.34	10.50	10.13	45.56	463.39	2,413.48	2,289.22	2,269.84	19.37	118.163	
2,800.00	2,746.43	2,322.46	2,267.95	11.15	10.68	46.73	445.07	2,431.90	2,277.88	2,257.53	20.35	111.922	
2,900.00	2,836.90	2,386.97	2,329.72	11.82	11.07	47.56	432.25	2,445.38	2,267.96	2,246.77	21.19	107.030	
3,000.00	2,927.37	2,472.38	2,411.53	12.50	11.58	48.67	415.93	2,463.71	2,259.71	2,237.54	22.17	101.921	
3,100.00	3,017.85	2,561.77	2,497.11	13.21	12.13	49.84	398.37	2,482.62	2,252.33	2,229.14	23.20	97.101	
3,200.00	3,108.32	2,646.40	2,578.00	13.92	12.65	50.97	381.07	2,500.51	2,246.15	2,221.94	24.21	92.788	
3,300.00	3,198.79	2,730.89	2,658.86	14.64	13.17	52.08	364.34	2,518.40	2,241.17	2,215.94	25.23	88.838	
3,400.00	3,289.27	2,816.47	2,740.86	15.38	13.69	53.21	347.96	2,536.64	2,237.45	2,211.19	26.26	85.200	
3,500.00	3,379.74	2,922.03	2,842.03	16.12	14.33	54.60	327.64	2,558.81	2,234.68	2,207.25	27.43	81.467	
3,600.00	3,470.21	3,016.34	2,932.66	16.87	14.90	55.85	309.36	2,577.45	2,231.95	2,203.42	28.54	78.214	
3,685.61	3,547.67	3,066.98	2,981.29	17.52	15.20	56.52	299.81	2,587.87	2,231.15	2,201.85	29.30	76.159	
3,700.00	3,560.68	3,076.00	2,989.94	17.62	15.26	56.63	298.13	2,589.78	2,231.17	2,201.74	29.43	75.822	
3,800.00	3,651.16	3,167.69	3,077.84	18.39	15.82	57.84	280.55	2,609.08	2,231.95	2,201.42	30.53	73.108	
3,900.00	3,741.63	3,261.88	3,168.19	19.15	16.39	59.09	262.47	2,628.61	2,233.64	2,201.99	31.65	70.564	
4,000.00	3,832.10	3,350.20	3,253.05	19.92	16.92	60.24	246.09	2,646.82	2,236.29	2,203.55	32.74	68.305	
4,100.00	3,922.57	3,431.91	3,331.53	20.69	17.41	61.30	230.88	2,663.68	2,240.13	2,206.34	33.79	66.303	
4,200.00	4,013.05	3,510.84	3,407.26	21.47	17.89	62.34	215.84	2,680.07	2,245.33	2,210.51	34.82	64.484	
4,300.00	4,103.52	3,589.28	3,482.34	22.25	18.38	63.38	200.03	2,696.38	2,252.00	2,216.15	35.85	62.810	
4,400.00	4,193.99	3,680.74	3,569.93	23.03	18.94	64.57	182.19	2,715.73	2,259.99	2,223.01	36.98	61.120	
4,500.00	4,284.47	3,767.28	3,653.04	23.81	19.47	65.68	166.28	2,733.89	2,268.65	2,230.59	38.06	59.604	
4,600.00	4,374.94	3,838.20	3,720.95	24.60	19.91	66.59	152.59	2,749.05	2,278.99	2,239.95	39.04	58.379	
4,700.00	4,465.41	3,940.65	3,819.12	25.39	20.54	67.90	132.52	2,770.41	2,290.09	2,249.85	40.24	56.910	
4,800.00	4,555.88	4,004.07	3,879.86	26.18	20.93	68.71	120.25	2,783.92	2,302.63	2,261.46	41.16	55.942	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
4,900.00	4,646.36	4,104.40	3,975.87	26.97	21.56	69.97	100.78	2,805.55	2,316.50	2,274.15	42.35	54.701	
5,000.00	4,736.83	4,220.76	4,087.65	27.76	22.26	71.39	79.65	2,830.00	2,330.49	2,286.84	43.64	53.398	
5,100.00	4,827.30	4,286.19	4,150.53	28.55	22.66	72.17	68.01	2,843.86	2,345.42	2,300.85	44.57	52.624	
5,200.00	4,917.77	4,375.42	4,236.16	29.35	23.20	73.25	51.25	2,862.53	2,361.58	2,315.91	45.67	51.709	
5,300.00	5,008.25	4,436.39	4,294.59	30.15	23.58	74.00	39.30	2,875.18	2,378.99	2,332.43	46.56	51.095	
5,400.00	5,098.72	4,494.21	4,349.80	30.94	23.94	74.69	27.88	2,887.99	2,398.47	2,351.05	47.42	50.582	
5,500.00	5,189.19	4,575.08	4,426.85	31.74	24.46	75.66	11.00	2,905.88	2,419.43	2,370.98	48.45	49.932	
5,600.00	5,279.67	4,637.47	4,486.13	32.54	24.88	76.42	-2.75	2,919.60	2,441.82	2,392.48	49.34	49.490	
5,700.00	5,370.14	4,813.06	4,653.66	33.34	25.99	78.48	-39.07	2,957.50	2,464.43	2,413.30	51.13	48.199	
5,800.00	5,460.61	5,030.22	4,863.44	34.14	27.25	80.92	-78.38	2,997.45	2,484.74	2,431.61	53.13	46.766	
5,900.00	5,551.08	5,622.37	5,449.86	34.94	29.58	86.96	-126.42	3,052.08	2,492.40	2,436.06	56.34	44.241	
6,000.00	5,641.56	5,757.79	5,585.27	35.75	29.92	88.28	-127.13	3,053.89	2,491.96	2,434.50	57.46	43.369	
6,100.00	5,732.03	5,860.31	5,687.78	36.55	30.16	89.27	-127.05	3,054.22	2,491.20	2,432.68	58.52	42.572	
6,167.80	5,793.37	5,921.64	5,749.12	37.09	30.30	89.88	-127.18	3,054.19	2,491.03	2,431.81	59.22	42.062	
6,200.00	5,822.50	5,950.84	5,778.31	37.35	30.37	90.16	-127.19	3,054.22	2,491.07	2,431.51	59.56	41.825	
6,300.00	5,912.97	6,052.78	5,880.25	38.16	30.61	91.15	-126.80	3,054.48	2,491.56	2,430.95	60.61	41.107	
6,400.00	6,003.45	6,150.05	5,977.52	38.96	30.82	92.11	-126.43	3,054.00	2,492.23	2,430.58	61.65	40.425	
6,500.00	6,093.92	6,234.52	6,061.99	39.77	31.00	92.94	-126.27	3,053.52	2,493.69	2,431.02	62.67	39.788	
6,600.00	6,184.39	6,319.21	6,146.68	40.57	31.19	93.76	-126.03	3,053.44	2,496.15	2,432.46	63.70	39.187	
6,700.00	6,274.87	6,422.98	6,250.45	41.38	31.43	94.77	-125.92	3,053.17	2,499.35	2,434.60	64.75	38.600	
6,800.00	6,365.34	6,516.83	6,344.29	42.18	31.64	95.69	-125.39	3,052.35	2,502.55	2,436.77	65.78	38.042	
6,900.00	6,455.81	6,590.21	6,417.67	42.99	31.81	96.38	-124.28	3,052.92	2,506.95	2,440.15	66.79	37.534	
7,000.00	6,546.28	6,663.76	6,491.20	43.80	32.00	97.06	-123.41	3,054.02	2,512.67	2,444.88	67.80	37.063	
7,100.00	6,636.76	6,763.33	6,590.76	44.61	32.25	97.99	-122.70	3,055.24	2,519.20	2,450.35	68.85	36.591	
7,200.00	6,727.23	6,829.11	6,656.52	45.41	32.43	98.59	-122.11	3,056.61	2,526.75	2,456.92	69.83	36.184	
7,300.00	6,817.70	6,955.15	6,782.53	46.22	32.76	99.75	-121.07	3,058.96	2,534.96	2,464.03	70.94	35.736	
7,383.79	6,893.51	7,023.98	6,851.36	46.90	32.93	100.40	-121.11	3,058.91	2,541.81	2,470.04	71.77	35.415	
7,400.00	6,908.25	7,039.54	6,866.91	47.03	32.97	98.27	-121.18	3,058.84	2,543.02	2,471.08	71.94	35.351	
7,450.00	6,954.52	7,096.49	6,923.87	47.40	33.11	89.89	-121.31	3,058.47	2,544.48	2,472.04	72.44	35.126	
7,500.00	7,001.74	7,152.79	6,980.16	47.72	33.24	78.04	-121.24	3,058.00	2,542.46	2,469.55	72.90	34.875	
7,550.00	7,049.55	7,207.71	7,035.08	47.99	33.37	62.59	-121.00	3,057.47	2,536.96	2,463.63	73.32	34.599	
7,600.00	7,097.58	7,269.66	7,097.02	48.21	33.51	45.10	-120.49	3,056.78	2,527.94	2,454.23	73.71	34.294	
7,650.00	7,145.48	7,333.40	7,160.75	48.37	33.66	28.44	-119.58	3,055.93	2,515.32	2,441.26	74.06	33.963	
7,700.00	7,192.88	7,354.59	7,181.93	48.48	33.71	14.47	-119.40	3,055.74	2,499.68	2,425.37	74.30	33.641	
7,750.00	7,239.41	7,384.79	7,212.14	48.54	33.79	3.55	-119.21	3,055.54	2,481.17	2,406.65	74.52	33.297	
7,800.00	7,284.72	7,418.85	7,246.20	48.56	33.87	-5.08	-119.17	3,055.44	2,459.94	2,385.25	74.70	32.933	
7,850.00	7,328.47	7,476.71	7,304.06	48.54	34.01	-12.29	-119.12	3,055.11	2,435.80	2,360.92	74.88	32.529	
7,900.00	7,370.32	7,522.01	7,349.35	48.47	34.12	-18.65	-118.98	3,054.63	2,408.80	2,333.80	75.00	32.115	
7,950.00	7,409.96	7,555.84	7,383.19	48.37	34.20	-24.56	-118.88	3,054.36	2,379.44	2,304.37	75.07	31.696	
8,000.00	7,447.08	7,587.59	7,414.93	48.24	34.28	-30.34	-118.78	3,054.21	2,348.00	2,272.90	75.10	31.267	
8,050.00	7,481.41	7,621.36	7,448.70	48.07	34.37	-36.27	-118.67	3,054.15	2,314.72	2,239.63	75.09	30.827	
8,100.00	7,512.67	7,654.20	7,481.54	47.87	34.45	-42.48	-118.52	3,054.10	2,279.83	2,204.79	75.04	30.381	
8,150.00	7,540.64	7,683.45	7,510.79	47.65	34.52	-49.00	-118.34	3,054.07	2,243.68	2,168.72	74.95	29.934	
8,200.00	7,565.09	7,705.01	7,532.35	47.40	34.58	-55.67	-118.20	3,054.07	2,206.62	2,131.80	74.82	29.493	
8,250.00	7,585.85	7,721.40	7,548.74	47.14	34.62	-62.40	-118.13	3,054.07	2,169.06	2,094.42	74.65	29.058	
8,300.00	7,602.75	7,734.83	7,562.17	46.86	34.66	-69.09	-118.09	3,054.08	2,131.36	2,056.93	74.43	28.634	
8,350.00	7,615.67	7,745.17	7,572.51	46.58	34.69	-75.52	-118.07	3,054.10	2,093.89	2,019.70	74.19	28.224	
8,400.00	7,624.51	7,752.29	7,579.63	46.28	34.70	-81.50	-118.07	3,054.12	2,057.00	1,983.09	73.91	27.831	
8,450.00	7,629.19	7,756.10	7,583.44	45.98	34.71	-86.87	-118.07	3,054.12	2,021.06	1,947.46	73.60	27.460	
8,481.00	7,630.00	7,756.77	7,584.11	45.79	34.72	-89.85	-118.07	3,054.13	1,999.40	1,926.01	73.39	27.242	
8,500.00	7,630.00	7,756.77	7,584.11	45.68	34.72	-89.85	-118.07	3,054.13	1,986.35	1,913.09	73.26	27.112	
8,600.00	7,630.00	7,756.80	7,584.14	45.11	34.72	-89.85	-118.07	3,054.13	1,919.30	1,846.73	72.57	26.446	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,700.00	7,630.00	7,756.83	7,584.17	44.56	34.72	-89.85	-118.07	3,054.13	1,855.22	1,783.35	71.87	25.812	
8,800.00	7,630.00	7,756.86	7,584.20	44.05	34.72	-89.85	-118.07	3,054.13	1,794.42	1,723.25	71.18	25.211	
8,900.00	7,630.00	7,756.89	7,584.23	43.57	34.72	-89.85	-118.07	3,054.13	1,737.26	1,666.77	70.49	24.645	
9,000.00	7,630.00	7,756.92	7,584.26	43.12	34.72	-89.85	-118.07	3,054.13	1,684.10	1,614.25	69.85	24.112	
9,100.00	7,630.00	7,756.96	7,584.30	42.70	34.72	-89.85	-118.07	3,054.13	1,635.33	1,566.07	69.26	23.612	
9,200.00	7,630.00	7,756.99	7,584.33	42.31	34.72	-89.85	-118.07	3,054.13	1,591.36	1,522.60	68.76	23.143	
9,300.00	7,630.00	7,757.02	7,584.36	41.94	34.72	-89.86	-118.07	3,054.13	1,552.59	1,484.20	68.39	22.703	
9,400.00	7,630.00	7,757.05	7,584.39	41.59	34.72	-89.86	-118.07	3,054.13	1,519.43	1,451.26	68.17	22.290	
9,500.00	7,630.00	7,757.09	7,584.43	41.26	34.72	-89.86	-118.07	3,054.13	1,492.24	1,424.10	68.14	21.900	
9,600.00	7,630.00	7,757.12	7,584.46	40.96	34.72	-89.86	-118.07	3,054.13	1,471.36	1,403.03	68.33	21.535	
9,700.00	7,630.00	7,757.16	7,584.50	40.68	34.72	-89.86	-118.07	3,054.13	1,457.05	1,388.31	68.75	21.195	
9,800.00	7,630.00	7,757.20	7,584.54	40.42	34.72	-89.86	-118.07	3,054.13	1,449.52	1,380.12	69.40	20.886	
9,859.42	7,630.00	7,757.22	7,584.56	40.26	34.72	-89.86	-118.07	3,054.13	1,448.31	1,378.40	69.91	20.717	CC, ES
9,900.00	7,630.00	7,757.23	7,584.57	40.17	34.72	-89.86	-118.07	3,054.13	1,448.87	1,378.59	70.28	20.616	
10,000.00	7,630.00	7,757.27	7,584.61	39.96	34.72	-89.87	-118.07	3,054.13	1,455.11	1,383.76	71.35	20.394	
10,100.00	7,630.00	7,757.31	7,584.65	40.05	34.72	-89.87	-118.07	3,054.13	1,468.15	1,395.59	72.57	20.232	
10,200.00	7,630.00	7,757.35	7,584.69	40.95	34.72	-89.87	-118.07	3,054.13	1,487.81	1,413.93	73.88	20.138	
10,300.00	7,630.00	7,757.39	7,584.73	41.94	34.72	-89.87	-118.07	3,054.13	1,513.84	1,438.59	75.25	20.118	SF
10,400.00	7,630.00	7,757.43	7,584.77	42.98	34.72	-89.87	-118.07	3,054.13	1,545.90	1,469.29	76.62	20.177	
10,500.00	7,630.00	7,757.48	7,584.82	44.06	34.72	-89.87	-118.07	3,054.13	1,583.65	1,505.69	77.96	20.314	
10,600.00	7,630.00	7,757.52	7,584.86	45.17	34.72	-89.88	-118.07	3,054.13	1,626.67	1,547.44	79.23	20.530	
10,700.00	7,630.00	7,757.56	7,584.90	46.32	34.72	-89.88	-118.07	3,054.13	1,674.57	1,594.14	80.43	20.820	
10,800.00	7,630.00	7,757.61	7,584.95	47.50	34.72	-89.88	-118.07	3,054.13	1,726.93	1,645.40	81.53	21.181	
10,900.00	7,630.00	7,757.66	7,585.00	48.70	34.72	-89.88	-118.07	3,054.13	1,783.37	1,700.83	82.54	21.606	
11,000.00	7,630.00	7,757.71	7,585.04	49.94	34.72	-89.88	-118.07	3,054.13	1,843.51	1,760.06	83.45	22.091	
11,100.00	7,630.00	7,757.75	7,585.09	51.20	34.72	-89.89	-118.07	3,054.13	1,907.00	1,822.73	84.27	22.631	
11,200.00	7,630.00	7,757.81	7,585.14	52.48	34.72	-89.89	-118.07	3,054.13	1,973.51	1,888.52	84.99	23.220	
11,300.00	7,630.00	7,757.86	7,585.20	53.79	34.72	-89.89	-118.07	3,054.13	2,042.76	1,957.12	85.64	23.853	
11,400.00	7,630.00	7,757.91	7,585.25	55.12	34.72	-89.89	-118.07	3,054.13	2,114.47	2,028.26	86.21	24.526	
11,500.00	7,630.00	7,757.96	7,585.30	56.46	34.72	-89.89	-118.07	3,054.13	2,188.40	2,101.68	86.72	25.236	
11,600.00	7,630.00	7,758.02	7,585.36	57.83	34.72	-89.90	-118.07	3,054.13	2,264.34	2,177.17	87.16	25.978	
11,700.00	7,630.00	7,758.08	7,585.42	59.22	34.72	-89.90	-118.07	3,054.13	2,342.08	2,254.52	87.56	26.749	
11,800.00	7,630.00	7,758.14	7,585.48	60.62	34.72	-89.90	-118.07	3,054.13	2,421.46	2,333.55	87.90	27.547	
11,900.00	7,630.00	7,758.20	7,585.54	62.04	34.72	-89.90	-118.07	3,054.13	2,502.31	2,414.11	88.21	28.368	
12,000.00	7,630.00	7,758.26	7,585.60	63.48	34.72	-89.91	-118.07	3,054.13	2,584.51	2,496.03	88.48	29.211	
12,100.00	7,630.00	7,758.32	7,585.66	64.93	34.72	-89.91	-118.07	3,054.13	2,667.92	2,579.21	88.71	30.074	
12,200.00	7,630.00	7,758.39	7,585.73	66.39	34.72	-89.91	-118.07	3,054.13	2,752.44	2,663.52	88.92	30.953	
12,300.00	7,630.00	7,758.46	7,585.80	67.86	34.72	-89.91	-118.07	3,054.13	2,837.96	2,748.86	89.11	31.849	
12,400.00	7,630.00	7,758.53	7,585.87	69.35	34.72	-89.92	-118.07	3,054.13	2,924.41	2,835.14	89.27	32.759	
12,500.00	7,630.00	7,758.60	7,585.94	70.85	34.72	-89.92	-118.07	3,054.13	3,011.69	2,922.27	89.41	33.682	
12,600.00	7,630.00	7,758.67	7,586.01	72.36	34.72	-89.92	-118.07	3,054.13	3,099.74	3,010.20	89.54	34.617	
12,700.00	7,630.00	7,758.75	7,586.09	73.88	34.72	-89.92	-118.07	3,054.13	3,188.50	3,098.84	89.66	35.564	
12,800.00	7,630.00	7,758.83	7,586.17	75.41	34.72	-89.93	-118.07	3,054.13	3,277.90	3,188.14	89.76	36.519	
12,900.00	7,630.00	7,758.91	7,586.25	76.95	34.72	-89.93	-118.07	3,054.13	3,367.90	3,278.05	89.85	37.485	
13,000.00	7,630.00	7,758.99	7,586.33	78.49	34.72	-89.93	-118.07	3,054.13	3,458.45	3,368.52	89.93	38.458	
13,100.00	7,630.00	7,759.08	7,586.42	80.05	34.72	-89.94	-118.07	3,054.13	3,549.50	3,459.50	90.00	39.439	
13,200.00	7,630.00	7,759.17	7,586.51	81.61	34.72	-89.94	-118.07	3,054.13	3,641.03	3,550.96	90.06	40.427	
13,300.00	7,630.00	7,759.26	7,586.60	83.18	34.72	-89.94	-118.07	3,054.13	3,732.99	3,642.87	90.12	41.421	
13,400.00	7,630.00	7,759.36	7,586.70	84.76	34.72	-89.95	-118.07	3,054.13	3,825.35	3,735.18	90.18	42.421	
13,500.00	7,630.00	7,759.46	7,586.80	86.34	34.72	-89.95	-118.07	3,054.13	3,918.09	3,827.87	90.22	43.427	
13,600.00	7,630.00	7,759.56	7,586.90	87.94	34.72	-89.96	-118.07	3,054.13	4,011.18	3,920.91	90.27	44.437	
13,700.00	7,630.00	7,759.67	7,587.00	89.53	34.72	-89.96	-118.07	3,054.13	4,104.59	4,014.29	90.31	45.452	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
13,800.00	7,630.00	7,759.78	7,587.12	91.13	34.72	-89.96	-118.07	3,054.13	4,198.31	4,107.97	90.34	46.472	
13,900.00	7,630.00	7,759.89	7,587.23	92.74	34.72	-89.97	-118.07	3,054.13	4,292.31	4,201.93	90.37	47.495	
14,000.00	7,630.00	7,760.01	7,587.35	94.35	34.72	-89.97	-118.07	3,054.13	4,386.57	4,296.17	90.40	48.522	
14,100.00	7,630.00	7,760.13	7,587.47	95.97	34.73	-89.98	-118.07	3,054.13	4,481.09	4,390.65	90.43	49.552	
14,200.00	7,630.00	7,760.26	7,587.60	97.60	34.73	-89.98	-118.07	3,054.13	4,575.83	4,485.37	90.46	50.585	
14,300.00	7,630.00	7,760.40	7,587.74	99.22	34.73	-89.99	-118.07	3,054.13	4,670.80	4,580.32	90.48	51.620	
14,400.00	7,630.00	7,760.54	7,587.87	100.85	34.73	-90.00	-118.07	3,054.13	4,765.97	4,675.46	90.51	52.659	
14,500.00	7,630.00	7,760.68	7,588.02	102.49	34.73	-90.00	-118.07	3,054.14	4,861.34	4,770.81	90.53	53.699	
14,600.00	7,630.00	7,760.83	7,588.17	104.13	34.73	-90.01	-118.07	3,054.14	4,956.89	4,866.34	90.55	54.742	
14,700.00	7,630.00	7,760.99	7,588.33	105.77	34.73	-90.01	-118.07	3,054.14	5,052.61	4,962.04	90.57	55.787	
14,800.00	7,630.00	7,761.16	7,588.50	107.42	34.73	-90.02	-118.07	3,054.14	5,148.49	5,057.90	90.59	56.833	
14,900.00	7,630.00	7,761.33	7,588.67	109.07	34.73	-90.03	-118.07	3,054.14	5,244.53	5,153.92	90.61	57.881	
15,000.00	7,630.00	7,761.51	7,588.85	110.72	34.73	-90.03	-118.07	3,054.14	5,340.71	5,250.08	90.63	58.931	
15,100.00	7,630.00	7,761.70	7,589.04	112.38	34.73	-90.04	-118.07	3,054.14	5,437.03	5,346.39	90.64	59.982	
15,200.00	7,630.00	7,761.90	7,589.24	114.04	34.73	-90.05	-118.07	3,054.14	5,533.48	5,442.82	90.66	61.034	
15,300.00	7,630.00	7,762.12	7,589.45	115.71	34.73	-90.06	-118.07	3,054.14	5,630.06	5,539.38	90.68	62.087	
15,400.00	7,630.00	7,762.34	7,589.68	117.37	34.73	-90.07	-118.07	3,054.14	5,726.75	5,636.05	90.70	63.141	
15,500.00	7,630.00	7,762.57	7,589.91	119.04	34.73	-90.08	-118.07	3,054.14	5,823.55	5,732.84	90.72	64.196	
15,600.00	7,630.00	7,762.82	7,590.16	120.71	34.73	-90.09	-118.07	3,054.14	5,920.46	5,829.73	90.73	65.252	
15,700.00	7,630.00	7,763.08	7,590.42	122.39	34.73	-90.10	-118.07	3,054.14	6,017.47	5,926.72	90.75	66.308	
15,800.00	7,630.00	7,763.36	7,590.70	124.06	34.73	-90.11	-118.07	3,054.14	6,114.58	6,023.81	90.77	67.365	
15,900.00	7,630.00	7,763.65	7,590.99	125.74	34.73	-90.12	-118.07	3,054.14	6,211.78	6,121.00	90.79	68.423	
16,000.00	7,630.00	7,763.96	7,591.30	127.42	34.74	-90.13	-118.07	3,054.14	6,309.07	6,218.26	90.80	69.481	
16,100.00	7,630.00	7,764.30	7,591.64	129.10	34.74	-90.14	-118.07	3,054.14	6,406.44	6,315.62	90.82	70.539	
16,200.00	7,630.00	7,764.65	7,591.99	130.79	34.74	-90.16	-118.08	3,054.15	6,503.89	6,413.05	90.84	71.597	
16,300.00	7,630.00	7,765.03	7,592.37	132.48	34.74	-90.17	-118.08	3,054.15	6,601.42	6,510.56	90.86	72.656	
16,400.00	7,630.00	7,765.44	7,592.78	134.17	34.74	-90.19	-118.08	3,054.15	6,699.01	6,608.14	90.88	73.714	
16,500.00	7,630.00	7,765.88	7,593.22	135.86	34.74	-90.21	-118.08	3,054.15	6,796.68	6,705.79	90.90	74.773	
16,600.00	7,630.00	7,766.35	7,593.69	137.55	34.74	-90.22	-118.08	3,054.15	6,894.42	6,803.50	90.92	75.832	
16,700.00	7,630.00	7,766.86	7,594.20	139.24	34.74	-90.25	-118.08	3,054.15	6,992.22	6,901.28	90.94	76.890	
16,800.00	7,630.00	7,767.41	7,594.75	140.94	34.74	-90.27	-118.08	3,054.15	7,090.08	6,999.12	90.96	77.949	
16,900.00	7,630.00	7,768.01	7,595.35	142.64	34.75	-90.29	-118.08	3,054.15	7,188.00	7,097.02	90.98	79.007	
17,000.00	7,630.00	7,768.67	7,596.01	144.34	34.75	-90.32	-118.08	3,054.16	7,285.98	7,194.98	91.00	80.065	
17,100.00	7,630.00	7,769.39	7,596.73	146.04	34.75	-90.35	-118.08	3,054.16	7,384.01	7,292.99	91.02	81.122	
17,200.00	7,630.00	7,770.18	7,597.52	147.74	34.75	-90.38	-118.08	3,054.16	7,482.09	7,391.05	91.05	82.180	
17,300.00	7,630.00	7,771.06	7,598.40	149.44	34.75	-90.41	-118.09	3,054.16	7,580.23	7,489.16	91.07	83.236	
17,400.00	7,630.00	7,772.03	7,599.37	151.15	34.76	-90.45	-118.09	3,054.17	7,678.41	7,587.32	91.09	84.293	
17,500.00	7,630.00	7,773.12	7,600.46	152.86	34.76	-90.49	-118.09	3,054.17	7,776.64	7,685.52	91.12	85.349	
17,600.00	7,630.00	7,774.35	7,601.69	154.56	34.76	-90.54	-118.09	3,054.17	7,874.91	7,783.77	91.14	86.404	
17,700.00	7,630.00	7,775.75	7,603.09	156.27	34.77	-90.60	-118.10	3,054.18	7,973.22	7,882.06	91.17	87.459	
17,800.00	7,630.00	7,777.35	7,604.69	157.98	34.77	-90.66	-118.10	3,054.18	8,071.58	7,980.39	91.19	88.513	
17,900.00	7,630.00	7,779.20	7,606.54	159.70	34.78	-90.73	-118.11	3,054.19	8,169.98	8,078.76	91.22	89.566	
18,000.00	7,630.00	7,781.37	7,608.71	161.41	34.78	-90.82	-118.11	3,054.20	8,268.41	8,177.17	91.24	90.618	
18,100.00	7,630.00	7,783.94	7,611.28	163.12	34.79	-90.92	-118.12	3,054.21	8,366.88	8,275.61	91.27	91.670	
18,154.00	7,630.00	7,785.54	7,612.88	164.05	34.79	-90.98	-118.13	3,054.21	8,420.08	8,328.79	91.29	92.238	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	82.19	746.66	5,444.77	5,496.34				
100.00	100.00	1,152.00	1,134.43	0.13	4.79	81.09	831.58	5,304.90	5,484.51	5,479.72	4.79	1,145.486	
200.00	200.00	1,212.58	1,193.04	0.49	5.12	80.99	838.87	5,291.43	5,464.30	5,459.06	5.24	1,042.740	
300.00	300.00	1,265.95	1,244.86	0.85	5.40	80.91	844.99	5,280.21	5,445.10	5,439.33	5.76	944.635	
400.00	400.00	1,348.14	1,324.75	1.21	5.84	80.78	854.31	5,263.33	5,426.42	5,419.96	6.46	840.650	
500.00	500.00	1,467.39	1,440.45	1.57	6.49	80.58	869.05	5,238.51	5,407.64	5,400.30	7.34	736.990	
600.00	600.00	1,655.03	1,621.67	1.93	7.55	80.23	894.83	5,197.22	5,387.94	5,379.37	8.56	629.158	
700.00	700.00	1,732.32	1,696.24	2.29	8.00	80.09	905.27	5,179.78	5,367.70	5,358.42	9.28	578.571	
800.00	800.00	1,826.20	1,786.84	2.64	8.53	79.91	917.85	5,158.67	5,347.59	5,337.52	10.07	530.943	
900.00	900.00	1,900.00	1,858.26	3.00	8.95	79.78	927.01	5,142.48	5,327.91	5,317.14	10.77	494.669	
1,000.00	1,000.00	1,946.85	1,903.74	3.36	9.20	79.70	932.39	5,132.59	5,308.91	5,297.57	11.34	468.118	
1,100.00	1,100.00	2,008.27	1,963.52	3.72	9.53	79.61	939.03	5,120.19	5,290.76	5,278.78	11.98	441.743	
1,200.00	1,200.00	2,159.21	2,110.28	4.08	10.34	79.36	956.08	5,089.31	5,272.55	5,259.54	13.01	405.248	
1,300.00	1,300.00	2,254.50	2,202.67	4.44	10.87	79.19	967.65	5,069.04	5,253.67	5,239.86	13.81	380.441	
1,400.00	1,400.00	2,326.48	2,272.48	4.79	11.27	79.06	976.51	5,053.94	5,235.16	5,220.65	14.50	360.926	
1,500.00	1,499.98	2,406.50	2,350.23	5.15	11.70	41.39	986.12	5,037.60	5,215.88	5,200.65	15.24	342.351	
1,600.00	1,599.84	2,515.19	2,455.74	5.51	12.30	41.53	999.75	5,015.34	5,194.12	5,178.02	16.10	322.698	
1,700.00	1,699.45	2,602.14	2,540.07	5.87	12.77	41.76	1,010.82	4,997.33	5,169.65	5,152.79	16.86	306.660	
1,800.00	1,798.70	2,677.35	2,613.19	6.23	13.18	42.06	1,019.85	4,982.19	5,143.11	5,125.55	17.56	292.873	
1,900.00	1,897.47	2,778.56	2,711.81	6.60	13.72	42.42	1,030.77	4,962.24	5,114.29	5,095.92	18.37	278.372	
2,000.00	1,995.62	2,995.89	2,922.11	6.99	14.94	42.79	1,058.06	4,914.75	5,080.69	5,060.97	19.72	257.633	
2,100.00	2,093.06	3,054.34	2,978.58	7.39	15.28	43.31	1,065.63	4,901.72	5,044.90	5,024.53	20.37	247.650	
2,200.00	2,189.64	3,116.00	3,038.10	7.82	15.63	43.86	1,074.50	4,888.25	5,007.41	4,986.36	21.05	237.920	
2,300.00	2,285.27	3,226.63	3,144.68	8.28	16.28	44.48	1,091.44	4,863.96	4,967.63	4,945.66	21.97	226.130	
2,400.00	2,379.82	3,293.87	3,209.43	8.77	16.67	45.17	1,101.98	4,849.20	4,925.65	4,902.95	22.70	216.982	
2,500.00	2,473.17	3,439.46	3,349.58	9.31	17.53	46.00	1,124.59	4,816.91	4,881.27	4,857.46	23.81	205.029	
2,600.00	2,565.21	3,567.95	3,473.36	9.88	18.28	46.98	1,142.28	4,787.34	4,833.68	4,808.85	24.83	194.685	
2,660.67	2,620.37	3,585.00	3,489.82	10.25	18.38	47.52	1,144.35	4,783.40	4,803.75	4,778.56	25.19	190.704	
2,700.00	2,655.96	3,619.92	3,523.57	10.50	18.58	47.60	1,148.52	4,775.45	4,784.13	4,758.61	25.52	187.443	
2,800.00	2,746.43	3,679.00	3,580.81	11.15	18.91	47.73	1,155.58	4,762.63	4,735.10	4,708.84	26.26	180.329	
2,900.00	2,836.90	3,788.02	3,686.39	11.82	19.52	47.98	1,168.85	4,738.96	4,686.33	4,659.12	27.21	172.227	
3,000.00	2,927.37	3,832.26	3,729.22	12.50	19.78	48.08	1,174.44	4,729.36	4,637.48	4,609.55	27.92	166.092	
3,100.00	3,017.85	3,959.05	3,851.92	13.21	20.49	48.38	1,190.72	4,701.88	4,588.95	4,559.98	28.97	158.383	
3,200.00	3,108.32	4,012.35	3,903.50	13.92	20.79	48.51	1,197.24	4,690.16	4,540.00	4,510.26	29.74	152.642	
3,300.00	3,198.79	4,055.00	3,944.89	14.64	21.03	48.62	1,202.15	4,681.11	4,491.75	4,461.26	30.48	147.347	
3,400.00	3,289.27	4,109.19	3,997.64	15.38	21.32	48.77	1,207.95	4,670.13	4,444.26	4,412.99	31.27	142.131	
3,500.00	3,379.74	4,150.00	4,037.49	16.12	21.53	48.89	1,211.95	4,662.30	4,397.65	4,365.64	32.02	137.352	
3,600.00	3,470.21	4,204.12	4,090.50	16.87	21.79	49.06	1,216.71	4,652.48	4,351.89	4,319.08	32.81	132.641	
3,700.00	3,560.68	4,243.00	4,128.69	17.62	21.98	49.19	1,219.70	4,645.82	4,307.00	4,273.44	33.56	128.330	
3,800.00	3,651.16	4,287.73	4,172.73	18.39	22.18	49.35	1,222.74	4,638.67	4,263.12	4,228.79	34.33	124.178	
3,900.00	3,741.63	4,337.00	4,221.41	19.15	22.40	49.53	1,225.67	4,631.58	4,220.43	4,185.31	35.12	120.165	
4,000.00	3,832.10	4,362.81	4,246.96	19.92	22.50	49.63	1,227.06	4,628.20	4,178.84	4,142.99	35.85	116.579	
4,100.00	3,922.57	4,400.88	4,284.70	20.69	22.66	49.78	1,229.00	4,623.61	4,138.48	4,101.87	36.61	113.040	
4,200.00	4,013.05	4,444.58	4,328.09	21.47	22.83	49.96	1,231.08	4,618.90	4,099.32	4,061.92	37.40	109.616	
4,300.00	4,103.52	4,505.18	4,388.34	22.25	23.05	50.22	1,233.47	4,612.91	4,061.06	4,022.83	38.23	106.218	
4,400.00	4,193.99	4,555.79	4,438.72	23.03	23.23	50.44	1,235.07	4,608.33	4,023.67	3,984.62	39.04	103.052	
4,500.00	4,284.47	4,617.00	4,499.72	23.81	23.44	50.72	1,236.90	4,603.56	3,987.43	3,947.54	39.89	99.958	
4,600.00	4,374.94	4,649.39	4,532.03	24.60	23.54	50.87	1,237.74	4,601.39	3,952.23	3,911.57	40.66	97.204	
4,700.00	4,465.41	4,710.00	4,592.54	25.39	23.73	51.16	1,238.74	4,598.04	3,918.30	3,876.79	41.51	94.397	
4,800.00	4,555.88	4,751.71	4,634.20	26.18	23.85	51.37	1,238.99	4,596.18	3,885.40	3,843.09	42.30	91.844	
4,900.00	4,646.36	4,804.00	4,686.45	26.97	24.00	51.64	1,238.79	4,594.21	3,853.51	3,810.38	43.13	89.340	
5,000.00	4,736.83	4,874.40	4,756.83	27.76	24.19	52.02	1,238.43	4,592.09	3,822.52	3,778.51	44.01	86.846	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	4,925.94	4,808.35	28.55	24.32	52.29	1,238.46	4,590.92	3,792.52	3,747.67	44.85	84.561	
5,200.00	4,917.77	4,970.99	4,853.40	29.35	24.43	52.53	1,238.45	4,590.44	3,763.82	3,718.16	45.67	82.417	
5,300.00	5,008.25	5,044.80	4,927.21	30.15	24.60	52.93	1,238.34	4,590.41	3,736.30	3,689.73	46.57	80.228	
5,400.00	5,098.72	5,154.52	5,036.93	30.94	24.87	53.53	1,238.20	4,590.17	3,708.95	3,661.36	47.59	77.934	
5,500.00	5,189.19	5,261.56	5,143.97	31.74	25.14	54.13	1,238.10	4,589.32	3,681.36	3,632.73	48.62	75.715	
5,600.00	5,279.67	5,348.19	5,230.58	32.54	25.37	54.62	1,238.00	4,588.48	3,653.91	3,604.31	49.60	73.662	
5,700.00	5,370.14	5,442.62	5,325.01	33.34	25.62	55.15	1,238.00	4,587.59	3,626.80	3,576.18	50.62	71.647	
5,800.00	5,460.61	5,542.98	5,425.37	34.14	25.89	55.74	1,237.83	4,586.44	3,599.81	3,548.15	51.66	69.677	
5,900.00	5,551.08	5,655.13	5,537.50	34.94	26.19	56.41	1,237.08	4,584.64	3,572.75	3,520.00	52.75	67.730	
6,000.00	5,641.56	5,757.13	5,639.48	35.75	26.47	57.03	1,236.17	4,582.46	3,545.55	3,491.73	53.82	65.883	
6,100.00	5,732.03	5,846.41	5,728.72	36.55	26.72	57.58	1,235.37	4,580.43	3,518.58	3,463.73	54.86	64.142	
6,200.00	5,822.50	5,935.20	5,817.48	37.35	26.96	58.14	1,234.40	4,578.39	3,491.95	3,436.05	55.90	62.463	
6,300.00	5,912.97	6,007.78	5,890.04	38.16	27.16	58.61	1,233.53	4,576.92	3,465.95	3,409.04	56.91	60.898	
6,400.00	6,003.45	6,096.58	5,978.83	38.96	27.41	59.18	1,232.47	4,575.39	3,440.60	3,382.62	57.98	59.341	
6,500.00	6,093.92	6,185.36	6,067.59	39.77	27.65	59.76	1,231.63	4,573.85	3,415.60	3,356.55	59.06	57.836	
6,600.00	6,184.39	6,278.19	6,160.40	40.57	27.92	60.36	1,231.29	4,572.28	3,391.00	3,330.84	60.16	56.368	
6,700.00	6,274.87	6,390.80	6,272.99	41.38	28.25	61.08	1,232.03	4,570.09	3,366.47	3,305.14	61.33	54.888	
6,800.00	6,365.34	6,466.68	6,348.85	42.18	28.48	61.57	1,233.17	4,568.54	3,342.14	3,279.74	62.41	53.555	
6,900.00	6,455.81	6,540.91	6,423.06	42.99	28.70	62.05	1,234.03	4,567.36	3,318.62	3,255.14	63.48	52.280	
7,000.00	6,546.28	6,615.83	6,497.97	43.80	28.92	62.54	1,234.64	4,566.50	3,295.92	3,231.36	64.56	51.053	
7,100.00	6,636.76	6,693.59	6,575.73	44.61	29.15	63.07	1,234.76	4,565.88	3,274.03	3,208.37	65.65	49.867	
7,200.00	6,727.23	6,777.84	6,659.98	45.41	29.39	63.65	1,234.67	4,565.39	3,252.79	3,186.01	66.78	48.711	
7,300.00	6,817.70	6,858.46	6,740.60	46.22	29.61	64.21	1,234.35	4,565.09	3,232.20	3,164.31	67.89	47.608	
7,383.79	6,893.51	6,934.05	6,816.18	46.90	29.82	64.75	1,233.91	4,564.91	3,215.42	3,146.56	68.85	46.699	
7,400.00	6,908.25	6,948.87	6,831.01	47.03	29.86	62.18	1,233.83	4,564.87	3,212.15	3,143.11	69.04	46.527	
7,450.00	6,954.52	6,991.91	6,874.05	47.40	29.98	52.40	1,233.62	4,564.79	3,201.42	3,131.86	69.55	46.028	
7,500.00	7,001.74	7,035.22	6,917.35	47.72	30.09	39.29	1,233.35	4,564.74	3,189.76	3,119.76	70.00	45.568	
7,550.00	7,049.55	7,082.08	6,964.22	47.99	30.22	22.70	1,233.05	4,564.73	3,177.22	3,106.84	70.39	45.140	
7,600.00	7,097.58	7,130.73	7,012.86	48.21	30.35	4.16	1,232.81	4,564.74	3,163.81	3,093.10	70.70	44.749	
7,650.00	7,145.48	7,174.18	7,056.31	48.37	30.47	-13.42	1,232.65	4,564.76	3,149.63	3,078.70	70.93	44.407	
7,700.00	7,192.88	7,215.54	7,097.67	48.48	30.58	-28.01	1,232.46	4,564.86	3,134.88	3,063.81	71.07	44.108	
7,750.00	7,239.41	7,261.69	7,143.82	48.54	30.70	-39.45	1,232.21	4,565.04	3,119.66	3,048.49	71.17	43.834	
7,800.00	7,284.72	7,312.59	7,194.72	48.56	30.84	-48.43	1,232.00	4,565.18	3,104.01	3,032.79	71.22	43.585	
7,850.00	7,328.47	7,360.36	7,242.49	48.54	30.97	-55.65	1,231.84	4,565.24	3,088.08	3,016.88	71.20	43.373	
7,900.00	7,370.32	7,405.36	7,287.49	48.47	31.10	-61.63	1,231.71	4,565.25	3,072.10	3,000.99	71.11	43.201	
7,950.00	7,409.96	7,447.95	7,330.08	48.37	31.22	-66.72	1,231.59	4,565.22	3,056.28	2,985.32	70.96	43.069	
8,000.00	7,447.08	7,487.83	7,369.96	48.24	31.33	-71.13	1,231.49	4,565.16	3,040.85	2,970.09	70.75	42.978	
8,050.00	7,481.41	7,524.68	7,406.81	48.07	31.43	-74.98	1,231.41	4,565.07	3,026.03	2,955.54	70.49	42.929	
8,100.00	7,512.67	7,555.14	7,437.27	47.87	31.52	-78.29	1,231.32	4,564.99	3,012.07	2,941.90	70.17	42.927 SF	
8,150.00	7,540.64	7,582.98	7,465.11	47.65	31.60	-81.18	1,231.22	4,564.92	2,999.20	2,929.40	69.80	42.967	
8,200.00	7,565.09	7,607.41	7,489.53	47.40	31.67	-83.66	1,231.12	4,564.86	2,987.62	2,918.22	69.40	43.048	
8,250.00	7,585.85	7,625.03	7,507.15	47.14	31.72	-85.67	1,231.04	4,564.82	2,977.55	2,908.58	68.96	43.177	
8,300.00	7,602.75	7,639.03	7,521.16	46.86	31.76	-87.28	1,230.98	4,564.81	2,969.14	2,900.64	68.50	43.346	
8,350.00	7,615.67	7,649.76	7,531.89	46.58	31.79	-88.51	1,230.94	4,564.81	2,962.55	2,894.52	68.02	43.551	
8,400.00	7,624.51	7,657.14	7,539.27	46.28	31.81	-89.36	1,230.91	4,564.81	2,957.86	2,890.32	67.55	43.791	
8,450.00	7,629.19	7,661.12	7,543.25	45.98	31.82	-89.82	1,230.90	4,564.82	2,955.17	2,888.11	67.07	44.062	
8,481.00	7,630.00	7,661.87	7,544.00	45.79	31.82	-89.92	1,230.90	4,564.82	2,954.53	2,887.75	66.78	44.245 ES	
8,500.00	7,630.00	7,661.93	7,544.05	45.68	31.82	-89.92	1,230.90	4,564.82	2,954.43	2,887.83	66.60	44.360	
8,505.35	7,630.00	7,661.94	7,544.07	45.65	31.82	-89.92	1,230.90	4,564.82	2,954.43	2,887.87	66.55	44.391 CC	
8,600.00	7,630.00	7,662.21	7,544.34	45.11	31.82	-89.93	1,230.90	4,564.82	2,955.94	2,890.18	65.76	44.953	
8,700.00	7,630.00	7,662.50	7,544.62	44.56	31.82	-89.93	1,230.90	4,564.82	2,960.83	2,895.78	65.05	45.515	
8,800.00	7,630.00	7,662.78	7,544.91	44.05	31.82	-89.94	1,230.89	4,564.82	2,969.08	2,904.58	64.50	46.033	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	7,663.06	7,545.19	43.57	31.83	-89.95	1,230.89	4,564.82	2,980.67	2,916.56	64.11	46.495	
9,000.00	7,630.00	7,663.34	7,545.47	43.12	31.83	-89.95	1,230.89	4,564.82	2,995.55	2,931.66	63.88	46.891	
9,100.00	7,630.00	7,663.62	7,545.75	42.70	31.83	-89.96	1,230.89	4,564.82	3,013.67	2,949.85	63.83	47.216	
9,200.00	7,630.00	7,663.90	7,546.03	42.31	31.83	-89.96	1,230.89	4,564.82	3,034.99	2,971.05	63.94	47.468	
9,300.00	7,630.00	7,664.18	7,546.31	41.94	31.83	-89.97	1,230.89	4,564.82	3,059.43	2,995.22	64.21	47.650	
9,400.00	7,630.00	7,664.46	7,546.58	41.59	31.83	-89.97	1,230.89	4,564.82	3,086.91	3,022.29	64.62	47.767	
9,500.00	7,630.00	7,664.73	7,546.86	41.26	31.83	-89.98	1,230.89	4,564.82	3,117.36	3,052.19	65.18	47.830	
9,600.00	7,630.00	7,665.01	7,547.13	40.96	31.83	-89.98	1,230.89	4,564.82	3,150.69	3,084.85	65.85	47.849	
9,700.00	7,630.00	7,665.28	7,547.41	40.68	31.83	-89.99	1,230.89	4,564.82	3,186.82	3,120.20	66.62	47.836	
9,800.00	7,630.00	7,665.56	7,547.68	40.42	31.83	-89.99	1,230.89	4,564.82	3,225.64	3,158.16	67.48	47.803	
9,900.00	7,630.00	7,665.83	7,547.96	40.17	31.83	-90.00	1,230.88	4,564.82	3,267.06	3,198.65	68.40	47.761	
10,000.00	7,630.00	7,666.10	7,548.23	39.96	31.83	-90.00	1,230.88	4,564.82	3,310.98	3,241.59	69.38	47.719	
10,100.00	7,630.00	7,666.37	7,548.50	40.05	31.83	-90.01	1,230.88	4,564.82	3,357.31	3,286.90	70.40	47.686	
10,200.00	7,630.00	7,666.64	7,548.77	40.95	31.84	-90.01	1,230.88	4,564.82	3,405.94	3,334.49	71.45	47.668	
10,300.00	7,630.00	7,666.91	7,549.04	41.94	31.84	-90.02	1,230.88	4,564.82	3,456.79	3,384.27	72.51	47.670	
10,400.00	7,630.00	7,667.18	7,549.31	42.98	31.84	-90.03	1,230.88	4,564.82	3,509.74	3,436.16	73.58	47.697	
10,500.00	7,630.00	7,667.45	7,549.58	44.06	31.84	-90.03	1,230.88	4,564.82	3,564.72	3,490.07	74.65	47.751	
10,600.00	7,630.00	7,667.72	7,549.84	45.17	31.84	-90.04	1,230.88	4,564.83	3,621.62	3,545.91	75.71	47.835	
10,700.00	7,630.00	7,667.98	7,550.11	46.32	31.84	-90.04	1,230.88	4,564.83	3,680.36	3,603.61	76.76	47.948	
10,800.00	7,630.00	7,668.25	7,550.37	47.50	31.84	-90.05	1,230.88	4,564.83	3,740.85	3,663.07	77.79	48.092	
10,900.00	7,630.00	7,668.51	7,550.64	48.70	31.84	-90.05	1,230.88	4,564.83	3,803.01	3,724.22	78.79	48.267	
11,000.00	7,630.00	7,668.77	7,550.90	49.94	31.84	-90.06	1,230.87	4,564.83	3,866.76	3,786.99	79.77	48.471	
11,100.00	7,630.00	7,669.04	7,551.16	51.20	31.84	-90.06	1,230.87	4,564.83	3,932.02	3,851.29	80.73	48.706	
11,200.00	7,630.00	7,669.30	7,551.43	52.48	31.84	-90.07	1,230.87	4,564.83	3,998.71	3,917.05	81.66	48.968	
11,300.00	7,630.00	7,669.56	7,551.69	53.79	31.84	-90.07	1,230.87	4,564.83	4,066.77	3,984.21	82.56	49.259	
11,400.00	7,630.00	7,669.82	7,551.95	55.12	31.84	-90.08	1,230.87	4,564.83	4,136.13	4,052.70	83.43	49.576	
11,500.00	7,630.00	7,670.08	7,552.21	56.46	31.85	-90.08	1,230.87	4,564.83	4,206.72	4,122.44	84.27	49.918	
11,600.00	7,630.00	7,670.34	7,552.46	57.83	31.85	-90.09	1,230.87	4,564.83	4,278.48	4,193.39	85.09	50.284	
11,700.00	7,630.00	7,670.60	7,552.72	59.22	31.85	-90.09	1,230.87	4,564.83	4,351.36	4,265.49	85.87	50.673	
11,800.00	7,630.00	7,670.85	7,552.98	60.62	31.85	-90.10	1,230.87	4,564.83	4,425.30	4,338.67	86.63	51.085	
11,900.00	7,630.00	7,671.11	7,553.24	62.04	31.85	-90.10	1,230.87	4,564.83	4,500.24	4,412.89	87.36	51.517	
12,000.00	7,630.00	7,671.36	7,553.49	63.48	31.85	-90.11	1,230.87	4,564.83	4,576.14	4,488.09	88.06	51.968	
12,100.00	7,630.00	7,671.62	7,553.75	64.93	31.85	-90.11	1,230.86	4,564.83	4,652.96	4,564.23	88.73	52.439	
12,200.00	7,630.00	7,671.87	7,554.00	66.39	31.85	-90.12	1,230.86	4,564.83	4,730.64	4,641.26	89.38	52.927	
12,300.00	7,630.00	7,672.12	7,554.25	67.86	31.85	-90.12	1,230.86	4,564.83	4,809.14	4,719.14	90.01	53.431	
12,400.00	7,630.00	7,672.38	7,554.50	69.35	31.85	-90.13	1,230.86	4,564.83	4,888.43	4,797.83	90.61	53.952	
12,500.00	7,630.00	7,672.63	7,554.76	70.85	31.85	-90.13	1,230.86	4,564.84	4,968.47	4,877.28	91.19	54.487	
12,600.00	7,630.00	7,672.88	7,555.01	72.36	31.85	-90.14	1,230.86	4,564.84	5,049.22	4,957.48	91.74	55.037	
12,700.00	7,630.00	7,673.13	7,555.26	73.88	31.85	-90.14	1,230.86	4,564.84	5,130.65	5,038.37	92.28	55.600	
12,800.00	7,630.00	7,673.38	7,555.50	75.41	31.85	-90.15	1,230.86	4,564.84	5,212.72	5,119.93	92.79	56.175	
12,900.00	7,630.00	7,673.63	7,555.75	76.95	31.86	-90.15	1,230.86	4,564.84	5,295.41	5,202.12	93.29	56.763	
13,000.00	7,630.00	7,673.87	7,556.00	78.49	31.86	-90.16	1,230.86	4,564.84	5,378.69	5,284.92	93.77	57.362	
13,100.00	7,630.00	7,674.12	7,556.25	80.05	31.86	-90.16	1,230.86	4,564.84	5,462.53	5,368.30	94.23	57.972	
13,200.00	7,630.00	7,674.37	7,556.49	81.61	31.86	-90.16	1,230.86	4,564.84	5,546.91	5,452.23	94.67	58.592	
13,300.00	7,630.00	7,674.61	7,556.74	83.18	31.86	-90.17	1,230.85	4,564.84	5,631.79	5,536.69	95.10	59.221	
13,400.00	7,630.00	7,674.86	7,556.98	84.76	31.86	-90.17	1,230.85	4,564.84	5,717.17	5,621.66	95.51	59.860	
13,500.00	7,630.00	7,675.10	7,557.23	86.34	31.86	-90.18	1,230.85	4,564.84	5,803.01	5,707.10	95.91	60.507	
13,600.00	7,630.00	7,675.34	7,557.47	87.94	31.86	-90.18	1,230.85	4,564.84	5,889.30	5,793.01	96.29	61.163	
13,700.00	7,630.00	7,675.59	7,557.71	89.53	31.86	-90.19	1,230.85	4,564.84	5,976.02	5,879.36	96.66	61.826	
13,800.00	7,630.00	7,675.83	7,557.95	91.13	31.86	-90.19	1,230.85	4,564.84	6,063.14	5,966.13	97.01	62.497	
13,900.00	7,630.00	7,676.07	7,558.19	92.74	31.86	-90.20	1,230.85	4,564.84	6,150.66	6,053.30	97.36	63.175	
14,000.00	7,630.00	7,676.31	7,558.43	94.35	31.86	-90.20	1,230.85	4,564.84	6,238.55	6,140.86	97.69	63.859	

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 109-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	7,676.55	7,558.67	95.97	31.86	-90.21	1,230.85	4,564.84	6,326.80	6,228.79	98.01	64.550	
14,200.00	7,630.00	7,676.79	7,558.91	97.60	31.86	-90.21	1,230.85	4,564.84	6,415.40	6,317.08	98.32	65.247	
14,300.00	7,630.00	7,677.02	7,559.15	99.22	31.86	-90.22	1,230.85	4,564.85	6,504.33	6,405.70	98.63	65.950	
14,400.00	7,630.00	7,677.26	7,559.39	100.85	31.87	-90.22	1,230.85	4,564.85	6,593.57	6,494.66	98.92	66.658	
14,500.00	7,630.00	7,677.50	7,559.62	102.49	31.87	-90.23	1,230.85	4,564.85	6,683.12	6,583.92	99.20	67.371	
14,600.00	7,630.00	7,677.73	7,559.86	104.13	31.87	-90.23	1,230.84	4,564.85	6,772.96	6,673.49	99.47	68.089	
14,700.00	7,630.00	7,677.97	7,560.09	105.77	31.87	-90.23	1,230.84	4,564.85	6,863.09	6,763.35	99.74	68.812	
14,800.00	7,630.00	7,678.20	7,560.33	107.42	31.87	-90.24	1,230.84	4,564.85	6,953.48	6,853.49	99.99	69.540	
14,900.00	7,630.00	7,678.44	7,560.56	109.07	31.87	-90.24	1,230.84	4,564.85	7,044.13	6,943.89	100.24	70.271	
15,000.00	7,630.00	7,678.67	7,560.80	110.72	31.87	-90.25	1,230.84	4,564.85	7,135.03	7,034.55	100.48	71.007	
15,100.00	7,630.00	7,678.90	7,561.03	112.38	31.87	-90.25	1,230.84	4,564.85	7,226.18	7,125.46	100.72	71.746	
15,200.00	7,630.00	7,679.13	7,561.26	114.04	31.87	-90.26	1,230.84	4,564.85	7,317.55	7,216.61	100.95	72.490	
15,300.00	7,630.00	7,679.36	7,561.49	115.71	31.87	-90.26	1,230.84	4,564.85	7,409.15	7,307.98	101.17	73.236	
15,400.00	7,630.00	7,679.59	7,561.72	117.37	31.87	-90.27	1,230.84	4,564.85	7,500.96	7,399.58	101.38	73.986	
15,500.00	7,630.00	7,679.82	7,561.95	119.04	31.87	-90.27	1,230.84	4,564.85	7,592.98	7,491.39	101.59	74.740	
15,600.00	7,630.00	7,680.05	7,562.18	120.71	31.87	-90.27	1,230.84	4,564.85	7,685.20	7,583.40	101.80	75.496	
15,700.00	7,630.00	7,680.28	7,562.41	122.39	31.87	-90.28	1,230.84	4,564.85	7,777.61	7,675.61	101.99	76.255	
15,800.00	7,630.00	7,680.51	7,562.64	124.06	31.87	-90.28	1,230.84	4,564.85	7,870.20	7,768.01	102.19	77.017	
15,900.00	7,630.00	7,680.73	7,562.86	125.74	31.87	-90.29	1,230.84	4,564.85	7,962.98	7,860.60	102.38	77.781	
16,000.00	7,630.00	7,680.96	7,563.09	127.42	31.88	-90.29	1,230.83	4,564.86	8,055.92	7,953.36	102.56	78.548	
16,100.00	7,630.00	7,681.19	7,563.31	129.10	31.88	-90.30	1,230.83	4,564.86	8,149.04	8,046.30	102.74	79.318	
16,200.00	7,630.00	7,681.41	7,563.54	130.79	31.88	-90.30	1,230.83	4,564.86	8,242.31	8,139.40	102.91	80.089	
16,300.00	7,630.00	7,681.64	7,563.76	132.48	31.88	-90.31	1,230.83	4,564.86	8,335.75	8,232.66	103.08	80.863	
16,400.00	7,630.00	7,681.86	7,563.99	134.17	31.88	-90.31	1,230.83	4,564.86	8,429.33	8,326.08	103.25	81.639	
16,500.00	7,630.00	7,682.08	7,564.21	135.86	31.88	-90.31	1,230.83	4,564.86	8,523.06	8,419.64	103.41	82.417	
16,600.00	7,630.00	7,682.30	7,564.43	137.55	31.88	-90.32	1,230.83	4,564.86	8,616.93	8,513.35	103.57	83.196	
16,700.00	7,630.00	7,682.53	7,564.65	139.24	31.88	-90.32	1,230.83	4,564.86	8,710.93	8,607.20	103.73	83.978	
16,800.00	7,630.00	7,682.75	7,564.87	140.94	31.88	-90.33	1,230.83	4,564.86	8,805.07	8,701.19	103.88	84.761	
16,900.00	7,630.00	7,682.97	7,565.09	142.64	31.88	-90.33	1,230.83	4,564.86	8,899.33	8,795.30	104.03	85.546	
17,000.00	7,630.00	7,683.19	7,565.31	144.34	31.88	-90.34	1,230.83	4,564.86	8,993.72	8,889.55	104.18	86.332	
17,100.00	7,630.00	7,683.41	7,565.53	146.04	31.88	-90.34	1,230.83	4,564.86	9,088.23	8,983.91	104.32	87.119	
17,200.00	7,630.00	7,683.62	7,565.75	147.74	31.88	-90.34	1,230.83	4,564.86	9,182.86	9,078.40	104.46	87.908	
17,300.00	7,630.00	7,683.84	7,565.97	149.44	31.88	-90.35	1,230.83	4,564.86	9,277.60	9,173.00	104.60	88.699	
17,400.00	7,630.00	7,684.06	7,566.19	151.15	31.88	-90.35	1,230.83	4,564.86	9,372.45	9,267.71	104.73	89.490	
17,500.00	7,630.00	7,684.28	7,566.40	152.86	31.88	-90.36	1,230.82	4,564.86	9,467.40	9,362.54	104.86	90.283	
17,600.00	7,630.00	7,684.49	7,566.62	154.56	31.89	-90.36	1,230.82	4,564.87	9,562.46	9,457.46	104.99	91.076	
17,700.00	7,630.00	7,684.71	7,566.83	156.27	31.89	-90.37	1,230.82	4,564.87	9,657.61	9,552.49	105.12	91.871	
17,800.00	7,630.00	7,684.92	7,567.05	157.98	31.89	-90.37	1,230.82	4,564.87	9,752.87	9,647.62	105.25	92.667	
17,900.00	7,630.00	7,685.14	7,567.26	159.70	31.89	-90.37	1,230.82	4,564.87	9,848.21	9,742.84	105.37	93.464	
18,000.00	7,630.00	7,685.35	7,567.48	161.41	31.89	-90.38	1,230.82	4,564.87	9,943.65	9,838.16	105.49	94.261	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	82.17	750.30	5,453.17	5,505.15				
100.00	100.00	34.74	34.74	0.13	0.05	82.17	750.29	5,453.11	5,504.51	5,504.33	0.19	N/A	
200.00	200.00	156.34	156.34	0.49	0.40	82.17	750.13	5,452.37	5,503.87	5,502.98	0.89	6,192.840	
300.00	300.00	247.49	247.49	0.85	0.72	82.17	750.10	5,451.80	5,503.24	5,501.66	1.57	3,497.493	
400.00	400.00	353.76	353.76	1.21	1.10	82.16	750.21	5,451.17	5,502.67	5,500.35	2.31	2,379.792	
492.69	492.69	410.70	410.69	1.54	1.30	82.17	749.73	5,451.05	5,502.37	5,499.53	2.84	1,935.874	
500.00	500.00	415.25	415.24	1.57	1.32	82.17	749.64	5,451.07	5,502.37	5,499.49	2.88	1,907.663	
600.00	600.00	479.72	479.67	1.93	1.54	82.19	747.66	5,451.59	5,502.76	5,499.29	3.47	1,587.508	
700.00	700.00	534.00	533.87	2.29	1.73	82.22	744.86	5,452.49	5,503.78	5,499.77	4.01	1,371.773	
800.00	800.00	589.72	589.43	2.64	1.93	82.26	740.90	5,454.03	5,505.62	5,501.05	4.57	1,204.932	
900.00	900.00	646.07	645.50	3.00	2.13	82.32	735.77	5,456.33	5,508.42	5,503.28	5.13	1,073.353	
1,000.00	1,000.00	716.00	714.86	3.36	2.39	82.41	727.54	5,459.72	5,511.72	5,505.97	5.75	958.322	
1,100.00	1,100.00	762.81	761.11	3.72	2.58	82.48	720.93	5,462.47	5,515.83	5,509.53	6.29	876.309	
1,200.00	1,200.00	809.00	806.60	4.08	2.77	82.56	713.66	5,465.86	5,521.04	5,514.20	6.84	807.709	
1,300.00	1,300.00	852.80	849.61	4.44	2.95	82.64	706.23	5,469.55	5,527.25	5,519.87	7.38	749.298	
1,400.00	1,400.00	902.00	897.80	4.79	3.17	82.74	697.43	5,474.13	5,534.36	5,526.42	7.94	696.997	
1,500.00	1,499.98	963.48	957.86	5.15	3.45	44.97	685.89	5,480.39	5,541.05	5,532.48	8.57	646.771	
1,600.00	1,599.84	1,024.02	1,016.83	5.51	3.73	45.06	673.94	5,487.05	5,546.04	5,536.85	9.19	603.196	
1,700.00	1,699.45	1,093.17	1,083.85	5.87	4.07	45.22	658.96	5,495.21	5,549.28	5,539.40	9.88	561.865	
1,800.00	1,798.70	1,226.76	1,213.16	6.23	4.76	45.64	629.37	5,510.93	5,550.20	5,539.30	10.90	509.209	
1,900.00	1,897.47	1,292.11	1,276.69	6.60	5.09	45.88	615.96	5,518.32	5,548.57	5,536.99	11.58	479.088	
2,000.00	1,995.62	1,348.41	1,331.35	6.99	5.38	46.13	604.30	5,525.14	5,545.40	5,533.17	12.23	453.606	
2,100.00	2,093.06	1,437.01	1,417.10	7.39	5.86	46.56	584.95	5,536.22	5,540.37	5,527.31	13.06	424.364	
2,200.00	2,189.64	1,509.20	1,486.66	7.82	6.26	46.98	568.05	5,545.47	5,533.42	5,519.59	13.83	400.117	
2,300.00	2,285.27	1,617.20	1,590.51	8.28	6.87	47.63	541.83	5,559.43	5,524.51	5,509.68	14.83	372.627	
2,400.00	2,379.82	1,732.84	1,702.11	8.77	7.52	48.36	515.11	5,573.59	5,513.05	5,497.17	15.88	347.226	
2,500.00	2,473.17	1,791.78	1,759.13	9.31	7.84	48.86	502.03	5,580.85	5,499.83	5,483.20	16.64	330.578	
2,600.00	2,565.21	1,884.92	1,849.23	9.88	8.36	49.59	481.57	5,592.56	5,485.01	5,467.40	17.61	311.462	
2,660.67	2,620.37	1,970.01	1,931.68	10.25	8.82	50.21	463.23	5,602.89	5,474.94	5,456.57	18.37	298.084	
2,700.00	2,655.96	2,008.82	1,969.37	10.50	9.03	50.43	455.16	5,607.42	5,468.08	5,449.31	18.77	291.254	
2,800.00	2,746.43	2,073.72	2,032.30	11.15	9.39	50.79	441.34	5,615.12	5,451.15	5,431.51	19.64	277.509	
2,900.00	2,836.90	2,191.86	2,146.53	11.82	10.05	51.48	414.59	5,629.04	5,434.69	5,413.86	20.83	260.876	
3,000.00	2,927.37	2,306.62	2,257.29	12.50	10.70	52.16	387.37	5,641.77	5,418.17	5,396.13	22.03	245.902	
3,100.00	3,017.85	2,440.81	2,387.46	13.21	11.44	52.93	357.93	5,655.75	5,401.63	5,378.30	23.33	231.484	
3,200.00	3,108.32	2,532.44	2,476.72	13.92	11.92	53.45	339.29	5,664.71	5,384.99	5,360.59	24.41	220.631	
3,300.00	3,198.79	2,580.34	2,523.29	14.64	12.18	53.73	329.14	5,669.47	5,369.08	5,343.81	25.27	212.504	
3,400.00	3,289.27	2,616.23	2,558.12	15.38	12.38	53.94	321.40	5,673.35	5,354.40	5,328.33	26.07	205.370	
3,500.00	3,379.74	3,500.00	2,647.20	16.12	17.26	54.47	301.32	5,683.72	5,340.66	5,309.35	31.31	170.571	
3,600.00	3,470.21	2,846.30	2,781.23	16.87	13.64	55.29	270.94	5,697.97	5,326.50	5,297.92	28.58	186.372	
3,700.00	3,560.68	2,912.91	2,845.72	17.62	14.02	55.69	255.71	5,704.72	5,312.95	5,283.36	29.59	179.548	
3,800.00	3,651.16	3,001.02	2,930.95	18.39	14.51	56.22	235.26	5,713.76	5,300.09	5,269.36	30.73	172.470	
3,900.00	3,741.63	3,056.15	2,984.34	19.15	14.82	56.56	222.77	5,719.46	5,287.87	5,256.17	31.69	166.847	
4,000.00	3,832.10	3,115.00	3,041.21	19.92	15.15	56.91	209.12	5,726.03	5,276.84	5,244.16	32.68	161.461	
4,100.00	3,922.57	3,164.39	3,088.89	20.69	15.44	57.22	197.66	5,731.81	5,266.82	5,233.20	33.62	156.650	
4,200.00	4,013.05	3,299.14	3,219.42	21.47	16.19	58.02	168.06	5,747.46	5,257.37	5,222.33	35.04	150.044	
4,300.00	4,103.52	3,400.66	3,317.90	22.25	16.75	58.63	145.98	5,758.38	5,247.63	5,211.36	36.27	144.674	
4,400.00	4,193.99	3,471.74	3,386.70	23.03	17.15	59.07	129.73	5,765.89	5,238.45	5,201.10	37.35	140.251	
4,500.00	4,284.47	3,526.28	3,439.44	23.81	17.46	59.40	117.17	5,771.79	5,230.13	5,191.79	38.34	136.420	
4,600.00	4,374.94	3,585.00	3,496.16	24.60	17.79	59.77	103.61	5,778.58	5,222.95	5,183.60	39.35	132.722	
4,700.00	4,465.41	3,710.19	3,617.60	25.39	18.48	60.52	76.95	5,793.16	5,216.23	5,175.50	40.73	128.075	
4,800.00	4,555.88	3,807.44	3,712.46	26.18	18.99	61.08	58.61	5,804.28	5,209.45	5,167.52	41.93	124.242	
4,900.00	4,646.36	3,885.24	3,788.30	26.97	19.40	61.53	43.66	5,813.10	5,203.18	5,160.15	43.03	120.920	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,736.83	3,953.40	3,854.68	27.76	19.76	61.93	30.34	5,820.95	5,197.67	5,153.59	44.08	117.904	
5,100.00	4,827.30	4,005.74	3,905.62	28.55	20.05	62.24	20.07	5,827.21	5,193.08	5,148.03	45.05	115.267	
5,200.00	4,917.77	4,060.09	3,958.46	29.35	20.34	62.56	9.40	5,834.07	5,189.59	5,143.56	46.03	112.740	
5,300.00	5,008.25	4,167.14	4,062.55	30.15	20.92	63.19	-11.76	5,847.49	5,186.58	5,139.27	47.30	109.641	
5,400.00	5,098.72	5,400.00	4,178.86	30.94	27.31	63.88	-34.18	5,862.50	5,184.03	5,130.34	53.68	96.565	
5,500.00	5,189.19	4,471.48	4,360.05	31.74	22.47	64.92	-64.72	5,883.30	5,179.96	5,129.68	50.28	103.021	
5,600.00	5,279.67	4,561.63	4,448.15	32.54	22.93	65.45	-81.42	5,892.51	5,176.36	5,124.91	51.45	100.610	
5,700.00	5,370.14	4,860.16	4,741.28	33.34	24.37	67.18	-132.65	5,915.67	5,169.94	5,116.29	53.65	96.358	
5,800.00	5,460.61	5,523.55	5,401.59	34.14	26.69	70.58	-184.25	5,933.22	5,156.17	5,099.50	56.66	90.995	
5,900.00	5,551.08	5,623.19	5,501.23	34.94	26.92	71.04	-184.12	5,932.60	5,140.20	5,082.51	57.69	89.099	
6,000.00	5,641.56	5,757.23	5,635.26	35.75	27.23	71.64	-183.26	5,931.50	5,124.27	5,065.50	58.77	87.191	
6,100.00	5,732.03	5,839.93	5,717.96	36.55	27.42	72.02	-182.60	5,930.57	5,108.30	5,048.53	59.77	85.471	
6,200.00	5,822.50	5,923.68	5,801.71	37.35	27.61	72.40	-182.22	5,929.58	5,092.69	5,031.92	60.77	83.796	
6,300.00	5,912.97	6,014.90	5,892.91	38.16	27.83	72.83	-182.00	5,928.49	5,077.46	5,015.65	61.80	82.154	
6,400.00	6,003.45	6,139.96	6,017.95	38.96	28.12	73.41	-181.38	5,926.55	5,062.13	4,999.23	62.90	80.482	
6,500.00	6,093.92	6,231.09	6,109.07	39.77	28.34	73.84	-180.56	5,925.00	5,046.91	4,982.98	63.93	78.942	
6,600.00	6,184.39	6,323.61	6,201.57	40.57	28.56	74.27	-179.57	5,923.40	5,031.92	4,966.95	64.97	77.450	
6,700.00	6,274.87	6,393.00	6,270.95	41.38	28.72	74.59	-178.69	5,922.35	5,017.40	4,951.43	65.97	76.055	
6,800.00	6,365.34	6,439.86	6,317.81	42.18	28.84	74.81	-178.15	5,921.95	5,003.81	4,936.88	66.93	74.758	
6,900.00	6,455.81	6,487.00	6,364.94	42.99	28.96	75.03	-177.84	5,921.99	4,991.42	4,923.52	67.89	73.518	
7,000.00	6,546.28	6,569.16	6,447.10	43.80	29.18	75.42	-177.71	5,922.35	4,979.86	4,910.91	68.94	72.233	
7,100.00	6,636.76	6,672.99	6,550.93	44.61	29.47	75.92	-177.97	5,922.50	4,968.52	4,898.47	70.05	70.925	
7,200.00	6,727.23	6,790.15	6,668.09	45.41	29.79	76.49	-178.24	5,922.01	4,957.03	4,885.84	71.19	69.628	
7,300.00	6,817.70	6,862.00	6,739.94	46.22	29.99	76.83	-178.32	5,921.75	4,945.93	4,873.70	72.23	68.476	
7,383.79	6,893.51	6,922.47	6,800.41	46.90	30.16	77.13	-178.44	5,921.74	4,937.14	4,864.04	73.10	67.537	
7,400.00	6,908.25	6,934.04	6,811.98	47.03	30.19	74.68	-178.48	5,921.75	4,935.40	4,862.13	73.27	67.360	
7,450.00	6,954.52	6,974.81	6,852.75	47.40	30.31	65.29	-178.66	5,921.84	4,928.79	4,855.03	73.76	66.820	
7,500.00	7,001.74	7,023.39	6,901.33	47.72	30.45	52.54	-178.89	5,921.94	4,920.28	4,846.06	74.22	66.292	
7,550.00	7,049.55	7,076.88	6,954.82	47.99	30.60	36.25	-179.16	5,922.02	4,909.88	4,835.24	74.63	65.786	
7,600.00	7,097.58	7,135.28	7,013.21	48.21	30.77	17.95	-179.44	5,921.99	4,897.56	4,822.57	75.00	65.303	
7,650.00	7,145.48	7,179.09	7,057.03	48.37	30.90	0.53	-179.67	5,921.92	4,883.47	4,808.20	75.27	64.883	
7,700.00	7,192.88	7,220.32	7,098.26	48.48	31.02	-13.99	-179.92	5,921.90	4,867.79	4,792.33	75.47	64.500	
7,750.00	7,239.41	7,270.61	7,148.55	48.54	31.17	-25.44	-180.27	5,921.88	4,850.63	4,774.99	75.64	64.127	
7,800.00	7,284.72	7,325.56	7,203.49	48.56	31.33	-34.54	-180.62	5,921.77	4,832.02	4,756.25	75.77	63.771	
7,850.00	7,328.47	7,368.29	7,246.22	48.54	31.46	-41.97	-180.91	5,921.64	4,812.16	4,736.33	75.82	63.467	
7,900.00	7,370.32	7,408.56	7,286.49	48.47	31.58	-48.28	-181.23	5,921.51	4,791.29	4,715.47	75.82	63.195	
7,950.00	7,409.96	7,446.79	7,324.72	48.37	31.69	-53.83	-181.58	5,921.38	4,769.61	4,693.85	75.76	62.956	
8,000.00	7,447.08	7,482.71	7,360.63	48.24	31.79	-58.84	-181.95	5,921.25	4,747.34	4,671.68	75.66	62.750	
8,050.00	7,481.41	7,516.03	7,393.95	48.07	31.89	-63.45	-182.32	5,921.13	4,724.69	4,649.18	75.50	62.577	
8,100.00	7,512.67	7,541.98	7,419.90	47.87	31.97	-67.67	-182.65	5,921.04	4,701.90	4,626.61	75.29	62.447	
8,150.00	7,540.64	7,565.39	7,443.31	47.65	32.04	-71.59	-182.99	5,920.97	4,679.23	4,604.18	75.05	62.351	
8,200.00	7,565.09	7,586.07	7,463.99	47.40	32.10	-75.21	-183.33	5,920.92	4,656.89	4,582.12	74.76	62.289	
8,250.00	7,585.85	7,603.86	7,481.77	47.14	32.16	-78.53	-183.65	5,920.87	4,635.10	4,560.66	74.45	62.261	
8,300.00	7,602.75	7,620.69	7,498.60	46.86	32.21	-81.57	-183.96	5,920.84	4,614.09	4,539.99	74.11	62.262	
8,350.00	7,615.67	7,634.54	7,512.44	46.58	32.25	-84.29	-184.20	5,920.82	4,594.06	4,520.31	73.74	62.297	
8,400.00	7,624.51	7,644.17	7,522.08	46.28	32.28	-86.66	-184.35	5,920.82	4,575.20	4,501.84	73.36	62.366	
8,450.00	7,629.19	7,649.58	7,527.49	45.98	32.30	-88.68	-184.43	5,920.81	4,557.71	4,484.75	72.96	62.469	
8,481.00	7,630.00	7,650.83	7,528.74	45.79	32.30	-89.74	-184.45	5,920.81	4,547.62	4,474.91	72.70	62.549	
8,500.00	7,630.00	7,651.10	7,529.01	45.68	32.30	-89.75	-184.45	5,920.81	4,541.66	4,469.11	72.55	62.602	
8,600.00	7,630.00	7,652.51	7,530.42	45.11	32.31	-89.77	-184.47	5,920.81	4,511.48	4,439.71	71.76	62.867	
8,700.00	7,630.00	7,653.90	7,531.80	44.56	32.31	-89.78	-184.49	5,920.81	4,483.32	4,412.29	71.04	63.111	
8,800.00	7,630.00	7,655.25	7,533.15	44.05	32.32	-89.80	-184.51	5,920.81	4,457.24	4,386.85	70.39	63.324	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	7,656.57	7,534.48	43.57	32.32	-89.82	-184.53	5,920.81	4,433.25	4,363.43	69.82	63.497	
9,000.00	7,630.00	7,657.87	7,535.77	43.12	32.32	-89.84	-184.55	5,920.81	4,411.40	4,342.06	69.34	63.620	
9,100.00	7,630.00	7,659.14	7,537.04	42.70	32.33	-89.85	-184.56	5,920.81	4,391.72	4,322.76	68.96	63.684	
9,200.00	7,630.00	7,660.38	7,538.28	42.31	32.33	-89.87	-184.58	5,920.81	4,374.24	4,305.55	68.69	63.681	
9,300.00	7,630.00	7,661.60	7,539.50	41.94	32.34	-89.89	-184.60	5,920.81	4,358.99	4,290.45	68.53	63.603	
9,400.00	7,630.00	7,662.79	7,540.70	41.59	32.34	-89.90	-184.61	5,920.81	4,345.98	4,277.48	68.50	63.446	
9,500.00	7,630.00	7,663.96	7,541.87	41.26	32.34	-89.92	-184.63	5,920.81	4,335.23	4,266.65	68.59	63.208	
9,600.00	7,630.00	7,665.11	7,543.01	40.96	32.35	-89.93	-184.64	5,920.81	4,326.78	4,257.97	68.80	62.889	
9,700.00	7,630.00	7,666.23	7,544.14	40.68	32.35	-89.95	-184.66	5,920.81	4,320.62	4,251.48	69.14	62.491	
9,800.00	7,630.00	7,667.34	7,545.24	40.42	32.35	-89.96	-184.67	5,920.81	4,316.77	4,247.16	69.60	62.021	
9,900.00	7,630.00	7,668.42	7,546.32	40.17	32.36	-89.98	-184.69	5,920.81	4,315.23	4,245.05	70.18	61.486	
9,916.34	7,630.00	7,668.60	7,546.50	40.13	32.36	-89.98	-184.69	5,920.81	4,315.20	4,244.90	70.29	61.389	CC, ES
10,000.00	7,630.00	7,669.48	7,547.39	39.96	32.36	-89.99	-184.70	5,920.81	4,316.01	4,245.13	70.88	60.896	
10,100.00	7,630.00	7,670.52	7,548.43	40.05	32.36	-90.01	-184.71	5,920.81	4,319.10	4,247.43	71.67	60.261	
10,200.00	7,630.00	7,671.55	7,549.45	40.95	32.37	-90.02	-184.72	5,920.81	4,324.51	4,251.94	72.57	59.593	
10,300.00	7,630.00	7,672.55	7,550.45	41.94	32.37	-90.03	-184.74	5,920.81	4,332.22	4,258.67	73.55	58.902	
10,400.00	7,630.00	7,673.54	7,551.44	42.98	32.37	-90.05	-184.75	5,920.81	4,342.21	4,267.61	74.61	58.201	
10,500.00	7,630.00	7,674.51	7,552.41	44.06	32.38	-90.06	-184.76	5,920.81	4,354.48	4,278.75	75.73	57.498	
10,600.00	7,630.00	7,675.46	7,553.36	45.17	32.38	-90.07	-184.77	5,920.82	4,369.01	4,292.09	76.92	56.802	
10,700.00	7,630.00	7,676.39	7,554.29	46.32	32.38	-90.08	-184.78	5,920.82	4,385.77	4,307.62	78.15	56.122	
10,800.00	7,630.00	7,677.31	7,555.21	47.50	32.38	-90.10	-184.79	5,920.82	4,404.73	4,325.32	79.42	55.464	
10,900.00	7,630.00	7,678.21	7,556.11	48.70	32.39	-90.11	-184.80	5,920.82	4,425.88	4,345.16	80.72	54.833	
11,000.00	7,630.00	7,679.10	7,557.00	49.94	32.39	-90.12	-184.81	5,920.82	4,449.17	4,367.13	82.04	54.233	
11,100.00	7,630.00	7,679.97	7,557.87	51.20	32.39	-90.13	-184.82	5,920.82	4,474.57	4,391.20	83.37	53.669	
11,200.00	7,630.00	7,680.82	7,558.73	52.48	32.39	-90.14	-184.83	5,920.82	4,502.06	4,417.34	84.72	53.142	
11,300.00	7,630.00	7,681.67	7,559.57	53.79	32.40	-90.15	-184.84	5,920.82	4,531.58	4,445.52	86.06	52.654	
11,400.00	7,630.00	7,682.49	7,560.40	55.12	32.40	-90.16	-184.85	5,920.82	4,563.10	4,475.70	87.41	52.206	
11,500.00	7,630.00	7,683.31	7,561.21	56.46	32.40	-90.18	-184.86	5,920.82	4,596.59	4,507.85	88.74	51.799	
11,600.00	7,630.00	7,684.11	7,562.01	57.83	32.40	-90.19	-184.87	5,920.82	4,631.99	4,541.93	90.06	51.432	
11,700.00	7,630.00	7,684.90	7,562.80	59.22	32.41	-90.20	-184.88	5,920.82	4,669.26	4,577.89	91.37	51.105	
11,800.00	7,630.00	7,685.67	7,563.57	60.62	32.41	-90.21	-184.88	5,920.82	4,708.36	4,615.71	92.65	50.818	
11,900.00	7,630.00	7,686.43	7,564.34	62.04	32.41	-90.22	-184.89	5,920.82	4,749.25	4,655.33	93.92	50.569	
12,000.00	7,630.00	7,687.19	7,565.09	63.48	32.41	-90.23	-184.90	5,920.82	4,791.88	4,696.72	95.16	50.358	
12,100.00	7,630.00	7,687.92	7,565.83	64.93	32.42	-90.24	-184.91	5,920.83	4,836.19	4,739.82	96.37	50.184	
12,200.00	7,630.00	7,688.65	7,566.55	66.39	32.42	-90.25	-184.92	5,920.83	4,882.16	4,784.60	97.56	50.045	
12,300.00	7,630.00	7,689.37	7,567.27	67.86	32.42	-90.26	-184.92	5,920.83	4,929.72	4,831.01	98.71	49.940	
12,400.00	7,630.00	7,690.07	7,567.97	69.35	32.42	-90.27	-184.93	5,920.83	4,978.84	4,879.00	99.84	49.869	
12,500.00	7,630.00	7,690.77	7,568.67	70.85	32.42	-90.27	-184.94	5,920.83	5,029.46	4,928.53	100.94	49.828	
12,600.00	7,630.00	7,691.45	7,569.35	72.36	32.43	-90.28	-184.94	5,920.83	5,081.55	4,979.55	102.00	49.818	SF
12,700.00	7,630.00	7,692.12	7,570.03	73.88	32.43	-90.29	-184.95	5,920.83	5,135.06	5,032.03	103.04	49.837	
12,800.00	7,630.00	7,692.79	7,570.69	75.41	32.43	-90.30	-184.96	5,920.83	5,189.95	5,085.91	104.04	49.884	
12,900.00	7,630.00	7,693.44	7,571.34	76.95	32.43	-90.31	-184.96	5,920.83	5,246.16	5,141.15	105.01	49.958	
13,000.00	7,630.00	7,694.09	7,571.99	78.49	32.44	-90.32	-184.97	5,920.83	5,303.67	5,197.71	105.95	50.057	
13,100.00	7,630.00	7,704.00	7,581.90	80.05	32.47	-90.45	-185.06	5,920.85	5,362.43	5,255.56	106.87	50.176	
13,200.00	7,630.00	7,704.00	7,581.90	81.61	32.47	-90.45	-185.06	5,920.85	5,422.39	5,314.64	107.75	50.323	
13,300.00	7,630.00	7,704.00	7,581.90	83.18	32.47	-90.45	-185.06	5,920.85	5,483.52	5,374.92	108.60	50.491	
13,400.00	7,630.00	7,704.00	7,581.90	84.76	32.47	-90.45	-185.06	5,920.85	5,545.78	5,436.35	109.43	50.681	
13,500.00	7,630.00	7,704.00	7,581.90	86.34	32.47	-90.45	-185.06	5,920.85	5,609.13	5,498.91	110.22	50.891	
13,600.00	7,630.00	7,704.00	7,581.90	87.94	32.47	-90.45	-185.06	5,920.85	5,673.53	5,562.55	110.98	51.120	
13,700.00	7,630.00	7,704.00	7,581.90	89.53	32.47	-90.45	-185.06	5,920.85	5,738.96	5,627.23	111.72	51.367	
13,800.00	7,630.00	7,704.00	7,581.90	91.13	32.47	-90.45	-185.06	5,920.85	5,805.37	5,692.93	112.44	51.632	
13,900.00	7,630.00	7,704.00	7,581.90	92.74	32.47	-90.45	-185.06	5,920.85	5,872.73	5,759.60	113.12	51.914	

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 79-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,630.00	7,704.00	7,581.90	94.35	32.47	-90.45	-185.06	5,920.85	5,941.01	5,827.22	113.79	52.212	
14,100.00	7,630.00	7,704.00	7,581.90	95.97	32.47	-90.45	-185.06	5,920.85	6,010.18	5,895.75	114.43	52.525	
14,200.00	7,630.00	7,704.00	7,581.90	97.60	32.47	-90.45	-185.06	5,920.85	6,080.21	5,965.17	115.04	52.852	
14,300.00	7,630.00	7,704.00	7,581.90	99.22	32.47	-90.45	-185.06	5,920.85	6,151.06	6,035.43	115.63	53.194	
14,400.00	7,630.00	7,704.00	7,581.90	100.85	32.47	-90.45	-185.06	5,920.85	6,222.72	6,106.51	116.21	53.549	
14,500.00	7,630.00	7,704.00	7,581.90	102.49	32.47	-90.45	-185.06	5,920.85	6,295.15	6,178.39	116.76	53.916	
14,600.00	7,630.00	7,704.00	7,581.90	104.13	32.47	-90.45	-185.06	5,920.85	6,368.32	6,251.03	117.29	54.296	
14,700.00	7,630.00	7,704.00	7,581.90	105.77	32.47	-90.45	-185.06	5,920.85	6,442.22	6,324.42	117.80	54.687	
14,800.00	7,630.00	7,704.40	7,582.30	107.42	32.47	-90.46	-185.06	5,920.85	6,516.81	6,398.52	118.29	55.090	
14,900.00	7,630.00	7,705.20	7,583.10	109.07	32.47	-90.47	-185.07	5,920.85	6,592.08	6,473.31	118.77	55.503	
15,000.00	7,630.00	7,706.00	7,583.90	110.72	32.47	-90.48	-185.08	5,920.85	6,668.00	6,548.77	119.23	55.926	
15,100.00	7,630.00	7,706.81	7,584.71	112.38	32.47	-90.49	-185.08	5,920.85	6,744.54	6,624.87	119.67	56.358	
15,200.00	7,630.00	7,707.61	7,585.52	114.04	32.48	-90.50	-185.09	5,920.85	6,821.69	6,701.59	120.10	56.800	
15,300.00	7,630.00	7,708.42	7,586.32	115.71	32.48	-90.51	-185.10	5,920.86	6,899.43	6,778.92	120.51	57.251	
15,400.00	7,630.00	7,709.23	7,587.13	117.37	32.48	-90.52	-185.10	5,920.86	6,977.73	6,856.83	120.91	57.711	
15,500.00	7,630.00	7,710.04	7,587.95	119.04	32.48	-90.53	-185.11	5,920.86	7,056.59	6,935.30	121.29	58.179	
15,600.00	7,630.00	7,710.86	7,588.76	120.71	32.49	-90.54	-185.12	5,920.86	7,135.97	7,014.31	121.66	58.655	
15,700.00	7,630.00	7,711.67	7,589.57	122.39	32.49	-90.55	-185.13	5,920.86	7,215.87	7,093.85	122.02	59.138	
15,800.00	7,630.00	7,712.49	7,590.39	124.06	32.49	-90.56	-185.13	5,920.86	7,296.26	7,173.89	122.36	59.629	
15,900.00	7,630.00	7,713.31	7,591.21	125.74	32.49	-90.57	-185.14	5,920.86	7,377.13	7,254.43	122.69	60.126	
16,000.00	7,630.00	7,714.12	7,592.03	127.42	32.50	-90.58	-185.15	5,920.87	7,458.46	7,335.45	123.02	60.630	
16,100.00	7,630.00	7,714.95	7,592.85	129.10	32.50	-90.60	-185.15	5,920.87	7,540.24	7,416.92	123.33	61.141	
16,200.00	7,630.00	7,715.77	7,593.67	130.79	32.50	-90.61	-185.16	5,920.87	7,622.46	7,498.84	123.62	61.658	
16,300.00	7,630.00	7,716.59	7,594.49	132.48	32.50	-90.62	-185.17	5,920.87	7,705.10	7,581.18	123.91	62.181	
16,400.00	7,630.00	7,717.42	7,595.32	134.17	32.51	-90.63	-185.18	5,920.87	7,788.14	7,663.95	124.19	62.709	
16,500.00	7,630.00	7,718.25	7,596.15	135.86	32.51	-90.64	-185.18	5,920.87	7,871.58	7,747.12	124.47	63.243	
16,600.00	7,630.00	7,719.08	7,596.98	137.55	32.51	-90.65	-185.19	5,920.88	7,955.40	7,830.68	124.73	63.782	
16,700.00	7,630.00	7,719.91	7,597.81	139.24	32.51	-90.66	-185.20	5,920.88	8,039.59	7,914.61	124.98	64.327	
16,800.00	7,630.00	7,720.74	7,598.64	140.94	32.52	-90.67	-185.20	5,920.88	8,124.14	7,998.92	125.23	64.876	
16,900.00	7,630.00	7,721.57	7,599.47	142.64	32.52	-90.68	-185.21	5,920.88	8,209.04	8,083.58	125.46	65.430	
17,000.00	7,630.00	7,722.41	7,600.31	144.34	32.52	-90.69	-185.22	5,920.88	8,294.27	8,168.58	125.69	65.988	
17,100.00	7,630.00	7,723.25	7,601.15	146.04	32.52	-90.71	-185.23	5,920.89	8,379.83	8,253.92	125.92	66.551	
17,200.00	7,630.00	7,724.09	7,601.99	147.74	32.53	-90.72	-185.23	5,920.89	8,465.71	8,339.58	126.13	67.118	
17,300.00	7,630.00	7,724.93	7,602.83	149.44	32.53	-90.73	-185.24	5,920.89	8,551.89	8,425.55	126.34	67.689	
17,400.00	7,630.00	7,725.77	7,603.67	151.15	32.53	-90.74	-185.25	5,920.89	8,638.37	8,511.83	126.54	68.264	
17,500.00	7,630.00	7,726.61	7,604.51	152.86	32.53	-90.75	-185.26	5,920.89	8,725.14	8,598.40	126.74	68.842	
17,600.00	7,630.00	7,727.46	7,605.36	154.56	32.54	-90.76	-185.26	5,920.90	8,812.19	8,685.26	126.93	69.424	
17,700.00	7,630.00	7,728.31	7,606.21	156.27	32.54	-90.77	-185.27	5,920.90	8,899.51	8,772.39	127.12	70.010	
17,800.00	7,630.00	7,729.16	7,607.06	157.98	32.54	-90.78	-185.28	5,920.90	8,987.10	8,859.80	127.30	70.599	
17,900.00	7,630.00	7,730.01	7,607.91	159.70	32.55	-90.80	-185.29	5,920.90	9,074.94	8,947.47	127.47	71.191	
18,000.00	7,630.00	7,730.86	7,608.76	161.41	32.55	-90.81	-185.29	5,920.90	9,163.03	9,035.39	127.64	71.786	
18,100.00	7,630.00	7,731.71	7,609.61	163.12	32.55	-90.82	-185.30	5,920.91	9,251.36	9,123.56	127.81	72.385	
18,154.00	7,630.00	7,732.18	7,610.08	164.05	32.55	-90.82	-185.31	5,920.91	9,299.17	9,171.27	127.90	72.709	

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 139-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	82.08	761.24	5,472.76	5,526.08				
100.00	100.00	53.10	53.10	0.13	0.09	82.08	761.25	5,472.59	5,525.40	5,525.17	0.22	N/A	
200.00	200.00	177.21	177.20	0.49	0.36	82.08	761.45	5,470.99	5,524.06	5,523.20	0.86	6,455.161	
300.00	300.00	230.00	229.98	0.85	0.55	82.07	761.97	5,470.57	5,523.40	5,521.99	1.40	3,944.661	
400.00	400.00	327.87	327.82	1.21	0.90	82.05	764.37	5,470.02	5,523.18	5,521.07	2.11	2,622.684	
428.72	428.72	345.78	345.72	1.31	0.97	82.04	765.12	5,469.91	5,523.16	5,520.88	2.27	2,428.949	
500.00	500.00	395.14	394.99	1.57	1.14	82.01	767.95	5,469.61	5,523.30	5,520.59	2.71	2,040.040	
600.00	600.00	460.35	459.98	1.93	1.38	81.95	773.30	5,469.32	5,524.01	5,520.70	3.31	1,670.571	
700.00	700.00	1,109.44	1,096.80	2.29	4.27	80.72	886.55	5,428.01	5,520.82	5,514.29	6.53	845.820	
800.00	800.00	1,193.22	1,177.94	2.64	4.70	80.52	904.84	5,417.96	5,512.30	5,504.99	7.31	754.255	
900.00	900.00	1,277.00	1,259.36	3.00	5.13	80.33	922.00	5,408.18	5,504.02	5,495.93	8.09	680.719	
1,000.00	1,000.00	1,324.67	1,305.80	3.36	5.37	80.22	931.40	5,402.95	5,496.41	5,487.73	8.68	633.093	
1,100.00	1,100.00	1,371.00	1,350.95	3.72	5.61	80.12	940.70	5,398.35	5,489.87	5,480.60	9.27	592.081	
1,200.00	1,200.00	1,429.28	1,407.67	4.08	5.91	79.98	952.94	5,392.97	5,484.22	5,474.29	9.93	552.336	
1,300.00	1,300.00	1,540.70	1,515.60	4.44	6.50	79.70	978.61	5,382.70	5,479.08	5,468.20	10.87	503.957	
1,400.00	1,400.00	1,667.12	1,637.42	4.79	7.19	79.35	1,009.85	5,369.76	5,473.27	5,461.36	11.92	459.204	
1,500.00	1,499.98	1,733.00	1,701.10	5.15	7.55	41.47	1,025.43	5,363.22	5,466.45	5,453.81	12.63	432.674	
1,600.00	1,599.84	1,841.76	1,806.72	5.51	8.13	41.36	1,049.24	5,353.03	5,457.34	5,443.78	13.56	402.512	
1,700.00	1,699.45	1,930.20	1,892.99	5.87	8.58	41.37	1,067.00	5,344.98	5,445.61	5,431.26	14.36	379.254	
1,800.00	1,798.70	1,992.93	1,954.34	6.23	8.89	41.47	1,078.93	5,339.65	5,431.72	5,416.69	15.03	361.488	
1,900.00	1,897.47	2,103.47	2,062.14	6.60	9.45	41.56	1,101.57	5,330.42	5,415.70	5,399.76	15.95	339.619	
2,000.00	1,995.62	2,322.50	2,274.77	6.99	10.61	41.57	1,149.03	5,308.03	5,395.32	5,377.87	17.44	309.311	
2,100.00	2,093.06	2,411.41	2,361.57	7.39	11.06	41.84	1,165.82	5,298.59	5,371.72	5,353.46	18.26	294.206	
2,200.00	2,189.64	2,475.36	2,424.04	7.82	11.39	42.17	1,177.87	5,292.08	5,346.02	5,327.06	18.96	281.972	
2,300.00	2,285.27	2,536.15	2,483.30	8.28	11.70	42.54	1,190.04	5,286.14	5,318.43	5,298.77	19.66	270.461	
2,400.00	2,379.82	2,617.78	2,562.73	8.77	12.12	42.96	1,207.25	5,278.55	5,289.00	5,268.50	20.49	258.081	
2,500.00	2,473.17	2,770.25	2,710.89	9.31	12.93	43.46	1,239.82	5,263.21	5,256.45	5,234.75	21.70	242.227	
2,600.00	2,565.21	2,884.90	2,822.17	9.88	13.54	44.04	1,264.41	5,250.79	5,220.84	5,198.10	22.74	229.595	
2,660.67	2,620.37	2,928.90	2,864.78	10.25	13.78	44.41	1,274.27	5,245.93	5,198.10	5,174.85	23.26	223.504	
2,700.00	2,655.96	2,960.00	2,894.87	10.50	13.95	44.43	1,281.39	5,242.53	5,183.16	5,159.55	23.61	219.540	
2,800.00	2,746.43	3,014.28	2,947.25	11.15	14.26	44.46	1,294.38	5,236.73	5,145.55	5,121.15	24.40	210.895	
2,900.00	2,836.90	3,075.98	3,006.56	11.82	14.61	44.48	1,310.16	5,230.37	5,108.58	5,083.34	25.25	202.344	
3,000.00	2,927.37	3,152.33	3,079.87	12.50	15.05	44.50	1,330.06	5,222.79	5,072.05	5,045.85	26.19	193.629	
3,100.00	3,017.85	3,290.61	3,212.65	13.21	15.85	44.54	1,365.98	5,208.58	5,035.18	5,007.69	27.49	183.190	
3,200.00	3,108.32	3,383.34	3,301.60	13.92	16.39	44.57	1,390.16	5,198.54	4,997.83	4,969.28	28.55	175.084	
3,300.00	3,198.79	3,529.15	3,441.21	14.64	17.26	44.60	1,428.99	5,182.39	4,960.51	4,930.61	29.90	165.903	
3,400.00	3,289.27	3,610.68	3,519.15	15.38	17.75	44.61	1,450.95	5,172.77	4,922.42	4,891.49	30.93	159.166	
3,500.00	3,379.74	3,677.63	3,583.35	16.12	18.14	44.63	1,468.33	5,165.20	4,884.62	4,852.75	31.87	153.265	
3,600.00	3,470.21	3,746.87	3,650.20	16.87	18.53	44.68	1,484.90	5,158.02	4,847.32	4,814.50	32.83	147.664	
3,700.00	3,560.68	3,845.32	3,745.15	17.62	19.09	44.73	1,508.92	5,148.06	4,810.37	4,776.44	33.93	141.769	
3,800.00	3,651.16	3,976.89	3,871.83	18.39	19.84	44.80	1,541.35	5,133.68	4,772.66	4,737.46	35.20	135.587	
3,900.00	3,741.63	4,073.24	3,965.17	19.15	20.37	44.87	1,562.88	5,123.20	4,734.65	4,698.37	36.28	130.494	
4,000.00	3,832.10	4,144.01	4,033.85	19.92	20.74	44.94	1,578.19	5,115.72	4,696.82	4,659.58	37.24	126.110	
4,100.00	3,922.57	4,226.57	4,114.33	20.69	21.17	45.04	1,594.74	5,107.63	4,659.42	4,621.17	38.25	121.811	
4,200.00	4,013.05	4,399.08	4,282.48	21.47	22.06	45.25	1,628.76	5,089.58	4,621.51	4,581.89	39.62	116.638	
4,300.00	4,103.52	4,488.71	4,369.54	22.25	22.53	45.35	1,647.20	5,078.88	4,582.31	4,541.64	40.67	112.674	
4,400.00	4,193.99	4,533.96	4,413.60	23.03	22.77	45.40	1,656.21	5,073.92	4,543.88	4,502.34	41.54	109.385	
4,500.00	4,284.47	4,555.00	4,434.14	23.81	22.88	45.43	1,660.27	5,071.79	4,506.55	4,464.23	42.32	106.488	
4,600.00	4,374.94	4,606.80	4,484.89	24.60	23.12	45.51	1,669.61	5,067.33	4,470.23	4,427.02	43.20	103.466	
4,700.00	4,465.41	4,648.00	4,525.47	25.39	23.32	45.59	1,676.23	5,064.68	4,435.27	4,391.21	44.06	100.672	
4,800.00	4,555.88	4,778.23	4,654.25	26.18	23.86	45.89	1,693.81	5,056.64	4,400.28	4,355.10	45.18	97.398	
4,900.00	4,646.36	4,846.60	4,722.13	26.97	24.13	46.08	1,700.99	5,052.72	4,365.33	4,319.24	46.09	94.708	

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 139-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,736.83	4,913.92	4,789.09	27.76	24.38	46.28	1,707.03	5,049.42	4,330.98	4,283.99	46.99	92.161	
5,100.00	4,827.30	5,007.09	4,881.92	28.55	24.70	46.58	1,713.93	5,045.38	4,297.03	4,249.07	47.95	89.607	
5,200.00	4,917.77	5,066.88	4,941.57	29.35	24.89	46.80	1,717.33	5,043.06	4,263.38	4,214.56	48.82	87.320	
5,300.00	5,008.25	5,122.71	4,997.32	30.15	25.07	47.01	1,719.85	5,041.52	4,230.69	4,181.00	49.69	85.148	
5,400.00	5,098.72	5,218.71	5,093.29	30.94	25.33	47.42	1,721.01	5,039.63	4,198.44	4,147.83	50.61	82.950	
5,500.00	5,189.19	5,281.52	5,156.08	31.74	25.47	47.72	1,720.06	5,038.83	4,166.67	4,115.22	51.46	80.973	
5,600.00	5,279.67	5,373.14	5,247.67	32.54	25.67	48.17	1,717.87	5,038.09	4,135.47	4,083.12	52.36	78.986	
5,700.00	5,370.14	5,504.05	5,378.53	33.34	25.97	48.82	1,714.85	5,036.14	4,103.92	4,050.59	53.33	76.955	
5,800.00	5,460.61	5,583.38	5,457.83	34.14	26.15	49.22	1,713.03	5,034.67	4,072.30	4,018.07	54.23	75.094	
5,900.00	5,551.08	5,654.18	5,528.60	34.94	26.32	49.57	1,711.74	5,033.57	4,041.25	3,986.13	55.13	73.308	
6,000.00	5,641.56	5,728.42	5,602.83	35.75	26.50	49.95	1,710.84	5,032.70	4,010.85	3,954.81	56.04	71.571	
6,100.00	5,732.03	5,812.39	5,686.80	36.55	26.71	50.37	1,710.07	5,031.95	3,980.98	3,924.00	56.98	69.865	
6,200.00	5,822.50	5,897.20	5,771.60	37.35	26.92	50.80	1,709.42	5,031.20	3,951.39	3,893.45	57.93	68.206	
6,300.00	5,912.97	5,975.67	5,850.07	38.16	27.12	51.20	1,709.12	5,030.74	3,922.35	3,863.46	58.88	66.612	
6,400.00	6,003.45	6,070.31	5,944.71	38.96	27.37	51.68	1,708.91	5,030.19	3,893.57	3,833.69	59.88	65.026	
6,500.00	6,093.92	6,153.44	6,027.84	39.77	27.59	52.11	1,708.98	5,029.75	3,865.14	3,804.28	60.86	63.509	
6,600.00	6,184.39	6,244.36	6,118.75	40.57	27.84	52.58	1,709.35	5,029.33	3,837.04	3,775.17	61.87	62.018	
6,700.00	6,274.87	6,321.33	6,195.72	41.38	28.06	52.98	1,709.81	5,029.11	3,809.38	3,746.52	62.86	60.602	
6,800.00	6,365.34	6,395.63	6,270.02	42.18	28.26	53.37	1,710.15	5,029.17	3,782.33	3,718.48	63.84	59.243	
6,900.00	6,455.81	6,488.24	6,362.63	42.99	28.50	53.87	1,710.11	5,029.54	3,755.83	3,690.95	64.87	57.894	
7,000.00	6,546.28	6,579.41	6,453.80	43.80	28.75	54.37	1,710.13	5,029.73	3,729.45	3,663.54	65.91	56.587	
7,100.00	6,636.76	6,682.74	6,557.13	44.61	29.02	54.95	1,709.95	5,029.90	3,703.34	3,636.37	66.97	55.296	
7,200.00	6,727.23	6,775.88	6,650.27	45.41	29.27	55.48	1,709.75	5,029.73	3,677.21	3,609.18	68.03	54.055	
7,300.00	6,817.70	6,871.21	6,745.60	46.22	29.54	56.02	1,709.68	5,029.53	3,651.38	3,582.28	69.10	52.843	
7,383.79	6,893.51	6,948.47	6,822.86	46.90	29.75	56.47	1,709.67	5,029.27	3,629.88	3,559.88	70.00	51.857	
7,400.00	6,908.25	6,963.10	6,837.49	47.03	29.79	53.77	1,709.66	5,029.22	3,625.72	3,555.55	70.17	51.672	
7,450.00	6,954.52	7,009.24	6,883.63	47.40	29.92	43.67	1,709.63	5,029.06	3,612.63	3,541.97	70.65	51.132	
7,500.00	7,001.74	7,056.57	6,930.96	47.72	30.05	30.29	1,709.59	5,028.90	3,599.18	3,528.10	71.07	50.641	
7,550.00	7,049.55	7,104.04	6,978.43	47.99	30.18	13.49	1,709.57	5,028.74	3,585.44	3,514.02	71.42	50.202	
7,600.00	7,097.58	7,151.25	7,025.64	48.21	30.32	-5.18	1,709.60	5,028.59	3,571.50	3,499.81	71.69	49.816	
7,650.00	7,145.48	7,201.97	7,076.36	48.37	30.46	-22.81	1,709.70	5,028.43	3,557.47	3,485.56	71.90	49.475	
7,700.00	7,192.88	7,255.78	7,130.16	48.48	30.62	-37.40	1,709.85	5,028.18	3,543.38	3,471.32	72.05	49.177	
7,750.00	7,239.41	7,307.06	7,181.44	48.54	30.77	-48.75	1,710.02	5,027.85	3,529.36	3,457.23	72.13	48.930	
7,800.00	7,284.72	7,356.53	7,230.91	48.56	30.91	-57.52	1,710.16	5,027.47	3,515.60	3,443.46	72.14	48.733	
7,850.00	7,328.47	7,402.10	7,276.49	48.54	31.05	-64.42	1,710.29	5,027.08	3,502.28	3,430.19	72.08	48.586	
7,900.00	7,370.32	7,445.42	7,319.80	48.47	31.18	-69.97	1,710.46	5,026.69	3,489.58	3,417.61	71.96	48.490	
7,950.00	7,409.96	7,486.36	7,360.74	48.37	31.30	-74.55	1,710.65	5,026.30	3,477.68	3,405.90	71.79	48.444	SF
8,000.00	7,447.08	7,524.61	7,398.99	48.24	31.41	-78.36	1,710.87	5,025.93	3,466.78	3,395.23	71.56	48.448	
8,050.00	7,481.41	7,559.89	7,434.26	48.07	31.51	-81.56	1,711.09	5,025.56	3,457.06	3,385.78	71.28	48.502	
8,100.00	7,512.67	7,582.67	7,457.04	47.87	31.58	-84.10	1,711.22	5,025.37	3,448.74	3,377.80	70.94	48.615	
8,150.00	7,540.64	7,605.35	7,479.72	47.65	31.65	-86.20	1,711.33	5,025.20	3,441.98	3,371.40	70.57	48.772	
8,200.00	7,565.09	7,625.23	7,499.60	47.40	31.71	-87.88	1,711.41	5,025.08	3,436.90	3,366.72	70.18	48.973	
8,250.00	7,585.85	7,642.13	7,516.50	47.14	31.76	-89.14	1,711.47	5,025.00	3,433.61	3,363.84	69.77	49.215	
8,300.00	7,602.75	7,656.65	7,531.02	46.86	31.80	-90.04	1,711.51	5,024.95	3,432.20	3,362.86	69.34	49.495	ES
8,311.59	7,606.10	7,659.53	7,533.89	46.80	31.81	-90.19	1,711.52	5,024.94	3,432.15	3,362.90	69.25	49.564	CC
8,350.00	7,615.67	7,667.71	7,542.08	46.58	31.83	-90.55	1,711.55	5,024.91	3,432.73	3,363.81	68.92	49.809	
8,400.00	7,624.51	7,675.23	7,549.60	46.28	31.86	-90.68	1,711.57	5,024.89	3,435.22	3,366.73	68.49	50.155	
8,450.00	7,629.19	7,679.16	7,553.53	45.98	31.87	-90.45	1,711.59	5,024.88	3,439.69	3,371.62	68.08	50.528	
8,481.00	7,630.00	7,679.77	7,554.14	45.79	31.87	-90.12	1,711.59	5,024.88	3,443.44	3,375.62	67.82	50.771	
8,500.00	7,630.00	7,679.71	7,554.08	45.68	31.87	-90.12	1,711.59	5,024.88	3,446.02	3,378.35	67.67	50.922	
8,600.00	7,630.00	7,679.43	7,553.80	45.11	31.87	-90.11	1,711.59	5,024.88	3,461.28	3,394.31	66.97	51.687	
8,700.00	7,630.00	7,679.15	7,553.52	44.56	31.87	-90.11	1,711.58	5,024.88	3,479.34	3,412.94	66.40	52.398	

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 139-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,800.00	7,630.00	7,678.86	7,553.23	44.05	31.87	-90.10	1,711.58	5,024.88	3,500.17	3,434.18	65.99	53.044	
8,900.00	7,630.00	7,678.58	7,552.95	43.57	31.87	-90.10	1,711.58	5,024.88	3,523.72	3,457.99	65.72	53.615	
9,000.00	7,630.00	7,678.30	7,552.67	43.12	31.87	-90.10	1,711.58	5,024.88	3,549.92	3,484.31	65.61	54.107	
9,100.00	7,630.00	7,678.02	7,552.38	42.70	31.86	-90.09	1,711.58	5,024.88	3,578.73	3,513.09	65.64	54.518	
9,200.00	7,630.00	7,677.73	7,552.10	42.31	31.86	-90.09	1,711.58	5,024.88	3,610.08	3,544.27	65.82	54.851	
9,300.00	7,630.00	7,677.45	7,551.82	41.94	31.86	-90.08	1,711.58	5,024.88	3,643.91	3,577.79	66.12	55.110	
9,400.00	7,630.00	7,677.17	7,551.54	41.59	31.86	-90.08	1,711.58	5,024.88	3,680.14	3,613.60	66.54	55.305	
9,500.00	7,630.00	7,676.89	7,551.26	41.26	31.86	-90.07	1,711.58	5,024.88	3,718.71	3,651.64	67.07	55.445	
9,600.00	7,630.00	7,676.61	7,550.98	40.96	31.86	-90.07	1,711.58	5,024.88	3,759.55	3,691.86	67.69	55.540	
9,700.00	7,630.00	7,676.33	7,550.69	40.68	31.86	-90.06	1,711.58	5,024.89	3,802.58	3,734.19	68.39	55.602	
9,800.00	7,630.00	7,676.04	7,550.41	40.42	31.86	-90.06	1,711.57	5,024.89	3,847.72	3,778.57	69.15	55.640	
9,900.00	7,630.00	7,675.76	7,550.13	40.17	31.86	-90.05	1,711.57	5,024.89	3,894.91	3,824.94	69.97	55.664	
10,000.00	7,630.00	7,675.48	7,549.85	39.96	31.86	-90.05	1,711.57	5,024.89	3,944.07	3,873.24	70.83	55.683	
10,100.00	7,630.00	7,675.20	7,549.57	40.05	31.86	-90.04	1,711.57	5,024.89	3,995.13	3,923.41	71.72	55.704	
10,200.00	7,630.00	7,674.92	7,549.29	40.95	31.86	-90.04	1,711.57	5,024.89	4,048.02	3,975.39	72.63	55.732	
10,300.00	7,630.00	7,674.64	7,549.01	41.94	31.85	-90.03	1,711.57	5,024.89	4,102.66	4,029.10	73.56	55.772	
10,400.00	7,630.00	7,674.36	7,548.73	42.98	31.85	-90.03	1,711.57	5,024.89	4,158.99	4,084.49	74.50	55.828	
10,500.00	7,630.00	7,674.08	7,548.45	44.06	31.85	-90.02	1,711.57	5,024.89	4,216.94	4,141.51	75.43	55.903	
10,600.00	7,630.00	7,673.80	7,548.17	45.17	31.85	-90.02	1,711.57	5,024.89	4,276.44	4,200.08	76.37	55.999	
10,700.00	7,630.00	7,673.52	7,547.89	46.32	31.85	-90.01	1,711.57	5,024.89	4,337.43	4,260.14	77.29	56.117	
10,800.00	7,630.00	7,673.24	7,547.61	47.50	31.85	-90.01	1,711.57	5,024.89	4,399.85	4,321.65	78.21	56.258	
10,900.00	7,630.00	7,672.96	7,547.33	48.70	31.85	-90.01	1,711.56	5,024.89	4,463.64	4,384.53	79.11	56.424	
11,000.00	7,630.00	7,672.69	7,547.05	49.94	31.85	-90.00	1,711.56	5,024.90	4,528.74	4,448.74	80.00	56.613	
11,100.00	7,630.00	7,672.41	7,546.78	51.20	31.85	-90.00	1,711.56	5,024.90	4,595.09	4,514.22	80.86	56.825	
11,200.00	7,630.00	7,672.13	7,546.50	52.48	31.85	-89.99	1,711.56	5,024.90	4,662.64	4,580.93	81.71	57.061	
11,300.00	7,630.00	7,671.85	7,546.22	53.79	31.85	-89.99	1,711.56	5,024.90	4,731.34	4,648.80	82.54	57.321	
11,400.00	7,630.00	7,671.57	7,545.94	55.12	31.85	-89.98	1,711.56	5,024.90	4,801.14	4,717.79	83.35	57.602	
11,500.00	7,630.00	7,671.29	7,545.66	56.46	31.84	-89.98	1,711.56	5,024.90	4,871.99	4,787.86	84.14	57.905	
11,600.00	7,630.00	7,671.02	7,545.39	57.83	31.84	-89.97	1,711.56	5,024.90	4,943.85	4,858.95	84.90	58.229	
11,700.00	7,630.00	7,670.74	7,545.11	59.22	31.84	-89.97	1,711.56	5,024.90	5,016.68	4,931.03	85.65	58.573	
11,800.00	7,630.00	7,670.46	7,544.83	60.62	31.84	-89.96	1,711.56	5,024.90	5,090.43	5,004.05	86.37	58.936	
11,900.00	7,630.00	7,670.18	7,544.55	62.04	31.84	-89.96	1,711.56	5,024.90	5,165.06	5,077.98	87.07	59.318	
12,000.00	7,630.00	7,669.91	7,544.28	63.48	31.84	-89.95	1,711.55	5,024.90	5,240.53	5,152.78	87.76	59.718	
12,100.00	7,630.00	7,669.63	7,544.00	64.93	31.84	-89.95	1,711.55	5,024.90	5,316.82	5,228.40	88.42	60.134	
12,200.00	7,630.00	7,669.35	7,543.72	66.39	31.84	-89.94	1,711.55	5,024.91	5,393.88	5,304.82	89.06	60.567	
12,300.00	7,630.00	7,669.08	7,543.45	67.86	31.84	-89.94	1,711.55	5,024.91	5,471.68	5,382.00	89.68	61.015	
12,400.00	7,630.00	7,668.80	7,543.17	69.35	31.84	-89.94	1,711.55	5,024.91	5,550.20	5,459.92	90.28	61.478	
12,500.00	7,630.00	7,668.53	7,542.89	70.85	31.84	-89.93	1,711.55	5,024.91	5,629.39	5,538.53	90.86	61.956	
12,600.00	7,630.00	7,668.25	7,542.62	72.36	31.84	-89.93	1,711.55	5,024.91	5,709.24	5,617.81	91.43	62.446	
12,700.00	7,630.00	7,667.97	7,542.34	73.88	31.83	-89.92	1,711.55	5,024.91	5,789.71	5,697.74	91.97	62.950	
12,800.00	7,630.00	7,667.70	7,542.07	75.41	31.83	-89.92	1,711.55	5,024.91	5,870.79	5,778.28	92.50	63.465	
12,900.00	7,630.00	7,667.42	7,541.79	76.95	31.83	-89.91	1,711.55	5,024.91	5,952.44	5,859.42	93.02	63.993	
13,000.00	7,630.00	7,667.15	7,541.52	78.49	31.83	-89.91	1,711.55	5,024.91	6,034.64	5,941.13	93.52	64.531	
13,100.00	7,630.00	7,666.87	7,541.24	80.05	31.83	-89.90	1,711.55	5,024.91	6,117.37	6,023.38	94.00	65.080	
13,200.00	7,630.00	7,666.60	7,540.97	81.61	31.83	-89.90	1,711.54	5,024.91	6,200.62	6,106.15	94.46	65.639	
13,300.00	7,630.00	7,666.32	7,540.69	83.18	31.83	-89.89	1,711.54	5,024.91	6,284.35	6,189.43	94.92	66.208	
13,400.00	7,630.00	7,666.05	7,540.42	84.76	31.83	-89.89	1,711.54	5,024.92	6,368.55	6,273.19	95.36	66.786	
13,500.00	7,630.00	7,665.78	7,540.14	86.34	31.83	-89.88	1,711.54	5,024.92	6,453.20	6,357.41	95.78	67.372	
13,600.00	7,630.00	7,665.50	7,539.87	87.94	31.83	-89.88	1,711.54	5,024.92	6,538.28	6,442.08	96.20	67.967	
13,700.00	7,630.00	7,665.23	7,539.60	89.53	31.83	-89.88	1,711.54	5,024.92	6,623.78	6,527.18	96.60	68.570	
13,800.00	7,630.00	7,664.95	7,539.32	91.13	31.83	-89.87	1,711.54	5,024.92	6,709.68	6,612.70	96.99	69.181	
13,900.00	7,630.00	7,664.68	7,539.05	92.74	31.83	-89.87	1,711.54	5,024.92	6,795.97	6,698.61	97.37	69.799	

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 139-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,630.00	7,664.41	7,538.78	94.35	31.82	-89.86	1,711.54	5,024.92	6,882.63	6,784.90	97.73	70.423	
14,100.00	7,630.00	7,664.13	7,538.50	95.97	31.82	-89.86	1,711.54	5,024.92	6,969.65	6,871.56	98.09	71.054	
14,200.00	7,630.00	7,663.86	7,538.23	97.60	31.82	-89.85	1,711.54	5,024.92	7,057.01	6,958.57	98.44	71.692	
14,300.00	7,630.00	7,663.59	7,537.96	99.22	31.82	-89.85	1,711.53	5,024.92	7,144.70	7,045.93	98.77	72.336	
14,400.00	7,630.00	7,663.32	7,537.68	100.85	31.82	-89.84	1,711.53	5,024.92	7,232.71	7,133.61	99.10	72.985	
14,500.00	7,630.00	7,663.04	7,537.41	102.49	31.82	-89.84	1,711.53	5,024.93	7,321.03	7,221.61	99.42	73.640	
14,600.00	7,630.00	7,662.77	7,537.14	104.13	31.82	-89.83	1,711.53	5,024.93	7,409.64	7,309.92	99.73	74.300	
14,700.00	7,630.00	7,662.50	7,536.87	105.77	31.82	-89.83	1,711.53	5,024.93	7,498.54	7,398.52	100.03	74.965	
14,800.00	7,630.00	7,662.23	7,536.60	107.42	31.82	-89.83	1,711.53	5,024.93	7,587.72	7,487.40	100.32	75.635	
14,900.00	7,630.00	7,661.96	7,536.32	109.07	31.82	-89.82	1,711.53	5,024.93	7,677.17	7,576.56	100.61	76.310	
15,000.00	7,630.00	7,661.68	7,536.05	110.72	31.82	-89.82	1,711.53	5,024.93	7,766.87	7,665.99	100.88	76.988	
15,100.00	7,630.00	7,661.41	7,535.78	112.38	31.82	-89.81	1,711.53	5,024.93	7,856.82	7,755.67	101.15	77.672	
15,200.00	7,630.00	7,661.14	7,535.51	114.04	31.81	-89.81	1,711.53	5,024.93	7,947.01	7,845.59	101.42	78.359	
15,300.00	7,630.00	7,660.87	7,535.24	115.71	31.81	-89.80	1,711.53	5,024.93	8,037.44	7,935.76	101.68	79.050	
15,400.00	7,630.00	7,660.60	7,534.97	117.37	31.81	-89.80	1,711.52	5,024.93	8,128.08	8,026.16	101.93	79.745	
15,500.00	7,630.00	7,660.33	7,534.70	119.04	31.81	-89.79	1,711.52	5,024.93	8,218.95	8,116.78	102.17	80.443	
15,600.00	7,630.00	7,660.06	7,534.43	120.71	31.81	-89.79	1,711.52	5,024.93	8,310.02	8,207.61	102.41	81.145	
15,700.00	7,630.00	7,659.79	7,534.16	122.39	31.81	-89.78	1,711.52	5,024.94	8,401.30	8,298.66	102.64	81.850	
15,800.00	7,630.00	7,659.52	7,533.89	124.06	31.81	-89.78	1,711.52	5,024.94	8,492.77	8,389.90	102.87	82.558	
15,900.00	7,630.00	7,659.25	7,533.62	125.74	31.81	-89.78	1,711.52	5,024.94	8,584.44	8,481.34	103.09	83.269	
16,000.00	7,630.00	7,658.98	7,533.35	127.42	31.81	-89.77	1,711.52	5,024.94	8,676.28	8,572.97	103.31	83.982	
16,100.00	7,630.00	7,658.71	7,533.08	129.10	31.81	-89.77	1,711.52	5,024.94	8,768.31	8,664.79	103.52	84.699	
16,200.00	7,630.00	7,658.44	7,532.81	130.79	31.81	-89.76	1,711.52	5,024.94	8,860.51	8,756.78	103.73	85.418	
16,300.00	7,630.00	7,658.17	7,532.54	132.48	31.81	-89.76	1,711.52	5,024.94	8,952.88	8,848.94	103.93	86.140	
16,400.00	7,630.00	7,657.90	7,532.27	134.17	31.81	-89.75	1,711.52	5,024.94	9,045.41	8,941.27	104.13	86.864	
16,500.00	7,630.00	7,657.63	7,532.00	135.86	31.80	-89.75	1,711.52	5,024.94	9,138.09	9,033.77	104.33	87.590	
16,600.00	7,630.00	7,657.37	7,531.73	137.55	31.80	-89.74	1,711.51	5,024.94	9,230.93	9,126.41	104.52	88.319	
16,700.00	7,630.00	7,657.10	7,531.47	139.24	31.80	-89.74	1,711.51	5,024.95	9,323.92	9,219.21	104.71	89.049	
16,800.00	7,630.00	7,656.83	7,531.20	140.94	31.80	-89.73	1,711.51	5,024.95	9,417.05	9,312.16	104.89	89.782	
16,900.00	7,630.00	7,656.56	7,530.93	142.64	31.80	-89.73	1,711.51	5,024.95	9,510.32	9,405.25	105.07	90.517	
17,000.00	7,630.00	7,656.29	7,530.66	144.34	31.80	-89.73	1,711.51	5,024.95	9,603.73	9,498.48	105.24	91.253	
17,100.00	7,630.00	7,656.02	7,530.39	146.04	31.80	-89.72	1,711.51	5,024.95	9,697.26	9,591.85	105.42	91.991	
17,200.00	7,630.00	7,655.76	7,530.13	147.74	31.80	-89.72	1,711.51	5,024.95	9,790.93	9,685.34	105.58	92.731	
17,300.00	7,630.00	7,655.49	7,529.86	149.44	31.80	-89.71	1,711.51	5,024.95	9,884.72	9,778.97	105.75	93.472	
17,400.00	7,630.00	7,655.22	7,529.59	151.15	31.80	-89.71	1,711.51	5,024.95	9,978.63	9,872.71	105.91	94.215	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	81.97	775.81	5,497.96	5,553.05				
100.00	100.00	0.00	0.00	0.13	0.00	81.97	775.81	5,497.96	5,552.45	5,552.32	0.13	N/A	
200.00	200.00	65.62	65.61	0.49	0.11	81.97	776.13	5,498.22	5,552.97	5,552.37	0.60	9,243.936	
300.00	300.00	138.00	137.98	0.85	0.23	81.96	777.20	5,499.12	5,554.33	5,553.26	1.08	5,157.909	
400.00	400.00	138.00	137.98	1.21	0.23	81.96	777.20	5,499.12	5,556.65	5,555.22	1.44	3,863.983	
500.00	500.00	198.19	198.13	1.57	0.45	81.94	778.91	5,500.67	5,559.85	5,557.84	2.01	2,761.481	
600.00	600.00	229.00	228.89	1.93	0.56	81.93	780.17	5,501.87	5,564.37	5,561.89	2.48	2,240.365	
700.00	700.00	264.13	263.94	2.29	0.69	81.92	781.80	5,503.64	5,570.09	5,567.12	2.97	1,875.081	
800.00	800.00	320.00	319.61	2.64	0.90	81.89	784.56	5,507.44	5,577.22	5,573.69	3.53	1,579.471	
900.00	900.00	320.00	319.61	3.00	0.90	81.89	784.56	5,507.44	5,585.24	5,581.35	3.89	1,436.648	
1,000.00	1,000.00	367.46	366.83	3.36	1.08	81.87	787.15	5,511.47	5,594.52	5,590.10	4.42	1,266.304	
1,100.00	1,100.00	411.00	410.08	3.72	1.26	81.85	789.78	5,515.68	5,604.89	5,599.96	4.93	1,136.690	
1,200.00	1,200.00	444.91	443.72	4.08	1.39	81.83	792.08	5,519.29	5,616.33	5,610.92	5.41	1,038.014	
1,300.00	1,300.00	503.00	501.22	4.44	1.63	81.80	796.76	5,526.12	5,628.96	5,622.98	5.98	941.293	
1,400.00	1,400.00	503.00	501.22	4.79	1.63	81.80	796.76	5,526.12	5,642.54	5,636.22	6.33	891.840	
1,500.00	1,499.98	559.57	557.02	5.15	1.88	43.76	802.35	5,533.52	5,655.90	5,649.00	6.89	820.711	
1,600.00	1,599.84	594.00	590.87	5.51	2.03	43.57	806.33	5,538.38	5,667.89	5,660.53	7.36	769.709	
1,700.00	1,699.45	648.22	644.02	5.87	2.29	43.40	813.46	5,546.41	5,678.33	5,670.40	7.93	716.445	
1,800.00	1,798.70	685.00	679.95	6.23	2.46	43.26	818.92	5,552.06	5,687.15	5,678.73	8.42	675.754	
1,900.00	1,897.47	739.52	733.03	6.60	2.73	43.15	827.73	5,560.82	5,694.35	5,685.35	9.00	632.941	
2,000.00	1,995.62	788.13	780.19	6.99	2.98	43.06	836.16	5,569.09	5,700.01	5,690.45	9.56	596.252	
2,100.00	2,093.06	867.38	856.79	7.39	3.40	43.01	851.12	5,582.80	5,703.72	5,693.44	10.28	554.855	
2,200.00	2,189.64	979.54	964.80	7.82	4.01	42.99	874.63	5,601.80	5,704.88	5,693.69	11.19	509.958	
2,300.00	2,285.27	1,050.60	1,032.99	8.28	4.41	43.01	890.62	5,613.78	5,703.70	5,691.78	11.92	478.301	
2,400.00	2,379.82	2,400.00	1,190.13	8.77	12.19	43.09	929.22	5,640.86	5,699.90	5,680.89	19.01	299.775	
2,500.00	2,473.17	1,353.45	1,323.61	9.31	6.14	43.26	960.79	5,662.04	5,691.93	5,677.63	14.30	398.085	
2,600.00	2,565.21	1,430.00	1,397.15	9.88	6.57	43.45	978.45	5,673.81	5,681.76	5,666.61	15.15	375.156	
2,660.67	2,620.37	1,472.64	1,438.04	10.25	6.82	43.59	988.55	5,680.46	5,674.57	5,658.92	15.66	362.419	
2,700.00	2,655.96	1,498.92	1,463.20	10.50	6.97	43.61	994.89	5,684.62	5,669.73	5,653.74	15.99	354.645	
2,800.00	2,746.43	1,560.85	1,522.39	11.15	7.34	43.66	1,010.13	5,694.62	5,657.84	5,641.03	16.81	336.481	
2,900.00	2,836.90	1,621.25	1,580.01	11.82	7.70	43.71	1,025.13	5,704.78	5,646.65	5,629.00	17.65	319.879	
3,000.00	2,927.37	1,737.89	1,691.41	12.50	8.40	43.81	1,053.27	5,724.84	5,635.76	5,616.96	18.80	299.797	
3,100.00	3,017.85	3,100.00	1,895.04	13.21	15.83	44.08	1,096.61	5,759.86	5,623.63	5,597.91	25.72	218.662	
3,200.00	3,108.32	2,079.27	2,021.73	13.92	10.28	44.29	1,118.73	5,780.33	5,610.05	5,588.49	21.56	260.225	
3,300.00	3,198.79	2,146.01	2,086.85	14.64	10.62	44.42	1,128.57	5,791.15	5,596.72	5,574.29	22.43	249.541	
3,400.00	3,289.27	2,179.00	2,119.02	15.38	10.79	44.48	1,133.35	5,796.66	5,584.15	5,560.99	23.16	241.150	
3,500.00	3,379.74	2,230.73	2,169.37	16.12	11.06	44.58	1,141.00	5,805.78	5,572.52	5,548.54	23.98	232.394	
3,600.00	3,470.21	2,272.00	2,209.37	16.87	11.28	44.65	1,147.39	5,813.62	5,562.13	5,537.37	24.76	224.643	
3,700.00	3,560.68	2,309.04	2,245.18	17.62	11.49	44.72	1,153.29	5,821.03	5,552.84	5,527.31	25.53	217.492	
3,800.00	3,651.16	2,366.00	2,300.11	18.39	11.81	44.82	1,162.56	5,832.95	5,544.56	5,518.16	26.40	210.004	
3,900.00	3,741.63	2,437.88	2,369.27	19.15	12.22	44.95	1,174.66	5,848.35	5,536.97	5,509.61	27.36	202.404	
4,000.00	3,832.10	2,512.68	2,441.15	19.92	12.65	45.07	1,187.57	5,864.47	5,529.67	5,501.33	28.33	195.181	
4,100.00	3,922.57	4,100.00	2,609.94	20.69	21.74	45.38	1,217.58	5,902.26	5,522.65	5,486.38	36.28	152.231	
4,200.00	4,013.05	2,825.46	2,742.36	21.47	14.45	45.61	1,241.01	5,929.62	5,513.72	5,482.62	31.10	177.295	
4,300.00	4,103.52	2,944.42	2,857.04	22.25	15.13	45.80	1,262.35	5,952.88	5,504.67	5,472.35	32.31	170.355	
4,400.00	4,193.99	2,999.19	2,909.71	23.03	15.45	45.88	1,273.00	5,963.56	5,495.76	5,462.53	33.22	165.410	
4,500.00	4,284.47	3,136.16	3,041.11	23.81	16.26	46.07	1,300.97	5,990.17	5,486.95	5,452.39	34.56	158.765	
4,600.00	4,374.94	3,207.00	3,109.16	24.60	16.68	46.17	1,315.03	6,004.00	5,478.16	5,442.59	35.56	154.034	
4,700.00	4,465.41	3,312.08	3,210.21	25.39	17.29	46.34	1,334.96	6,024.82	5,469.63	5,432.89	36.74	148.875	
4,800.00	4,555.88	3,370.28	3,266.15	26.18	17.63	46.43	1,345.95	6,036.51	5,461.36	5,423.68	37.68	144.925	
4,900.00	4,646.36	3,460.94	3,353.12	26.97	18.17	46.56	1,363.56	6,055.08	5,453.62	5,414.83	38.80	140.563	
5,000.00	4,736.83	3,567.51	3,455.28	27.76	18.81	46.72	1,384.86	6,076.73	5,445.82	5,405.81	40.00	136.137	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	3,661.70	3,545.51	28.55	19.37	46.85	1,403.99	6,095.79	5,438.00	5,396.86	41.15	132.155	
5,200.00	4,917.77	3,818.67	3,696.45	29.35	20.29	47.09	1,434.42	6,126.27	5,429.04	5,386.43	42.61	127.415	
5,300.00	5,008.25	3,877.55	3,753.05	30.15	20.63	47.18	1,445.69	6,137.92	5,420.70	5,377.12	43.58	124.391	
5,400.00	5,098.72	3,964.43	3,836.45	30.94	21.15	47.31	1,462.61	6,155.44	5,412.83	5,368.14	44.69	121.112	
5,500.00	5,189.19	4,085.82	3,953.12	31.74	21.86	47.51	1,485.33	6,180.10	5,405.12	5,359.14	45.98	117.550	
5,600.00	5,279.67	4,194.57	4,057.96	32.54	22.48	47.69	1,504.97	6,201.31	5,396.49	5,349.28	47.21	114.319	
5,700.00	5,370.14	4,364.39	4,221.41	33.34	23.47	47.96	1,537.18	6,234.14	5,388.06	5,339.32	48.74	110.546	
5,800.00	5,460.61	4,442.97	4,297.04	34.14	23.92	48.07	1,552.80	6,248.75	5,378.79	5,328.96	49.83	107.943	
5,900.00	5,551.08	4,553.55	4,403.48	34.94	24.56	48.24	1,574.68	6,269.22	5,369.48	5,318.40	51.08	105.111	
6,000.00	5,641.56	6,000.00	4,612.23	35.75	32.68	48.55	1,619.42	6,307.27	5,359.59	5,300.72	58.87	91.036	
6,100.00	5,732.03	4,958.42	4,794.42	36.55	26.83	48.84	1,656.02	6,335.70	5,346.59	5,292.13	54.46	98.173	
6,200.00	5,822.50	5,280.39	5,109.14	37.35	28.41	49.43	1,710.01	6,375.86	5,330.41	5,273.86	56.55	94.268	
6,300.00	5,912.97	6,110.74	5,936.24	38.16	30.95	52.11	1,746.47	6,410.43	5,302.67	5,243.39	59.29	89.439	
6,400.00	6,003.45	6,201.86	6,027.35	38.96	31.16	52.45	1,746.88	6,408.57	5,272.94	5,212.63	60.31	87.425	
6,500.00	6,093.92	6,285.85	6,111.31	39.77	31.34	52.77	1,747.16	6,406.90	5,243.44	5,182.10	61.34	85.485	
6,600.00	6,184.39	6,389.13	6,214.57	40.57	31.57	53.17	1,746.96	6,404.82	5,214.10	5,151.71	62.39	83.574	
6,700.00	6,274.87	6,465.85	6,291.28	41.38	31.74	53.48	1,746.32	6,403.26	5,184.93	5,121.52	63.41	81.764	
6,800.00	6,365.34	6,531.18	6,356.59	42.18	31.89	53.75	1,745.79	6,402.16	5,156.29	5,091.86	64.43	80.025	
6,900.00	6,455.81	6,601.03	6,426.44	42.99	32.05	54.02	1,745.78	6,401.34	5,128.33	5,062.86	65.46	78.337	
7,000.00	6,546.28	6,690.96	6,516.37	43.80	32.26	54.38	1,746.13	6,400.36	5,100.67	5,034.14	66.53	76.663	
7,100.00	6,636.76	6,764.26	6,589.66	44.61	32.44	54.68	1,746.50	6,399.72	5,073.41	5,005.83	67.59	75.065	
7,200.00	6,727.23	6,839.91	6,665.31	45.41	32.63	54.98	1,746.77	6,399.29	5,046.66	4,978.01	68.65	73.514	
7,300.00	6,817.70	6,917.32	6,742.72	46.22	32.82	55.30	1,746.76	6,399.07	5,020.38	4,950.66	69.72	72.010	
7,383.79	6,893.51	6,984.89	6,810.28	46.90	32.98	55.59	1,746.54	6,399.03	4,998.70	4,928.08	70.62	70.782	
7,400.00	6,908.25	6,998.57	6,823.97	47.03	33.01	52.86	1,746.47	6,399.03	4,994.52	4,923.72	70.79	70.550	
7,450.00	6,954.52	7,041.52	6,866.92	47.40	33.12	42.68	1,746.22	6,399.05	4,981.39	4,910.11	71.28	69.885	
7,500.00	7,001.74	7,086.23	6,911.63	47.72	33.22	29.26	1,745.87	6,399.10	4,968.00	4,896.31	71.69	69.294	
7,550.00	7,049.55	7,131.66	6,957.06	47.99	33.33	12.45	1,745.40	6,399.16	4,954.42	4,882.38	72.03	68.780	
7,600.00	7,097.58	7,175.84	7,001.23	48.21	33.44	-6.19	1,744.86	6,399.26	4,940.73	4,868.44	72.29	68.346	
7,650.00	7,145.48	7,219.58	7,044.96	48.37	33.54	-23.76	1,744.30	6,399.38	4,927.06	4,854.59	72.47	67.988	
7,700.00	7,192.88	7,271.01	7,096.39	48.48	33.67	-38.24	1,743.63	6,399.54	4,913.49	4,840.90	72.59	67.690	
7,750.00	7,239.41	7,325.45	7,150.82	48.54	33.80	-49.46	1,743.01	6,399.64	4,900.05	4,827.41	72.64	67.457	
7,800.00	7,284.72	7,371.91	7,197.29	48.56	33.91	-58.06	1,742.48	6,399.68	4,886.92	4,814.31	72.61	67.302	
7,850.00	7,328.47	7,416.57	7,241.94	48.54	34.02	-64.77	1,741.91	6,399.71	4,874.27	4,801.75	72.52	67.214	
7,900.00	7,370.32	7,454.90	7,280.27	48.47	34.11	-70.11	1,741.34	6,399.75	4,862.25	4,789.90	72.36	67.200 SF	
7,950.00	7,409.96	7,490.89	7,316.25	48.37	34.20	-74.45	1,740.74	6,399.82	4,851.05	4,778.91	72.13	67.252	
8,000.00	7,447.08	7,524.23	7,349.58	48.24	34.28	-78.03	1,740.12	6,399.90	4,840.80	4,768.94	71.86	67.368	
8,050.00	7,481.41	7,553.90	7,379.26	48.07	34.35	-80.99	1,739.57	6,400.02	4,831.65	4,760.12	71.53	67.548	
8,100.00	7,512.67	7,581.03	7,406.38	47.87	34.42	-83.44	1,739.06	6,400.15	4,823.73	4,752.57	71.16	67.788	
8,150.00	7,540.64	7,605.40	7,430.74	47.65	34.48	-85.45	1,738.62	6,400.28	4,817.16	4,746.41	70.75	68.083	
8,200.00	7,565.09	7,628.05	7,453.38	47.40	34.54	-87.07	1,738.21	6,400.43	4,812.05	4,741.73	70.32	68.428	
8,250.00	7,585.85	7,647.54	7,472.87	47.14	34.58	-88.32	1,737.86	6,400.57	4,808.48	4,738.62	69.87	68.822	
8,300.00	7,602.75	7,663.57	7,488.90	46.86	34.62	-89.21	1,737.58	6,400.68	4,806.54	4,737.14	69.40	69.258	
8,332.96	7,611.72	7,672.18	7,497.51	46.67	34.65	-89.62	1,737.43	6,400.75	4,806.17	4,737.08	69.09	69.567 CC, ES	
8,350.00	7,615.67	7,676.01	7,501.33	46.58	34.66	-89.77	1,737.36	6,400.78	4,806.27	4,737.35	68.92	69.733	
8,400.00	7,624.51	7,684.76	7,510.09	46.28	34.68	-89.98	1,737.21	6,400.85	4,807.71	4,739.26	68.45	70.241	
8,450.00	7,629.19	7,689.78	7,515.10	45.98	34.69	-89.87	1,737.12	6,400.89	4,810.87	4,742.90	67.97	70.777	
8,481.00	7,630.00	7,690.99	7,516.32	45.79	34.69	-89.63	1,737.10	6,400.90	4,813.69	4,746.00	67.68	71.121	
8,500.00	7,630.00	7,691.29	7,516.61	45.68	34.69	-89.64	1,737.09	6,400.90	4,815.65	4,748.14	67.51	71.333	
8,600.00	7,630.00	7,692.85	7,518.17	45.11	34.70	-89.66	1,737.06	6,400.91	4,827.20	4,760.53	66.67	72.405	
8,700.00	7,630.00	7,694.41	7,519.73	44.56	34.70	-89.67	1,737.04	6,400.93	4,840.79	4,774.84	65.95	73.396	
8,800.00	7,630.00	7,695.96	7,521.29	44.05	34.70	-89.69	1,737.01	6,400.94	4,856.41	4,791.04	65.37	74.292	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	7,697.52	7,522.84	43.57	34.71	-89.71	1,736.98	6,400.95	4,874.02	4,809.10	64.92	75.078	
9,000.00	7,630.00	7,699.07	7,524.39	43.12	34.71	-89.73	1,736.96	6,400.96	4,893.62	4,829.01	64.61	75.746	
9,100.00	7,630.00	7,700.62	7,525.94	42.70	34.72	-89.75	1,736.93	6,400.98	4,915.17	4,850.74	64.43	76.290	
9,200.00	7,630.00	7,702.17	7,527.49	42.31	34.72	-89.77	1,736.90	6,400.99	4,938.65	4,874.26	64.38	76.709	
9,300.00	7,630.00	7,703.71	7,529.03	41.94	34.72	-89.79	1,736.88	6,401.00	4,964.03	4,899.56	64.47	77.003	
9,400.00	7,630.00	7,705.25	7,530.57	41.59	34.73	-89.80	1,736.85	6,401.02	4,991.29	4,926.62	64.67	77.179	
9,500.00	7,630.00	7,702.00	7,527.32	41.26	34.72	-89.76	1,736.91	6,400.99	5,020.39	4,955.40	64.99	77.246	
9,600.00	7,630.00	7,702.00	7,527.32	40.96	34.72	-89.76	1,736.91	6,400.99	5,051.31	4,985.89	65.42	77.214	
9,700.00	7,630.00	7,702.00	7,527.32	40.68	34.72	-89.76	1,736.91	6,400.99	5,084.00	5,018.06	65.94	77.097	
9,800.00	7,630.00	7,702.00	7,527.32	40.42	34.72	-89.76	1,736.91	6,400.99	5,118.44	5,051.89	66.55	76.906	
9,900.00	7,630.00	7,710.40	7,535.72	40.17	34.74	-89.87	1,736.76	6,401.06	5,154.58	5,087.34	67.24	76.657	
10,000.00	7,630.00	7,711.56	7,536.89	39.96	34.74	-89.88	1,736.74	6,401.07	5,192.41	5,124.41	68.00	76.361	
10,100.00	7,630.00	7,712.73	7,538.05	40.05	34.75	-89.89	1,736.72	6,401.08	5,231.86	5,163.05	68.81	76.031	
10,200.00	7,630.00	7,713.89	7,539.21	40.95	34.75	-89.91	1,736.70	6,401.10	5,272.93	5,203.25	69.68	75.677	
10,300.00	7,630.00	7,715.05	7,540.37	41.94	34.75	-89.92	1,736.68	6,401.11	5,315.55	5,244.97	70.58	75.309	
10,400.00	7,630.00	7,716.20	7,541.53	42.98	34.76	-89.93	1,736.66	6,401.12	5,359.70	5,288.18	71.53	74.934	
10,500.00	7,630.00	7,717.36	7,542.68	44.06	34.76	-89.95	1,736.64	6,401.13	5,405.34	5,332.85	72.49	74.562	
10,600.00	7,630.00	7,718.50	7,543.83	45.17	34.76	-89.96	1,736.62	6,401.14	5,452.43	5,378.95	73.49	74.196	
10,700.00	7,630.00	7,719.65	7,544.97	46.32	34.77	-89.98	1,736.60	6,401.15	5,500.94	5,426.45	74.50	73.842	
10,800.00	7,630.00	7,720.79	7,546.11	47.50	34.77	-89.99	1,736.58	6,401.16	5,550.83	5,475.31	75.52	73.504	
10,900.00	7,630.00	7,721.93	7,547.25	48.70	34.77	-90.00	1,736.57	6,401.17	5,602.05	5,525.50	76.55	73.186	
11,000.00	7,630.00	7,723.07	7,548.39	49.94	34.77	-90.02	1,736.55	6,401.19	5,654.58	5,577.00	77.58	72.888	
11,100.00	7,630.00	7,724.20	7,549.52	51.20	34.78	-90.03	1,736.53	6,401.20	5,708.38	5,629.76	78.61	72.614	
11,200.00	7,630.00	7,725.33	7,550.65	52.48	34.78	-90.04	1,736.51	6,401.21	5,763.41	5,683.76	79.64	72.364	
11,300.00	7,630.00	7,726.46	7,551.78	53.79	34.78	-90.06	1,736.49	6,401.22	5,819.64	5,738.96	80.67	72.140	
11,400.00	7,630.00	7,727.58	7,552.90	55.12	34.79	-90.07	1,736.47	6,401.23	5,877.03	5,795.33	81.69	71.941	
11,500.00	7,630.00	7,728.71	7,554.02	56.46	34.79	-90.08	1,736.45	6,401.24	5,935.55	5,852.84	82.70	71.768	
11,600.00	7,630.00	7,729.82	7,555.14	57.83	34.79	-90.10	1,736.43	6,401.26	5,995.17	5,911.46	83.71	71.622	
11,700.00	7,630.00	7,730.94	7,556.26	59.22	34.79	-90.11	1,736.41	6,401.27	6,055.85	5,971.15	84.70	71.500	
11,800.00	7,630.00	7,732.05	7,557.37	60.62	34.80	-90.12	1,736.40	6,401.28	6,117.56	6,031.89	85.67	71.405	
11,900.00	7,630.00	7,733.16	7,558.48	62.04	34.80	-90.14	1,736.38	6,401.29	6,180.28	6,093.64	86.64	71.334	
12,000.00	7,630.00	7,734.27	7,559.58	63.48	34.80	-90.15	1,736.36	6,401.31	6,243.96	6,156.38	87.59	71.287	
12,100.00	7,630.00	7,735.37	7,560.69	64.93	34.81	-90.16	1,736.34	6,401.32	6,308.59	6,220.07	88.52	71.264	
12,200.00	7,630.00	7,736.47	7,561.79	66.39	34.81	-90.18	1,736.32	6,401.33	6,374.14	6,284.69	89.44	71.264	
12,300.00	7,630.00	7,737.57	7,562.88	67.86	34.81	-90.19	1,736.30	6,401.34	6,440.56	6,350.22	90.35	71.287	
12,400.00	7,630.00	7,738.66	7,563.98	69.35	34.81	-90.20	1,736.29	6,401.36	6,507.85	6,416.62	91.23	71.331	
12,500.00	7,630.00	7,739.75	7,565.07	70.85	34.82	-90.22	1,736.27	6,401.37	6,575.97	6,483.86	92.11	71.396	
12,600.00	7,630.00	7,740.84	7,566.16	72.36	34.82	-90.23	1,736.25	6,401.38	6,644.89	6,551.93	92.96	71.481	
12,700.00	7,630.00	7,741.93	7,567.24	73.88	34.82	-90.24	1,736.23	6,401.39	6,714.60	6,620.80	93.80	71.585	
12,800.00	7,630.00	7,743.01	7,568.32	75.41	34.82	-90.26	1,736.21	6,401.41	6,785.06	6,690.44	94.62	71.709	
12,900.00	7,630.00	7,744.09	7,569.40	76.95	34.83	-90.27	1,736.20	6,401.42	6,856.26	6,760.84	95.42	71.850	
13,000.00	7,630.00	7,745.16	7,570.48	78.49	34.83	-90.28	1,736.18	6,401.43	6,928.17	6,831.96	96.21	72.009	
13,100.00	7,630.00	7,746.24	7,571.55	80.05	34.83	-90.29	1,736.16	6,401.45	7,000.77	6,903.78	96.99	72.184	
13,200.00	7,630.00	7,747.31	7,572.63	81.61	34.84	-90.31	1,736.14	6,401.46	7,074.04	6,976.30	97.74	72.375	
13,300.00	7,630.00	7,748.38	7,573.69	83.18	34.84	-90.32	1,736.13	6,401.47	7,147.95	7,049.47	98.48	72.582	
13,400.00	7,630.00	7,749.44	7,574.76	84.76	34.84	-90.33	1,736.11	6,401.49	7,222.49	7,123.29	99.20	72.804	
13,500.00	7,630.00	7,750.51	7,575.82	86.34	34.84	-90.34	1,736.09	6,401.50	7,297.65	7,197.73	99.91	73.040	
13,600.00	7,630.00	7,751.57	7,576.88	87.94	34.85	-90.36	1,736.07	6,401.51	7,373.39	7,272.78	100.61	73.289	
13,700.00	7,630.00	7,752.62	7,577.94	89.53	34.85	-90.37	1,736.06	6,401.53	7,449.70	7,348.42	101.29	73.552	
13,800.00	7,630.00	7,753.68	7,578.99	91.13	34.85	-90.38	1,736.04	6,401.54	7,526.57	7,424.62	101.95	73.827	
13,900.00	7,630.00	7,754.73	7,580.04	92.74	34.85	-90.40	1,736.02	6,401.55	7,603.98	7,501.38	102.60	74.114	
14,000.00	7,630.00	7,755.78	7,581.09	94.35	34.86	-90.41	1,736.01	6,401.57	7,681.90	7,578.67	103.23	74.414	

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 138-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	7,756.83	7,582.14	95.97	34.86	-90.42	1,735.99	6,401.58	7,760.34	7,656.48	103.85	74.724	
14,200.00	7,630.00	7,757.87	7,583.18	97.60	34.86	-90.43	1,735.97	6,401.59	7,839.26	7,734.80	104.46	75.045	
14,300.00	7,630.00	7,758.91	7,584.22	99.22	34.87	-90.45	1,735.95	6,401.61	7,918.66	7,813.61	105.06	75.376	
14,400.00	7,630.00	7,759.95	7,585.26	100.85	34.87	-90.46	1,735.94	6,401.62	7,998.52	7,892.89	105.64	75.717	
14,500.00	7,630.00	7,760.98	7,586.29	102.49	34.87	-90.47	1,735.92	6,401.64	8,078.83	7,972.63	106.21	76.068	
14,600.00	7,630.00	7,762.02	7,587.33	104.13	34.87	-90.48	1,735.90	6,401.65	8,159.58	8,052.82	106.76	76.428	
14,700.00	7,630.00	7,763.04	7,588.36	105.77	34.88	-90.49	1,735.89	6,401.66	8,240.75	8,133.44	107.31	76.797	
14,800.00	7,630.00	7,764.07	7,589.38	107.42	34.88	-90.51	1,735.87	6,401.68	8,322.32	8,214.49	107.84	77.174	
14,900.00	7,630.00	7,765.10	7,590.41	109.07	34.88	-90.52	1,735.86	6,401.69	8,404.30	8,295.94	108.36	77.560	
15,000.00	7,630.00	7,766.12	7,591.43	110.72	34.88	-90.53	1,735.84	6,401.71	8,486.66	8,377.79	108.87	77.953	
15,100.00	7,630.00	7,767.14	7,592.45	112.38	34.89	-90.54	1,735.82	6,401.72	8,569.40	8,460.03	109.37	78.354	
15,200.00	7,630.00	7,768.15	7,593.47	114.04	34.89	-90.56	1,735.81	6,401.74	8,652.50	8,542.64	109.86	78.763	
15,300.00	7,630.00	7,769.17	7,594.48	115.71	34.89	-90.57	1,735.79	6,401.75	8,735.95	8,625.62	110.33	79.178	
15,400.00	7,630.00	7,770.18	7,595.49	117.37	34.89	-90.58	1,735.77	6,401.76	8,819.75	8,708.95	110.80	79.600	
15,500.00	7,630.00	7,771.19	7,596.50	119.04	34.90	-90.59	1,735.76	6,401.78	8,903.88	8,792.63	111.26	80.028	
15,600.00	7,630.00	7,772.20	7,597.50	120.71	34.90	-90.60	1,735.74	6,401.79	8,988.34	8,876.64	111.71	80.463	
15,700.00	7,630.00	7,773.20	7,598.51	122.39	34.90	-90.62	1,735.73	6,401.81	9,073.12	8,960.97	112.15	80.904	
15,800.00	7,630.00	7,774.20	7,599.51	124.06	34.90	-90.63	1,735.71	6,401.82	9,158.20	9,045.62	112.58	81.351	
15,900.00	7,630.00	7,775.20	7,600.51	125.74	34.91	-90.64	1,735.69	6,401.84	9,243.58	9,130.58	113.00	81.803	
16,000.00	7,630.00	7,776.19	7,601.50	127.42	34.91	-90.65	1,735.68	6,401.85	9,329.25	9,215.84	113.41	82.261	
16,100.00	7,630.00	7,777.19	7,602.50	129.10	34.91	-90.66	1,735.66	6,401.87	9,415.20	9,301.38	113.81	82.724	
16,200.00	7,630.00	7,778.18	7,603.49	130.79	34.91	-90.68	1,735.65	6,401.88	9,501.43	9,387.22	114.21	83.192	
16,300.00	7,630.00	7,779.17	7,604.48	132.48	34.92	-90.69	1,735.63	6,401.90	9,587.92	9,473.32	114.60	83.665	
16,400.00	7,630.00	7,780.15	7,605.46	134.17	34.92	-90.70	1,735.62	6,401.91	9,674.67	9,559.70	114.98	84.143	
16,500.00	7,630.00	7,781.14	7,606.44	135.86	34.92	-90.71	1,735.60	6,401.93	9,761.68	9,646.33	115.35	84.625	
16,600.00	7,630.00	7,782.12	7,607.42	137.55	34.92	-90.72	1,735.59	6,401.94	9,848.94	9,733.22	115.72	85.111	
16,700.00	7,630.00	7,783.10	7,608.40	139.24	34.93	-90.73	1,735.57	6,401.96	9,936.43	9,820.35	116.08	85.602	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	82.06	764.88	5,481.16	5,534.88				
100.00	100.00	36.90	36.90	0.13	0.05	82.06	764.92	5,481.09	5,534.24	5,534.06	0.18	N/A	
200.00	200.00	138.00	138.00	0.49	0.39	82.05	765.07	5,480.52	5,533.70	5,532.82	0.88	6,289.826	
269.00	269.00	187.00	187.00	0.74	0.56	82.06	764.82	5,480.39	5,533.50	5,532.20	1.30	4,265.752	
300.00	300.00	204.54	204.54	0.85	0.62	82.06	764.59	5,480.44	5,533.54	5,532.07	1.47	3,766.393	
400.00	400.00	229.00	228.99	1.21	0.70	82.06	764.15	5,480.61	5,534.34	5,532.42	1.91	2,891.872	
500.00	500.00	273.85	273.82	1.57	0.86	82.08	763.03	5,481.48	5,536.21	5,533.78	2.43	2,278.999	
600.00	600.00	320.00	319.90	1.93	1.02	82.09	761.49	5,483.39	5,539.56	5,536.61	2.95	1,879.881	
700.00	700.00	320.00	319.90	2.29	1.02	82.09	761.49	5,483.39	5,544.04	5,540.73	3.31	1,676.921	
800.00	800.00	367.19	366.96	2.64	1.20	82.12	759.43	5,486.30	5,549.72	5,545.89	3.83	1,447.976	
900.00	900.00	411.00	410.56	3.00	1.36	82.15	757.03	5,489.76	5,556.67	5,552.32	4.35	1,278.724	
1,000.00	1,000.00	438.34	437.73	3.36	1.46	82.17	755.28	5,492.27	5,564.72	5,559.92	4.80	1,158.648	
1,100.00	1,100.00	476.68	475.77	3.72	1.60	82.20	752.53	5,496.18	5,573.90	5,568.60	5.30	1,051.758	
1,200.00	1,200.00	502.00	500.85	4.08	1.70	82.23	750.52	5,499.03	5,584.21	5,578.47	5.75	971.748	
1,300.00	1,300.00	544.10	542.48	4.44	1.87	82.27	747.07	5,504.26	5,595.65	5,589.39	6.26	893.788	
1,400.00	1,400.00	593.00	590.73	4.79	2.08	82.32	743.16	5,511.18	5,608.41	5,601.61	6.80	824.731	
1,500.00	1,499.98	593.00	590.73	5.15	2.08	44.34	743.16	5,511.18	5,621.02	5,613.88	7.14	787.152	
1,600.00	1,599.84	640.66	637.63	5.51	2.29	44.24	739.34	5,518.76	5,632.30	5,624.63	7.67	734.240	
1,700.00	1,699.45	684.00	680.14	5.87	2.48	44.18	735.77	5,526.36	5,642.36	5,634.18	8.18	689.457	
1,800.00	1,798.70	712.53	708.08	6.23	2.61	44.11	733.53	5,531.66	5,651.02	5,642.38	8.64	654.191	
1,900.00	1,897.47	776.00	770.21	6.60	2.91	44.14	729.51	5,544.03	5,658.35	5,649.11	9.24	612.233	
2,000.00	1,995.62	800.49	794.15	6.99	3.03	44.11	728.20	5,549.01	5,664.01	5,654.31	9.69	584.487	
2,100.00	2,093.06	850.99	843.45	7.39	3.27	44.18	725.35	5,559.59	5,668.17	5,657.91	10.26	552.609	
2,200.00	2,189.64	919.55	910.26	7.82	3.61	44.33	721.39	5,574.46	5,670.63	5,659.71	10.92	519.349	
2,300.00	2,285.27	1,011.37	999.74	8.28	4.07	44.59	716.77	5,594.54	5,671.00	5,659.32	11.69	485.293	
2,400.00	2,379.82	1,113.48	1,099.31	8.77	4.58	44.92	712.26	5,616.71	5,668.94	5,656.42	12.52	452.650	
2,500.00	2,473.17	1,207.57	1,191.07	9.31	5.06	45.29	708.19	5,637.09	5,664.53	5,651.18	13.35	424.243	
2,600.00	2,565.21	1,281.81	1,263.40	9.88	5.45	45.65	704.06	5,653.32	5,657.99	5,643.86	14.13	400.518	
2,660.67	2,620.37	1,319.25	1,299.81	10.25	5.65	45.87	701.60	5,661.68	5,653.17	5,638.59	14.58	387.747	
2,700.00	2,655.96	1,344.88	1,324.71	10.50	5.78	45.97	699.77	5,667.48	5,649.90	5,635.02	14.88	379.585	
2,800.00	2,746.43	1,428.12	1,405.53	11.15	6.23	46.31	693.69	5,686.46	5,641.93	5,626.18	15.76	358.043	
2,900.00	2,836.90	1,488.49	1,464.10	11.82	6.56	46.56	689.34	5,700.41	5,634.56	5,618.01	16.55	340.545	
3,000.00	2,927.37	1,547.62	1,521.41	12.50	6.89	46.80	685.24	5,714.40	5,627.98	5,610.64	17.34	324.498	
3,100.00	3,017.85	1,606.71	1,578.58	13.21	7.22	47.04	681.04	5,728.72	5,622.22	5,604.06	18.16	309.670	
3,200.00	3,108.32	1,759.69	1,726.75	13.92	8.07	47.67	670.38	5,765.26	5,616.37	5,596.96	19.41	289.364	
3,300.00	3,198.79	1,846.30	1,810.75	14.64	8.54	48.02	664.70	5,785.58	5,610.47	5,590.10	20.37	275.443	
3,400.00	3,289.27	1,959.94	1,921.02	15.38	9.17	48.47	657.93	5,812.22	5,604.86	5,583.41	21.46	261.199	
3,500.00	3,379.74	2,064.31	2,022.49	16.12	9.73	48.88	652.88	5,836.12	5,598.99	5,576.48	22.51	248.738	
3,600.00	3,470.21	2,161.78	2,117.26	16.87	10.26	49.26	648.28	5,858.40	5,593.36	5,569.82	23.54	237.626	
3,700.00	3,560.68	2,244.69	2,197.84	17.62	10.71	49.59	643.56	5,877.34	5,587.97	5,563.45	24.52	227.936	
3,800.00	3,651.16	2,348.19	2,298.31	18.39	11.28	50.02	636.20	5,901.08	5,582.94	5,557.35	25.60	218.094	
3,900.00	3,741.63	2,479.50	2,425.94	19.15	12.00	50.56	626.86	5,930.51	5,577.72	5,550.90	26.82	207.989	
4,000.00	3,832.10	2,515.50	2,460.89	19.92	12.20	50.71	624.25	5,938.73	5,573.01	5,545.41	27.61	201.879	
4,100.00	3,922.57	2,576.45	2,519.98	20.69	12.53	50.96	619.91	5,953.01	5,569.27	5,540.76	28.51	195.326	
4,200.00	4,013.05	2,835.00	2,771.74	21.47	13.92	52.01	604.76	6,009.83	5,564.19	5,533.87	30.32	183.515	
4,300.00	4,103.52	2,883.32	2,818.94	22.25	14.18	52.21	601.90	6,019.74	5,558.52	5,527.33	31.18	178.258	
4,400.00	4,193.99	2,928.00	2,862.38	23.03	14.41	52.39	598.69	6,029.68	5,554.35	5,522.32	32.03	173.405	
4,500.00	4,284.47	2,967.52	2,900.73	23.81	14.63	52.56	595.79	6,038.81	5,551.26	5,518.40	32.86	168.939	
4,600.00	4,374.94	3,067.78	2,998.08	24.60	15.18	52.97	589.90	6,062.01	5,548.67	5,514.70	33.97	163.322	
4,700.00	4,465.41	3,169.52	3,096.96	25.39	15.74	53.37	584.41	6,085.37	5,546.14	5,511.04	35.10	158.020	
4,800.00	4,555.88	4,800.00	3,212.22	26.18	24.58	53.86	577.27	6,112.08	5,543.52	5,501.14	42.38	130.805	
4,900.00	4,646.36	3,376.92	3,298.71	26.97	16.86	54.22	572.49	6,131.87	5,540.90	5,503.52	37.38	148.241	

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 47-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,736.83	3,443.41	3,363.37	27.76	17.22	54.48	569.17	6,147.00	5,538.97	5,500.62	38.35	144.434	
5,100.00	4,827.30	3,514.64	3,432.55	28.55	17.62	54.77	564.83	6,163.45	5,537.73	5,498.38	39.35	140.733	
5,200.00	4,917.77	3,620.00	3,534.74	29.35	18.20	55.22	556.85	6,187.80	5,536.96	5,496.44	40.52	136.638	
5,300.00	5,008.25	3,816.84	3,726.30	30.15	19.27	56.04	543.50	6,231.06	5,535.31	5,493.17	42.13	131.382	
5,400.00	5,098.72	3,933.65	3,840.37	30.94	19.87	56.51	537.40	6,255.46	5,532.74	5,489.39	43.35	127.624	
5,500.00	5,189.19	4,009.45	3,914.41	31.74	20.27	56.81	534.39	6,271.41	5,530.50	5,486.12	44.38	124.604	
5,600.00	5,279.67	5,326.71	5,219.45	32.54	25.32	62.05	501.46	6,410.12	5,520.30	5,470.63	49.67	111.143	
5,700.00	5,370.14	5,438.17	5,330.90	33.34	25.59	62.48	502.59	6,409.67	5,498.34	5,447.59	50.75	108.346	
5,800.00	5,460.61	5,536.20	5,428.93	34.14	25.82	62.87	503.75	6,408.95	5,476.28	5,424.48	51.80	105.710	
5,900.00	5,551.08	5,630.52	5,523.23	34.94	26.05	63.25	504.83	6,408.20	5,454.41	5,401.55	52.86	103.185	
6,000.00	5,641.56	5,739.50	5,632.21	35.75	26.31	63.69	505.80	6,407.08	5,432.61	5,378.66	53.95	100.698	
6,100.00	5,732.03	5,852.96	5,745.65	36.55	26.59	64.15	506.57	6,405.42	5,410.71	5,355.65	55.05	98.284	
6,200.00	5,822.50	5,963.32	5,855.99	37.35	26.85	64.61	507.33	6,403.33	5,388.66	5,332.50	56.15	95.964	
6,300.00	5,912.97	6,055.68	5,948.33	38.16	27.07	65.00	507.89	6,401.36	5,366.66	5,309.44	57.23	93.779	
6,400.00	6,003.45	6,137.30	6,029.93	38.96	27.27	65.34	508.41	6,399.71	5,345.03	5,286.74	58.29	91.703	
6,500.00	6,093.92	6,222.22	6,114.83	39.77	27.48	65.70	508.70	6,398.07	5,323.79	5,264.43	59.36	89.688	
6,600.00	6,184.39	6,312.26	6,204.85	40.57	27.70	66.09	508.72	6,396.25	5,302.80	5,242.36	60.45	87.724	
6,700.00	6,274.87	6,373.57	6,266.16	41.38	27.85	66.36	508.57	6,395.18	5,282.39	5,220.90	61.49	85.908	
6,800.00	6,365.34	6,423.36	6,315.94	42.18	27.99	66.58	508.36	6,394.59	5,262.81	5,200.29	62.51	84.188	
6,900.00	6,455.81	6,467.58	6,360.16	42.99	28.11	66.77	508.19	6,394.47	5,244.29	5,180.76	63.53	82.551	
7,000.00	6,546.28	6,513.79	6,406.37	43.80	28.24	66.97	508.01	6,394.76	5,226.84	5,162.29	64.55	80.972	
7,100.00	6,636.76	6,561.66	6,454.23	44.61	28.38	67.18	507.75	6,395.45	5,210.43	5,144.85	65.58	79.449	
7,200.00	6,727.23	6,716.21	6,608.77	45.41	28.84	67.87	506.82	6,397.44	5,194.24	5,127.35	66.89	77.654	
7,300.00	6,817.70	6,824.14	6,716.69	46.22	29.15	68.35	506.23	6,397.91	5,177.55	5,109.47	68.08	76.054	
7,383.79	6,893.51	6,907.55	6,800.10	46.90	29.39	68.73	505.66	6,397.98	5,163.55	5,094.50	69.06	74.774	
7,400.00	6,908.25	6,922.30	6,814.85	47.03	29.43	66.18	505.56	6,397.99	5,160.79	5,091.55	69.24	74.536	
7,450.00	6,954.52	6,965.60	6,858.15	47.40	29.55	56.47	505.26	6,398.01	5,151.40	5,081.65	69.76	73.846	
7,500.00	7,001.74	7,001.57	6,894.12	47.72	29.65	43.40	504.96	6,398.08	5,140.80	5,070.60	70.20	73.232	
7,550.00	7,049.55	7,038.04	6,930.58	47.99	29.76	26.85	504.61	6,398.21	5,129.06	5,058.48	70.57	72.678	
7,600.00	7,097.58	7,086.20	6,978.75	48.21	29.90	8.39	504.09	6,398.45	5,116.21	5,045.31	70.91	72.156	
7,650.00	7,145.48	7,139.78	7,032.32	48.37	30.05	-9.13	503.54	6,398.67	5,102.24	5,031.06	71.18	71.678	
7,700.00	7,192.88	7,184.97	7,077.51	48.48	30.19	-23.67	503.08	6,398.84	5,087.28	5,015.91	71.38	71.275	
7,750.00	7,239.41	7,228.91	7,121.44	48.54	30.32	-35.07	502.60	6,399.02	5,071.49	4,999.99	71.50	70.928	
7,800.00	7,284.72	7,284.44	7,176.97	48.56	30.48	-44.03	501.94	6,399.21	5,054.96	4,983.37	71.60	70.603	
7,850.00	7,328.47	7,340.54	7,233.06	48.54	30.64	-51.27	501.18	6,399.23	5,037.77	4,966.14	71.64	70.325	
7,900.00	7,370.32	7,379.57	7,272.09	48.47	30.75	-57.23	500.66	6,399.23	5,020.17	4,948.60	71.58	70.136	
7,950.00	7,409.96	7,418.85	7,311.36	48.37	30.87	-62.34	500.16	6,399.23	5,002.38	4,930.91	71.47	69.994	
8,000.00	7,447.08	7,455.66	7,348.18	48.24	30.97	-66.81	499.73	6,399.25	4,984.57	4,913.27	71.31	69.904	
8,050.00	7,481.41	7,489.73	7,382.24	48.07	31.07	-70.77	499.34	6,399.28	4,966.95	4,895.86	71.09	69.867	
8,100.00	7,512.67	7,521.17	7,413.68	47.87	31.16	-74.31	499.01	6,399.31	4,949.72	4,878.89	70.83	69.880	
8,150.00	7,540.64	7,551.72	7,444.23	47.65	31.25	-77.50	498.71	6,399.34	4,933.06	4,862.52	70.54	69.938	
8,200.00	7,565.09	7,578.43	7,470.93	47.40	31.33	-80.33	498.48	6,399.37	4,917.15	4,846.95	70.20	70.045	
8,250.00	7,585.85	7,601.08	7,493.59	47.14	31.40	-82.82	498.31	6,399.38	4,902.20	4,832.37	69.83	70.200	
8,300.00	7,602.75	7,619.55	7,512.05	46.86	31.45	-84.97	498.18	6,399.39	4,888.37	4,818.93	69.44	70.400	
8,350.00	7,615.67	7,627.41	7,519.92	46.58	31.47	-86.71	498.12	6,399.41	4,875.83	4,806.82	69.01	70.655	
8,400.00	7,624.51	7,634.62	7,527.12	46.28	31.50	-88.15	498.07	6,399.42	4,864.72	4,796.15	68.57	70.943	
8,450.00	7,629.19	7,638.56	7,531.07	45.98	31.51	-89.28	498.05	6,399.43	4,855.15	4,787.02	68.13	71.266	
8,481.00	7,630.00	7,639.36	7,531.87	45.79	31.51	-89.81	498.04	6,399.43	4,850.03	4,782.18	67.85	71.482	
8,500.00	7,630.00	7,639.46	7,531.97	45.68	31.51	-89.81	498.04	6,399.43	4,847.12	4,779.44	67.68	71.618	
8,600.00	7,630.00	7,639.99	7,532.50	45.11	31.51	-89.81	498.04	6,399.43	4,833.03	4,766.18	66.85	72.301	
8,700.00	7,630.00	7,640.52	7,533.02	44.56	31.51	-89.82	498.03	6,399.43	4,820.97	4,754.87	66.10	72.930	
8,800.00	7,630.00	7,641.04	7,533.55	44.05	31.52	-89.83	498.03	6,399.43	4,810.97	4,745.50	65.46	73.492	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	7,641.57	7,534.08	43.57	31.52	-89.83	498.03	6,399.44	4,803.02	4,738.09	64.93	73.972	
9,000.00	7,630.00	7,642.10	7,534.60	43.12	31.52	-89.84	498.02	6,399.44	4,797.14	4,732.63	64.52	74.356	
9,100.00	7,630.00	7,642.62	7,535.13	42.70	31.52	-89.85	498.02	6,399.44	4,793.35	4,729.12	64.22	74.635	
9,200.00	7,630.00	7,643.15	7,535.65	42.31	31.52	-89.85	498.02	6,399.44	4,791.64	4,727.58	64.06	74.799	
9,232.03	7,630.00	7,643.31	7,535.82	42.18	31.52	-89.85	498.02	6,399.44	4,791.53	4,727.48	64.04	74.816	CC, ES
9,300.00	7,630.00	7,643.67	7,536.18	41.94	31.52	-89.86	498.01	6,399.44	4,792.01	4,727.98	64.03	74.844	
9,400.00	7,630.00	7,644.19	7,536.70	41.59	31.52	-89.86	498.01	6,399.44	4,794.47	4,730.35	64.13	74.767	
9,500.00	7,630.00	7,644.72	7,537.22	41.26	31.53	-89.87	498.01	6,399.44	4,799.02	4,734.66	64.36	74.571	
9,600.00	7,630.00	7,645.24	7,537.74	40.96	31.53	-89.88	498.00	6,399.44	4,805.64	4,740.92	64.71	74.261	
9,700.00	7,630.00	7,645.76	7,538.27	40.68	31.53	-89.88	498.00	6,399.45	4,814.33	4,749.13	65.19	73.848	
9,800.00	7,630.00	7,646.28	7,538.79	40.42	31.53	-89.89	498.00	6,399.45	4,825.07	4,759.28	65.79	73.342	
9,900.00	7,630.00	7,646.80	7,539.31	40.17	31.53	-89.90	497.99	6,399.45	4,837.86	4,771.37	66.49	72.757	
10,000.00	7,630.00	7,647.32	7,539.83	39.96	31.53	-89.90	497.99	6,399.45	4,852.68	4,785.38	67.30	72.107	
10,100.00	7,630.00	7,647.84	7,540.35	40.05	31.54	-89.91	497.99	6,399.45	4,869.51	4,801.31	68.19	71.407	
10,200.00	7,630.00	7,648.36	7,540.87	40.95	31.54	-89.91	497.98	6,399.45	4,888.32	4,819.15	69.17	70.671	
10,300.00	7,630.00	7,648.88	7,541.38	41.94	31.54	-89.92	497.98	6,399.45	4,909.10	4,838.88	70.22	69.912	
10,400.00	7,630.00	7,649.40	7,541.90	42.98	31.54	-89.93	497.98	6,399.46	4,931.82	4,860.49	71.33	69.143	
10,500.00	7,630.00	7,649.91	7,542.42	44.06	31.54	-89.93	497.97	6,399.46	4,956.46	4,883.97	72.49	68.374	
10,600.00	7,630.00	7,650.43	7,542.93	45.17	31.54	-89.94	497.97	6,399.46	4,982.97	4,909.28	73.70	67.615	
10,700.00	7,630.00	7,650.94	7,543.45	46.32	31.54	-89.95	497.97	6,399.46	5,011.35	4,936.41	74.94	66.872	
10,800.00	7,630.00	7,651.46	7,543.96	47.50	31.55	-89.95	497.96	6,399.46	5,041.55	4,965.34	76.21	66.153	
10,900.00	7,630.00	7,651.97	7,544.48	48.70	31.55	-89.96	497.96	6,399.46	5,073.54	4,996.03	77.50	65.462	
11,000.00	7,630.00	7,652.49	7,544.99	49.94	31.55	-89.96	497.95	6,399.47	5,107.29	5,028.47	78.81	64.804	
11,100.00	7,630.00	7,653.00	7,545.51	51.20	31.55	-89.97	497.95	6,399.47	5,142.76	5,062.63	80.13	64.181	
11,200.00	7,630.00	7,653.51	7,546.02	52.48	31.55	-89.98	497.95	6,399.47	5,179.92	5,098.46	81.45	63.595	
11,300.00	7,630.00	7,654.02	7,546.53	53.79	31.55	-89.98	497.94	6,399.47	5,218.73	5,135.95	82.77	63.047	
11,400.00	7,630.00	7,654.54	7,547.04	55.12	31.56	-89.99	497.94	6,399.47	5,259.15	5,175.06	84.09	62.539	
11,500.00	7,630.00	7,655.05	7,547.55	56.46	31.56	-89.99	497.94	6,399.47	5,301.16	5,215.75	85.40	62.071	
11,600.00	7,630.00	7,655.56	7,548.06	57.83	31.56	-90.00	497.93	6,399.47	5,344.70	5,258.00	86.70	61.642	
11,700.00	7,630.00	7,656.07	7,548.57	59.22	31.56	-90.01	497.93	6,399.48	5,389.75	5,301.76	87.99	61.253	
11,800.00	7,630.00	7,656.58	7,549.08	60.62	31.56	-90.01	497.93	6,399.48	5,436.27	5,347.00	89.26	60.901	
11,900.00	7,630.00	7,657.08	7,549.59	62.04	31.56	-90.02	497.92	6,399.48	5,484.21	5,393.70	90.52	60.588	
12,000.00	7,630.00	7,657.59	7,550.10	63.48	31.56	-90.03	497.92	6,399.48	5,533.55	5,441.80	91.75	60.310	
12,100.00	7,630.00	7,658.10	7,550.61	64.93	31.57	-90.03	497.92	6,399.48	5,584.24	5,491.28	92.96	60.069	
12,200.00	7,630.00	7,658.61	7,551.11	66.39	31.57	-90.04	497.91	6,399.48	5,636.25	5,542.09	94.16	59.861	
12,300.00	7,630.00	7,659.11	7,551.62	67.86	31.57	-90.04	497.91	6,399.49	5,689.54	5,594.22	95.32	59.686	
12,400.00	7,630.00	7,659.62	7,552.12	69.35	31.57	-90.05	497.91	6,399.49	5,744.08	5,647.61	96.47	59.544	
12,500.00	7,630.00	7,660.12	7,552.63	70.85	31.57	-90.06	497.90	6,399.49	5,799.83	5,702.24	97.59	59.432	
12,600.00	7,630.00	7,660.63	7,553.13	72.36	31.57	-90.06	497.90	6,399.49	5,856.76	5,758.07	98.68	59.349	
12,700.00	7,630.00	7,661.13	7,553.64	73.88	31.57	-90.07	497.90	6,399.49	5,914.83	5,815.07	99.75	59.294	
12,800.00	7,630.00	7,661.64	7,554.14	75.41	31.58	-90.07	497.89	6,399.50	5,974.01	5,873.21	100.80	59.267	
12,900.00	7,630.00	7,662.14	7,554.64	76.95	31.58	-90.08	497.89	6,399.50	6,034.26	5,932.44	101.82	59.265	SF
13,000.00	7,630.00	7,662.64	7,555.15	78.49	31.58	-90.09	497.89	6,399.50	6,095.56	5,992.75	102.81	59.288	
13,100.00	7,630.00	7,663.14	7,555.65	80.05	31.58	-90.09	497.88	6,399.50	6,157.88	6,054.10	103.78	59.335	
13,200.00	7,630.00	7,663.64	7,556.15	81.61	31.58	-90.10	497.88	6,399.50	6,221.18	6,116.45	104.73	59.405	
13,300.00	7,630.00	7,664.14	7,556.65	83.18	31.58	-90.10	497.88	6,399.50	6,285.43	6,179.78	105.64	59.496	
13,400.00	7,630.00	7,664.64	7,557.15	84.76	31.59	-90.11	497.87	6,399.51	6,350.60	6,244.06	106.54	59.608	
13,500.00	7,630.00	7,665.14	7,557.65	86.34	31.59	-90.12	497.87	6,399.51	6,416.68	6,309.27	107.41	59.739	
13,600.00	7,630.00	7,665.64	7,558.15	87.94	31.59	-90.12	497.87	6,399.51	6,483.62	6,375.36	108.26	59.890	
13,700.00	7,630.00	7,666.14	7,558.64	89.53	31.59	-90.13	497.86	6,399.51	6,551.40	6,442.32	109.08	60.059	
13,800.00	7,630.00	7,666.64	7,559.14	91.13	31.59	-90.13	497.86	6,399.51	6,620.00	6,510.12	109.88	60.245	
13,900.00	7,630.00	7,667.13	7,559.64	92.74	31.59	-90.14	497.86	6,399.52	6,689.39	6,578.73	110.66	60.448	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
14,000.00	7,630.00	7,667.63	7,560.14	94.35	31.59	-90.15	497.85	6,399.52	6,759.55	6,648.13	111.42	60.666	
14,100.00	7,630.00	7,668.13	7,560.63	95.97	31.60	-90.15	497.85	6,399.52	6,830.46	6,718.30	112.16	60.900	
14,200.00	7,630.00	7,668.62	7,561.13	97.60	31.60	-90.16	497.85	6,399.52	6,902.08	6,789.20	112.87	61.148	
14,300.00	7,630.00	7,669.12	7,561.62	99.22	31.60	-90.16	497.85	6,399.52	6,974.40	6,860.83	113.57	61.410	
14,400.00	7,630.00	7,669.61	7,562.12	100.85	31.60	-90.17	497.84	6,399.53	7,047.40	6,933.15	114.25	61.686	
14,500.00	7,630.00	7,670.10	7,562.61	102.49	31.60	-90.17	497.84	6,399.53	7,121.05	7,006.15	114.90	61.974	
14,600.00	7,630.00	7,670.60	7,563.10	104.13	31.60	-90.18	497.84	6,399.53	7,195.34	7,079.80	115.54	62.274	
14,700.00	7,630.00	7,671.09	7,563.60	105.77	31.60	-90.19	497.83	6,399.53	7,270.25	7,154.08	116.16	62.586	
14,800.00	7,630.00	7,671.58	7,564.09	107.42	31.61	-90.19	497.83	6,399.53	7,345.75	7,228.98	116.77	62.909	
14,900.00	7,630.00	7,672.07	7,564.58	109.07	31.61	-90.20	497.83	6,399.54	7,421.83	7,304.48	117.35	63.243	
15,000.00	7,630.00	7,672.57	7,565.07	110.72	31.61	-90.20	497.82	6,399.54	7,498.48	7,380.55	117.92	63.588	
15,100.00	7,630.00	7,673.06	7,565.56	112.38	31.61	-90.21	497.82	6,399.54	7,575.67	7,457.19	118.48	63.942	
15,200.00	7,630.00	7,673.55	7,566.05	114.04	31.61	-90.22	497.82	6,399.54	7,653.38	7,534.37	119.02	64.306	
15,300.00	7,630.00	7,674.03	7,566.54	115.71	31.61	-90.22	497.81	6,399.54	7,731.61	7,612.07	119.54	64.679	
15,400.00	7,630.00	7,674.52	7,567.03	117.37	31.61	-90.23	497.81	6,399.55	7,810.34	7,690.29	120.05	65.060	
15,500.00	7,630.00	7,675.01	7,567.52	119.04	31.62	-90.23	497.81	6,399.55	7,889.55	7,769.00	120.54	65.450	
15,600.00	7,630.00	7,675.50	7,568.00	120.71	31.62	-90.24	497.80	6,399.55	7,969.22	7,848.20	121.02	65.849	
15,700.00	7,630.00	7,675.99	7,568.49	122.39	31.62	-90.25	497.80	6,399.55	8,049.35	7,927.86	121.49	66.254	
15,800.00	7,630.00	7,676.47	7,568.98	124.06	31.62	-90.25	497.80	6,399.56	8,129.92	8,007.97	121.95	66.668	
15,900.00	7,630.00	7,676.96	7,569.46	125.74	31.62	-90.26	497.79	6,399.56	8,210.92	8,088.53	122.39	67.088	
16,000.00	7,630.00	7,677.44	7,569.95	127.42	31.62	-90.26	497.79	6,399.56	8,292.33	8,169.51	122.82	67.516	
16,100.00	7,630.00	7,677.93	7,570.43	129.10	31.63	-90.27	497.79	6,399.56	8,374.14	8,250.90	123.24	67.950	
16,200.00	7,630.00	7,678.41	7,570.92	130.79	31.63	-90.27	497.78	6,399.56	8,456.35	8,332.70	123.65	68.390	
16,300.00	7,630.00	7,678.90	7,571.40	132.48	31.63	-90.28	497.78	6,399.57	8,538.93	8,414.88	124.05	68.837	
16,400.00	7,630.00	7,679.38	7,571.88	134.17	31.63	-90.29	497.78	6,399.57	8,621.88	8,497.45	124.43	69.290	
16,500.00	7,630.00	7,679.86	7,572.37	135.86	31.63	-90.29	497.78	6,399.57	8,705.20	8,580.39	124.81	69.748	
16,600.00	7,630.00	7,680.35	7,572.85	137.55	31.63	-90.30	497.77	6,399.57	8,788.85	8,663.68	125.18	70.212	
16,700.00	7,630.00	7,680.83	7,573.33	139.24	31.63	-90.30	497.77	6,399.58	8,872.85	8,747.32	125.53	70.681	
16,800.00	7,630.00	7,681.31	7,573.81	140.94	31.64	-90.31	497.77	6,399.58	8,957.18	8,831.30	125.88	71.155	
16,900.00	7,630.00	7,681.79	7,574.29	142.64	31.64	-90.31	497.76	6,399.58	9,041.83	8,915.60	126.22	71.634	
17,000.00	7,630.00	7,682.27	7,574.77	144.34	31.64	-90.32	497.76	6,399.58	9,126.78	9,000.23	126.55	72.118	
17,100.00	7,630.00	7,682.75	7,575.25	146.04	31.64	-90.33	497.76	6,399.58	9,212.04	9,085.17	126.88	72.607	
17,200.00	7,630.00	7,683.23	7,575.73	147.74	31.64	-90.33	497.75	6,399.59	9,297.59	9,170.40	127.19	73.100	
17,300.00	7,630.00	7,683.71	7,576.21	149.44	31.64	-90.34	497.75	6,399.59	9,383.43	9,255.93	127.50	73.597	
17,400.00	7,630.00	7,684.18	7,576.69	151.15	31.64	-90.34	497.75	6,399.59	9,469.55	9,341.75	127.80	74.098	
17,500.00	7,630.00	7,684.66	7,577.17	152.86	31.65	-90.35	497.74	6,399.59	9,555.93	9,427.84	128.09	74.604	
17,600.00	7,630.00	7,685.14	7,577.64	154.56	31.65	-90.35	497.74	6,399.60	9,642.58	9,514.21	128.37	75.113	
17,700.00	7,630.00	7,685.61	7,578.12	156.27	31.65	-90.36	497.74	6,399.60	9,729.49	9,600.84	128.65	75.626	
17,800.00	7,630.00	7,686.09	7,578.59	157.98	31.65	-90.37	497.74	6,399.60	9,816.64	9,687.72	128.93	76.142	
17,900.00	7,630.00	7,686.57	7,579.07	159.70	31.65	-90.37	497.73	6,399.60	9,904.04	9,774.85	129.19	76.662	
18,000.00	7,630.00	7,687.04	7,579.54	161.41	31.65	-90.38	497.73	6,399.61	9,991.67	9,862.22	129.45	77.185	

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 78-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	82.11	757.59	5,464.36	5,517.26				
100.00	100.00	21.10	21.10	0.13	0.03	82.11	757.58	5,464.36	5,516.63	5,516.46	0.17	N/A	
199.81	199.81	116.81	116.81	0.49	0.26	82.11	756.95	5,464.29	5,516.47	5,515.72	0.75	7,369.845	
200.00	200.00	116.95	116.95	0.49	0.26	82.11	756.95	5,464.29	5,516.47	5,515.72	0.75	7,358.312	
300.00	300.00	169.00	168.97	0.85	0.45	82.13	755.49	5,464.59	5,516.78	5,515.48	1.30	4,257.454	
400.00	400.00	234.64	234.51	1.21	0.69	82.16	752.16	5,465.67	5,517.80	5,515.90	1.90	2,909.046	
500.00	500.00	291.66	291.35	1.57	0.90	82.21	747.89	5,467.36	5,519.71	5,517.24	2.47	2,233.762	
600.00	600.00	351.00	350.39	1.93	1.13	82.27	742.42	5,469.66	5,522.33	5,519.27	3.06	1,805.966	
700.00	700.00	409.71	408.67	2.29	1.37	82.34	735.88	5,472.51	5,525.69	5,522.04	3.65	1,512.430	
800.00	800.00	442.00	440.64	2.64	1.50	82.39	731.77	5,474.35	5,529.96	5,525.81	4.14	1,334.825	
900.00	900.00	493.48	491.46	3.00	1.73	82.47	724.40	5,477.93	5,535.20	5,530.48	4.72	1,171.842	
1,000.00	1,000.00	533.00	530.32	3.36	1.90	82.54	718.04	5,481.33	5,541.66	5,536.41	5.25	1,055.288	
1,100.00	1,100.00	564.58	561.26	3.72	2.05	82.60	712.55	5,484.45	5,549.29	5,543.53	5.75	964.346	
1,200.00	1,200.00	624.00	619.21	4.08	2.34	82.72	701.33	5,491.30	5,558.24	5,551.85	6.39	870.060	
1,300.00	1,300.00	643.15	637.80	4.44	2.44	82.76	697.46	5,493.73	5,568.04	5,561.20	6.84	814.402	
1,400.00	1,400.00	715.00	707.22	4.79	2.82	82.94	681.60	5,503.29	5,578.76	5,571.21	7.56	738.252	
1,500.00	1,499.98	756.93	747.48	5.15	3.06	45.10	671.49	5,509.24	5,589.03	5,580.89	8.13	687.067	
1,600.00	1,599.84	808.00	796.25	5.51	3.36	45.14	658.49	5,517.00	5,597.84	5,589.08	8.76	639.052	
1,700.00	1,699.45	858.08	843.81	5.87	3.67	45.21	645.01	5,525.06	5,605.11	5,595.71	9.40	596.277	
1,800.00	1,798.70	915.00	897.54	6.23	4.03	45.36	628.84	5,534.63	5,610.78	5,600.70	10.09	556.270	
1,900.00	1,897.47	976.13	955.10	6.60	4.43	45.56	611.25	5,545.27	5,614.81	5,604.00	10.81	519.284	
2,000.00	1,995.62	1,068.00	1,041.44	6.99	5.05	45.93	584.43	5,561.58	5,617.02	5,605.27	11.75	477.905	
2,100.00	2,093.06	1,151.75	1,119.91	7.39	5.62	46.33	559.22	5,576.44	5,617.12	5,604.45	12.66	443.544	
2,200.00	2,189.64	1,363.46	1,319.25	7.82	7.06	47.42	496.79	5,610.88	5,613.42	5,599.00	14.43	389.145	
2,300.00	2,285.27	1,403.63	1,357.06	8.28	7.34	47.71	484.86	5,617.30	5,608.04	5,592.96	15.08	371.973	
2,400.00	2,379.82	1,433.00	1,384.64	8.77	7.54	47.96	476.02	5,622.20	5,601.50	5,585.82	15.68	357.347	
2,500.00	2,473.17	1,480.27	1,428.84	9.31	7.88	48.35	461.43	5,630.46	5,593.80	5,577.37	16.43	340.491	
2,600.00	2,565.21	1,527.00	1,472.24	9.88	8.21	48.77	446.43	5,639.09	5,585.07	5,567.87	17.20	324.633	
2,660.67	2,620.37	1,554.16	1,497.39	10.25	8.42	49.03	437.55	5,644.23	5,579.20	5,561.52	17.69	315.454	
2,700.00	2,655.96	1,588.23	1,528.93	10.50	8.67	49.25	426.40	5,650.66	5,575.27	5,557.15	18.12	307.666	
2,800.00	2,746.43	1,668.03	1,602.85	11.15	9.26	49.77	400.34	5,665.67	5,565.70	5,546.51	19.19	290.023	
2,900.00	2,836.90	1,828.50	1,752.22	11.82	10.44	50.79	349.51	5,694.91	5,556.40	5,535.57	20.83	266.696	
3,000.00	2,927.37	1,895.83	1,815.26	12.50	10.92	51.22	329.05	5,706.74	5,547.12	5,525.29	21.83	254.105	
3,100.00	3,017.85	1,975.83	1,890.37	13.21	11.48	51.72	305.42	5,720.92	5,538.58	5,515.66	22.92	241.686	
3,200.00	3,108.32	2,051.15	1,961.17	13.92	12.01	52.18	283.51	5,734.31	5,530.69	5,506.71	23.98	230.637	
3,300.00	3,198.79	2,116.85	2,022.89	14.64	12.47	52.59	264.31	5,746.07	5,523.57	5,498.58	24.99	221.020	
3,400.00	3,289.27	2,174.23	2,076.65	15.38	12.88	52.95	247.15	5,756.51	5,517.39	5,491.43	25.96	212.554	
3,500.00	3,379.74	2,233.39	2,131.93	16.12	13.30	53.33	229.18	5,767.47	5,512.18	5,485.23	26.95	204.551	
3,600.00	3,470.21	3,600.00	2,233.90	16.87	23.06	54.02	196.38	5,787.59	5,507.55	5,471.32	36.23	152.033	
3,700.00	3,560.68	2,485.33	2,368.39	17.62	15.08	54.91	154.90	5,812.61	5,502.54	5,472.69	29.84	184.384	
3,800.00	3,651.16	2,551.84	2,431.01	18.39	15.54	55.33	135.67	5,824.15	5,498.21	5,467.32	30.89	178.001	
3,900.00	3,741.63	2,611.43	2,486.91	19.15	15.97	55.71	117.89	5,834.58	5,494.77	5,462.87	31.90	172.236	
4,000.00	3,832.10	2,692.97	2,563.14	19.92	16.55	56.23	92.76	5,848.97	5,492.26	5,459.19	33.07	166.078	
4,100.00	3,922.57	2,783.80	2,648.56	20.69	17.19	56.80	66.30	5,864.92	5,490.11	5,455.81	34.30	160.061	
4,200.00	4,013.05	2,836.00	2,697.58	21.47	17.55	57.13	50.89	5,874.10	5,488.75	5,453.49	35.26	155.645	
4,281.22	4,086.53	2,887.54	2,745.85	22.10	17.92	57.46	35.33	5,883.29	5,488.37	5,452.25	36.12	151.952	
4,300.00	4,103.52	2,896.88	2,754.58	22.25	17.99	57.52	32.48	5,884.98	5,488.39	5,452.09	36.30	151.202	
4,400.00	4,193.99	2,950.39	2,804.52	23.03	18.38	57.86	15.97	5,894.79	5,489.14	5,451.86	37.28	147.230	
4,500.00	4,284.47	3,010.96	2,860.94	23.81	18.83	58.25	-2.96	5,906.05	5,490.88	5,452.56	38.32	143.288	
4,600.00	4,374.94	3,085.17	2,929.96	24.60	19.38	58.73	-26.45	5,919.95	5,493.50	5,454.03	39.46	139.214	
4,700.00	4,465.41	3,170.92	3,009.53	25.39	20.02	59.29	-54.16	5,935.84	5,496.79	5,456.10	40.69	135.083	
4,800.00	4,555.88	3,317.53	3,145.52	26.18	21.12	60.26	-102.33	5,961.92	5,500.42	5,458.04	42.38	129.803	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
4,900.00	4,646.36	3,405.23	3,227.55	26.97	21.75	60.82	-129.22	5,977.37	5,504.08	5,460.48	43.60	126.239	
5,000.00	4,736.83	3,460.71	3,279.59	27.76	22.15	61.17	-145.65	5,987.37	5,508.49	5,463.90	44.59	123.543	
5,100.00	4,827.30	3,510.95	3,326.67	28.55	22.51	61.48	-160.56	5,996.61	5,513.90	5,468.36	45.54	121.080	
5,200.00	4,917.77	3,551.65	3,364.67	29.35	22.81	61.74	-173.00	6,004.26	5,520.48	5,474.06	46.42	118.920	
5,300.00	5,008.25	3,599.32	3,408.95	30.15	23.16	62.05	-188.05	6,013.42	5,528.29	5,480.94	47.35	116.751	
5,400.00	5,098.72	5,400.00	3,545.17	30.94	36.20	62.97	-233.02	6,041.25	5,536.46	5,477.81	58.65	94.395	
5,500.00	5,189.19	3,875.60	3,667.31	31.74	25.16	63.78	-271.26	6,064.86	5,544.07	5,493.57	50.50	109.786	
5,600.00	5,279.67	3,946.27	3,733.50	32.54	25.66	64.23	-292.61	6,077.41	5,552.41	5,500.82	51.59	107.634	
5,700.00	5,370.14	3,992.02	3,776.18	33.34	26.00	64.52	-306.98	6,085.47	5,561.67	5,509.18	52.49	105.950	
5,800.00	5,460.61	4,031.54	3,812.99	34.14	26.29	64.77	-319.36	6,092.74	5,572.16	5,518.81	53.35	104.444	
5,900.00	5,551.08	4,085.77	3,863.47	34.94	26.69	65.11	-336.27	6,103.14	5,583.81	5,529.50	54.31	102.813	
6,000.00	5,641.56	4,191.26	3,961.67	35.75	27.47	65.78	-369.01	6,123.43	5,596.20	5,540.56	55.65	100.566	
6,100.00	5,732.03	4,283.66	4,047.70	36.55	28.15	66.36	-398.22	6,140.27	5,608.58	5,551.70	56.88	98.596	
6,200.00	5,822.50	4,337.00	4,097.37	37.35	28.55	66.69	-414.92	6,150.26	5,621.93	5,564.10	57.83	97.220	
6,300.00	5,912.97	4,382.27	4,139.48	38.16	28.89	66.98	-429.00	6,159.02	5,636.33	5,577.63	58.70	96.018	
6,400.00	6,003.45	4,430.00	4,183.84	38.96	29.24	67.27	-443.87	6,168.53	5,651.81	5,592.23	59.59	94.850	
6,500.00	6,093.92	4,512.65	4,260.55	39.77	29.86	67.78	-469.74	6,185.15	5,668.11	5,607.38	60.73	93.328	
6,600.00	6,184.39	4,621.31	4,361.21	40.57	30.69	68.46	-504.90	6,206.11	5,684.82	5,622.73	62.08	91.566	
6,700.00	6,274.87	6,556.14	6,243.92	41.38	39.48	78.41	-806.08	6,376.40	5,678.00	5,606.59	71.40	79.518	
6,800.00	6,365.34	6,668.83	6,356.61	42.18	39.68	78.90	-805.98	6,375.09	5,667.58	5,595.21	72.37	78.312	
6,900.00	6,455.81	6,742.17	6,429.94	42.99	39.81	79.21	-805.78	6,374.21	5,657.38	5,584.09	73.29	77.190	
7,000.00	6,546.28	6,890.25	6,578.00	43.80	40.07	79.84	-804.89	6,372.20	5,647.23	5,572.93	74.30	76.007	
7,100.00	6,636.76	6,987.46	6,675.19	44.61	40.23	80.26	-804.32	6,370.34	5,636.94	5,561.69	75.25	74.906	
7,200.00	6,727.23	7,129.14	6,816.82	45.41	40.48	80.88	-803.23	6,366.62	5,626.27	5,550.01	76.26	73.778	
7,300.00	6,817.70	7,232.79	6,920.42	46.22	40.65	81.33	-801.85	6,363.59	5,615.49	5,538.27	77.22	72.718	
7,383.79	6,893.51	7,265.35	6,952.97	46.90	40.71	81.47	-801.34	6,362.76	5,606.89	5,528.92	77.98	71.904	
7,400.00	6,908.25	7,271.18	6,958.79	47.03	40.72	79.00	-801.25	6,362.65	5,605.21	5,527.08	78.12	71.750	
7,450.00	6,954.52	7,289.47	6,977.08	47.40	40.75	69.54	-800.95	6,362.37	5,598.69	5,520.16	78.53	71.291	
7,500.00	7,001.74	7,331.00	7,018.60	47.72	40.83	56.77	-800.25	6,362.12	5,590.33	5,511.41	78.93	70.831	
7,550.00	7,049.55	7,550.00	7,108.04	47.99	41.24	40.56	-800.06	6,359.65	5,579.12	5,499.46	79.66	70.037	
7,600.00	7,097.58	7,517.00	7,204.49	48.21	41.17	22.27	-799.86	6,356.98	5,566.18	5,486.50	79.69	69.848	
7,650.00	7,145.48	7,546.96	7,234.42	48.37	41.24	4.76	-800.30	6,355.48	5,550.55	5,470.63	79.93	69.446	
7,700.00	7,192.88	7,561.49	7,248.93	48.48	41.27	-9.84	-800.54	6,354.89	5,533.37	5,453.28	80.09	69.089	
7,750.00	7,239.41	7,575.84	7,263.27	48.54	41.30	-21.35	-800.80	6,354.39	5,514.68	5,434.48	80.20	68.758	
7,800.00	7,284.72	7,611.00	7,298.41	48.56	41.37	-30.50	-801.50	6,353.52	5,494.76	5,414.46	80.30	68.425	
7,850.00	7,328.47	7,611.00	7,298.41	48.54	41.37	-37.90	-801.50	6,353.52	5,473.38	5,393.08	80.30	68.158	
7,900.00	7,370.32	7,611.00	7,298.41	48.47	41.37	-44.15	-801.50	6,353.52	5,451.05	5,370.79	80.26	67.918	
7,950.00	7,409.96	7,611.00	7,298.41	48.37	41.37	-49.62	-801.50	6,353.52	5,427.92	5,347.75	80.17	67.704	
8,000.00	7,447.08	7,649.17	7,336.57	48.24	41.46	-54.79	-802.26	6,353.11	5,403.83	5,323.72	80.11	67.453	
8,050.00	7,481.41	7,663.05	7,350.45	48.07	41.50	-59.46	-802.49	6,353.10	5,379.34	5,299.36	79.98	67.262	
8,100.00	7,512.67	7,675.73	7,363.13	47.87	41.53	-63.82	-802.69	6,353.15	5,354.51	5,274.71	79.80	67.096	
8,150.00	7,540.64	7,705.00	7,392.39	47.65	41.60	-68.09	-803.09	6,353.49	5,329.64	5,250.01	79.63	66.927	
8,200.00	7,565.09	7,705.00	7,392.39	47.40	41.60	-71.86	-803.09	6,353.49	5,304.73	5,225.34	79.38	66.824	
8,250.00	7,585.85	7,705.00	7,392.39	47.14	41.60	-75.37	-803.09	6,353.49	5,280.16	5,201.05	79.11	66.743	
8,300.00	7,602.75	7,705.00	7,392.39	46.86	41.60	-78.63	-803.09	6,353.49	5,256.14	5,177.32	78.82	66.684	
8,350.00	7,615.67	7,705.00	7,392.39	46.58	41.60	-81.63	-803.09	6,353.49	5,232.85	5,154.33	78.52	66.644	
8,400.00	7,624.51	7,725.43	7,412.81	46.28	41.65	-84.59	-803.38	6,353.87	5,210.40	5,132.15	78.24	66.591	
8,450.00	7,629.19	7,728.11	7,415.49	45.98	41.66	-87.06	-803.42	6,353.92	5,189.11	5,111.18	77.93	66.586	
8,481.00	7,630.00	7,728.75	7,416.14	45.79	41.66	-88.42	-803.43	6,353.94	5,176.56	5,098.83	77.73	66.595	
8,500.00	7,630.00	7,728.90	7,416.29	45.68	41.66	-88.42	-803.43	6,353.94	5,169.05	5,091.44	77.61	66.602	
8,600.00	7,630.00	7,729.71	7,417.09	45.11	41.66	-88.43	-803.45	6,353.96	5,130.54	5,053.53	77.01	66.625	
8,700.00	7,630.00	7,730.53	7,417.91	44.56	41.66	-88.44	-803.46	6,353.97	5,093.69	5,017.23	76.46	66.623	

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

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 78-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,800.00	7,630.00	7,731.36	7,418.74	44.05	41.67	-88.45	-803.47	6,353.99	5,058.55	4,982.58	75.97	66.588	
8,900.00	7,630.00	7,732.21	7,419.59	43.57	41.67	-88.46	-803.49	6,354.01	5,025.16	4,949.61	75.55	66.515	
9,000.00	7,630.00	7,733.07	7,420.46	43.12	41.67	-88.47	-803.50	6,354.03	4,993.54	4,918.33	75.21	66.395	
9,100.00	7,630.00	7,733.95	7,421.34	42.70	41.67	-88.48	-803.52	6,354.04	4,963.74	4,888.79	74.96	66.223	
9,200.00	7,630.00	7,734.85	7,422.23	42.31	41.68	-88.50	-803.53	6,354.06	4,935.79	4,860.99	74.79	65.992	
9,300.00	7,630.00	7,735.76	7,423.14	41.94	41.68	-88.51	-803.55	6,354.08	4,909.71	4,834.98	74.73	65.698	
9,400.00	7,630.00	7,736.69	7,424.07	41.59	41.68	-88.52	-803.56	6,354.10	4,885.54	4,810.76	74.78	65.336	
9,500.00	7,630.00	7,737.64	7,425.02	41.26	41.68	-88.53	-803.58	6,354.12	4,863.31	4,788.38	74.93	64.904	
9,600.00	7,630.00	7,738.60	7,425.98	40.96	41.69	-88.54	-803.60	6,354.14	4,843.03	4,767.84	75.20	64.403	
9,700.00	7,630.00	7,739.59	7,426.97	40.68	41.69	-88.55	-803.62	6,354.17	4,824.75	4,749.17	75.58	63.833	
9,800.00	7,630.00	7,740.59	7,427.97	40.42	41.69	-88.56	-803.63	6,354.19	4,808.48	4,732.39	76.09	63.198	
9,900.00	7,630.00	7,741.61	7,428.99	40.17	41.69	-88.58	-803.65	6,354.21	4,794.24	4,717.53	76.70	62.504	
10,000.00	7,630.00	7,742.65	7,430.03	39.96	41.70	-88.59	-803.67	6,354.23	4,782.04	4,704.61	77.43	61.758	
10,100.00	7,630.00	7,743.72	7,431.10	40.05	41.70	-88.60	-803.69	6,354.26	4,771.91	4,693.64	78.27	60.967	
10,200.00	7,630.00	7,744.80	7,432.18	40.95	41.70	-88.62	-803.71	6,354.28	4,763.86	4,684.65	79.21	60.141	
10,300.00	7,630.00	7,745.91	7,433.29	41.94	41.71	-88.63	-803.74	6,354.31	4,757.90	4,677.65	80.25	59.289	
10,400.00	7,630.00	7,747.04	7,434.42	42.98	41.71	-88.64	-803.76	6,354.33	4,754.03	4,672.65	81.38	58.421	
10,500.00	7,630.00	7,748.19	7,435.57	44.06	41.71	-88.66	-803.78	6,354.36	4,752.26	4,669.68	82.58	57.546	
10,533.97	7,630.00	7,748.59	7,435.97	44.44	41.71	-88.66	-803.79	6,354.37	4,752.14	4,669.13	83.01	57.244 CC	
10,600.00	7,630.00	7,749.37	7,436.75	45.17	41.71	-88.67	-803.80	6,354.39	4,752.60	4,668.74	83.86	56.672 ES	
10,700.00	7,630.00	7,750.58	7,437.95	46.32	41.72	-88.69	-803.83	6,354.42	4,755.04	4,669.84	85.20	55.808	
10,800.00	7,630.00	7,751.80	7,439.18	47.50	41.72	-88.70	-803.85	6,354.45	4,759.58	4,672.98	86.60	54.960	
10,900.00	7,630.00	7,753.06	7,440.44	48.70	41.72	-88.72	-803.88	6,354.48	4,766.22	4,678.17	88.04	54.134	
11,000.00	7,630.00	7,754.34	7,441.72	49.94	41.73	-88.73	-803.90	6,354.51	4,774.93	4,685.41	89.53	53.336	
11,100.00	7,630.00	7,755.66	7,443.03	51.20	41.73	-88.75	-803.93	6,354.54	4,785.73	4,694.69	91.04	52.569	
11,200.00	7,630.00	7,757.00	7,444.37	52.48	41.74	-88.76	-803.96	6,354.57	4,798.58	4,706.01	92.57	51.837	
11,300.00	7,630.00	7,758.37	7,445.74	53.79	41.74	-88.78	-803.99	6,354.61	4,813.47	4,719.35	94.12	51.141	
11,400.00	7,630.00	7,759.77	7,447.15	55.12	41.74	-88.80	-804.02	6,354.64	4,830.39	4,734.71	95.68	50.485	
11,500.00	7,630.00	7,761.21	7,448.58	56.46	41.75	-88.81	-804.05	6,354.68	4,849.31	4,752.07	97.24	49.868	
11,600.00	7,630.00	7,762.68	7,450.05	57.83	41.75	-88.83	-804.08	6,354.71	4,870.21	4,771.41	98.80	49.293	
11,700.00	7,630.00	7,764.19	7,451.55	59.22	41.75	-88.85	-804.12	6,354.75	4,893.07	4,792.71	100.36	48.757	
11,800.00	7,630.00	7,765.73	7,453.10	60.62	41.76	-88.87	-804.15	6,354.79	4,917.85	4,815.95	101.90	48.263	
11,900.00	7,630.00	7,767.31	7,454.67	62.04	41.76	-88.89	-804.19	6,354.83	4,944.53	4,841.11	103.42	47.809	
12,000.00	7,630.00	7,768.92	7,456.29	63.48	41.77	-88.91	-804.23	6,354.87	4,973.08	4,868.15	104.93	47.395	
12,100.00	7,630.00	7,770.58	7,457.95	64.93	41.77	-88.93	-804.27	6,354.92	5,003.46	4,897.05	106.41	47.019	
12,200.00	7,630.00	7,772.28	7,459.65	66.39	41.78	-88.95	-804.31	6,354.96	5,035.65	4,927.77	107.87	46.682	
12,300.00	7,630.00	7,774.03	7,461.39	67.86	41.78	-88.97	-804.35	6,355.01	5,069.60	4,960.29	109.30	46.381	
12,400.00	7,630.00	7,775.82	7,463.18	69.35	41.79	-88.99	-804.39	6,355.06	5,105.28	4,994.58	110.71	46.116	
12,500.00	7,630.00	7,777.66	7,465.02	70.85	41.79	-89.01	-804.44	6,355.11	5,142.66	5,030.59	112.08	45.885	
12,600.00	7,630.00	7,779.54	7,466.90	72.36	41.80	-89.03	-804.49	6,355.16	5,181.70	5,068.29	113.42	45.688	
12,700.00	7,630.00	7,781.48	7,468.84	73.88	41.80	-89.06	-804.54	6,355.21	5,222.37	5,107.65	114.72	45.522	
12,800.00	7,630.00	7,783.47	7,470.83	75.41	41.81	-89.08	-804.59	6,355.27	5,264.62	5,148.62	115.99	45.388	
12,900.00	7,630.00	7,785.51	7,472.87	76.95	41.81	-89.11	-804.64	6,355.33	5,308.41	5,191.18	117.23	45.283	
13,000.00	7,630.00	7,787.62	7,474.97	78.49	41.82	-89.13	-804.70	6,355.39	5,353.71	5,235.29	118.43	45.207	
13,100.00	7,630.00	7,789.78	7,477.13	80.05	41.82	-89.16	-804.75	6,355.45	5,400.49	5,280.90	119.59	45.158	
13,200.00	7,630.00	7,792.01	7,479.36	81.61	41.83	-89.18	-804.81	6,355.52	5,448.69	5,327.97	120.72	45.135 SF	
13,300.00	7,630.00	7,794.30	7,481.65	83.18	41.83	-89.21	-804.88	6,355.58	5,498.30	5,376.48	121.81	45.137	
13,400.00	7,630.00	7,796.66	7,484.00	84.76	41.84	-89.24	-804.94	6,355.65	5,549.26	5,426.39	122.87	45.163	
13,500.00	7,630.00	7,799.09	7,486.43	86.34	41.85	-89.27	-805.01	6,355.73	5,601.54	5,477.64	123.89	45.213	
13,600.00	7,630.00	7,801.45	7,488.79	87.94	41.85	-89.30	-805.08	6,355.80	5,655.10	5,530.22	124.88	45.284	
13,700.00	7,630.00	7,803.85	7,491.19	89.53	41.86	-89.33	-805.15	6,355.87	5,709.91	5,584.08	125.84	45.376	
13,800.00	7,630.00	7,806.29	7,493.62	91.13	41.87	-89.36	-805.22	6,355.95	5,765.94	5,639.18	126.76	45.488	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
13,900.00	7,630.00	7,808.77	7,496.11	92.74	41.88	-89.39	-805.30	6,356.03	5,823.14	5,695.49	127.64	45.620	
14,000.00	7,630.00	7,811.30	7,498.63	94.35	41.88	-89.42	-805.37	6,356.11	5,881.48	5,752.98	128.50	45.770	
14,100.00	7,630.00	7,813.87	7,501.20	95.97	41.89	-89.45	-805.45	6,356.19	5,940.94	5,811.61	129.33	45.938	
14,200.00	7,630.00	7,816.48	7,503.81	97.60	41.90	-89.48	-805.53	6,356.28	6,001.47	5,871.35	130.12	46.123	
14,300.00	7,630.00	7,819.14	7,506.47	99.22	41.91	-89.51	-805.61	6,356.36	6,063.04	5,932.16	130.88	46.324	
14,400.00	7,630.00	7,821.85	7,509.18	100.85	41.91	-89.54	-805.69	6,356.45	6,125.62	5,994.01	131.62	46.540	
14,500.00	7,630.00	7,824.61	7,511.93	102.49	41.92	-89.58	-805.78	6,356.54	6,189.19	6,056.86	132.33	46.772	
14,600.00	7,630.00	7,827.42	7,514.74	104.13	41.93	-89.61	-805.87	6,356.64	6,253.71	6,120.70	133.01	47.017	
14,700.00	7,630.00	7,830.29	7,517.60	105.77	41.94	-89.65	-805.96	6,356.73	6,319.15	6,185.49	133.66	47.277	
14,800.00	7,630.00	7,833.20	7,520.51	107.42	41.95	-89.68	-806.05	6,356.83	6,385.49	6,251.19	134.29	47.549	
14,900.00	7,630.00	7,836.17	7,523.48	109.07	41.95	-89.72	-806.15	6,356.93	6,452.69	6,317.79	134.90	47.834	
15,000.00	7,630.00	7,839.20	7,526.50	110.72	41.96	-89.75	-806.25	6,357.04	6,520.73	6,385.25	135.48	48.131	
15,100.00	7,630.00	7,842.28	7,529.58	112.38	41.97	-89.79	-806.35	6,357.15	6,589.58	6,453.55	136.04	48.439	
15,200.00	7,630.00	7,845.43	7,532.72	114.04	41.98	-89.83	-806.45	6,357.26	6,659.23	6,522.65	136.57	48.759	
15,300.00	7,630.00	7,848.63	7,535.92	115.71	41.99	-89.87	-806.56	6,357.37	6,729.63	6,592.54	137.09	49.089	
15,400.00	7,630.00	7,851.90	7,539.19	117.37	42.00	-89.91	-806.67	6,357.49	6,800.78	6,663.19	137.59	49.429	
15,500.00	7,630.00	7,855.23	7,542.52	119.04	42.01	-89.95	-806.79	6,357.61	6,872.64	6,734.58	138.06	49.779	
15,600.00	7,630.00	7,858.64	7,545.92	120.71	42.02	-89.99	-806.90	6,357.74	6,945.20	6,806.68	138.52	50.139	
15,700.00	7,630.00	7,862.11	7,549.38	122.39	42.03	-90.03	-807.03	6,357.87	7,018.43	6,879.47	138.96	50.507	
15,800.00	7,630.00	7,865.65	7,552.92	124.06	42.04	-90.07	-807.15	6,358.00	7,092.32	6,952.93	139.38	50.884	
15,900.00	7,630.00	7,869.27	7,556.53	125.74	42.05	-90.11	-807.28	6,358.14	7,166.83	7,027.04	139.79	51.269	
16,000.00	7,630.00	7,872.96	7,560.22	127.42	42.06	-90.16	-807.41	6,358.28	7,241.96	7,101.78	140.18	51.662	
16,100.00	7,630.00	7,876.73	7,563.98	129.10	42.07	-90.20	-807.55	6,358.43	7,317.68	7,177.13	140.55	52.063	
16,200.00	7,630.00	7,880.58	7,567.83	130.79	42.08	-90.25	-807.69	6,358.58	7,393.98	7,253.06	140.91	52.471	
16,300.00	7,630.00	7,884.51	7,571.76	132.48	42.10	-90.30	-807.84	6,358.73	7,470.83	7,329.57	141.26	52.887	
16,400.00	7,630.00	7,888.53	7,575.77	134.17	42.11	-90.35	-807.99	6,358.90	7,548.22	7,406.63	141.59	53.309	
16,500.00	7,630.00	7,893.43	7,580.66	135.86	42.12	-90.41	-808.18	6,359.09	7,626.14	7,484.22	141.92	53.737	
16,600.00	7,630.00	7,902.51	7,589.73	137.55	42.15	-90.51	-808.52	6,359.45	7,704.56	7,562.33	142.23	54.168	
16,700.00	7,630.00	7,911.31	7,598.51	139.24	42.17	-90.62	-808.85	6,359.78	7,783.48	7,640.94	142.54	54.605	
16,800.00	7,630.00	7,919.84	7,607.03	140.94	42.20	-90.72	-809.16	6,360.09	7,862.87	7,720.03	142.83	55.049	
16,900.00	7,630.00	7,928.11	7,615.29	142.64	42.22	-90.82	-809.46	6,360.37	7,942.72	7,799.60	143.12	55.498	
17,000.00	7,630.00	7,936.14	7,623.31	144.34	42.24	-90.92	-809.74	6,360.63	8,023.02	7,879.63	143.39	55.954	
17,100.00	7,630.00	7,943.93	7,631.09	146.04	42.27	-91.01	-810.02	6,360.87	8,103.76	7,960.11	143.65	56.414	
17,200.00	7,630.00	7,951.49	7,638.65	147.74	42.29	-91.10	-810.28	6,361.09	8,184.91	8,041.01	143.90	56.880	
17,300.00	7,630.00	7,958.85	7,646.00	149.44	42.31	-91.19	-810.53	6,361.30	8,266.48	8,122.34	144.14	57.350	
17,400.00	7,630.00	7,965.99	7,653.14	151.15	42.33	-91.28	-810.77	6,361.48	8,348.44	8,204.07	144.37	57.826	
17,500.00	7,630.00	7,972.94	7,660.08	152.86	42.35	-91.36	-811.00	6,361.65	8,430.79	8,286.20	144.59	58.306	
17,600.00	7,630.00	7,979.70	7,666.83	154.56	42.37	-91.44	-811.22	6,361.81	8,513.52	8,368.71	144.81	58.791	
17,700.00	7,630.00	7,986.27	7,673.40	156.27	42.39	-91.52	-811.43	6,361.96	8,596.61	8,451.60	145.02	59.281	
17,800.00	7,630.00	7,992.68	7,679.80	157.98	42.41	-91.60	-811.63	6,362.09	8,680.06	8,534.84	145.21	59.774	
17,900.00	7,630.00	7,998.91	7,686.03	159.70	42.43	-91.67	-811.83	6,362.21	8,763.85	8,618.44	145.41	60.272	
18,000.00	7,630.00	8,004.98	7,692.10	161.41	42.44	-91.75	-812.01	6,362.32	8,847.97	8,702.38	145.59	60.773	
18,100.00	7,630.00	7,995.01	7,682.13	163.12	42.41	-91.63	-811.70	6,362.13	8,932.43	8,786.70	145.74	61.292	
18,154.00	7,630.00	7,996.14	7,683.26	164.05	42.42	-91.64	-811.73	6,362.16	8,978.18	8,832.35	145.83	61.568	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	1,152.66	1,129.88	0.00	5.12	83.41	611.75	5,295.88	5,467.10				
100.00	100.00	1,215.00	1,189.69	0.13	5.49	83.53	598.85	5,283.92	5,445.30	5,440.02	5.28	1,031.690	
200.00	200.00	1,307.21	1,278.15	0.49	6.04	83.72	579.43	5,266.59	5,423.90	5,417.98	5.91	917.266	
300.00	300.00	1,582.78	1,540.82	0.85	7.75	84.34	516.27	5,212.39	5,402.36	5,394.72	7.64	707.162	
400.00	400.00	1,731.93	1,682.39	1.21	8.71	84.66	484.37	5,177.98	5,376.58	5,367.87	8.71	617.039	
500.00	500.00	1,789.81	1,737.48	1.57	9.09	84.77	472.43	5,164.85	5,351.62	5,342.29	9.33	573.397	
600.00	600.00	1,869.00	1,812.87	1.93	9.59	84.94	455.98	5,147.06	5,326.99	5,316.92	10.07	528.788	
700.00	700.00	1,934.35	1,875.27	2.29	10.00	85.07	443.03	5,132.57	5,302.86	5,292.12	10.74	493.573	
800.00	800.00	1,992.71	1,931.27	2.64	10.36	85.17	432.50	5,120.00	5,279.53	5,268.15	11.38	463.858	
900.00	900.00	2,056.00	1,992.03	3.00	10.74	85.29	420.67	5,106.81	5,256.88	5,244.84	12.05	436.427	
1,000.00	1,000.00	2,236.48	2,164.88	3.36	11.85	85.64	386.55	5,067.68	5,233.12	5,219.84	13.28	394.053	
1,100.00	1,100.00	2,342.94	2,266.83	3.72	12.51	85.84	367.07	5,043.98	5,209.22	5,195.07	14.15	368.017	
1,200.00	1,200.00	2,415.43	2,336.31	4.08	12.95	85.97	354.08	5,027.91	5,185.51	5,170.64	14.87	348.777	
1,300.00	1,300.00	2,515.53	2,432.30	4.44	13.56	86.16	336.10	5,005.92	5,162.04	5,146.33	15.71	328.526	
1,400.00	1,400.00	2,578.10	2,492.27	4.79	13.94	86.28	324.59	4,992.32	5,138.83	5,122.44	16.39	313.581	
1,500.00	1,499.98	2,655.89	2,566.89	5.15	14.42	49.01	309.88	4,975.98	5,115.17	5,098.03	17.14	298.461	
1,600.00	1,599.84	2,735.50	2,643.28	5.51	14.90	49.61	295.02	4,959.23	5,089.40	5,071.50	17.90	284.351	
1,700.00	1,699.45	2,784.22	2,690.19	5.87	15.19	50.17	286.40	4,949.30	5,062.24	5,043.73	18.51	273.479	
1,800.00	1,798.70	3,026.37	2,923.14	6.23	16.63	51.39	245.97	4,897.06	5,031.88	5,011.88	20.00	251.655	
1,900.00	1,897.47	3,084.00	2,978.52	6.60	16.98	52.13	236.40	4,884.31	4,999.01	4,978.35	20.66	241.979	
2,000.00	1,995.62	3,154.54	3,046.40	6.99	17.40	52.99	224.76	4,869.05	4,964.81	4,943.42	21.39	232.127	
2,100.00	2,093.06	3,248.84	3,136.99	7.39	17.97	54.01	208.91	4,848.23	4,928.49	4,906.25	22.24	221.592	
2,200.00	2,189.64	3,322.37	3,207.59	7.82	18.42	55.03	196.17	4,832.10	4,890.61	4,867.58	23.02	212.407	
2,300.00	2,285.27	3,396.32	3,278.54	8.28	18.87	56.12	182.78	4,816.13	4,851.39	4,827.55	23.84	203.524	
2,400.00	2,379.82	3,472.94	3,352.05	8.77	19.34	57.31	168.78	4,799.64	4,810.78	4,786.09	24.69	194.835	
2,500.00	2,473.17	3,530.20	3,407.00	9.31	19.69	58.45	158.23	4,787.51	4,769.08	4,743.59	25.49	187.100	
2,600.00	2,565.21	3,579.65	3,454.49	9.88	19.98	59.59	149.02	4,777.27	4,726.55	4,700.26	26.29	179.800	
2,660.67	2,620.37	3,606.27	3,480.09	10.25	20.14	60.29	144.05	4,771.90	4,700.45	4,673.67	26.78	175.544	
2,700.00	2,655.96	3,623.44	3,496.61	10.50	20.25	60.41	140.85	4,768.50	4,683.54	4,656.44	27.10	172.829	
2,800.00	2,746.43	3,647.00	3,519.30	11.15	20.39	60.59	136.45	4,763.90	4,641.35	4,613.51	27.84	166.692	
2,900.00	2,836.90	3,692.39	3,563.08	11.82	20.65	60.93	127.97	4,755.43	4,600.30	4,571.58	28.72	160.201	
3,000.00	2,927.37	3,741.00	3,610.10	12.50	20.93	61.29	118.90	4,747.08	4,560.68	4,531.05	29.63	153.930	
3,100.00	3,017.85	3,825.10	3,691.44	13.21	21.40	61.93	103.01	4,732.80	4,521.96	4,491.22	30.73	147.135	
3,200.00	3,108.32	4,015.93	3,875.33	13.92	22.53	63.41	67.51	4,696.22	4,481.59	4,449.23	32.37	138.469	
3,300.00	3,198.79	4,076.07	3,933.30	14.64	22.88	63.88	56.88	4,684.29	4,441.77	4,408.37	33.40	132.991	
3,400.00	3,289.27	4,153.21	4,007.84	15.38	23.32	64.48	43.85	4,669.30	4,402.81	4,368.28	34.53	127.524	
3,500.00	3,379.74	4,262.59	4,113.38	16.12	23.96	65.35	25.29	4,647.38	4,363.96	4,328.14	35.82	121.835	
3,600.00	3,470.21	4,381.07	4,227.01	16.87	24.69	66.34	2.63	4,622.62	4,325.26	4,288.05	37.20	116.269	
3,700.00	3,560.68	4,485.61	4,326.95	17.62	25.34	67.24	-17.79	4,599.72	4,286.45	4,247.90	38.55	111.196	
3,800.00	3,651.16	4,599.38	4,435.22	18.39	26.07	68.24	-41.20	4,573.81	4,247.80	4,207.82	39.98	106.255	
3,900.00	3,741.63	4,698.63	4,529.41	19.15	26.73	69.14	-61.98	4,550.40	4,209.32	4,167.96	41.36	101.767	
4,000.00	3,832.10	4,000.00	4,604.76	19.92	22.16	69.86	-77.72	4,531.40	4,171.23	4,132.99	38.23	109.100	
4,100.00	3,922.57	4,828.51	4,652.87	20.69	27.58	70.32	-87.74	4,519.37	4,134.09	4,090.25	43.84	94.305	
4,200.00	4,013.05	4,866.00	4,688.46	21.47	27.82	70.67	-95.63	4,510.65	4,098.28	4,053.31	44.97	91.139	
4,300.00	4,103.52	4,915.81	4,735.80	22.25	28.14	71.14	-106.28	4,499.38	4,063.82	4,017.64	46.17	88.011	
4,400.00	4,193.99	4,959.04	4,777.00	23.03	28.42	71.55	-115.39	4,489.97	4,030.77	3,983.41	47.36	85.112	
4,500.00	4,284.47	5,064.67	4,877.80	23.81	29.09	72.55	-137.02	4,466.97	3,998.47	3,949.61	48.86	81.828	
4,600.00	4,374.94	5,118.21	4,928.98	24.60	29.43	73.05	-147.62	4,455.37	3,967.06	3,916.94	50.12	79.157	
4,700.00	4,465.41	5,169.21	4,977.86	25.39	29.74	73.54	-157.44	4,444.66	3,936.93	3,885.58	51.36	76.657	
4,800.00	4,555.88	5,217.84	5,024.71	26.18	30.03	73.99	-166.13	4,434.94	3,908.19	3,855.61	52.59	74.321	
4,900.00	4,646.36	5,260.47	5,065.99	26.97	30.27	74.38	-173.13	4,426.90	3,880.88	3,827.10	53.78	72.166	
5,000.00	4,736.83	5,298.31	5,102.82	27.76	30.47	74.72	-178.78	4,420.33	3,855.19	3,800.25	54.94	70.173	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,827.30	5,334.00	5,137.72	28.55	30.66	75.03	-183.62	4,414.65	3,831.15	3,775.06	56.09	68.306	
5,200.00	4,917.77	5,378.13	5,181.04	29.35	30.86	75.41	-189.07	4,408.29	3,808.73	3,751.48	57.25	66.528	
5,300.00	5,008.25	5,427.00	5,229.20	30.15	31.09	75.82	-194.57	4,402.03	3,787.95	3,729.52	58.43	64.830	
5,400.00	5,098.72	5,459.68	5,261.49	30.94	31.22	76.09	-197.95	4,398.33	3,768.79	3,709.26	59.52	63.315	
5,500.00	5,189.19	5,499.76	5,301.18	31.74	31.39	76.41	-201.86	4,394.33	3,751.32	3,690.68	60.64	61.861	
5,600.00	5,279.67	5,547.69	5,348.74	32.54	31.57	76.80	-206.16	4,390.29	3,735.50	3,673.73	61.77	60.473	
5,700.00	5,370.14	5,604.39	5,405.12	33.34	31.78	77.24	-210.67	4,386.22	3,721.07	3,658.15	62.92	59.139	
5,800.00	5,460.61	5,659.65	5,460.16	34.14	31.96	77.67	-214.37	4,383.03	3,707.97	3,643.93	64.04	57.900	
5,900.00	5,551.08	5,716.34	5,516.73	34.94	32.14	78.08	-217.26	4,380.67	3,696.23	3,631.08	65.15	56.734	
6,000.00	5,641.56	5,777.88	5,578.20	35.75	32.31	78.52	-219.42	4,379.08	3,685.75	3,619.51	66.24	55.639	
6,100.00	5,732.03	5,842.71	5,643.02	36.55	32.47	78.97	-220.71	4,378.37	3,676.44	3,609.11	67.32	54.610	
6,200.00	5,822.50	5,915.64	5,715.94	37.35	32.63	79.45	-221.26	4,378.51	3,668.18	3,599.78	68.40	53.629	
6,300.00	5,912.97	6,010.15	5,810.45	38.16	32.83	80.07	-221.77	4,378.92	3,660.53	3,591.01	69.52	52.654	
6,400.00	6,003.45	6,104.64	5,904.95	38.96	33.04	80.70	-222.40	4,379.10	3,653.22	3,582.57	70.65	51.710	
6,500.00	6,093.92	6,190.28	5,990.58	39.77	33.23	81.28	-223.08	4,379.24	3,646.44	3,574.68	71.76	50.816	
6,600.00	6,184.39	6,278.91	6,079.21	40.57	33.43	81.88	-223.82	4,379.45	3,640.23	3,567.36	72.87	49.954	
6,700.00	6,274.87	6,368.56	6,168.85	41.38	33.63	82.48	-224.40	4,379.81	3,634.56	3,560.58	73.98	49.129	
6,800.00	6,365.34	6,465.82	6,266.11	42.18	33.85	83.13	-224.81	4,380.21	3,629.30	3,554.20	75.10	48.326	
6,900.00	6,455.81	6,564.78	6,365.07	42.99	34.07	83.79	-225.16	4,380.38	3,624.31	3,548.08	76.23	47.545	
7,000.00	6,546.28	6,652.49	6,452.78	43.80	34.27	84.38	-225.42	4,380.52	3,619.79	3,542.46	77.33	46.811	
7,100.00	6,636.76	6,748.82	6,549.11	44.61	34.49	85.03	-225.58	4,380.69	3,615.71	3,537.27	78.44	46.097	
7,200.00	6,727.23	6,821.79	6,622.08	45.41	34.65	85.53	-225.79	4,380.95	3,612.31	3,532.83	79.48	45.448	
7,300.00	6,817.70	6,905.27	6,705.56	46.22	34.84	86.09	-226.17	4,381.44	3,609.70	3,529.15	80.55	44.812	
7,383.79	6,893.51	6,974.28	6,774.57	46.90	34.99	86.55	-226.48	4,382.00	3,608.02	3,526.58	81.44	44.304	
7,400.00	6,908.25	6,987.57	6,787.86	47.03	35.02	84.26	-226.54	4,382.13	3,607.62	3,526.01	81.61	44.207	
7,450.00	6,954.52	7,032.46	6,832.74	47.40	35.12	75.32	-226.69	4,382.64	3,604.74	3,522.64	82.10	43.906	
7,500.00	7,001.74	7,086.82	6,887.09	47.72	35.24	63.00	-226.84	4,383.20	3,599.26	3,516.70	82.57	43.593	
7,550.00	7,049.55	7,137.76	6,938.03	47.99	35.36	47.08	-226.96	4,383.64	3,591.17	3,508.21	82.96	43.286	
7,600.00	7,097.58	7,185.50	6,985.77	48.21	35.46	29.09	-227.08	4,384.04	3,580.56	3,497.26	83.29	42.988	
7,650.00	7,145.48	7,233.15	7,033.42	48.37	35.57	11.96	-227.21	4,384.43	3,567.49	3,483.93	83.56	42.694	
7,700.00	7,192.88	7,280.35	7,080.62	48.48	35.68	-2.35	-227.37	4,384.81	3,552.05	3,468.28	83.77	42.403	
7,750.00	7,239.41	7,326.72	7,126.99	48.54	35.79	-13.65	-227.53	4,385.18	3,534.37	3,450.44	83.92	42.114	
7,800.00	7,284.72	7,371.92	7,172.19	48.56	35.89	-22.67	-227.73	4,385.52	3,514.56	3,430.54	84.02	41.829	
7,850.00	7,328.47	7,417.71	7,217.97	48.54	36.00	-30.17	-227.94	4,385.85	3,492.81	3,408.74	84.07	41.545	
7,900.00	7,370.32	7,463.22	7,263.49	48.47	36.11	-36.70	-228.16	4,386.12	3,469.27	3,385.20	84.07	41.265	
7,950.00	7,409.96	7,506.33	7,306.59	48.37	36.21	-42.65	-228.36	4,386.33	3,444.17	3,360.15	84.02	40.992	
8,000.00	7,447.08	7,546.70	7,346.96	48.24	36.31	-48.25	-228.55	4,386.48	3,417.74	3,333.83	83.91	40.731	
8,050.00	7,481.41	7,584.03	7,384.29	48.07	36.40	-53.62	-228.73	4,386.59	3,390.25	3,306.51	83.75	40.482	
8,100.00	7,512.67	7,610.56	7,410.82	47.87	36.47	-58.72	-228.86	4,386.67	3,362.04	3,278.53	83.51	40.257	
8,150.00	7,540.64	7,635.23	7,435.49	47.65	36.53	-63.67	-228.99	4,386.77	3,333.40	3,250.17	83.23	40.048	
8,200.00	7,565.09	7,656.88	7,457.14	47.40	36.58	-68.43	-229.11	4,386.89	3,304.62	3,221.71	82.91	39.858	
8,250.00	7,585.85	7,675.65	7,475.91	47.14	36.63	-72.95	-229.22	4,387.00	3,275.99	3,193.45	82.54	39.689	
8,300.00	7,602.75	7,692.83	7,493.09	46.86	36.67	-77.23	-229.32	4,387.11	3,247.79	3,165.65	82.14	39.541	
8,350.00	7,615.67	7,705.99	7,506.24	46.58	36.70	-81.15	-229.39	4,387.20	3,220.29	3,138.60	81.69	39.419	
8,400.00	7,624.51	7,715.04	7,515.30	46.28	36.72	-84.67	-229.43	4,387.26	3,193.80	3,112.58	81.22	39.323	
8,450.00	7,629.19	7,719.93	7,520.19	45.98	36.74	-87.76	-229.45	4,387.30	3,168.56	3,087.84	80.72	39.255	
8,481.00	7,630.00	7,720.87	7,521.13	45.79	36.74	-89.45	-229.46	4,387.31	3,153.65	3,073.26	80.39	39.228	
8,500.00	7,630.00	7,720.96	7,521.21	45.68	36.74	-89.45	-229.46	4,387.31	3,144.75	3,064.56	80.19	39.216	
8,600.00	7,630.00	7,721.40	7,521.65	45.11	36.74	-89.46	-229.46	4,387.31	3,099.38	3,020.25	79.14	39.164	
8,700.00	7,630.00	7,721.83	7,522.09	44.56	36.74	-89.47	-229.46	4,387.31	3,056.62	2,978.52	78.10	39.138	
8,800.00	7,630.00	7,722.27	7,522.52	44.05	36.74	-89.48	-229.46	4,387.32	3,016.57	2,939.48	77.09	39.132	
8,900.00	7,630.00	7,722.70	7,522.96	43.57	36.74	-89.48	-229.47	4,387.32	2,979.33	2,903.22	76.11	39.145	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,000.00	7,630.00	7,723.13	7,523.38	43.12	36.74	-89.49	-229.47	4,387.32	2,945.02	2,869.83	75.19	39.169	
9,100.00	7,630.00	7,723.55	7,523.81	42.70	36.74	-89.50	-229.47	4,387.33	2,913.74	2,839.41	74.33	39.198	
9,200.00	7,630.00	7,723.98	7,524.23	42.31	36.75	-89.51	-229.47	4,387.33	2,885.59	2,812.03	73.56	39.227	
9,300.00	7,630.00	7,724.40	7,524.65	41.94	36.75	-89.52	-229.47	4,387.33	2,860.66	2,787.77	72.89	39.247	
9,400.00	7,630.00	7,724.81	7,525.07	41.59	36.75	-89.53	-229.48	4,387.33	2,839.03	2,766.70	72.33	39.253	
9,500.00	7,630.00	7,725.23	7,525.48	41.26	36.75	-89.54	-229.48	4,387.34	2,820.79	2,748.89	71.89	39.237	
9,600.00	7,630.00	7,725.64	7,525.90	40.96	36.75	-89.54	-229.48	4,387.34	2,805.99	2,734.40	71.59	39.195	
9,700.00	7,630.00	7,726.05	7,526.31	40.68	36.75	-89.55	-229.48	4,387.34	2,794.69	2,723.26	71.43	39.124	
9,800.00	7,630.00	7,726.46	7,526.71	40.42	36.75	-89.56	-229.48	4,387.35	2,786.94	2,715.52	71.42	39.024	
9,900.00	7,630.00	7,726.86	7,527.12	40.17	36.75	-89.57	-229.48	4,387.35	2,782.76	2,711.22	71.55	38.895	
9,966.33	7,630.00	7,727.13	7,527.38	40.01	36.75	-89.58	-229.49	4,387.35	2,781.97	2,710.26	71.72	38.791	CC, ES
10,000.00	7,630.00	7,727.26	7,527.52	39.96	36.75	-89.58	-229.49	4,387.35	2,782.18	2,710.36	71.81	38.742	
10,100.00	7,630.00	7,727.66	7,527.92	40.05	36.75	-89.59	-229.49	4,387.36	2,785.18	2,712.97	72.21	38.569	
10,200.00	7,630.00	7,728.06	7,528.32	40.95	36.76	-89.59	-229.49	4,387.36	2,791.77	2,719.04	72.73	38.385	
10,300.00	7,630.00	7,728.45	7,528.71	41.94	36.76	-89.60	-229.49	4,387.36	2,801.91	2,728.55	73.36	38.195	
10,400.00	7,630.00	7,728.85	7,529.10	42.98	36.76	-89.61	-229.49	4,387.36	2,815.57	2,741.49	74.08	38.008	
10,500.00	7,630.00	7,729.24	7,529.49	44.06	36.76	-89.62	-229.49	4,387.37	2,832.70	2,757.82	74.88	37.831	
10,600.00	7,630.00	7,729.62	7,529.88	45.17	36.76	-89.63	-229.50	4,387.37	2,853.23	2,777.48	75.74	37.670	
10,700.00	7,630.00	7,730.01	7,530.26	46.32	36.76	-89.63	-229.50	4,387.37	2,877.09	2,800.43	76.66	37.530	
10,800.00	7,630.00	7,730.39	7,530.65	47.50	36.76	-89.64	-229.50	4,387.38	2,904.20	2,826.58	77.62	37.417	
10,900.00	7,630.00	7,730.77	7,531.03	48.70	36.76	-89.65	-229.50	4,387.38	2,934.47	2,855.87	78.60	37.334	
11,000.00	7,630.00	7,731.15	7,531.40	49.94	36.76	-89.66	-229.50	4,387.38	2,967.80	2,888.20	79.60	37.284	
11,100.00	7,630.00	7,731.52	7,531.78	51.20	36.76	-89.67	-229.50	4,387.38	3,004.09	2,923.48	80.61	37.267	SF
11,200.00	7,630.00	7,731.90	7,532.15	52.48	36.76	-89.67	-229.51	4,387.39	3,043.24	2,961.62	81.62	37.287	
11,300.00	7,630.00	7,732.27	7,532.52	53.79	36.77	-89.68	-229.51	4,387.39	3,085.13	3,002.51	82.62	37.342	
11,400.00	7,630.00	7,732.64	7,532.89	55.12	36.77	-89.69	-229.51	4,387.39	3,129.66	3,046.05	83.61	37.432	
11,500.00	7,630.00	7,733.00	7,533.26	56.46	36.77	-89.70	-229.51	4,387.40	3,176.71	3,092.13	84.58	37.558	
11,600.00	7,630.00	7,733.37	7,533.63	57.83	36.77	-89.70	-229.51	4,387.40	3,226.18	3,140.65	85.53	37.719	
11,700.00	7,630.00	7,733.73	7,533.99	59.22	36.77	-89.71	-229.51	4,387.40	3,277.95	3,191.49	86.46	37.913	
11,800.00	7,630.00	7,734.09	7,534.35	60.62	36.77	-89.72	-229.51	4,387.40	3,331.92	3,244.56	87.36	38.140	
11,900.00	7,630.00	7,734.45	7,534.71	62.04	36.77	-89.73	-229.52	4,387.41	3,387.98	3,299.75	88.23	38.397	
12,000.00	7,630.00	7,734.81	7,535.06	63.48	36.77	-89.73	-229.52	4,387.41	3,446.03	3,356.95	89.08	38.685	
12,100.00	7,630.00	7,735.16	7,535.42	64.93	36.77	-89.74	-229.52	4,387.41	3,505.98	3,416.08	89.90	39.001	
12,200.00	7,630.00	7,735.51	7,535.77	66.39	36.77	-89.75	-229.52	4,387.41	3,567.72	3,477.03	90.68	39.343	
12,300.00	7,630.00	7,735.86	7,536.12	67.86	36.77	-89.76	-229.52	4,387.42	3,631.16	3,539.72	91.44	39.712	
12,400.00	7,630.00	7,736.21	7,536.47	69.35	36.78	-89.76	-229.52	4,387.42	3,696.22	3,604.06	92.16	40.105	
12,500.00	7,630.00	7,736.55	7,536.81	70.85	36.78	-89.77	-229.52	4,387.42	3,762.82	3,669.95	92.86	40.521	
12,600.00	7,630.00	7,736.90	7,537.15	72.36	36.78	-89.78	-229.53	4,387.43	3,830.86	3,737.33	93.53	40.959	
12,700.00	7,630.00	7,737.24	7,537.50	73.88	36.78	-89.78	-229.53	4,387.43	3,900.29	3,806.12	94.17	41.417	
12,800.00	7,630.00	7,737.58	7,537.84	75.41	36.78	-89.79	-229.53	4,387.43	3,971.02	3,876.23	94.78	41.896	
12,900.00	7,630.00	7,737.92	7,538.17	76.95	36.78	-89.80	-229.53	4,387.43	4,042.98	3,947.61	95.37	42.392	
13,000.00	7,630.00	7,738.25	7,538.51	78.49	36.78	-89.80	-229.53	4,387.44	4,116.12	4,020.18	95.93	42.906	
13,100.00	7,630.00	7,738.59	7,538.84	80.05	36.78	-89.81	-229.53	4,387.44	4,190.36	4,093.89	96.47	43.436	
13,200.00	7,630.00	7,738.92	7,539.18	81.61	36.78	-89.82	-229.53	4,387.44	4,265.66	4,168.68	96.99	43.982	
13,300.00	7,630.00	7,739.25	7,539.51	83.18	36.78	-89.83	-229.53	4,387.44	4,341.96	4,244.48	97.48	44.543	
13,400.00	7,630.00	7,739.58	7,539.84	84.76	36.78	-89.83	-229.54	4,387.45	4,419.20	4,321.25	97.95	45.117	
13,500.00	7,630.00	7,739.91	7,540.16	86.34	36.78	-89.84	-229.54	4,387.45	4,497.34	4,398.94	98.40	45.705	
13,600.00	7,630.00	7,740.23	7,540.49	87.94	36.79	-89.85	-229.54	4,387.45	4,576.33	4,477.50	98.83	46.305	
13,700.00	7,630.00	7,740.55	7,540.81	89.53	36.79	-89.85	-229.54	4,387.45	4,656.12	4,556.88	99.24	46.916	
13,800.00	7,630.00	7,740.87	7,541.13	91.13	36.79	-89.86	-229.54	4,387.46	4,736.69	4,637.05	99.64	47.539	
13,900.00	7,630.00	7,741.19	7,541.45	92.74	36.79	-89.87	-229.54	4,387.46	4,817.98	4,717.96	100.02	48.172	
14,000.00	7,630.00	7,741.51	7,541.77	94.35	36.79	-89.87	-229.54	4,387.46	4,899.97	4,799.59	100.38	48.815	

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

Offset Design SEC 23-T1N-R68W - EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 109-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	7,741.83	7,542.08	95.97	36.79	-89.88	-229.54	4,387.46	4,982.61	4,881.88	100.72	49.467	
14,200.00	7,630.00	7,742.14	7,542.40	97.60	36.79	-89.88	-229.55	4,387.47	5,065.88	4,964.82	101.06	50.129	
14,300.00	7,630.00	7,742.45	7,542.71	99.22	36.79	-89.89	-229.55	4,387.47	5,149.74	5,048.36	101.38	50.798	
14,400.00	7,630.00	7,742.76	7,543.02	100.85	36.79	-89.90	-229.55	4,387.47	5,234.17	5,132.49	101.68	51.476	
14,500.00	7,630.00	7,743.07	7,543.33	102.49	36.79	-89.90	-229.55	4,387.47	5,319.14	5,217.17	101.98	52.161	
14,600.00	7,630.00	7,743.38	7,543.64	104.13	36.79	-89.91	-229.55	4,387.47	5,404.63	5,302.37	102.26	52.853	
14,700.00	7,630.00	7,743.69	7,543.94	105.77	36.79	-89.92	-229.55	4,387.48	5,490.60	5,388.07	102.53	53.552	
14,800.00	7,630.00	7,743.99	7,544.25	107.42	36.79	-89.92	-229.55	4,387.48	5,577.05	5,474.26	102.79	54.257	
14,900.00	7,630.00	7,744.29	7,544.55	109.07	36.79	-89.93	-229.55	4,387.48	5,663.94	5,560.90	103.04	54.969	
15,000.00	7,630.00	7,744.59	7,544.85	110.72	36.80	-89.94	-229.55	4,387.48	5,751.25	5,647.97	103.28	55.686	
15,100.00	7,630.00	7,744.89	7,545.15	112.38	36.80	-89.94	-229.56	4,387.49	5,838.97	5,735.46	103.51	56.409	
15,200.00	7,630.00	7,745.19	7,545.44	114.04	36.80	-89.95	-229.56	4,387.49	5,927.08	5,823.35	103.74	57.137	
15,300.00	7,630.00	7,745.48	7,545.74	115.71	36.80	-89.95	-229.56	4,387.49	6,015.57	5,911.62	103.95	57.870	
15,400.00	7,630.00	7,745.78	7,546.04	117.37	36.80	-89.96	-229.56	4,387.49	6,104.41	6,000.25	104.16	58.607	
15,500.00	7,630.00	7,746.07	7,546.33	119.04	36.80	-89.97	-229.56	4,387.50	6,193.58	6,089.23	104.36	59.349	
15,600.00	7,630.00	7,746.36	7,546.62	120.71	36.80	-89.97	-229.56	4,387.50	6,283.09	6,178.54	104.55	60.095	
15,700.00	7,630.00	7,746.65	7,546.91	122.39	36.80	-89.98	-229.56	4,387.50	6,372.91	6,268.17	104.74	60.846	
15,800.00	7,630.00	7,746.94	7,547.20	124.06	36.80	-89.98	-229.56	4,387.50	6,463.02	6,358.10	104.92	61.600	
15,900.00	7,630.00	7,747.23	7,547.48	125.74	36.80	-89.99	-229.56	4,387.50	6,553.42	6,448.33	105.09	62.357	
16,000.00	7,630.00	7,747.51	7,547.77	127.42	36.80	-90.00	-229.57	4,387.51	6,644.10	6,538.84	105.26	63.119	
16,100.00	7,630.00	7,747.80	7,548.05	129.10	36.80	-90.00	-229.57	4,387.51	6,735.04	6,629.62	105.43	63.883	
16,200.00	7,630.00	7,748.08	7,548.33	130.79	36.80	-90.01	-229.57	4,387.51	6,826.24	6,720.65	105.59	64.651	
16,300.00	7,630.00	7,748.36	7,548.61	132.48	36.80	-90.01	-229.57	4,387.51	6,917.68	6,811.94	105.74	65.421	
16,400.00	7,630.00	7,748.64	7,548.89	134.17	36.81	-90.02	-229.57	4,387.52	7,009.35	6,903.46	105.89	66.195	
16,500.00	7,630.00	7,748.91	7,549.17	135.86	36.81	-90.02	-229.57	4,387.52	7,101.24	6,995.21	106.03	66.971	
16,600.00	7,630.00	7,749.19	7,549.45	137.55	36.81	-90.03	-229.57	4,387.52	7,193.36	7,087.18	106.18	67.750	
16,700.00	7,630.00	7,749.47	7,549.72	139.24	36.81	-90.04	-229.57	4,387.52	7,285.68	7,179.37	106.31	68.531	
16,800.00	7,630.00	7,749.74	7,550.00	140.94	36.81	-90.04	-229.57	4,387.52	7,378.20	7,271.75	106.45	69.314	
16,900.00	7,630.00	7,750.01	7,550.27	142.64	36.81	-90.05	-229.57	4,387.53	7,470.91	7,364.34	106.58	70.100	
17,000.00	7,630.00	7,750.28	7,550.54	144.34	36.81	-90.05	-229.58	4,387.53	7,563.81	7,457.11	106.70	70.887	
17,100.00	7,630.00	7,750.55	7,550.81	146.04	36.81	-90.06	-229.58	4,387.53	7,656.89	7,550.07	106.82	71.677	
17,200.00	7,630.00	7,750.82	7,551.07	147.74	36.81	-90.06	-229.58	4,387.53	7,750.14	7,643.20	106.94	72.469	
17,300.00	7,630.00	7,751.09	7,551.34	149.44	36.81	-90.07	-229.58	4,387.53	7,843.56	7,736.50	107.06	73.262	
17,400.00	7,630.00	7,751.35	7,551.61	151.15	36.81	-90.07	-229.58	4,387.54	7,937.14	7,829.96	107.18	74.057	
17,500.00	7,630.00	7,751.61	7,551.87	152.86	36.81	-90.08	-229.58	4,387.54	8,030.87	7,923.58	107.29	74.853	
17,600.00	7,630.00	7,751.88	7,552.13	154.56	36.81	-90.09	-229.58	4,387.54	8,124.75	8,017.35	107.40	75.652	
17,700.00	7,630.00	7,752.14	7,552.39	156.27	36.81	-90.09	-229.58	4,387.54	8,218.78	8,111.27	107.50	76.451	
17,800.00	7,630.00	7,752.40	7,552.65	157.98	36.81	-90.10	-229.58	4,387.55	8,312.94	8,205.33	107.61	77.252	
17,900.00	7,630.00	7,752.66	7,552.91	159.70	36.82	-90.10	-229.58	4,387.55	8,407.24	8,299.53	107.71	78.054	
18,000.00	7,630.00	7,752.91	7,553.17	161.41	36.82	-90.11	-229.58	4,387.55	8,501.67	8,393.86	107.81	78.858	
18,100.00	7,630.00	7,753.17	7,553.43	163.12	36.82	-90.11	-229.59	4,387.55	8,596.23	8,488.32	107.91	79.662	
18,154.00	7,630.00	7,753.31	7,553.56	164.05	36.82	-90.11	-229.59	4,387.55	8,647.34	8,539.38	107.96	80.097	

Anticollision Report

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

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 122-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	133.33	-2,069.79	2,194.28	3,016.81				
100.00	100.00	70.78	70.78	0.13	0.12	133.33	-2,069.69	2,194.10	3,016.28	3,016.03	0.25	N/A	
200.00	200.00	184.26	184.26	0.49	0.42	133.33	-2,069.12	2,193.18	3,015.34	3,014.43	0.91	3,299.063	
300.00	300.00	299.56	299.55	0.85	0.83	133.33	-2,068.14	2,192.16	3,014.12	3,012.43	1.69	1,788.080	
400.00	400.00	395.02	394.99	1.21	1.18	133.33	-2,067.14	2,191.15	3,012.64	3,010.25	2.39	1,262.656	
500.00	500.00	484.62	484.58	1.57	1.50	133.32	-2,066.04	2,190.69	3,011.42	3,008.35	3.06	983.277	
600.00	600.00	646.01	645.93	1.93	2.07	133.30	-2,062.63	2,189.02	3,009.14	3,005.14	4.00	752.728	
700.00	700.00	766.15	765.99	2.29	2.51	133.28	-2,059.01	2,186.73	3,005.67	3,000.88	4.79	627.951	
800.00	800.00	856.40	856.17	2.64	2.83	133.25	-2,055.90	2,185.22	3,002.09	2,996.62	5.47	548.989	
900.00	900.00	1,740.52	1,725.17	3.00	6.52	132.87	-1,945.05	2,095.43	2,989.10	2,980.20	8.91	335.572	
1,000.00	1,000.00	2,024.68	1,993.85	3.36	8.15	132.68	-1,875.73	2,034.47	2,956.49	2,946.23	10.25	288.318	
1,100.00	1,100.00	2,175.31	2,134.17	3.72	9.11	132.55	-1,834.44	1,998.48	2,920.28	2,909.13	11.15	261.879	
1,200.00	1,200.00	2,227.85	2,183.14	4.08	9.46	132.51	-1,820.25	1,985.81	2,884.09	2,872.36	11.73	245.924	
1,300.00	1,300.00	2,306.07	2,256.27	4.44	9.97	132.45	-1,799.70	1,967.15	2,848.71	2,836.32	12.39	229.876	
1,400.00	1,400.00	2,392.47	2,337.15	4.79	10.54	132.41	-1,777.59	1,946.28	2,813.61	2,800.52	13.09	214.983	
1,500.00	1,499.98	2,478.99	2,418.19	5.15	11.11	95.30	-1,754.94	1,926.17	2,778.89	2,765.11	13.78	201.593	
1,600.00	1,599.84	2,583.42	2,516.02	5.51	11.81	96.06	-1,727.16	1,902.43	2,744.60	2,730.06	14.54	188.746	
1,700.00	1,699.45	2,686.34	2,612.21	5.87	12.51	96.92	-1,699.81	1,878.10	2,709.98	2,694.69	15.30	177.164	
1,800.00	1,798.70	2,769.03	2,689.53	6.23	13.08	97.81	-1,677.85	1,858.69	2,675.93	2,659.93	15.99	167.302	
1,900.00	1,897.47	2,884.78	2,797.80	6.60	13.87	98.85	-1,646.74	1,832.10	2,642.57	2,625.77	16.80	157.250	
2,000.00	1,995.62	3,028.26	2,931.08	6.99	14.89	100.14	-1,606.97	1,796.86	2,607.92	2,590.21	17.71	147.261	
2,100.00	2,093.06	3,117.16	3,013.36	7.39	15.54	101.30	-1,581.76	1,774.55	2,573.22	2,554.75	18.47	139.320	
2,200.00	2,189.64	3,184.04	3,075.43	7.82	16.02	102.38	-1,563.40	1,757.74	2,539.94	2,520.75	19.19	132.358	
2,300.00	2,285.27	3,278.66	3,163.41	8.28	16.71	103.69	-1,537.67	1,734.30	2,508.05	2,488.04	20.02	125.304	
2,400.00	2,379.82	3,378.27	3,255.91	8.77	17.43	105.10	-1,510.09	1,709.67	2,476.98	2,456.09	20.89	118.590	
2,500.00	2,473.17	3,495.99	3,364.90	9.31	18.30	106.76	-1,477.16	1,679.78	2,446.57	2,424.73	21.84	112.023	
2,600.00	2,565.21	3,598.84	3,459.62	9.88	19.07	108.36	-1,447.22	1,653.14	2,416.47	2,393.68	22.79	106.015	
2,660.67	2,620.37	3,636.38	3,494.24	10.25	19.36	109.09	-1,436.27	1,643.61	2,399.22	2,375.89	23.33	102.823	
2,700.00	2,655.96	3,665.00	3,520.69	10.50	19.57	109.40	-1,427.98	1,636.49	2,388.49	2,364.79	23.70	100.774	
2,800.00	2,746.43	3,718.23	3,570.06	11.15	19.96	109.98	-1,412.90	1,623.50	2,362.40	2,337.78	24.61	95.984	
2,900.00	2,836.90	3,786.09	3,633.30	11.82	20.45	110.72	-1,394.38	1,607.28	2,338.11	2,312.53	25.58	91.400	
3,000.00	2,927.37	3,894.74	3,734.50	12.50	21.24	111.93	-1,364.38	1,581.56	2,314.58	2,287.92	26.66	86.815	
3,100.00	3,017.85	3,997.56	3,829.81	13.21	22.00	113.11	-1,335.72	1,555.73	2,290.74	2,262.99	27.74	82.566	
3,200.00	3,108.32	4,075.41	3,902.00	13.92	22.58	114.02	-1,313.71	1,536.61	2,267.81	2,239.02	28.79	78.765	
3,300.00	3,198.79	4,149.55	3,970.92	14.64	23.12	114.88	-1,292.78	1,519.03	2,246.21	2,216.36	29.85	75.261	
3,400.00	3,289.27	4,228.87	4,044.77	15.38	23.70	115.81	-1,270.76	1,500.28	2,225.86	2,194.93	30.92	71.983	
3,500.00	3,379.74	4,335.33	4,143.81	16.12	24.47	117.08	-1,240.98	1,475.03	2,206.20	2,174.14	32.06	68.816	
3,600.00	3,470.21	4,430.89	4,232.49	16.87	25.18	118.25	-1,213.86	1,451.96	2,186.89	2,153.70	33.19	65.895	
3,700.00	3,560.68	4,501.31	4,297.90	17.62	25.70	119.12	-1,194.08	1,434.92	2,168.73	2,134.44	34.29	63.254	
3,800.00	3,651.16	4,563.99	4,356.30	18.39	26.15	119.90	-1,176.87	1,420.05	2,152.27	2,116.89	35.38	60.837	
3,900.00	3,741.63	4,622.56	4,411.13	19.15	26.57	120.64	-1,161.38	1,406.49	2,137.89	2,101.42	36.47	58.625	
4,000.00	3,832.10	4,675.75	4,461.22	19.92	26.93	121.31	-1,147.94	1,394.65	2,125.84	2,088.30	37.55	56.621	
4,100.00	3,922.57	4,729.76	4,512.37	20.69	27.29	121.99	-1,134.95	1,383.15	2,116.23	2,077.61	38.62	54.795	
4,200.00	4,013.05	4,784.59	4,564.57	21.47	27.64	122.68	-1,122.45	1,372.00	2,109.03	2,069.34	39.69	53.136	
4,300.00	4,103.52	4,833.25	4,611.15	22.25	27.94	123.28	-1,111.99	1,362.59	2,104.35	2,063.61	40.73	51.662	
4,400.00	4,193.99	4,893.00	4,668.74	23.03	28.29	124.02	-1,100.24	1,351.85	2,102.50	2,060.71	41.79	50.308	
4,422.84	4,214.66	4,893.00	4,668.74	23.21	28.29	124.02	-1,100.24	1,351.85	2,102.38	2,060.38	41.99	50.064	
4,500.00	4,284.47	4,940.68	4,714.92	23.81	28.55	124.60	-1,091.48	1,343.83	2,103.06	2,060.26	42.80	49.140	
4,600.00	4,374.94	5,003.56	4,775.99	24.60	28.89	125.36	-1,080.33	1,333.86	2,105.69	2,061.86	43.83	48.040	
4,700.00	4,465.41	5,059.17	4,830.22	25.39	29.17	126.02	-1,071.16	1,325.56	2,110.58	2,065.76	44.82	47.086	
4,800.00	4,555.88	5,119.17	4,888.92	26.18	29.47	126.72	-1,062.08	1,317.15	2,117.77	2,071.96	45.81	46.229	
4,900.00	4,646.36	5,176.00	4,944.67	26.97	29.74	127.38	-1,054.04	1,309.64	2,127.01	2,080.24	46.77	45.482	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,736.83	5,226.60	4,994.51	27.76	29.96	127.95	-1,047.56	1,303.72	2,138.63	2,090.97	47.66	44.871	
5,100.00	4,827.30	5,270.00	5,037.43	28.55	30.14	128.42	-1,042.68	1,299.56	2,152.91	2,104.41	48.50	44.389	
5,200.00	4,917.77	5,330.06	5,097.01	29.35	30.36	129.04	-1,036.81	1,294.81	2,169.50	2,120.13	49.37	43.943	
5,300.00	5,008.25	5,387.24	5,153.86	30.15	30.56	129.61	-1,032.00	1,291.05	2,188.21	2,138.00	50.20	43.589	
5,400.00	5,098.72	5,445.93	5,212.33	30.94	30.76	130.18	-1,027.79	1,288.04	2,208.87	2,157.87	51.01	43.304	
5,500.00	5,189.19	5,506.61	5,272.85	31.74	30.94	130.74	-1,024.15	1,285.86	2,231.40	2,179.61	51.80	43.081	
5,600.00	5,279.67	5,553.00	5,319.17	32.54	31.07	131.15	-1,021.80	1,284.87	2,255.73	2,203.25	52.48	42.979	
5,700.00	5,370.14	5,619.68	5,385.81	33.34	31.24	131.72	-1,019.37	1,284.06	2,281.82	2,228.57	53.25	42.853	
5,800.00	5,460.61	5,679.01	5,445.12	34.14	31.38	132.21	-1,018.27	1,283.61	2,309.84	2,255.89	53.95	42.814	
5,900.00	5,551.08	5,746.05	5,512.16	34.94	31.54	132.77	-1,017.77	1,283.17	2,339.31	2,284.63	54.68	42.784	
6,000.00	5,641.56	5,836.22	5,602.32	35.75	31.74	133.49	-1,017.49	1,282.93	2,369.61	2,314.09	55.52	42.680	
6,100.00	5,732.03	5,947.21	5,713.31	36.55	31.99	134.35	-1,016.69	1,282.51	2,399.91	2,343.43	56.47	42.495	
6,200.00	5,822.50	6,032.12	5,798.22	37.35	32.20	135.01	-1,015.93	1,281.83	2,430.37	2,373.09	57.28	42.429	
6,300.00	5,912.97	6,125.87	5,891.95	38.16	32.42	135.72	-1,015.06	1,280.95	2,461.14	2,403.02	58.13	42.340	
6,400.00	6,003.45	6,217.73	5,976.35	38.96	32.65	136.35	-1,014.33	1,280.03	2,492.33	2,433.39	58.94	42.289	
6,500.00	6,093.92	6,300.67	6,066.74	39.77	32.85	137.01	-1,013.67	1,278.96	2,523.95	2,464.22	59.73	42.258	
6,600.00	6,184.39	6,394.74	6,160.80	40.57	33.08	137.68	-1,012.92	1,277.88	2,555.83	2,495.28	60.56	42.207	
6,700.00	6,274.87	6,480.78	6,246.83	41.38	33.29	138.27	-1,012.22	1,277.05	2,588.02	2,526.69	61.33	42.199	
6,800.00	6,365.34	6,565.13	6,331.18	42.18	33.50	138.84	-1,011.71	1,276.47	2,620.70	2,558.62	62.08	42.212	
6,900.00	6,455.81	6,653.71	6,419.76	42.99	33.71	139.41	-1,011.33	1,276.38	2,653.83	2,590.97	62.85	42.223	
7,000.00	6,546.28	6,745.39	6,511.44	43.80	33.93	139.97	-1,010.94	1,276.84	2,687.20	2,623.57	63.63	42.232	
7,100.00	6,636.76	6,845.87	6,611.92	44.61	34.18	140.59	-1,010.36	1,276.65	2,720.69	2,656.23	64.46	42.209	
7,200.00	6,727.23	6,932.65	6,698.69	45.41	34.40	141.12	-1,009.62	1,276.32	2,754.18	2,688.97	65.21	42.238	
7,300.00	6,817.70	7,020.49	6,786.53	46.22	34.62	141.64	-1,009.13	1,275.93	2,788.17	2,722.22	65.95	42.274	
7,383.79	6,893.51	7,100.45	6,866.48	46.90	34.82	142.10	-1,008.61	1,275.79	2,816.75	2,750.13	66.61	42.285	
7,400.00	6,908.25	7,115.79	6,881.83	47.03	34.86	139.81	-1,008.50	1,275.80	2,822.07	2,755.33	66.74	42.285	
7,450.00	6,954.52	7,164.18	6,930.22	47.40	34.98	131.04	-1,008.14	1,275.94	2,835.73	2,768.61	67.13	42.244	
7,500.00	7,001.74	7,215.17	6,981.20	47.72	35.11	119.13	-1,007.70	1,276.13	2,845.18	2,777.65	67.52	42.136	
7,550.00	7,049.55	7,266.75	7,032.78	47.99	35.24	103.92	-1,007.20	1,276.27	2,850.31	2,782.40	67.91	41.972	
7,600.00	7,097.58	7,314.18	7,080.20	48.21	35.37	86.94	-1,006.71	1,276.23	2,851.14	2,782.88	68.26	41.767	
7,650.00	7,145.48	7,366.82	7,132.84	48.37	35.51	71.16	-1,006.12	1,275.98	2,847.68	2,779.05	68.63	41.494	
7,700.00	7,192.88	7,429.66	7,195.67	48.48	35.68	58.62	-1,005.15	1,275.43	2,839.76	2,770.73	69.04	41.135	
7,750.00	7,239.41	7,481.53	7,247.53	48.54	35.82	49.39	-1,004.12	1,274.78	2,827.48	2,758.11	69.37	40.762	
7,800.00	7,284.72	7,529.22	7,295.20	48.56	35.96	42.81	-1,003.10	1,273.98	2,811.05	2,741.40	69.65	40.357	
7,850.00	7,328.47	7,565.91	7,331.87	48.54	36.06	38.10	-1,002.32	1,273.31	2,790.69	2,720.82	69.87	39.943	
7,900.00	7,370.32	7,599.33	7,365.28	48.47	36.15	34.77	-1,001.72	1,272.84	2,766.64	2,696.59	70.05	39.495	
7,950.00	7,409.96	7,631.00	7,396.95	48.37	36.24	32.46	-1,001.25	1,272.52	2,739.06	2,668.85	70.21	39.011	
8,000.00	7,447.08	7,657.04	7,422.99	48.24	36.31	30.91	-1,000.96	1,272.44	2,708.18	2,637.85	70.33	38.508	
8,050.00	7,481.41	7,681.35	7,447.30	48.07	36.37	30.02	-1,000.82	1,272.61	2,674.21	2,603.78	70.43	37.971	
8,100.00	7,512.67	7,703.82	7,469.76	47.87	36.42	29.72	-1,000.79	1,272.98	2,637.37	2,566.86	70.52	37.401	
8,150.00	7,540.64	7,725.00	7,490.94	47.65	36.48	30.05	-1,000.85	1,273.51	2,597.92	2,527.32	70.60	36.799	
8,200.00	7,565.09	7,747.58	7,513.51	47.40	36.53	31.15	-1,000.96	1,274.11	2,556.08	2,485.39	70.69	36.160	
8,250.00	7,585.85	7,767.58	7,533.50	47.14	36.58	33.21	-1,001.06	1,274.55	2,512.12	2,441.35	70.77	35.497	
8,300.00	7,602.75	7,783.86	7,549.78	46.86	36.61	36.64	-1,001.13	1,274.83	2,466.37	2,395.53	70.84	34.817	
8,350.00	7,615.67	7,796.32	7,562.25	46.58	36.64	42.36	-1,001.19	1,275.01	2,419.17	2,348.28	70.90	34.122	
8,400.00	7,624.51	7,804.90	7,570.83	46.28	36.66	52.34	-1,001.23	1,275.11	2,370.87	2,299.92	70.95	33.417	
8,450.00	7,629.19	7,809.54	7,575.47	45.98	36.67	70.81	-1,001.25	1,275.16	2,321.81	2,250.82	70.99	32.706	
8,481.00	7,630.00	7,810.43	7,576.36	45.79	36.67	88.84	-1,001.25	1,275.17	2,291.17	2,220.16	71.01	32.264	
8,500.00	7,630.00	7,810.51	7,576.43	45.68	36.67	88.85	-1,001.25	1,275.17	2,272.37	2,201.34	71.03	31.993	
8,600.00	7,630.00	7,810.92	7,576.84	45.11	36.68	88.92	-1,001.25	1,275.17	2,173.46	2,102.36	71.10	30.568	
8,700.00	7,630.00	7,811.32	7,577.25	44.56	36.68	88.99	-1,001.26	1,275.18	2,074.66	2,003.47	71.19	29.144	
8,800.00	7,630.00	7,811.73	7,577.65	44.05	36.68	89.06	-1,001.26	1,275.18	1,975.98	1,904.69	71.28	27.720	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	7,812.14	7,578.06	43.57	36.68	89.14	-1,001.26	1,275.18	1,877.43	1,806.04	71.39	26.298	
9,000.00	7,630.00	7,812.54	7,578.46	43.12	36.68	89.21	-1,001.26	1,275.19	1,779.06	1,707.54	71.51	24.877	
9,100.00	7,630.00	7,812.94	7,578.87	42.70	36.68	89.28	-1,001.26	1,275.19	1,680.87	1,609.21	71.65	23.458	
9,200.00	7,630.00	7,813.35	7,579.27	42.31	36.68	89.35	-1,001.27	1,275.20	1,582.91	1,511.09	71.81	22.042	
9,300.00	7,630.00	7,813.75	7,579.67	41.94	36.68	89.42	-1,001.27	1,275.20	1,485.22	1,413.22	72.00	20.629	
9,400.00	7,630.00	7,814.15	7,580.08	41.59	36.68	89.49	-1,001.27	1,275.20	1,387.85	1,315.64	72.21	19.220	
9,500.00	7,630.00	7,814.56	7,580.48	41.26	36.68	89.56	-1,001.27	1,275.21	1,290.90	1,218.44	72.46	17.816	
9,600.00	7,630.00	7,814.96	7,580.88	40.96	36.69	89.63	-1,001.27	1,275.21	1,194.44	1,121.69	72.75	16.419	
9,700.00	7,630.00	7,815.36	7,581.28	40.68	36.69	89.70	-1,001.27	1,275.21	1,098.62	1,025.52	73.10	15.030	
9,800.00	7,630.00	7,815.76	7,581.68	40.42	36.69	89.77	-1,001.28	1,275.22	1,003.61	930.10	73.51	13.652	
9,900.00	7,630.00	7,816.16	7,582.08	40.17	36.69	89.84	-1,001.28	1,275.22	909.68	835.66	74.02	12.290	
10,000.00	7,630.00	7,816.56	7,582.48	39.96	36.69	89.91	-1,001.28	1,275.22	817.18	742.54	74.64	10.949	
10,100.00	7,630.00	7,816.96	7,582.88	40.05	36.69	89.98	-1,001.28	1,275.23	726.67	651.27	75.41	9.637	
10,200.00	7,630.00	7,817.36	7,583.28	40.95	36.69	90.05	-1,001.28	1,275.23	639.00	562.64	76.37	8.368	
10,300.00	7,630.00	7,817.75	7,583.68	41.94	36.69	90.12	-1,001.28	1,275.23	555.52	477.97	77.55	7.164	
10,400.00	7,630.00	7,818.15	7,584.07	42.98	36.69	90.19	-1,001.29	1,275.24	478.40	399.47	78.93	6.061	
10,500.00	7,630.00	7,818.55	7,584.47	44.06	36.69	90.26	-1,001.29	1,275.24	411.27	330.93	80.34	5.119	
10,600.00	7,630.00	7,818.95	7,584.87	45.17	36.69	90.33	-1,001.29	1,275.24	359.74	278.57	81.17	4.432	
10,700.00	7,630.00	7,819.35	7,585.27	46.32	36.70	90.40	-1,001.29	1,275.24	331.18	250.83	80.36	4.121	SF
10,748.65	7,630.00	7,819.55	7,585.47	46.89	36.70	90.43	-1,001.29	1,275.25	327.59	248.44	79.16	4.139	CC, ES
10,800.00	7,630.00	7,819.76	7,585.68	47.50	36.70	90.47	-1,001.29	1,275.25	331.59	254.18	77.41	4.283	
10,900.00	7,630.00	7,820.17	7,586.09	48.70	36.70	90.54	-1,001.29	1,275.25	360.86	287.23	73.63	4.901	
11,000.00	7,630.00	7,820.59	7,586.51	49.94	36.70	90.61	-1,001.30	1,275.25	412.91	342.26	70.64	5.845	
11,100.00	7,630.00	7,821.02	7,586.94	51.20	36.70	90.69	-1,001.30	1,275.26	480.38	411.54	68.83	6.979	
11,200.00	7,630.00	7,821.45	7,587.37	52.48	36.70	90.76	-1,001.30	1,275.26	557.70	489.82	67.88	8.216	
11,300.00	7,630.00	7,821.88	7,587.80	53.79	36.70	90.84	-1,001.30	1,275.26	641.33	573.90	67.42	9.512	
11,400.00	7,630.00	7,822.32	7,588.24	55.12	36.70	90.92	-1,001.30	1,275.27	729.09	661.85	67.23	10.844	
11,500.00	7,630.00	7,822.77	7,588.69	56.46	36.70	91.00	-1,001.31	1,275.27	819.65	752.47	67.19	12.200	
11,600.00	7,630.00	7,823.22	7,589.14	57.83	36.70	91.07	-1,001.31	1,275.27	912.20	844.98	67.22	13.571	
11,700.00	7,630.00	7,823.68	7,589.60	59.22	36.71	91.15	-1,001.31	1,275.28	1,006.16	938.88	67.28	14.954	
11,800.00	7,630.00	7,824.14	7,590.06	60.62	36.71	91.24	-1,001.31	1,275.28	1,101.20	1,033.83	67.37	16.346	
11,900.00	7,630.00	7,824.61	7,590.53	62.04	36.71	91.32	-1,001.31	1,275.28	1,197.04	1,129.57	67.46	17.743	
12,000.00	7,630.00	7,825.09	7,591.01	63.48	36.71	91.40	-1,001.32	1,275.29	1,293.51	1,225.95	67.56	19.146	
12,100.00	7,630.00	7,825.57	7,591.49	64.93	36.71	91.48	-1,001.32	1,275.29	1,390.48	1,322.82	67.66	20.552	
12,200.00	7,630.00	7,826.06	7,591.98	66.39	36.71	91.57	-1,001.32	1,275.29	1,487.85	1,420.10	67.75	21.960	
12,300.00	7,630.00	7,826.55	7,592.47	67.86	36.71	91.66	-1,001.32	1,275.29	1,585.55	1,517.71	67.84	23.371	
12,400.00	7,630.00	7,827.05	7,592.97	69.35	36.71	91.74	-1,001.33	1,275.30	1,683.52	1,615.59	67.93	24.784	
12,500.00	7,630.00	7,827.56	7,593.48	70.85	36.71	91.83	-1,001.33	1,275.30	1,781.71	1,713.70	68.01	26.197	
12,600.00	7,630.00	7,828.08	7,594.00	72.36	36.72	91.92	-1,001.33	1,275.30	1,880.09	1,812.00	68.09	27.611	
12,700.00	7,630.00	7,828.60	7,594.52	73.88	36.72	92.01	-1,001.33	1,275.31	1,978.64	1,910.47	68.17	29.026	
12,800.00	7,630.00	7,829.13	7,595.05	75.41	36.72	92.11	-1,001.34	1,275.31	2,077.32	2,009.08	68.24	30.441	
12,900.00	7,630.00	7,829.67	7,595.59	76.95	36.72	92.20	-1,001.34	1,275.31	2,176.13	2,107.82	68.31	31.855	
13,000.00	7,630.00	7,830.21	7,596.13	78.49	36.72	92.30	-1,001.34	1,275.32	2,275.04	2,206.66	68.38	33.270	
13,100.00	7,630.00	7,830.76	7,596.68	80.05	36.72	92.39	-1,001.34	1,275.32	2,374.04	2,305.59	68.45	34.684	
13,200.00	7,630.00	7,831.32	7,597.24	81.61	36.72	92.49	-1,001.35	1,275.32	2,473.12	2,404.61	68.51	36.098	
13,300.00	7,630.00	7,831.89	7,597.81	83.18	36.73	92.59	-1,001.35	1,275.33	2,572.27	2,503.70	68.57	37.511	
13,400.00	7,630.00	7,832.47	7,598.39	84.76	36.73	92.69	-1,001.35	1,275.33	2,671.48	2,602.85	68.63	38.923	
13,500.00	7,630.00	7,833.05	7,598.97	86.34	36.73	92.79	-1,001.36	1,275.33	2,770.76	2,702.06	68.69	40.335	
13,600.00	7,630.00	7,833.64	7,599.56	87.94	36.73	92.90	-1,001.36	1,275.34	2,870.08	2,801.33	68.75	41.745	
13,700.00	7,630.00	7,834.25	7,600.17	89.53	36.73	93.00	-1,001.36	1,275.34	2,969.44	2,900.64	68.81	43.155	
13,800.00	7,630.00	7,834.86	7,600.78	91.13	36.73	93.11	-1,001.37	1,275.34	3,068.85	2,999.99	68.86	44.563	
13,900.00	7,630.00	7,835.48	7,601.40	92.74	36.73	93.22	-1,001.37	1,275.35	3,168.30	3,099.38	68.92	45.971	

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

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 122-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,630.00	7,836.10	7,602.03	94.35	36.74	93.32	-1,001.37	1,275.35	3,267.78	3,198.80	68.97	47.377	
14,100.00	7,630.00	7,836.74	7,602.66	95.97	36.74	93.44	-1,001.38	1,275.35	3,367.29	3,298.26	69.03	48.782	
14,200.00	7,630.00	7,837.39	7,603.31	97.60	36.74	93.55	-1,001.38	1,275.36	3,466.82	3,397.74	69.08	50.185	
14,300.00	7,630.00	7,838.05	7,603.97	99.22	36.74	93.66	-1,001.38	1,275.36	3,566.39	3,497.25	69.13	51.587	
14,400.00	7,630.00	7,838.72	7,604.64	100.85	36.74	93.78	-1,001.39	1,275.36	3,665.98	3,596.79	69.19	52.987	
14,500.00	7,630.00	7,839.40	7,605.32	102.49	36.74	93.90	-1,001.39	1,275.37	3,765.59	3,696.35	69.24	54.386	
14,600.00	7,630.00	7,840.09	7,606.01	104.13	36.74	94.02	-1,001.39	1,275.37	3,865.21	3,795.92	69.29	55.783	
14,700.00	7,630.00	7,840.79	7,606.71	105.77	36.75	94.14	-1,001.40	1,275.37	3,964.86	3,895.52	69.34	57.179	
14,800.00	7,630.00	7,841.50	7,607.42	107.42	36.75	94.26	-1,001.40	1,275.37	4,064.53	3,995.13	69.39	58.573	
14,900.00	7,630.00	7,842.22	7,608.14	109.07	36.75	94.39	-1,001.41	1,275.38	4,164.21	4,094.76	69.44	59.965	
15,000.00	7,630.00	7,842.96	7,608.88	110.72	36.75	94.52	-1,001.41	1,275.38	4,263.90	4,194.41	69.50	61.355	
15,100.00	7,630.00	7,843.71	7,609.63	112.38	36.75	94.65	-1,001.41	1,275.38	4,363.61	4,294.07	69.55	62.744	
15,200.00	7,630.00	7,844.46	7,610.39	114.04	36.76	94.78	-1,001.42	1,275.39	4,463.34	4,393.74	69.60	64.131	
15,300.00	7,630.00	7,845.24	7,611.16	115.71	36.76	94.91	-1,001.42	1,275.39	4,563.07	4,493.42	69.65	65.515	
15,400.00	7,630.00	7,846.02	7,611.94	117.37	36.76	95.05	-1,001.43	1,275.39	4,662.82	4,593.12	69.70	66.898	
15,500.00	7,630.00	7,846.82	7,612.74	119.04	36.76	95.19	-1,001.43	1,275.40	4,762.57	4,692.82	69.75	68.279	
15,600.00	7,630.00	7,847.63	7,613.55	120.71	36.76	95.33	-1,001.44	1,275.40	4,862.34	4,792.54	69.80	69.658	
15,700.00	7,630.00	7,848.46	7,614.38	122.39	36.76	95.47	-1,001.44	1,275.40	4,962.11	4,892.26	69.86	71.034	
15,800.00	7,630.00	7,849.30	7,615.22	124.06	36.77	95.62	-1,001.45	1,275.40	5,061.90	4,991.99	69.91	72.409	
15,900.00	7,630.00	7,850.15	7,616.08	125.74	36.77	95.77	-1,001.45	1,275.41	5,161.69	5,091.73	69.96	73.781	
16,000.00	7,630.00	7,851.03	7,616.95	127.42	36.77	95.92	-1,001.46	1,275.41	5,261.49	5,191.48	70.01	75.151	
16,100.00	7,630.00	7,851.91	7,617.83	129.10	36.77	96.07	-1,001.46	1,275.41	5,361.30	5,291.23	70.06	76.519	
16,200.00	7,630.00	7,852.81	7,618.73	130.79	36.78	96.23	-1,001.47	1,275.41	5,461.11	5,391.00	70.12	77.885	
16,300.00	7,630.00	7,853.73	7,619.65	132.48	36.78	96.39	-1,001.48	1,275.42	5,560.94	5,490.76	70.17	79.248	
16,400.00	7,630.00	7,854.67	7,620.59	134.17	36.78	96.55	-1,001.48	1,275.42	5,660.76	5,590.54	70.22	80.609	
16,500.00	7,630.00	7,855.62	7,621.54	135.86	36.78	96.71	-1,001.49	1,275.42	5,760.60	5,690.32	70.28	81.968	
16,600.00	7,630.00	7,856.59	7,622.51	137.55	36.78	96.88	-1,001.49	1,275.42	5,860.43	5,790.10	70.33	83.325	
16,700.00	7,630.00	7,857.58	7,623.50	139.24	36.79	97.05	-1,001.50	1,275.42	5,960.28	5,889.89	70.39	84.679	
16,800.00	7,630.00	7,858.59	7,624.51	140.94	36.79	97.23	-1,001.51	1,275.43	6,060.13	5,989.69	70.44	86.030	
16,900.00	7,630.00	7,859.61	7,625.53	142.64	36.79	97.40	-1,001.52	1,275.43	6,159.98	6,089.48	70.50	87.379	
17,000.00	7,630.00	7,860.66	7,626.58	144.34	36.79	97.58	-1,001.52	1,275.43	6,259.84	6,189.29	70.55	88.726	
17,100.00	7,630.00	7,861.73	7,627.65	146.04	36.80	97.77	-1,001.53	1,275.43	6,359.70	6,289.09	70.61	90.069	
17,200.00	7,630.00	7,862.82	7,628.74	147.74	36.80	97.95	-1,001.54	1,275.43	6,459.57	6,388.91	70.67	91.411	
17,300.00	7,630.00	7,863.93	7,629.85	149.44	36.80	98.14	-1,001.55	1,275.43	6,559.44	6,488.72	70.72	92.750	
17,400.00	7,630.00	7,865.06	7,630.98	151.15	36.80	98.34	-1,001.55	1,275.43	6,659.32	6,588.54	70.78	94.086	
17,500.00	7,630.00	7,866.22	7,632.14	152.86	36.81	98.54	-1,001.56	1,275.43	6,759.19	6,688.36	70.84	95.419	
17,600.00	7,630.00	7,867.40	7,633.32	154.56	36.81	98.74	-1,001.57	1,275.43	6,859.08	6,788.18	70.89	96.750	
17,700.00	7,630.00	7,868.60	7,634.52	156.27	36.81	98.94	-1,001.58	1,275.43	6,958.96	6,888.01	70.95	98.079	
17,800.00	7,630.00	7,869.83	7,635.75	157.98	36.82	99.15	-1,001.59	1,275.43	7,058.85	6,987.84	71.01	99.404	
17,900.00	7,630.00	7,871.09	7,637.01	159.70	36.82	99.37	-1,001.60	1,275.43	7,158.74	7,087.67	71.07	100.727	
18,000.00	7,630.00	7,872.37	7,638.29	161.41	36.82	99.59	-1,001.61	1,275.43	7,258.63	7,187.50	71.13	102.047	
18,100.00	7,630.00	7,873.68	7,639.60	163.12	36.83	99.81	-1,001.62	1,275.43	7,358.53	7,287.34	71.19	103.364	
18,154.00	7,630.00	7,874.40	7,640.32	164.05	36.83	99.93	-1,001.62	1,275.43	7,412.48	7,341.26	71.22	104.074	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	133.49	-2,073.43	2,185.88	3,013.21				
100.00	100.00	61.57	61.57	0.13	0.10	133.49	-2,073.33	2,185.87	3,012.77	3,012.53	0.23	N/A	
200.00	200.00	165.74	165.74	0.49	0.36	133.48	-2,072.75	2,185.77	3,012.31	3,011.46	0.85	3,541.654	
300.00	300.00	264.57	264.57	0.85	0.71	133.48	-2,072.34	2,185.68	3,011.96	3,010.40	1.56	1,926.906	
400.00	400.00	372.10	372.10	1.21	1.10	133.47	-2,071.84	2,185.42	3,011.47	3,009.16	2.31	1,306.107	
500.00	500.00	618.71	618.54	1.57	1.98	133.54	-2,069.82	2,177.89	3,009.11	3,005.57	3.54	849.051	
600.00	600.00	736.31	735.67	1.93	2.41	133.68	-2,070.23	2,167.59	3,002.94	2,998.62	4.32	694.338	
700.00	700.00	825.85	824.70	2.29	2.75	133.84	-2,072.32	2,158.30	2,997.04	2,992.03	5.01	597.899	
800.00	800.00	901.48	899.77	2.64	3.04	133.99	-2,075.45	2,149.63	2,991.65	2,985.99	5.66	528.841	
900.00	900.00	969.62	967.26	3.00	3.31	134.16	-2,079.79	2,141.32	2,987.28	2,981.00	6.28	475.666	
1,000.00	1,000.00	1,044.00	1,040.70	3.36	3.61	134.39	-2,086.41	2,131.58	2,984.03	2,977.10	6.94	430.193	
1,100.00	1,100.00	1,087.50	1,083.54	3.72	3.79	134.53	-2,091.24	2,125.77	2,982.13	2,974.66	7.48	398.911	
1,158.97	1,158.97	1,116.40	1,111.97	3.93	3.91	134.63	-2,094.84	2,122.02	2,981.83	2,974.02	7.81	381.922	
1,200.00	1,200.00	1,139.00	1,134.18	4.08	4.00	134.71	-2,097.87	2,119.14	2,981.98	2,973.93	8.05	370.490	
1,300.00	1,300.00	1,183.99	1,178.34	4.44	4.19	134.88	-2,104.47	2,113.63	2,983.58	2,974.99	8.60	347.036	
1,400.00	1,400.00	1,233.00	1,226.36	4.79	4.40	135.06	-2,112.45	2,107.98	2,986.98	2,977.82	9.16	326.008	
1,500.00	1,499.98	1,276.39	1,268.78	5.15	4.59	97.33	-2,120.31	2,103.32	2,992.48	2,982.78	9.70	308.470	
1,600.00	1,599.84	1,338.00	1,328.86	5.51	4.86	97.49	-2,132.39	2,097.03	3,000.07	2,989.75	10.32	290.605	
1,700.00	1,699.45	1,381.25	1,370.92	5.87	5.06	97.55	-2,141.55	2,092.80	3,009.72	2,998.85	10.87	276.979	
1,800.00	1,798.70	1,433.00	1,421.04	6.23	5.29	97.65	-2,153.45	2,087.90	3,021.64	3,010.19	11.45	263.856	
1,900.00	1,897.47	1,469.16	1,455.94	6.60	5.46	97.63	-2,162.37	2,084.66	3,035.90	3,023.93	11.97	253.625	
2,000.00	1,995.62	1,527.00	1,511.51	6.99	5.74	97.77	-2,177.68	2,080.01	3,052.79	3,040.18	12.61	242.081	
2,100.00	2,093.06	1,527.00	1,511.51	7.39	5.74	97.38	-2,177.68	2,080.01	3,072.06	3,059.10	12.96	237.128	
2,200.00	2,189.64	1,583.89	1,565.92	7.82	6.03	97.45	-2,193.87	2,076.19	3,093.67	3,080.05	13.62	227.094	
2,300.00	2,285.27	1,622.00	1,602.22	8.28	6.22	97.33	-2,205.28	2,074.13	3,117.94	3,103.73	14.21	219.454	
2,400.00	2,379.82	1,683.06	1,660.33	8.77	6.53	97.41	-2,223.85	2,071.47	3,144.35	3,129.40	14.94	210.410	
2,500.00	2,473.17	1,797.07	1,769.09	9.31	7.12	98.04	-2,257.78	2,067.48	3,172.19	3,156.18	16.01	198.170	
2,600.00	2,565.21	1,860.04	1,829.37	9.88	7.45	98.13	-2,275.91	2,065.34	3,200.76	3,183.94	16.81	190.354	
2,660.67	2,620.37	1,892.31	1,860.23	10.25	7.62	98.10	-2,285.27	2,064.49	3,219.07	3,201.78	17.29	186.220	
2,700.00	2,655.96	1,922.23	1,888.85	10.50	7.78	98.44	-2,293.96	2,063.83	3,231.29	3,213.64	17.65	183.112	
2,800.00	2,746.43	2,021.40	1,984.03	11.15	8.31	99.52	-2,321.78	2,062.18	3,262.58	3,243.88	18.70	174.484	
2,900.00	2,836.90	2,089.37	2,049.34	11.82	8.67	100.24	-2,340.56	2,061.37	3,294.77	3,275.19	19.58	168.253	
3,000.00	2,927.37	2,180.33	2,136.63	12.50	9.16	101.21	-2,366.10	2,059.56	3,327.83	3,307.22	20.61	161.473	
3,100.00	3,017.85	2,228.06	2,182.31	13.21	9.43	101.72	-2,379.84	2,058.17	3,361.90	3,340.51	21.39	157.137	
3,200.00	3,108.32	2,282.00	2,233.84	13.92	9.73	102.29	-2,395.75	2,057.08	3,397.62	3,375.41	22.22	152.939	
3,300.00	3,198.79	2,360.73	2,309.21	14.64	10.17	103.09	-2,418.49	2,056.81	3,434.49	3,411.32	23.17	148.240	
3,400.00	3,289.27	2,425.69	2,371.58	15.38	10.53	103.72	-2,436.65	2,057.38	3,471.96	3,447.92	24.04	144.433	
3,500.00	3,379.74	2,492.27	2,435.28	16.12	10.90	104.38	-2,456.02	2,057.30	3,510.57	3,485.66	24.91	140.905	
3,600.00	3,470.21	2,578.58	2,517.86	16.87	11.40	105.22	-2,481.10	2,056.89	3,549.77	3,523.86	25.91	137.027	
3,700.00	3,560.68	2,633.55	2,570.52	17.62	11.71	105.74	-2,496.87	2,057.35	3,589.90	3,563.20	26.70	134.444	
3,800.00	3,651.16	2,895.94	2,822.89	18.39	13.19	108.21	-2,567.96	2,051.62	3,627.47	3,598.75	28.72	126.302	
3,900.00	3,741.63	2,940.00	2,865.31	19.15	13.44	108.62	-2,579.67	2,049.65	3,665.66	3,636.19	29.46	124.409	
4,000.00	3,832.10	2,993.89	2,917.21	19.92	13.75	109.11	-2,594.09	2,048.00	3,705.13	3,674.88	30.25	122.483	
4,100.00	3,922.57	3,077.56	2,997.83	20.69	14.22	109.86	-2,616.43	2,046.46	3,745.60	3,714.39	31.21	120.031	
4,200.00	4,013.05	3,168.51	3,085.41	21.47	14.74	110.67	-2,640.73	2,043.04	3,786.09	3,753.89	32.20	117.579	
4,300.00	4,103.52	3,230.25	3,144.67	22.25	15.10	111.23	-2,657.72	2,039.89	3,827.46	3,794.44	33.02	115.919	
4,400.00	4,193.99	3,327.93	3,238.44	23.03	15.68	112.10	-2,684.58	2,034.68	3,869.39	3,835.34	34.05	113.638	
4,500.00	4,284.47	3,385.53	3,293.79	23.81	16.01	112.60	-2,700.29	2,032.03	3,911.94	3,877.11	34.83	112.325	
4,600.00	4,374.94	3,440.35	3,346.48	24.60	16.33	113.06	-2,715.31	2,029.94	3,955.41	3,919.83	35.58	111.172	
4,700.00	4,465.41	3,489.69	3,393.81	25.39	16.62	113.47	-2,729.12	2,028.19	3,999.93	3,963.65	36.29	110.228	
4,800.00	4,555.88	3,554.15	3,455.58	26.18	17.00	114.01	-2,747.45	2,026.16	4,045.42	4,008.34	37.08	109.097	
4,900.00	4,646.36	3,624.74	3,523.28	26.97	17.42	114.57	-2,767.38	2,024.67	4,091.51	4,053.61	37.90	107.943	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,736.83	3,690.45	3,586.32	27.76	17.81	115.08	-2,785.91	2,023.85	4,138.26	4,099.57	38.69	106.963	
5,100.00	4,827.30	3,759.83	3,652.83	28.55	18.22	115.61	-2,805.63	2,023.03	4,185.64	4,146.14	39.49	105.990	
5,200.00	4,917.77	3,829.07	3,719.09	29.35	18.63	116.14	-2,825.65	2,021.40	4,233.59	4,193.30	40.29	105.077	
5,300.00	5,008.25	3,908.19	3,794.56	30.15	19.12	116.76	-2,849.12	2,017.72	4,282.10	4,240.96	41.15	104.066	
5,400.00	5,098.72	5,051.49	4,918.88	30.94	24.23	123.92	-3,029.98	1,991.90	4,314.73	4,267.49	47.24	91.334	
5,500.00	5,189.19	5,155.39	5,022.72	31.74	24.55	124.45	-3,033.44	1,990.63	4,343.31	4,295.17	48.15	90.212	
5,600.00	5,279.67	5,240.97	5,108.25	32.54	24.81	124.88	-3,036.05	1,989.68	4,371.96	4,322.98	48.98	89.252	
5,700.00	5,370.14	5,347.56	5,214.77	33.34	25.13	125.41	-3,039.60	1,988.65	4,401.22	4,351.33	49.89	88.214	
5,800.00	5,460.61	5,465.87	5,333.06	34.14	25.47	125.97	-3,041.81	1,988.63	4,429.51	4,378.68	50.83	87.135	
5,900.00	5,551.08	5,557.00	5,424.17	34.94	25.73	126.40	-3,043.49	1,988.88	4,458.19	4,406.51	51.68	86.263	
6,000.00	5,641.56	5,655.41	5,522.58	35.75	26.02	126.85	-3,045.15	1,989.10	4,486.97	4,434.42	52.55	85.383	
6,100.00	5,732.03	5,761.14	5,628.30	36.55	26.32	127.33	-3,046.69	1,989.22	4,515.77	4,462.32	53.44	84.494	
6,200.00	5,822.50	5,872.09	5,739.24	37.35	26.63	127.82	-3,047.81	1,989.49	4,544.42	4,490.07	54.35	83.612	
6,300.00	5,912.97	6,012.18	5,879.32	38.16	27.01	128.44	-3,048.13	1,989.78	4,572.62	4,517.28	55.34	82.629	
6,400.00	6,003.45	6,114.43	5,981.58	38.96	27.27	128.88	-3,047.62	1,989.44	4,600.27	4,544.07	56.20	81.859	
6,500.00	6,093.92	6,191.97	6,059.11	39.77	27.47	129.22	-3,047.39	1,988.84	4,628.28	4,571.30	56.98	81.226	
6,600.00	6,184.39	6,269.81	6,136.95	40.57	27.68	129.56	-3,047.43	1,988.20	4,656.81	4,599.05	57.76	80.619	
6,700.00	6,274.87	6,372.44	6,239.58	41.38	27.95	129.99	-3,047.44	1,987.96	4,685.62	4,627.00	58.62	79.933	
6,800.00	6,365.34	6,500.99	6,368.12	42.18	28.27	130.52	-3,046.50	1,987.87	4,713.96	4,654.41	59.55	79.159	
6,900.00	6,455.81	6,612.24	6,479.36	42.99	28.56	130.99	-3,045.31	1,986.33	4,742.06	4,681.63	60.43	78.472	
7,000.00	6,546.28	6,698.39	6,565.47	43.80	28.80	131.37	-3,044.40	1,983.79	4,770.18	4,708.95	61.23	77.905	
7,100.00	6,636.76	6,772.28	6,639.30	44.61	29.00	131.69	-3,043.85	1,981.15	4,798.74	4,736.75	61.99	77.412	
7,200.00	6,727.23	6,839.78	6,706.76	45.41	29.19	131.99	-3,043.63	1,978.62	4,827.89	4,765.17	62.72	76.969	
7,300.00	6,817.70	6,901.91	6,768.86	46.22	29.37	132.25	-3,043.72	1,976.68	4,857.75	4,794.31	63.44	76.573	
7,383.79	6,893.51	6,969.06	6,835.98	46.90	29.57	132.53	-3,044.05	1,974.83	4,883.23	4,819.14	64.09	76.193	
7,400.00	6,908.25	6,982.79	6,849.70	47.03	29.61	130.30	-3,044.13	1,974.41	4,887.97	4,823.75	64.22	76.116	
7,450.00	6,954.52	7,119.89	6,986.71	47.40	30.01	122.03	-3,044.00	1,969.40	4,899.68	4,834.74	64.94	75.452	
7,500.00	7,001.74	7,211.96	7,078.67	47.72	30.26	110.32	-3,042.33	1,965.42	4,906.08	4,840.61	65.48	74.930	
7,550.00	7,049.55	7,238.18	7,104.87	47.99	30.33	94.97	-3,041.83	1,964.41	4,908.31	4,842.52	65.79	74.610	
7,600.00	7,097.58	7,264.57	7,131.24	48.21	30.41	77.81	-3,041.42	1,963.55	4,906.45	4,840.37	66.08	74.252	
7,650.00	7,145.48	7,290.00	7,156.66	48.37	30.48	61.73	-3,041.13	1,962.86	4,900.51	4,834.17	66.35	73.864	
7,700.00	7,192.88	7,324.09	7,190.75	48.48	30.57	48.77	-3,040.83	1,962.20	4,890.50	4,823.88	66.62	73.413	
7,750.00	7,239.41	7,356.57	7,223.23	48.54	30.66	39.07	-3,040.60	1,961.89	4,876.44	4,809.58	66.86	72.935	
7,800.00	7,284.72	7,389.73	7,256.38	48.56	30.75	31.92	-3,040.44	1,961.88	4,858.43	4,791.34	67.09	72.420	
7,850.00	7,328.47	7,429.79	7,296.44	48.54	30.86	26.61	-3,040.30	1,961.86	4,836.53	4,769.21	67.32	71.845	
7,900.00	7,370.32	7,468.03	7,334.68	48.47	30.97	22.54	-3,040.22	1,961.62	4,810.87	4,743.35	67.53	71.244	
7,950.00	7,409.96	7,503.07	7,369.72	48.37	31.07	19.31	-3,040.18	1,961.26	4,781.64	4,713.93	67.71	70.622	
8,000.00	7,447.08	7,535.47	7,402.11	48.24	31.16	16.64	-3,040.18	1,960.90	4,749.06	4,681.20	67.87	69.978	
8,050.00	7,481.41	7,565.47	7,432.11	48.07	31.25	14.34	-3,040.21	1,960.55	4,713.36	4,645.36	68.00	69.315	
8,100.00	7,512.67	7,639.60	7,506.24	47.87	31.46	12.39	-3,039.98	1,960.26	4,674.70	4,606.42	68.28	68.467	
8,150.00	7,540.64	8,150.00	7,521.03	47.65	32.90	10.26	-3,039.74	1,960.51	4,633.21	4,563.27	69.94	66.248	
8,200.00	7,565.09	7,688.45	7,555.08	47.40	31.60	8.03	-3,039.42	1,960.80	4,589.52	4,521.07	68.45	67.053	
8,250.00	7,585.85	7,698.89	7,565.52	47.14	31.63	5.24	-3,039.34	1,960.94	4,543.96	4,475.49	68.47	66.366	
8,300.00	7,602.75	7,707.44	7,574.07	46.86	31.65	1.36	-3,039.28	1,961.04	4,496.84	4,428.37	68.48	65.669	
8,350.00	7,615.67	7,714.01	7,580.64	46.58	31.67	-5.03	-3,039.26	1,961.12	4,448.52	4,380.04	68.48	64.965	
8,400.00	7,624.51	7,718.52	7,585.15	46.28	31.68	-18.30	-3,039.24	1,961.17	4,399.32	4,330.86	68.46	64.257	
8,450.00	7,629.19	7,720.91	7,587.54	45.98	31.69	-53.78	-3,039.24	1,961.20	4,349.63	4,281.19	68.45	63.549	
8,481.00	7,630.00	7,721.30	7,587.93	45.79	31.69	-90.77	-3,039.24	1,961.21	4,318.74	4,250.31	68.43	63.112	
8,500.00	7,630.00	7,721.27	7,587.91	45.68	31.69	-90.77	-3,039.24	1,961.21	4,299.81	4,231.39	68.42	62.844	
8,600.00	7,630.00	7,721.16	7,587.79	45.11	31.69	-90.75	-3,039.24	1,961.20	4,200.18	4,131.81	68.37	61.436	
8,700.00	7,630.00	7,721.04	7,587.68	44.56	31.69	-90.73	-3,039.24	1,961.20	4,100.57	4,032.25	68.31	60.027	
8,800.00	7,630.00	7,720.92	7,587.56	44.05	31.69	-90.71	-3,039.24	1,961.20	4,000.97	3,932.72	68.26	58.617	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	7,720.80	7,587.43	43.57	31.69	-90.70	-3,039.24	1,961.20	3,901.40	3,833.20	68.20	57.207	
9,000.00	7,630.00	7,720.68	7,587.31	43.12	31.69	-90.68	-3,039.24	1,961.20	3,801.85	3,733.71	68.14	55.795	
9,100.00	7,630.00	7,720.55	7,587.18	42.70	31.69	-90.66	-3,039.24	1,961.20	3,702.33	3,634.25	68.08	54.383	
9,200.00	7,630.00	7,720.42	7,587.05	42.31	31.69	-90.64	-3,039.24	1,961.20	3,602.83	3,534.81	68.02	52.970	
9,300.00	7,630.00	7,720.29	7,586.92	41.94	31.69	-90.61	-3,039.24	1,961.19	3,503.36	3,435.41	67.95	51.557	
9,400.00	7,630.00	7,720.15	7,586.78	41.59	31.69	-90.59	-3,039.24	1,961.19	3,403.92	3,336.03	67.88	50.143	
9,500.00	7,630.00	7,720.01	7,586.64	41.26	31.69	-90.57	-3,039.24	1,961.19	3,304.51	3,236.70	67.82	48.728	
9,600.00	7,630.00	7,719.86	7,586.49	40.96	31.69	-90.55	-3,039.24	1,961.19	3,205.15	3,137.40	67.74	47.312	
9,700.00	7,630.00	7,719.71	7,586.35	40.68	31.69	-90.52	-3,039.24	1,961.19	3,105.82	3,038.15	67.67	45.896	
9,800.00	7,630.00	7,719.56	7,586.19	40.42	31.69	-90.50	-3,039.24	1,961.19	3,006.54	2,938.94	67.59	44.479	
9,900.00	7,630.00	7,719.41	7,586.04	40.17	31.69	-90.48	-3,039.24	1,961.18	2,907.30	2,839.79	67.51	43.062	
10,000.00	7,630.00	7,719.24	7,585.88	39.96	31.69	-90.45	-3,039.24	1,961.18	2,808.12	2,740.69	67.43	41.644	
10,100.00	7,630.00	7,719.08	7,585.71	40.05	31.69	-90.43	-3,039.24	1,961.18	2,709.00	2,641.66	67.35	40.225	
10,200.00	7,630.00	7,718.91	7,585.54	40.95	31.69	-90.40	-3,039.24	1,961.18	2,609.95	2,542.69	67.26	38.806	
10,300.00	7,630.00	7,718.74	7,585.37	41.94	31.68	-90.37	-3,039.24	1,961.18	2,510.97	2,443.81	67.16	37.386	
10,400.00	7,630.00	7,718.56	7,585.19	42.98	31.68	-90.34	-3,039.24	1,961.17	2,412.08	2,345.01	67.07	35.965	
10,500.00	7,630.00	7,718.37	7,585.00	44.06	31.68	-90.31	-3,039.24	1,961.17	2,313.28	2,246.32	66.97	34.544	
10,600.00	7,630.00	7,718.18	7,584.81	45.17	31.68	-90.28	-3,039.24	1,961.17	2,214.59	2,147.73	66.86	33.121	
10,700.00	7,630.00	7,717.99	7,584.62	46.32	31.68	-90.25	-3,039.24	1,961.17	2,116.03	2,049.27	66.76	31.698	
10,800.00	7,630.00	7,717.79	7,584.42	47.50	31.68	-90.22	-3,039.24	1,961.17	2,017.60	1,950.96	66.65	30.273	
10,900.00	7,630.00	7,717.58	7,584.21	48.70	31.68	-90.19	-3,039.24	1,961.16	1,919.34	1,852.81	66.53	28.847	
11,000.00	7,630.00	7,717.36	7,584.00	49.94	31.68	-90.16	-3,039.25	1,961.16	1,821.27	1,754.84	66.42	27.420	
11,100.00	7,630.00	7,717.14	7,583.78	51.20	31.68	-90.12	-3,039.25	1,961.16	1,723.41	1,657.10	66.31	25.990	
11,200.00	7,630.00	7,716.92	7,583.55	52.48	31.68	-90.09	-3,039.25	1,961.15	1,625.82	1,559.62	66.20	24.557	
11,300.00	7,630.00	7,716.68	7,583.31	53.79	31.68	-90.05	-3,039.25	1,961.15	1,528.54	1,462.44	66.11	23.122	
11,400.00	7,630.00	7,716.44	7,583.07	55.12	31.68	-90.01	-3,039.25	1,961.15	1,431.64	1,365.61	66.03	21.682	
11,500.00	7,630.00	7,716.19	7,582.82	56.46	31.68	-89.97	-3,039.25	1,961.15	1,335.19	1,269.21	65.98	20.236	
11,600.00	7,630.00	7,715.93	7,582.56	57.83	31.68	-89.93	-3,039.25	1,961.14	1,239.31	1,173.33	65.98	18.784	
11,700.00	7,630.00	7,715.66	7,582.29	59.22	31.68	-89.89	-3,039.25	1,961.14	1,144.13	1,078.08	66.05	17.323	
11,800.00	7,630.00	7,715.38	7,582.01	60.62	31.68	-89.84	-3,039.25	1,961.14	1,049.84	983.61	66.23	15.851	
11,900.00	7,630.00	7,715.09	7,581.72	62.04	31.67	-89.80	-3,039.25	1,961.13	956.72	890.12	66.60	14.366	
12,000.00	7,630.00	7,714.79	7,581.42	63.48	31.67	-89.75	-3,039.25	1,961.13	865.14	797.89	67.25	12.865	
12,100.00	7,630.00	7,714.48	7,581.11	64.93	31.67	-89.70	-3,039.25	1,961.13	775.63	707.29	68.35	11.349	
12,200.00	7,630.00	7,714.16	7,580.79	66.39	31.67	-89.65	-3,039.26	1,961.12	689.02	618.88	70.14	9.824	
12,300.00	7,630.00	7,713.82	7,580.45	67.86	31.67	-89.60	-3,039.26	1,961.12	606.54	533.56	72.98	8.311	
12,400.00	7,630.00	7,713.47	7,580.10	69.35	31.67	-89.55	-3,039.26	1,961.11	530.13	452.81	77.32	6.856	
12,500.00	7,630.00	7,713.11	7,579.74	70.85	31.67	-89.49	-3,039.26	1,961.11	462.79	379.23	83.57	5.538	
12,600.00	7,630.00	7,712.73	7,579.36	72.36	31.67	-89.43	-3,039.26	1,961.11	409.05	317.46	91.59	4.466	
12,700.00	7,630.00	7,712.34	7,578.97	73.88	31.67	-89.37	-3,039.26	1,961.10	374.78	274.82	99.96	3.749	
12,784.29	7,630.00	7,711.99	7,578.62	75.17	31.67	-89.31	-3,039.26	1,961.10	365.18	259.92	105.26	3.469	CC
12,800.00	7,630.00	7,711.92	7,578.56	75.41	31.67	-89.30	-3,039.26	1,961.10	365.52	259.59	105.93	3.451	ES, SF
12,900.00	7,630.00	7,711.49	7,578.13	76.95	31.66	-89.24	-3,039.27	1,961.09	383.07	275.60	107.48	3.564	
13,000.00	7,630.00	7,711.05	7,577.68	78.49	31.66	-89.16	-3,039.27	1,961.08	424.13	318.80	105.33	4.027	
13,100.00	7,630.00	7,710.58	7,577.21	80.05	31.66	-89.09	-3,039.27	1,961.08	482.73	381.19	101.54	4.754	
13,200.00	7,630.00	7,710.08	7,576.72	81.61	31.66	-89.01	-3,039.27	1,961.07	553.32	455.75	97.58	5.671	
13,300.00	7,630.00	7,709.57	7,576.20	83.18	31.66	-88.93	-3,039.27	1,961.07	631.91	537.86	94.05	6.719	
13,400.00	7,630.00	7,709.03	7,575.66	84.76	31.66	-88.85	-3,039.28	1,961.06	715.85	624.76	91.10	7.858	
13,500.00	7,630.00	7,708.46	7,575.09	86.34	31.66	-88.76	-3,039.28	1,961.05	803.48	714.81	88.68	9.061	
13,600.00	7,630.00	7,707.86	7,574.49	87.94	31.65	-88.66	-3,039.28	1,961.05	893.71	807.02	86.69	10.309	
13,700.00	7,630.00	7,707.22	7,573.86	89.53	31.65	-88.57	-3,039.29	1,961.04	985.83	900.77	85.07	11.589	
13,800.00	7,630.00	7,706.56	7,573.19	91.13	31.65	-88.46	-3,039.29	1,961.03	1,079.35	995.64	83.72	12.893	
13,900.00	7,630.00	7,705.85	7,572.49	92.74	31.65	-88.35	-3,039.29	1,961.02	1,173.94	1,091.35	82.59	14.215	

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

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 120-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,630.00	7,705.11	7,571.74	94.35	31.65	-88.23	-3,039.30	1,961.01	1,269.36	1,187.72	81.63	15.549	
14,100.00	7,630.00	7,704.32	7,570.95	95.97	31.64	-88.11	-3,039.30	1,961.00	1,365.43	1,284.61	80.82	16.894	
14,200.00	7,630.00	7,703.48	7,570.11	97.60	31.64	-87.98	-3,039.31	1,960.99	1,462.03	1,381.91	80.13	18.246	
14,300.00	7,630.00	7,702.58	7,569.21	99.22	31.64	-87.84	-3,039.31	1,960.98	1,559.06	1,479.53	79.53	19.604	
14,400.00	7,630.00	7,701.63	7,568.26	100.85	31.64	-87.69	-3,039.32	1,960.97	1,656.44	1,577.44	79.00	20.967	
14,500.00	7,630.00	7,700.61	7,567.24	102.49	31.63	-87.53	-3,039.32	1,960.96	1,754.12	1,675.57	78.55	22.332	
14,600.00	7,630.00	7,699.51	7,566.15	104.13	31.63	-87.36	-3,039.33	1,960.94	1,852.04	1,773.90	78.14	23.701	
14,700.00	7,630.00	7,698.34	7,564.98	105.77	31.63	-87.17	-3,039.34	1,960.93	1,950.18	1,872.39	77.79	25.070	
14,800.00	7,630.00	7,697.08	7,563.71	107.42	31.62	-86.97	-3,039.35	1,960.91	2,048.49	1,971.02	77.47	26.442	
14,900.00	7,630.00	7,695.72	7,562.35	109.07	31.62	-86.76	-3,039.36	1,960.90	2,146.96	2,069.77	77.19	27.813	
15,000.00	7,630.00	7,694.24	7,560.87	110.72	31.62	-86.53	-3,039.37	1,960.88	2,245.56	2,168.62	76.94	29.186	
15,100.00	7,630.00	7,692.64	7,559.27	112.38	31.61	-86.28	-3,039.38	1,960.86	2,344.29	2,267.57	76.72	30.558	
15,200.00	7,630.00	7,690.89	7,557.52	114.04	31.61	-86.01	-3,039.40	1,960.84	2,443.11	2,366.60	76.51	31.930	
15,300.00	7,630.00	7,688.97	7,555.61	115.71	31.60	-85.71	-3,039.41	1,960.81	2,542.03	2,465.70	76.33	33.302	
15,400.00	7,630.00	7,686.87	7,553.50	117.37	31.60	-85.38	-3,039.43	1,960.78	2,641.03	2,564.86	76.17	34.673	
15,500.00	7,630.00	7,684.54	7,551.17	119.04	31.59	-85.01	-3,039.46	1,960.75	2,740.10	2,664.07	76.02	36.043	
15,600.00	7,630.00	7,681.96	7,548.59	120.71	31.58	-84.61	-3,039.48	1,960.72	2,839.23	2,763.34	75.89	37.412	
15,700.00	7,630.00	7,679.07	7,545.71	122.39	31.57	-84.16	-3,039.51	1,960.68	2,938.42	2,862.65	75.77	38.780	
15,800.00	7,630.00	7,675.83	7,542.46	124.06	31.56	-83.66	-3,039.55	1,960.64	3,037.66	2,962.00	75.67	40.146	
15,900.00	7,630.00	7,672.15	7,538.79	125.74	31.55	-83.09	-3,039.60	1,960.59	3,136.96	3,061.39	75.57	41.511	
16,000.00	7,630.00	7,667.96	7,534.60	127.42	31.54	-82.44	-3,039.65	1,960.54	3,236.29	3,160.80	75.48	42.873	
16,100.00	7,630.00	7,667.00	7,533.64	129.10	31.54	-82.29	-3,039.66	1,960.52	3,335.66	3,260.26	75.40	44.240	
16,200.00	7,630.00	7,667.00	7,533.64	130.79	31.54	-82.29	-3,039.66	1,960.52	3,435.07	3,359.75	75.32	45.607	
16,300.00	7,630.00	7,667.00	7,533.64	132.48	31.54	-82.29	-3,039.66	1,960.52	3,534.51	3,459.26	75.25	46.973	
16,400.00	7,630.00	7,667.00	7,533.64	134.17	31.54	-82.29	-3,039.66	1,960.52	3,633.98	3,558.80	75.18	48.337	
16,500.00	7,630.00	7,667.00	7,533.64	135.86	31.54	-82.29	-3,039.66	1,960.52	3,733.48	3,658.36	75.12	49.700	
16,600.00	7,630.00	7,667.00	7,533.64	137.55	31.54	-82.29	-3,039.66	1,960.52	3,833.00	3,757.94	75.07	51.061	
16,700.00	7,630.00	7,667.00	7,533.64	139.24	31.54	-82.29	-3,039.66	1,960.52	3,932.55	3,857.54	75.02	52.421	
16,800.00	7,630.00	7,667.00	7,533.64	140.94	31.54	-82.29	-3,039.66	1,960.52	4,032.13	3,957.15	74.98	53.779	
16,900.00	7,630.00	7,667.00	7,533.64	142.64	31.54	-82.29	-3,039.66	1,960.52	4,131.72	4,056.78	74.94	55.136	
17,000.00	7,630.00	7,667.00	7,533.64	144.34	31.54	-82.29	-3,039.66	1,960.52	4,231.33	4,156.43	74.90	56.490	
17,100.00	7,630.00	7,667.00	7,533.64	146.04	31.54	-82.29	-3,039.66	1,960.52	4,330.96	4,256.09	74.87	57.843	
17,200.00	7,630.00	7,667.00	7,533.64	147.74	31.54	-82.29	-3,039.66	1,960.52	4,430.61	4,355.76	74.85	59.194	
17,300.00	7,630.00	7,667.00	7,533.64	149.44	31.54	-82.29	-3,039.66	1,960.52	4,530.27	4,455.44	74.83	60.544	
17,400.00	7,630.00	7,667.00	7,533.64	151.15	31.54	-82.29	-3,039.66	1,960.52	4,629.95	4,555.14	74.81	61.891	
17,500.00	7,630.00	7,667.00	7,533.64	152.86	31.54	-82.29	-3,039.66	1,960.52	4,729.64	4,654.85	74.79	63.237	
17,600.00	7,630.00	7,667.00	7,533.64	154.56	31.54	-82.29	-3,039.66	1,960.52	4,829.34	4,754.56	74.78	64.580	
17,700.00	7,630.00	7,667.00	7,533.64	156.27	31.54	-82.29	-3,039.66	1,960.52	4,929.06	4,854.29	74.77	65.922	
17,800.00	7,630.00	7,667.00	7,533.64	157.98	31.54	-82.29	-3,039.66	1,960.52	5,028.78	4,954.02	74.77	67.261	
17,900.00	7,630.00	7,667.00	7,533.64	159.70	31.54	-82.29	-3,039.66	1,960.52	5,128.52	5,053.76	74.76	68.599	
18,000.00	7,630.00	7,667.00	7,533.64	161.41	31.54	-82.29	-3,039.66	1,960.52	5,228.27	5,153.51	74.76	69.934	
18,100.00	7,630.00	7,667.00	7,533.64	163.12	31.54	-82.29	-3,039.66	1,960.52	5,328.02	5,253.26	74.76	71.267	
18,154.00	7,630.00	7,667.00	7,533.64	164.05	31.54	-82.29	-3,039.66	1,960.52	5,381.90	5,307.14	74.76	71.986	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	108.95	-1,475.73	4,297.18	4,543.79				
100.00	100.00	32.59	32.59	0.13	0.05	108.95	-1,475.72	4,297.24	4,543.61	4,543.42	0.19	N/A	
200.00	200.00	97.76	97.76	0.49	0.16	108.95	-1,475.65	4,297.80	4,544.37	4,543.73	0.65	7,023.702	
300.00	300.00	242.37	242.36	0.85	0.62	108.94	-1,475.16	4,299.25	4,545.29	4,543.82	1.47	3,085.299	
400.00	400.00	526.76	526.33	1.21	1.62	109.08	-1,484.39	4,290.65	4,543.59	4,540.76	2.83	1,604.021	
500.00	500.00	620.97	619.82	1.57	1.98	109.22	-1,493.39	4,283.45	4,539.50	4,535.95	3.55	1,279.067	
600.00	600.00	691.77	689.71	1.93	2.27	109.36	-1,503.09	4,277.64	4,536.19	4,531.99	4.20	1,081.221	
700.00	700.00	796.44	792.22	2.29	2.74	109.62	-1,521.67	4,267.60	4,533.01	4,527.99	5.02	903.445	
800.00	800.00	878.47	871.97	2.64	3.13	109.87	-1,538.79	4,258.94	4,530.05	4,524.28	5.77	785.375	
900.00	900.00	950.00	941.29	3.00	3.49	110.09	-1,554.75	4,251.43	4,527.72	4,521.23	6.48	698.210	
1,000.00	1,000.00	1,120.05	1,105.96	3.36	4.38	110.62	-1,592.93	4,232.87	4,525.36	4,517.63	7.73	585.486	
1,100.00	1,100.00	1,214.00	1,197.02	3.72	4.88	110.91	-1,613.12	4,221.67	4,521.76	4,513.17	8.58	526.779	
1,200.00	1,200.00	1,279.35	1,260.44	4.08	5.22	111.11	-1,627.04	4,214.28	4,518.81	4,509.52	9.29	486.494	
1,300.00	1,300.00	1,376.79	1,354.98	4.44	5.75	111.41	-1,648.23	4,203.85	4,516.64	4,506.47	10.17	444.135	
1,400.00	1,400.00	1,459.37	1,434.75	4.79	6.20	111.68	-1,667.35	4,194.38	4,514.43	4,503.44	10.98	410.979	
1,500.00	1,499.98	1,544.83	1,517.11	5.15	6.68	74.22	-1,688.01	4,184.71	4,512.36	4,500.53	11.82	381.654	
1,600.00	1,599.84	1,627.52	1,596.73	5.51	7.15	74.61	-1,708.24	4,175.28	4,509.59	4,496.94	12.65	356.501	
1,700.00	1,699.45	1,700.16	1,666.69	5.87	7.57	74.99	-1,726.13	4,167.39	4,506.65	4,493.22	13.42	335.773	
1,800.00	1,798.70	1,821.16	1,783.44	6.23	8.25	75.63	-1,755.10	4,154.33	4,502.91	4,488.44	14.47	311.188	
1,900.00	1,897.47	1,951.24	1,909.21	6.60	8.98	76.39	-1,785.05	4,139.93	4,498.11	4,482.54	15.57	288.901	
2,000.00	1,995.62	2,166.04	2,117.35	6.99	10.16	77.69	-1,831.26	4,113.91	4,491.83	4,474.70	17.13	262.192	
2,100.00	2,093.06	2,250.89	2,199.68	7.39	10.63	78.34	-1,848.36	4,102.59	4,483.30	4,465.30	18.00	249.100	
2,200.00	2,189.64	2,336.10	2,282.42	7.82	11.09	79.03	-1,865.38	4,091.37	4,474.60	4,455.72	18.89	236.907	
2,300.00	2,285.27	2,395.27	2,339.87	8.28	11.41	79.59	-1,877.26	4,083.73	4,466.03	4,446.37	19.67	227.095	
2,400.00	2,379.82	2,452.62	2,395.62	8.77	11.72	80.14	-1,888.78	4,076.75	4,457.99	4,437.53	20.47	217.810	
2,500.00	2,473.17	2,520.02	2,461.12	9.31	12.08	80.78	-1,902.53	4,068.78	4,450.40	4,429.04	21.36	208.349	
2,600.00	2,565.21	2,649.77	2,587.13	9.88	12.79	81.93	-1,928.98	4,052.77	4,442.61	4,419.98	22.63	196.290	
2,660.67	2,620.37	2,683.70	2,620.11	10.25	12.97	82.29	-1,935.77	4,048.53	4,437.89	4,414.71	23.19	191.409	
2,700.00	2,655.96	2,705.60	2,641.39	10.50	13.09	82.47	-1,940.14	4,045.86	4,435.03	4,411.48	23.55	188.320	
2,800.00	2,746.43	2,760.94	2,695.25	11.15	13.38	82.91	-1,951.11	4,039.37	4,428.62	4,404.13	24.49	180.824	
2,900.00	2,836.90	2,819.00	2,751.84	11.82	13.69	83.38	-1,962.44	4,033.04	4,423.49	4,398.02	25.46	173.709	
3,000.00	2,927.37	2,904.07	2,834.84	12.50	14.13	84.05	-1,978.77	4,024.08	4,419.34	4,392.75	26.59	166.193	
3,100.00	3,017.85	2,993.13	2,921.77	13.21	14.60	84.76	-1,995.66	4,014.59	4,415.86	4,388.11	27.75	159.110	
3,200.00	3,108.32	3,066.18	2,993.01	13.92	14.98	85.34	-2,009.72	4,006.62	4,413.17	4,384.32	28.85	152.975	
3,300.00	3,198.79	3,131.80	3,056.81	14.64	15.33	85.87	-2,023.11	3,999.12	4,411.51	4,381.59	29.92	147.443	
3,391.59	3,281.66	3,188.10	3,111.45	15.32	15.64	86.33	-2,035.05	3,992.61	4,411.01	4,380.12	30.89	142.789	
3,400.00	3,289.27	3,193.24	3,116.43	15.38	15.67	86.37	-2,036.15	3,992.02	4,411.02	4,380.04	30.98	142.379	
3,500.00	3,379.74	3,249.02	3,170.58	16.12	15.97	86.83	-2,048.04	3,985.83	4,411.76	4,379.75	32.01	137.818	
3,600.00	3,470.21	3,305.50	3,225.55	16.87	16.28	87.28	-2,059.71	3,980.18	4,413.78	4,380.73	33.05	133.565	
3,700.00	3,560.68	3,362.31	3,280.91	17.62	16.57	87.74	-2,071.32	3,974.95	4,417.04	4,382.97	34.08	129.622	
3,800.00	3,651.16	3,460.68	3,376.76	18.39	17.10	88.52	-2,091.51	3,965.97	4,421.29	4,385.95	35.34	125.101	
3,900.00	3,741.63	3,573.62	3,486.57	19.15	17.70	89.43	-2,115.20	3,954.25	4,425.81	4,389.13	36.69	120.635	
4,000.00	3,832.10	3,699.16	3,608.85	19.92	18.36	90.44	-2,140.23	3,940.78	4,430.49	4,392.40	38.09	116.305	
4,100.00	3,922.57	3,798.78	3,706.31	20.69	18.86	91.21	-2,158.14	3,930.61	4,435.29	4,395.95	39.34	112.745	
4,200.00	4,013.05	3,877.85	3,783.98	21.47	19.24	91.81	-2,171.12	3,923.49	4,440.83	4,400.38	40.46	109.764	
4,300.00	4,103.52	3,980.08	3,884.79	22.25	19.71	92.56	-2,186.22	3,915.72	4,447.11	4,405.45	41.67	106.727	
4,400.00	4,193.99	4,400.00	4,001.87	23.03	21.46	93.37	-2,199.14	3,908.48	4,452.59	4,408.43	44.15	100.843	
4,500.00	4,284.47	4,282.26	4,185.20	23.81	20.87	94.56	-2,213.53	3,899.81	4,457.68	4,413.35	44.32	100.571	
4,600.00	4,374.94	4,396.17	4,298.99	24.60	21.22	95.25	-2,218.01	3,896.85	4,462.61	4,417.18	45.43	98.233	
4,700.00	4,465.41	4,507.41	4,410.17	25.39	21.55	95.89	-2,220.59	3,894.90	4,467.56	4,421.05	46.50	96.067	
4,800.00	4,555.88	4,622.50	4,525.26	26.18	21.88	96.53	-2,221.48	3,893.80	4,472.49	4,424.91	47.59	93.986	
4,900.00	4,646.36	4,745.38	4,648.13	26.97	22.19	97.20	-2,221.15	3,892.70	4,477.21	4,428.55	48.66	92.018	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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	4,736.83	4,851.27	4,754.01	27.76	22.46	97.78	-2,220.06	3,891.74	4,481.83	4,432.16	49.67	90.231	
5,100.00	4,827.30	4,955.86	4,858.58	28.55	22.72	98.34	-2,218.84	3,890.55	4,486.61	4,435.93	50.68	88.523	
5,200.00	4,917.77	5,037.51	4,940.22	29.35	22.93	98.78	-2,217.92	3,889.38	4,491.66	4,440.01	51.65	86.962	
5,300.00	5,008.25	5,110.22	5,012.92	30.15	23.13	99.18	-2,217.43	3,888.40	4,497.43	4,444.83	52.60	85.507	
5,400.00	5,098.72	5,182.73	5,085.43	30.94	23.33	99.57	-2,217.26	3,887.49	4,503.96	4,450.42	53.54	84.123	
5,500.00	5,189.19	5,255.04	5,157.73	31.74	23.52	99.97	-2,217.42	3,886.64	4,511.25	4,456.77	54.48	82.806	
5,600.00	5,279.67	5,336.28	5,238.97	32.54	23.76	100.41	-2,217.87	3,885.76	4,519.23	4,463.78	55.45	81.499	
5,700.00	5,370.14	5,424.93	5,327.61	33.34	24.02	100.90	-2,218.46	3,884.85	4,527.72	4,471.27	56.44	80.215	
5,800.00	5,460.61	5,534.87	5,437.55	34.14	24.34	101.50	-2,219.00	3,883.65	4,536.47	4,478.97	57.50	78.897	
5,900.00	5,551.08	5,634.99	5,537.66	34.94	24.63	102.04	-2,219.06	3,882.43	4,545.24	4,486.72	58.52	77.674	
6,000.00	5,641.56	5,732.15	5,634.80	35.75	24.91	102.56	-2,218.91	3,881.26	4,554.25	4,494.73	59.52	76.514	
6,100.00	5,732.03	5,805.09	5,707.74	36.55	25.12	102.95	-2,218.90	3,880.37	4,563.75	4,503.29	60.46	75.487	
6,200.00	5,822.50	5,946.99	5,849.62	37.35	25.53	103.70	-2,218.61	3,878.41	4,573.47	4,511.88	61.59	74.260	
6,300.00	5,912.97	6,041.78	5,944.40	38.16	25.79	104.20	-2,217.56	3,877.00	4,582.81	4,520.24	62.57	73.242	
6,400.00	6,003.45	6,118.69	6,021.30	38.96	26.01	104.60	-2,216.79	3,875.93	4,592.67	4,529.17	63.50	72.323	
6,500.00	6,093.92	6,211.54	6,114.13	39.77	26.27	105.09	-2,215.92	3,874.77	4,603.01	4,538.54	64.48	71.391	
6,600.00	6,184.39	6,312.11	6,214.69	40.57	26.55	105.61	-2,214.96	3,873.29	4,613.60	4,548.13	65.47	70.468	
6,700.00	6,274.87	6,396.08	6,298.65	41.38	26.80	106.05	-2,214.29	3,871.83	4,624.54	4,558.12	66.42	69.626	
6,800.00	6,365.34	6,487.92	6,390.46	42.18	27.07	106.53	-2,213.70	3,870.09	4,635.89	4,568.50	67.39	68.792	
6,900.00	6,455.81	6,556.12	6,458.65	42.99	27.27	106.89	-2,213.39	3,868.84	4,647.79	4,579.50	68.29	68.062	
7,000.00	6,546.28	6,630.14	6,532.67	43.80	27.50	107.27	-2,213.28	3,867.81	4,660.48	4,591.28	69.20	67.349	
7,100.00	6,636.76	6,709.56	6,612.08	44.61	27.74	107.68	-2,213.20	3,866.93	4,673.75	4,603.62	70.12	66.650	
7,200.00	6,727.23	6,784.15	6,686.67	45.41	27.97	108.06	-2,213.36	3,866.18	4,687.65	4,616.62	71.03	65.996	
7,300.00	6,817.70	6,867.98	6,770.50	46.22	28.23	108.49	-2,213.81	3,865.26	4,702.11	4,630.15	71.96	65.340	
7,383.79	6,893.51	6,938.86	6,841.37	46.90	28.45	108.85	-2,214.36	3,864.35	4,714.60	4,641.85	72.75	64.808	
7,400.00	6,908.25	6,952.64	6,855.14	47.03	28.50	106.69	-2,214.49	3,864.16	4,716.85	4,643.95	72.90	64.705	
7,450.00	6,954.52	6,998.03	6,900.53	47.40	28.64	98.16	-2,214.95	3,863.48	4,721.40	4,648.05	73.36	64.362	
7,500.00	7,001.74	7,045.40	6,947.88	47.72	28.80	86.26	-2,215.51	3,862.63	4,722.26	4,648.46	73.80	63.990	
7,550.00	7,049.55	7,101.07	7,003.54	47.99	28.98	70.87	-2,216.23	3,861.44	4,719.35	4,645.12	74.24	63.573	
7,600.00	7,097.58	7,161.08	7,063.52	48.21	29.18	53.49	-2,216.99	3,859.92	4,712.61	4,637.96	74.65	63.125	
7,650.00	7,145.48	7,203.14	7,105.56	48.37	29.32	36.97	-2,217.55	3,858.76	4,702.15	4,627.18	74.98	62.715	
7,700.00	7,192.88	7,246.18	7,148.58	48.48	29.46	23.35	-2,218.18	3,857.53	4,688.11	4,612.84	75.27	62.287	
7,750.00	7,239.41	7,290.60	7,192.98	48.54	29.61	12.79	-2,218.91	3,856.21	4,670.57	4,595.04	75.53	61.837	
7,800.00	7,284.72	7,334.14	7,236.49	48.56	29.75	4.55	-2,219.66	3,854.87	4,649.63	4,573.87	75.76	61.374	
7,850.00	7,328.47	7,376.26	7,278.58	48.54	29.90	-2.15	-2,220.44	3,853.52	4,625.45	4,549.49	75.95	60.899	
7,900.00	7,370.32	7,416.66	7,318.94	48.47	30.03	-7.93	-2,221.23	3,852.17	4,598.20	4,522.09	76.11	60.413	
7,950.00	7,409.96	7,578.41	7,480.62	48.37	30.54	-13.50	-2,221.19	3,847.75	4,567.42	4,490.79	76.63	59.606	
8,000.00	7,447.08	7,623.41	7,525.61	48.24	30.67	-18.93	-2,220.08	3,847.20	4,533.66	4,456.93	76.73	59.086	
8,050.00	7,481.41	7,653.48	7,555.65	48.07	30.76	-24.51	-2,219.23	3,846.98	4,497.58	4,420.82	76.76	58.590	
8,100.00	7,512.67	7,679.50	7,581.67	47.87	30.83	-30.49	-2,218.52	3,846.79	4,459.53	4,382.77	76.76	58.097	
8,150.00	7,540.64	7,702.68	7,604.84	47.65	30.89	-37.10	-2,217.91	3,846.63	4,419.80	4,343.07	76.73	57.605	
8,200.00	7,565.09	7,722.84	7,625.00	47.40	30.95	-44.45	-2,217.39	3,846.49	4,378.71	4,302.05	76.66	57.116	
8,250.00	7,585.85	7,739.78	7,641.93	47.14	31.00	-52.57	-2,216.96	3,846.39	4,336.60	4,260.03	76.57	56.635	
8,300.00	7,602.75	7,753.35	7,655.49	46.86	31.03	-61.33	-2,216.62	3,846.33	4,293.79	4,217.34	76.45	56.163	
8,350.00	7,615.67	7,763.44	7,665.58	46.58	31.06	-70.41	-2,216.36	3,846.29	4,250.64	4,174.33	76.31	55.703	
8,400.00	7,624.51	7,769.98	7,672.12	46.28	31.08	-79.35	-2,216.19	3,846.27	4,207.50	4,131.36	76.14	55.257	
8,450.00	7,629.19	7,772.93	7,675.06	45.98	31.09	-87.70	-2,216.11	3,846.27	4,164.73	4,088.77	75.96	54.830	
8,481.00	7,630.00	7,772.93	7,675.07	45.79	31.09	-92.42	-2,216.11	3,846.27	4,138.54	4,062.71	75.83	54.575	
8,500.00	7,630.00	7,772.51	7,674.65	45.68	31.09	-92.41	-2,216.12	3,846.27	4,122.61	4,046.85	75.75	54.421	
8,600.00	7,630.00	7,770.29	7,672.42	45.11	31.08	-92.35	-2,216.18	3,846.27	4,039.17	3,963.83	75.34	53.612	
8,700.00	7,630.00	7,768.07	7,670.21	44.56	31.08	-92.30	-2,216.24	3,846.28	3,956.51	3,881.58	74.93	52.806	
8,800.00	7,630.00	7,765.85	7,667.99	44.05	31.07	-92.24	-2,216.30	3,846.29	3,874.66	3,800.15	74.51	52.003	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
8,900.00	7,630.00	7,763.64	7,665.78	43.57	31.06	-92.19	-2,216.35	3,846.29	3,793.67	3,719.58	74.09	51.201	
9,000.00	7,630.00	7,761.43	7,663.57	43.12	31.06	-92.13	-2,216.41	3,846.30	3,713.62	3,639.94	73.68	50.401	
9,100.00	7,630.00	7,759.22	7,661.36	42.70	31.05	-92.07	-2,216.47	3,846.31	3,634.55	3,561.27	73.28	49.601	
9,200.00	7,630.00	7,757.02	7,659.16	42.31	31.04	-92.02	-2,216.52	3,846.32	3,556.53	3,483.65	72.88	48.799	
9,300.00	7,630.00	7,754.82	7,656.97	41.94	31.04	-91.96	-2,216.58	3,846.32	3,479.64	3,407.13	72.50	47.994	
9,400.00	7,630.00	7,752.63	7,654.77	41.59	31.03	-91.91	-2,216.63	3,846.33	3,403.94	3,331.80	72.14	47.185	
9,500.00	7,630.00	7,750.44	7,652.58	41.26	31.03	-91.85	-2,216.69	3,846.34	3,329.53	3,257.72	71.81	46.369	
9,600.00	7,630.00	7,748.25	7,650.39	40.96	31.02	-91.79	-2,216.75	3,846.35	3,256.48	3,184.98	71.50	45.544	
9,700.00	7,630.00	7,746.07	7,648.21	40.68	31.01	-91.74	-2,216.80	3,846.36	3,184.90	3,113.66	71.24	44.707	
9,800.00	7,630.00	7,743.88	7,646.03	40.42	31.01	-91.68	-2,216.86	3,846.37	3,114.88	3,043.86	71.02	43.857	
9,900.00	7,630.00	7,741.71	7,643.85	40.17	31.00	-91.63	-2,216.91	3,846.38	3,046.54	2,975.67	70.87	42.990	
10,000.00	7,630.00	7,739.53	7,641.68	39.96	31.00	-91.57	-2,216.97	3,846.39	2,979.98	2,909.20	70.78	42.104	
10,100.00	7,630.00	7,737.36	7,639.51	40.05	30.99	-91.52	-2,217.02	3,846.41	2,915.33	2,844.56	70.77	41.196	
10,200.00	7,630.00	7,735.20	7,637.35	40.95	30.98	-91.46	-2,217.08	3,846.42	2,852.72	2,781.87	70.85	40.266	
10,300.00	7,630.00	7,733.03	7,635.18	41.94	30.98	-91.41	-2,217.13	3,846.43	2,792.28	2,721.25	71.03	39.312	
10,400.00	7,630.00	7,730.87	7,633.02	42.98	30.97	-91.35	-2,217.19	3,846.44	2,734.17	2,662.84	71.32	38.334	
10,500.00	7,630.00	7,728.72	7,630.87	44.06	30.97	-91.30	-2,217.24	3,846.46	2,678.52	2,606.78	71.74	37.335	
10,600.00	7,630.00	7,726.56	7,628.72	45.17	30.96	-91.24	-2,217.30	3,846.47	2,625.51	2,553.22	72.29	36.318	
10,700.00	7,630.00	7,724.78	7,626.94	46.32	30.96	-91.20	-2,217.34	3,846.48	2,575.29	2,502.31	72.98	35.288	
10,800.00	7,630.00	7,722.41	7,624.57	47.50	30.95	-91.14	-2,217.40	3,846.50	2,528.02	2,454.21	73.81	34.251	
10,900.00	7,630.00	7,720.02	7,622.18	48.70	30.94	-91.07	-2,217.46	3,846.51	2,483.89	2,409.10	74.78	33.215	
11,000.00	7,630.00	7,717.62	7,619.77	49.94	30.94	-91.01	-2,217.52	3,846.53	2,443.04	2,367.15	75.90	32.189	
11,100.00	7,630.00	7,715.19	7,617.35	51.20	30.93	-90.95	-2,217.59	3,846.54	2,405.66	2,328.52	77.15	31.183	
11,200.00	7,630.00	7,712.75	7,614.91	52.48	30.92	-90.89	-2,217.65	3,846.56	2,371.91	2,293.39	78.52	30.206	
11,300.00	7,630.00	7,710.30	7,612.45	53.79	30.91	-90.83	-2,217.71	3,846.58	2,341.94	2,261.93	80.01	29.269	
11,400.00	7,630.00	7,707.82	7,609.98	55.12	30.91	-90.76	-2,217.77	3,846.60	2,315.90	2,234.30	81.60	28.381	
11,500.00	7,630.00	7,705.33	7,607.49	56.46	30.90	-90.70	-2,217.84	3,846.61	2,293.93	2,210.66	83.27	27.549	
11,600.00	7,630.00	7,702.82	7,604.98	57.83	30.89	-90.64	-2,217.90	3,846.63	2,276.14	2,191.14	85.00	26.779	
11,700.00	7,630.00	7,700.29	7,602.45	59.22	30.89	-90.57	-2,217.97	3,846.65	2,262.63	2,175.87	86.76	26.078	
11,800.00	7,630.00	7,697.74	7,599.91	60.62	30.88	-90.51	-2,218.04	3,846.67	2,253.48	2,164.93	88.55	25.449	
11,900.00	7,630.00	7,695.18	7,597.34	62.04	30.87	-90.44	-2,218.10	3,846.68	2,248.74	2,158.41	90.33	24.895	
11,956.80	7,630.00	7,693.71	7,595.88	62.86	30.87	-90.40	-2,218.14	3,846.69	2,248.02	2,156.68	91.34	24.613	CC
12,000.00	7,630.00	7,692.59	7,594.76	63.48	30.87	-90.38	-2,218.17	3,846.70	2,248.44	2,156.35	92.09	24.416	ES
12,100.00	7,630.00	7,689.99	7,592.16	64.93	30.86	-90.31	-2,218.24	3,846.72	2,252.57	2,158.77	93.81	24.013	
12,200.00	7,630.00	7,687.37	7,589.54	66.39	30.85	-90.24	-2,218.31	3,846.74	2,261.13	2,165.66	95.47	23.685	
12,300.00	7,630.00	7,684.73	7,586.90	67.86	30.84	-90.18	-2,218.38	3,846.76	2,274.05	2,177.00	97.05	23.431	
12,400.00	7,630.00	7,682.07	7,584.24	69.35	30.84	-90.11	-2,218.45	3,846.77	2,291.26	2,192.71	98.56	23.248	
12,500.00	7,630.00	7,679.39	7,581.56	70.85	30.83	-90.04	-2,218.52	3,846.79	2,312.67	2,212.70	99.97	23.134	
12,600.00	7,630.00	7,676.69	7,578.86	72.36	30.82	-89.97	-2,218.59	3,846.81	2,338.17	2,236.88	101.28	23.086	SF
12,700.00	7,630.00	7,673.97	7,576.14	73.88	30.81	-89.90	-2,218.67	3,846.83	2,367.61	2,265.11	102.49	23.100	
12,800.00	7,630.00	7,671.22	7,573.40	75.41	30.81	-89.83	-2,218.74	3,846.85	2,400.85	2,297.25	103.60	23.174	
12,900.00	7,630.00	7,668.46	7,570.64	76.95	30.80	-89.76	-2,218.82	3,846.87	2,437.74	2,333.14	104.61	23.304	
13,000.00	7,630.00	7,665.68	7,567.86	78.49	30.79	-89.69	-2,218.89	3,846.89	2,478.12	2,372.61	105.51	23.486	
13,100.00	7,630.00	7,662.88	7,565.05	80.05	30.78	-89.62	-2,218.97	3,846.91	2,521.82	2,415.50	106.32	23.719	
13,200.00	7,630.00	7,660.05	7,562.23	81.61	30.77	-89.55	-2,219.05	3,846.93	2,568.67	2,461.63	107.04	23.997	
13,300.00	7,630.00	7,657.21	7,559.38	83.18	30.77	-89.47	-2,219.13	3,846.95	2,618.49	2,510.82	107.67	24.319	
13,400.00	7,630.00	7,654.34	7,556.52	84.76	30.76	-89.40	-2,219.21	3,846.97	2,671.13	2,562.91	108.22	24.682	
13,500.00	7,630.00	7,651.45	7,553.63	86.34	30.75	-89.33	-2,219.29	3,846.99	2,726.42	2,617.72	108.70	25.082	
13,600.00	7,630.00	7,648.53	7,550.72	87.94	30.74	-89.25	-2,219.37	3,847.02	2,784.20	2,675.09	109.11	25.518	
13,700.00	7,630.00	7,645.60	7,547.78	89.53	30.73	-89.18	-2,219.45	3,847.04	2,844.32	2,734.86	109.46	25.986	
13,800.00	7,630.00	7,642.64	7,544.82	91.13	30.73	-89.10	-2,219.53	3,847.06	2,906.63	2,796.89	109.75	26.485	
13,900.00	7,630.00	7,639.66	7,541.84	92.74	30.72	-89.03	-2,219.62	3,847.08	2,971.00	2,861.02	109.99	27.012	

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

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 120-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,630.00	7,636.65	7,538.84	94.35	30.71	-88.95	-2,219.70	3,847.10	3,037.30	2,927.12	110.18	27.566	
14,100.00	7,630.00	7,633.63	7,535.81	95.97	30.70	-88.87	-2,219.79	3,847.12	3,105.40	2,995.07	110.34	28.145	
14,200.00	7,630.00	7,630.57	7,532.76	97.60	30.69	-88.80	-2,219.88	3,847.15	3,175.19	3,064.74	110.45	28.747	
14,300.00	7,630.00	7,628.00	7,530.19	99.22	30.68	-88.73	-2,219.95	3,847.17	3,246.55	3,136.01	110.54	29.370	
14,400.00	7,630.00	7,628.00	7,530.19	100.85	30.68	-88.73	-2,219.95	3,847.17	3,319.40	3,208.80	110.60	30.013	
14,500.00	7,630.00	7,628.00	7,530.19	102.49	30.68	-88.73	-2,219.95	3,847.17	3,393.62	3,282.99	110.63	30.675	
14,600.00	7,630.00	7,628.00	7,530.19	104.13	30.68	-88.73	-2,219.95	3,847.17	3,469.14	3,358.50	110.64	31.355	
14,700.00	7,630.00	7,628.00	7,530.19	105.77	30.68	-88.73	-2,219.95	3,847.17	3,545.88	3,435.24	110.63	32.050	
14,800.00	7,630.00	7,628.00	7,530.19	107.42	30.68	-88.73	-2,219.95	3,847.17	3,623.74	3,513.13	110.61	32.761	
14,900.00	7,630.00	7,628.00	7,530.19	109.07	30.68	-88.73	-2,219.95	3,847.17	3,702.67	3,592.10	110.57	33.486	
15,000.00	7,630.00	7,628.00	7,530.19	110.72	30.68	-88.73	-2,219.95	3,847.17	3,782.60	3,672.08	110.52	34.225	
15,100.00	7,630.00	7,628.00	7,530.19	112.38	30.68	-88.73	-2,219.95	3,847.17	3,863.46	3,753.00	110.46	34.976	
15,200.00	7,630.00	7,628.00	7,530.19	114.04	30.68	-88.73	-2,219.95	3,847.17	3,945.20	3,834.81	110.39	35.738	
15,300.00	7,630.00	7,628.00	7,530.19	115.71	30.68	-88.73	-2,219.95	3,847.17	4,027.77	3,917.45	110.32	36.511	
15,400.00	7,630.00	7,628.00	7,530.19	117.37	30.68	-88.73	-2,219.95	3,847.17	4,111.11	4,000.87	110.23	37.295	
15,500.00	7,630.00	7,609.95	7,512.15	119.04	30.63	-88.27	-2,220.44	3,847.33	4,195.10	4,084.95	110.14	38.088	
15,600.00	7,630.00	7,608.62	7,510.82	120.71	30.63	-88.24	-2,220.48	3,847.34	4,279.84	4,169.79	110.05	38.890	
15,700.00	7,630.00	7,607.31	7,509.51	122.39	30.62	-88.20	-2,220.51	3,847.36	4,365.22	4,255.27	109.95	39.701	
15,800.00	7,630.00	7,606.02	7,508.22	124.06	30.62	-88.17	-2,220.54	3,847.37	4,451.22	4,341.36	109.85	40.519	
15,900.00	7,630.00	7,604.75	7,506.95	125.74	30.62	-88.14	-2,220.58	3,847.39	4,537.79	4,428.03	109.75	41.345	
16,000.00	7,630.00	7,603.50	7,505.70	127.42	30.61	-88.11	-2,220.61	3,847.40	4,624.90	4,515.24	109.65	42.178	
16,100.00	7,630.00	7,602.27	7,504.47	129.10	30.61	-88.08	-2,220.64	3,847.42	4,712.52	4,602.97	109.55	43.018	
16,200.00	7,630.00	7,601.05	7,503.25	130.79	30.61	-88.05	-2,220.67	3,847.43	4,800.62	4,691.18	109.44	43.864	
16,300.00	7,630.00	7,599.86	7,502.06	132.48	30.60	-88.01	-2,220.70	3,847.44	4,889.18	4,779.84	109.34	44.716	
16,400.00	7,630.00	7,598.68	7,500.88	134.17	30.60	-87.98	-2,220.73	3,847.46	4,978.17	4,868.94	109.23	45.573	
16,500.00	7,630.00	7,597.52	7,499.72	135.86	30.60	-87.96	-2,220.75	3,847.47	5,067.58	4,958.44	109.13	46.436	
16,600.00	7,630.00	7,596.37	7,498.58	137.55	30.59	-87.93	-2,220.78	3,847.49	5,157.37	5,048.34	109.03	47.303	
16,700.00	7,630.00	7,595.25	7,497.45	139.24	30.59	-87.90	-2,220.81	3,847.50	5,247.53	5,138.60	108.93	48.175	
16,800.00	7,630.00	7,594.14	7,496.34	140.94	30.59	-87.87	-2,220.83	3,847.52	5,338.04	5,229.21	108.82	49.052	
16,900.00	7,630.00	7,593.04	7,495.24	142.64	30.58	-87.84	-2,220.86	3,847.53	5,428.88	5,320.16	108.72	49.932	
17,000.00	7,630.00	7,591.96	7,494.16	144.34	30.58	-87.81	-2,220.89	3,847.55	5,520.04	5,411.41	108.63	50.817	
17,100.00	7,630.00	7,590.90	7,493.10	146.04	30.58	-87.79	-2,220.91	3,847.56	5,611.50	5,502.97	108.53	51.705	
17,200.00	7,630.00	7,589.85	7,492.05	147.74	30.57	-87.76	-2,220.93	3,847.58	5,703.25	5,594.81	108.43	52.596	
17,300.00	7,630.00	7,588.81	7,491.02	149.44	30.57	-87.73	-2,220.96	3,847.59	5,795.27	5,686.92	108.34	53.491	
17,400.00	7,630.00	7,587.79	7,489.99	151.15	30.57	-87.71	-2,220.98	3,847.61	5,887.54	5,779.29	108.25	54.389	
17,500.00	7,630.00	7,586.78	7,488.99	152.86	30.57	-87.68	-2,221.00	3,847.62	5,980.07	5,871.91	108.16	55.289	
17,600.00	7,630.00	7,585.79	7,487.99	154.56	30.56	-87.66	-2,221.03	3,847.64	6,072.83	5,964.76	108.07	56.193	
17,700.00	7,630.00	7,584.81	7,487.01	156.27	30.56	-87.63	-2,221.05	3,847.65	6,165.82	6,057.84	107.99	57.099	
17,800.00	7,630.00	7,583.84	7,486.05	157.98	30.56	-87.61	-2,221.07	3,847.67	6,259.03	6,151.13	107.90	58.007	
17,900.00	7,630.00	7,582.89	7,485.09	159.70	30.55	-87.58	-2,221.09	3,847.68	6,352.44	6,244.62	107.82	58.918	
18,000.00	7,630.00	7,581.94	7,484.15	161.41	30.55	-87.56	-2,221.11	3,847.69	6,446.05	6,338.31	107.74	59.830	
18,100.00	7,630.00	7,581.01	7,483.22	163.12	30.55	-87.54	-2,221.13	3,847.71	6,539.85	6,432.18	107.66	60.745	
18,154.00	7,630.00	7,580.52	7,482.73	164.05	30.55	-87.52	-2,221.14	3,847.72	6,590.58	6,482.96	107.62	61.240	

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

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 91-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	123.51	-3,056.68	4,616.69	5,537.09				
100.00	100.00	48.15	48.15	0.13	0.08	123.51	-3,056.76	4,616.66	5,536.91	5,536.70	0.21	N/A	
200.00	200.00	149.05	149.05	0.49	0.35	123.52	-3,057.35	4,616.42	5,537.03	5,536.19	0.84	6,568.064	
300.00	300.00	207.27	207.27	0.85	0.56	123.52	-3,057.72	4,616.33	5,537.35	5,535.94	1.41	3,930.752	
400.00	400.00	245.23	245.23	1.21	0.69	123.52	-3,058.06	4,616.74	5,538.74	5,536.84	1.90	2,912.624	
500.00	500.00	273.00	272.98	1.57	0.79	123.52	-3,058.37	4,617.32	5,541.27	5,538.91	2.36	2,349.712	
600.00	600.00	315.22	315.18	1.93	0.94	123.52	-3,058.90	4,618.75	5,544.93	5,542.07	2.86	1,935.458	
700.00	700.00	364.00	363.88	2.29	1.11	123.51	-3,059.58	4,621.32	5,549.89	5,546.50	3.39	1,635.969	
800.00	800.00	364.00	363.88	2.64	1.11	123.51	-3,059.58	4,621.32	5,555.99	5,552.24	3.75	1,481.454	
900.00	900.00	403.84	403.61	3.00	1.26	123.50	-3,060.27	4,624.24	5,563.35	5,559.10	4.25	1,309.411	
1,000.00	1,000.00	455.00	454.51	3.36	1.45	123.48	-3,061.49	4,629.18	5,572.30	5,567.52	4.78	1,164.669	
1,100.00	1,100.00	455.00	454.51	3.72	1.45	123.48	-3,061.49	4,629.18	5,582.14	5,577.00	5.14	1,086.599	
1,200.00	1,200.00	778.51	774.69	4.08	2.71	123.23	-3,055.66	4,664.98	5,589.48	5,582.79	6.69	835.817	
1,300.00	1,300.00	824.00	819.44	4.44	2.88	123.18	-3,055.34	4,672.85	5,599.88	5,592.67	7.21	776.778	
1,400.00	1,400.00	824.00	819.44	4.79	2.88	123.18	-3,055.34	4,672.85	5,608.51	5,600.95	7.56	741.744	
1,500.00	1,499.98	824.00	819.44	5.15	2.88	85.17	-3,055.34	4,672.85	5,618.76	5,610.85	7.91	710.463	
1,600.00	1,599.84	824.00	819.44	5.51	2.88	84.93	-3,055.34	4,672.85	5,630.48	5,622.23	8.25	682.347	
1,700.00	1,699.45	824.00	819.44	5.87	2.88	84.67	-3,055.34	4,672.85	5,643.64	5,635.05	8.59	656.677	
1,800.00	1,798.70	824.00	819.44	6.23	2.88	84.37	-3,055.34	4,672.85	5,658.22	5,649.28	8.94	632.963	
1,900.00	1,897.47	824.00	819.44	6.60	2.88	84.05	-3,055.34	4,672.85	5,674.19	5,664.90	9.29	610.762	
2,000.00	1,995.62	824.00	819.44	6.99	2.88	83.70	-3,055.34	4,672.85	5,691.51	5,681.86	9.65	589.694	
2,100.00	2,093.06	824.00	819.44	7.39	2.88	83.32	-3,055.34	4,672.85	5,710.15	5,700.13	10.03	569.444	
2,200.00	2,189.64	859.78	854.23	7.82	3.06	82.99	-3,057.29	4,680.98	5,729.76	5,719.20	10.57	542.275	
2,300.00	2,285.27	919.00	911.53	8.28	3.35	82.71	-3,060.38	4,695.60	5,750.25	5,739.01	11.23	511.817	
2,400.00	2,379.82	919.00	911.53	8.77	3.35	82.29	-3,060.38	4,695.60	5,771.08	5,759.40	11.68	494.061	
2,500.00	2,473.17	950.62	941.98	9.31	3.52	81.93	-3,062.08	4,703.99	5,792.79	5,780.49	12.30	470.860	
2,600.00	2,565.21	976.31	966.61	9.88	3.66	81.55	-3,063.60	4,711.09	5,815.27	5,802.33	12.93	449.628	
2,660.67	2,620.37	1,013.00	1,001.65	10.25	3.85	81.39	-3,066.00	4,721.69	5,829.40	5,815.97	13.43	434.130	
2,700.00	2,655.96	1,013.00	1,001.65	10.50	3.85	81.39	-3,066.00	4,721.69	5,838.54	5,824.89	13.65	427.749	
2,800.00	2,746.43	1,013.00	1,001.65	11.15	3.85	81.39	-3,066.00	4,721.69	5,862.93	5,848.70	14.23	412.110	
2,900.00	2,836.90	1,050.88	1,037.65	11.82	4.08	81.51	-3,068.84	4,733.13	5,888.45	5,873.45	15.00	392.607	
3,000.00	2,927.37	1,107.00	1,090.64	12.50	4.42	81.70	-3,073.94	4,750.91	5,915.56	5,899.69	15.87	372.745	
3,100.00	3,017.85	1,107.00	1,090.64	13.21	4.42	81.70	-3,073.94	4,750.91	5,943.23	5,926.76	16.48	360.644	
3,200.00	3,108.32	1,135.25	1,117.17	13.92	4.60	81.80	-3,076.73	4,760.21	5,972.31	5,955.08	17.24	346.468	
3,300.00	3,198.79	1,177.53	1,156.73	14.64	4.88	81.93	-3,080.80	4,774.54	6,002.32	5,984.24	18.07	332.094	
3,400.00	3,289.27	1,224.29	1,200.30	15.38	5.19	82.08	-3,085.14	4,790.95	6,033.19	6,014.25	18.94	318.510	
3,500.00	3,379.74	1,298.35	1,269.21	16.12	5.71	82.31	-3,092.26	4,817.14	6,064.63	6,044.67	19.97	303.719	
3,600.00	3,470.21	1,391.69	1,356.01	16.87	6.38	82.60	-3,101.26	4,850.27	6,096.33	6,075.22	21.12	288.702	
3,700.00	3,560.68	1,482.88	1,440.69	17.62	7.05	82.87	-3,109.29	4,883.13	6,128.12	6,105.85	22.27	275.164	
3,800.00	3,651.16	1,540.73	1,494.33	18.39	7.48	83.04	-3,114.22	4,904.23	6,160.23	6,136.99	23.24	265.042	
3,900.00	3,741.63	1,593.07	1,542.74	19.15	7.88	83.19	-3,118.87	4,923.58	6,193.03	6,168.85	24.19	256.066	
4,000.00	3,832.10	1,674.84	1,618.26	19.92	8.51	83.42	-3,126.29	4,954.04	6,226.29	6,200.98	25.31	245.967	
4,100.00	3,922.57	1,817.23	1,750.03	20.69	9.60	83.82	-3,138.47	5,006.61	6,258.97	6,232.14	26.83	233.314	
4,200.00	4,013.05	1,874.00	1,802.53	21.47	10.04	83.97	-3,143.42	5,027.62	6,292.05	6,264.23	27.82	226.208	
4,300.00	4,103.52	2,127.83	2,038.44	22.25	11.98	84.69	-3,165.83	5,118.53	6,324.68	6,294.65	30.03	210.595	
4,400.00	4,193.99	2,158.00	2,066.63	23.03	12.20	84.77	-3,168.22	5,129.01	6,356.15	6,325.28	30.87	205.924	
4,500.00	4,284.47	2,214.68	2,119.41	23.81	12.64	84.92	-3,172.78	5,149.17	6,388.27	6,356.40	31.87	200.448	
4,600.00	4,374.94	2,252.00	2,153.97	24.60	12.93	85.02	-3,175.92	5,162.90	6,421.45	6,388.70	32.75	196.088	
4,700.00	4,465.41	2,384.47	2,276.73	25.39	13.96	85.37	-3,187.07	5,211.42	6,454.59	6,420.33	34.25	188.444	
4,800.00	4,555.88	2,478.43	2,363.80	26.18	14.69	85.62	-3,194.92	5,245.84	6,487.88	6,452.37	35.51	182.717	
4,900.00	4,646.36	2,565.66	2,444.85	26.97	15.37	85.84	-3,202.25	5,277.26	6,520.84	6,484.11	36.72	177.568	
5,000.00	4,736.83	2,604.32	2,480.67	27.76	15.68	85.94	-3,205.61	5,291.43	6,554.55	6,516.93	37.62	174.251	

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

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 91-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,827.30	2,649.04	2,521.94	28.55	16.03	86.06	-3,209.62	5,308.17	6,589.06	6,550.52	38.55	170.932	
5,200.00	4,917.77	2,706.06	2,574.42	29.35	16.49	86.20	-3,214.76	5,329.85	6,624.19	6,584.62	39.57	167.419	
5,300.00	5,008.25	2,781.74	2,643.94	30.15	17.11	86.39	-3,221.62	5,358.97	6,659.77	6,619.05	40.72	163.555	
5,400.00	5,098.72	2,930.06	2,780.42	30.94	18.32	86.75	-3,235.03	5,415.45	6,695.17	6,652.78	42.39	157.950	
5,500.00	5,189.19	2,993.26	2,838.69	31.74	18.84	86.90	-3,240.82	5,439.25	6,730.39	6,686.93	43.45	154.883	
5,600.00	5,279.67	3,060.34	2,900.44	32.54	19.38	87.07	-3,247.14	5,464.67	6,766.04	6,721.49	44.55	151.873	
5,700.00	5,370.14	3,120.85	2,956.02	33.34	19.88	87.21	-3,252.78	5,487.90	6,802.10	6,756.50	45.60	149.166	
5,800.00	5,460.61	3,169.18	3,000.30	34.14	20.29	87.32	-3,257.32	5,506.76	6,838.75	6,792.18	46.56	146.869	
5,900.00	5,551.08	3,329.97	3,147.51	34.94	21.63	87.68	-3,271.52	5,569.81	6,875.24	6,826.87	48.37	142.137	
6,000.00	5,641.56	3,403.87	3,215.35	35.75	22.24	87.85	-3,278.30	5,598.34	6,911.58	6,862.05	49.53	139.551	
6,100.00	5,732.03	3,542.51	3,343.06	36.55	23.38	88.18	-3,291.39	5,650.67	6,947.50	6,896.34	51.16	135.800	
6,200.00	5,822.50	3,574.00	3,372.06	37.35	23.63	88.25	-3,294.19	5,662.63	6,983.65	6,931.65	52.00	134.304	
6,300.00	5,912.97	3,621.00	3,415.19	38.16	24.03	88.35	-3,298.48	5,680.81	7,020.46	6,967.51	52.96	132.572	
6,400.00	6,003.45	6,400.00	3,482.49	38.96	47.71	88.51	-3,305.58	5,710.20	7,058.25	6,988.52	69.73	101.222	
6,500.00	6,093.92	3,877.71	3,650.30	39.77	26.18	88.91	-3,322.74	5,780.95	7,095.08	7,038.96	56.12	126.425	
6,600.00	6,184.39	3,990.35	3,754.22	40.57	27.09	89.17	-3,333.92	5,822.95	7,131.47	7,073.90	57.57	123.874	
6,700.00	6,274.87	4,113.77	3,868.01	41.38	28.10	89.44	-3,345.10	5,869.41	7,167.65	7,108.54	59.11	121.261	
6,800.00	6,365.34	6,701.01	6,376.96	42.18	40.32	96.59	-3,454.06	6,335.09	7,177.21	7,105.38	71.83	99.926	
6,900.00	6,455.81	6,768.60	6,444.55	42.99	40.45	96.82	-3,453.47	6,335.07	7,181.99	7,109.10	72.88	98.542	
7,000.00	6,546.28	6,826.24	6,502.18	43.80	40.57	97.01	-3,452.92	6,335.39	7,187.33	7,113.41	73.92	97.230	
7,100.00	6,636.76	6,881.00	6,556.94	44.61	40.69	97.18	-3,452.39	6,336.10	7,193.37	7,118.42	74.95	95.973	
7,200.00	6,727.23	6,954.08	6,630.00	45.41	40.85	97.42	-3,451.67	6,337.47	7,199.99	7,123.96	76.03	94.703	
7,300.00	6,817.70	7,093.63	6,769.51	46.22	41.17	97.87	-3,449.99	6,340.11	7,206.74	7,129.49	77.25	93.288	
7,383.79	6,893.51	7,194.94	6,870.80	46.90	41.39	98.19	-3,448.30	6,341.57	7,212.03	7,133.79	78.24	92.178	
7,400.00	6,908.25	7,209.14	6,885.00	47.03	41.43	95.94	-3,448.05	6,341.76	7,212.88	7,134.47	78.42	91.982	
7,450.00	6,954.52	7,253.64	6,929.49	47.40	41.52	87.13	-3,447.31	6,342.35	7,213.39	7,134.46	78.94	91.383	
7,500.00	7,001.74	7,336.48	7,012.31	47.72	41.70	75.00	-3,445.89	6,343.22	7,210.57	7,131.07	79.49	90.705	
7,550.00	7,049.55	7,376.53	7,052.36	47.99	41.79	59.21	-3,445.22	6,343.45	7,204.36	7,124.45	79.91	90.160	
7,600.00	7,097.58	7,405.51	7,081.33	48.21	41.85	41.39	-3,444.92	6,343.55	7,195.06	7,114.82	80.24	89.670	
7,650.00	7,145.48	7,434.36	7,110.18	48.37	41.91	24.46	-3,444.78	6,343.57	7,182.74	7,102.22	80.52	89.207	
7,700.00	7,192.88	7,515.31	7,191.13	48.48	42.06	10.44	-3,444.68	6,343.33	7,167.38	7,086.54	80.84	88.656	
7,750.00	7,239.41	7,669.63	7,345.44	48.54	42.36	-0.62	-3,443.20	6,341.87	7,148.59	7,067.34	81.26	87.974	
7,800.00	7,284.72	7,759.48	7,435.25	48.56	42.54	-9.50	-3,441.08	6,340.72	7,126.33	7,044.83	81.50	87.443	
7,850.00	7,328.47	7,796.54	7,472.30	48.54	42.61	-16.87	-3,440.11	6,340.28	7,101.46	7,019.87	81.59	87.037	
7,900.00	7,370.32	7,823.00	7,498.75	48.47	42.67	-23.31	-3,439.42	6,339.99	7,074.21	6,992.59	81.62	86.672	
7,950.00	7,409.96	7,823.00	7,498.75	48.37	42.67	-29.17	-3,439.42	6,339.99	7,044.92	6,963.37	81.55	86.384	
8,000.00	7,447.08	7,823.00	7,498.75	48.24	42.67	-34.77	-3,439.42	6,339.99	7,013.86	6,932.42	81.44	86.120	
8,050.00	7,481.41	7,823.00	7,498.75	48.07	42.67	-40.29	-3,439.42	6,339.99	6,981.23	6,899.94	81.29	85.881	
8,100.00	7,512.67	7,860.52	7,536.26	47.87	42.75	-46.12	-3,438.69	6,339.77	6,946.85	6,865.68	81.17	85.580	
8,150.00	7,540.64	7,867.46	7,543.20	47.65	42.76	-51.92	-3,438.61	6,339.77	6,911.62	6,830.66	80.96	85.372	
8,200.00	7,565.09	7,873.56	7,549.30	47.40	42.78	-57.85	-3,438.55	6,339.78	6,875.54	6,794.84	80.71	85.189	
8,250.00	7,585.85	7,878.76	7,554.50	47.14	42.79	-63.88	-3,438.51	6,339.80	6,838.89	6,758.46	80.43	85.033	
8,300.00	7,602.75	7,883.02	7,558.76	46.86	42.80	-69.91	-3,438.48	6,339.82	6,801.94	6,721.83	80.12	84.901	
8,350.00	7,615.67	7,918.00	7,593.74	46.58	42.87	-76.19	-3,438.49	6,340.16	6,765.27	6,685.43	79.85	84.729	
8,400.00	7,624.51	7,918.00	7,593.74	46.28	42.87	-81.83	-3,438.49	6,340.16	6,728.55	6,649.07	79.48	84.653	
8,450.00	7,629.19	7,918.00	7,593.74	45.98	42.87	-87.09	-3,438.49	6,340.16	6,692.43	6,613.32	79.11	84.601	
8,481.00	7,630.00	7,918.00	7,593.74	45.79	42.87	-90.13	-3,438.49	6,340.16	6,670.45	6,591.58	78.87	84.581	
8,500.00	7,630.00	7,918.00	7,593.74	45.68	42.87	-90.13	-3,438.49	6,340.16	6,657.11	6,578.40	78.72	84.571	
8,600.00	7,630.00	7,918.00	7,593.74	45.11	42.87	-90.13	-3,438.49	6,340.16	6,587.37	6,509.42	77.95	84.513	
8,700.00	7,630.00	7,918.00	7,593.74	44.56	42.87	-90.13	-3,438.49	6,340.16	6,518.41	6,441.22	77.19	84.447	
8,800.00	7,630.00	7,918.00	7,593.74	44.05	42.87	-90.13	-3,438.49	6,340.16	6,450.26	6,373.81	76.45	84.371	
8,900.00	7,630.00	7,918.00	7,593.74	43.57	42.87	-90.13	-3,438.49	6,340.16	6,382.96	6,307.22	75.73	84.280	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
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
9,000.00	7,630.00	7,918.00	7,593.74	43.12	42.87	-90.13	-3,438.49	6,340.16	6,316.52	6,241.48	75.04	84.170	
9,100.00	7,630.00	7,918.00	7,593.74	42.70	42.87	-90.13	-3,438.49	6,340.16	6,250.98	6,176.59	74.38	84.036	
9,200.00	7,630.00	7,918.00	7,593.74	42.31	42.87	-90.13	-3,438.49	6,340.16	6,186.35	6,112.59	73.76	83.872	
9,300.00	7,630.00	7,918.00	7,593.74	41.94	42.87	-90.13	-3,438.49	6,340.16	6,122.68	6,049.51	73.17	83.672	
9,400.00	7,630.00	7,918.00	7,593.74	41.59	42.87	-90.13	-3,438.49	6,340.16	6,059.99	5,987.35	72.63	83.432	
9,500.00	7,630.00	7,918.00	7,593.74	41.26	42.87	-90.13	-3,438.49	6,340.16	5,998.31	5,926.17	72.14	83.144	
9,600.00	7,630.00	7,918.00	7,593.74	40.96	42.87	-90.13	-3,438.49	6,340.16	5,937.67	5,865.97	71.71	82.802	
9,700.00	7,630.00	7,918.00	7,593.74	40.68	42.87	-90.13	-3,438.49	6,340.16	5,878.12	5,806.78	71.34	82.401	
9,800.00	7,630.00	7,918.00	7,593.74	40.42	42.87	-90.13	-3,438.49	6,340.16	5,819.66	5,748.63	71.03	81.933	
9,900.00	7,630.00	7,918.00	7,593.74	40.17	42.87	-90.13	-3,438.49	6,340.16	5,762.36	5,691.56	70.80	81.394	
10,000.00	7,630.00	7,918.00	7,593.74	39.96	42.87	-90.13	-3,438.49	6,340.16	5,706.23	5,635.59	70.64	80.779	
10,100.00	7,630.00	7,918.00	7,593.74	40.05	42.87	-90.13	-3,438.49	6,340.16	5,651.31	5,580.74	70.57	80.084	
10,200.00	7,630.00	7,918.00	7,593.74	40.95	42.87	-90.13	-3,438.49	6,340.16	5,597.64	5,527.05	70.58	79.306	
10,300.00	7,630.00	7,888.00	7,563.73	41.94	42.81	-89.77	-3,438.46	6,339.84	5,544.99	5,474.34	70.65	78.491	
10,400.00	7,630.00	7,887.87	7,563.61	42.98	42.81	-89.77	-3,438.46	6,339.84	5,493.92	5,423.07	70.85	77.545	
10,500.00	7,630.00	7,887.75	7,563.48	44.06	42.81	-89.76	-3,438.46	6,339.84	5,444.21	5,373.06	71.15	76.518	
10,600.00	7,630.00	7,887.62	7,563.36	45.17	42.81	-89.76	-3,438.46	6,339.84	5,395.89	5,324.34	71.55	75.413	
10,700.00	7,630.00	7,887.49	7,563.22	46.32	42.81	-89.76	-3,438.46	6,339.84	5,349.01	5,276.96	72.05	74.237	
10,800.00	7,630.00	7,887.35	7,563.09	47.50	42.81	-89.76	-3,438.46	6,339.84	5,303.60	5,230.94	72.66	72.994	
10,900.00	7,630.00	7,887.21	7,562.95	48.70	42.81	-89.76	-3,438.46	6,339.84	5,259.70	5,186.34	73.36	71.694	
11,000.00	7,630.00	7,887.07	7,562.81	49.94	42.81	-89.76	-3,438.46	6,339.84	5,217.35	5,143.18	74.17	70.343	
11,100.00	7,630.00	7,886.93	7,562.67	51.20	42.81	-89.75	-3,438.46	6,339.84	5,176.58	5,101.51	75.08	68.952	
11,200.00	7,630.00	7,886.78	7,562.52	52.48	42.81	-89.75	-3,438.46	6,339.84	5,137.44	5,061.36	76.08	67.529	
11,300.00	7,630.00	7,886.63	7,562.37	53.79	42.81	-89.75	-3,438.46	6,339.84	5,099.95	5,022.78	77.17	66.085	
11,400.00	7,630.00	7,886.48	7,562.22	55.12	42.80	-89.75	-3,438.46	6,339.84	5,064.17	4,985.81	78.36	64.628	
11,500.00	7,630.00	7,886.32	7,562.06	56.46	42.80	-89.75	-3,438.47	6,339.83	5,030.11	4,950.48	79.63	63.167	
11,600.00	7,630.00	7,886.16	7,561.90	57.83	42.80	-89.75	-3,438.47	6,339.83	4,997.83	4,916.84	80.99	61.711	
11,700.00	7,630.00	7,885.99	7,561.73	59.22	42.80	-89.74	-3,438.47	6,339.83	4,967.35	4,884.93	82.42	60.267	
11,800.00	7,630.00	7,885.83	7,561.56	60.62	42.80	-89.74	-3,438.47	6,339.83	4,938.71	4,854.78	83.93	58.842	
11,900.00	7,630.00	7,885.65	7,561.39	62.04	42.80	-89.74	-3,438.47	6,339.83	4,911.93	4,826.42	85.51	57.443	
12,000.00	7,630.00	7,885.47	7,561.21	63.48	42.80	-89.74	-3,438.47	6,339.83	4,887.06	4,799.91	87.15	56.075	
12,100.00	7,630.00	7,885.29	7,561.03	64.93	42.80	-89.73	-3,438.47	6,339.83	4,864.11	4,775.26	88.86	54.742	
12,200.00	7,630.00	7,885.10	7,560.84	66.39	42.80	-89.73	-3,438.47	6,339.83	4,843.13	4,752.51	90.61	53.449	
12,300.00	7,630.00	7,884.91	7,560.65	67.86	42.80	-89.73	-3,438.47	6,339.83	4,824.12	4,731.70	92.42	52.198	
12,400.00	7,630.00	7,884.72	7,560.45	69.35	42.80	-89.73	-3,438.47	6,339.83	4,807.12	4,712.85	94.27	50.993	
12,500.00	7,630.00	7,884.51	7,560.25	70.85	42.80	-89.73	-3,438.47	6,339.82	4,792.15	4,695.98	96.16	49.834	
12,600.00	7,630.00	7,884.31	7,560.04	72.36	42.80	-89.72	-3,438.48	6,339.82	4,779.22	4,681.13	98.09	48.724	
12,700.00	7,630.00	7,884.09	7,559.83	73.88	42.80	-89.72	-3,438.48	6,339.82	4,768.35	4,668.31	100.04	47.664	
12,800.00	7,630.00	7,883.87	7,559.61	75.41	42.80	-89.72	-3,438.48	6,339.82	4,759.56	4,657.55	102.02	46.654	
12,900.00	7,630.00	7,883.65	7,559.38	76.95	42.80	-89.71	-3,438.48	6,339.82	4,752.86	4,648.85	104.01	45.694	
13,000.00	7,630.00	7,883.41	7,559.15	78.49	42.80	-89.71	-3,438.48	6,339.82	4,748.26	4,642.23	106.02	44.785	
13,100.00	7,630.00	7,883.18	7,558.91	80.05	42.80	-89.71	-3,438.48	6,339.82	4,745.76	4,637.72	108.04	43.925	
13,168.70	7,630.00	7,883.01	7,558.74	81.12	42.80	-89.71	-3,438.48	6,339.82	4,745.26	4,635.83	109.43	43.362	CC
13,200.00	7,630.00	7,882.93	7,558.67	81.61	42.80	-89.71	-3,438.48	6,339.82	4,745.36	4,635.30	110.07	43.114	
13,300.00	7,630.00	7,882.68	7,558.41	83.18	42.80	-89.70	-3,438.48	6,339.81	4,747.08	4,634.99	112.09	42.352	ES
13,400.00	7,630.00	7,882.42	7,558.15	84.76	42.80	-89.70	-3,438.49	6,339.81	4,750.89	4,636.79	114.10	41.637	
13,500.00	7,630.00	7,882.15	7,557.88	86.34	42.80	-89.70	-3,438.49	6,339.81	4,756.81	4,640.70	116.11	40.969	
13,600.00	7,630.00	7,881.87	7,557.61	87.94	42.79	-89.69	-3,438.49	6,339.81	4,764.82	4,646.72	118.10	40.346	
13,700.00	7,630.00	7,881.58	7,557.32	89.53	42.79	-89.69	-3,438.49	6,339.81	4,774.91	4,654.84	120.07	39.767	
13,800.00	7,630.00	7,881.29	7,557.02	91.13	42.79	-89.69	-3,438.49	6,339.81	4,787.07	4,665.05	122.02	39.231	
13,900.00	7,630.00	7,880.98	7,556.72	92.74	42.79	-89.68	-3,438.49	6,339.81	4,801.28	4,677.33	123.95	38.736	
14,000.00	7,630.00	7,880.66	7,556.40	94.35	42.79	-89.68	-3,438.50	6,339.80	4,817.53	4,691.68	125.84	38.282	

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

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

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 91-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	7,880.34	7,556.07	95.97	42.79	-89.67	-3,438.50	6,339.80	4,835.78	4,708.08	127.71	37.866	
14,200.00	7,630.00	7,880.00	7,555.74	97.60	42.79	-89.67	-3,438.50	6,339.80	4,856.03	4,726.50	129.54	37.488	
14,300.00	7,630.00	7,879.65	7,555.39	99.22	42.79	-89.67	-3,438.50	6,339.80	4,878.25	4,746.92	131.33	37.145	
14,400.00	7,630.00	7,879.29	7,555.02	100.85	42.79	-89.66	-3,438.51	6,339.80	4,902.40	4,769.32	133.08	36.838	
14,500.00	7,630.00	7,878.91	7,554.65	102.49	42.79	-89.66	-3,438.51	6,339.80	4,928.47	4,793.68	134.79	36.564	
14,600.00	7,630.00	7,878.52	7,554.26	104.13	42.79	-89.65	-3,438.51	6,339.80	4,956.42	4,819.96	136.46	36.323	
14,700.00	7,630.00	7,878.12	7,553.85	105.77	42.79	-89.65	-3,438.51	6,339.79	4,986.21	4,848.14	138.08	36.112	
14,800.00	7,630.00	7,877.70	7,553.43	107.42	42.79	-89.64	-3,438.52	6,339.79	5,017.83	4,878.18	139.65	35.931	
14,900.00	7,630.00	7,877.26	7,553.00	109.07	42.78	-89.64	-3,438.52	6,339.79	5,051.22	4,910.04	141.18	35.779	
15,000.00	7,630.00	7,876.80	7,552.54	110.72	42.78	-89.63	-3,438.52	6,339.79	5,086.36	4,943.70	142.66	35.654	
15,100.00	7,630.00	7,876.33	7,552.07	112.38	42.78	-89.63	-3,438.53	6,339.79	5,123.22	4,979.12	144.09	35.555	
15,200.00	7,630.00	7,875.84	7,551.57	114.04	42.78	-89.62	-3,438.53	6,339.79	5,161.74	5,016.27	145.48	35.482	
15,300.00	7,630.00	7,875.32	7,551.06	115.71	42.78	-89.61	-3,438.54	6,339.78	5,201.91	5,055.10	146.81	35.433	
15,400.00	7,630.00	7,874.79	7,550.52	117.37	42.78	-89.61	-3,438.54	6,339.78	5,243.67	5,095.57	148.10	35.407	
15,500.00	7,630.00	7,874.22	7,549.96	119.04	42.78	-89.60	-3,438.54	6,339.78	5,287.00	5,137.66	149.34	35.403	SF
15,600.00	7,630.00	7,873.64	7,549.37	120.71	42.78	-89.59	-3,438.55	6,339.78	5,331.85	5,181.32	150.53	35.421	
15,700.00	7,630.00	7,873.02	7,548.76	122.39	42.78	-89.59	-3,438.55	6,339.78	5,378.18	5,226.51	151.67	35.460	
15,800.00	7,630.00	7,872.38	7,548.12	124.06	42.77	-89.58	-3,438.56	6,339.78	5,425.96	5,273.19	152.77	35.518	
15,900.00	7,630.00	7,871.70	7,547.44	125.74	42.77	-89.57	-3,438.57	6,339.77	5,475.15	5,321.33	153.82	35.595	
16,000.00	7,630.00	7,870.99	7,546.73	127.42	42.77	-89.56	-3,438.57	6,339.77	5,525.72	5,370.89	154.83	35.690	
16,100.00	7,630.00	7,870.25	7,545.98	129.10	42.77	-89.55	-3,438.58	6,339.77	5,577.62	5,421.83	155.79	35.802	
16,200.00	7,630.00	7,869.46	7,545.20	130.79	42.77	-89.54	-3,438.59	6,339.77	5,630.81	5,474.10	156.71	35.931	
16,300.00	7,630.00	7,868.63	7,544.37	132.48	42.77	-89.53	-3,438.60	6,339.77	5,685.27	5,527.68	157.59	36.076	
16,400.00	7,630.00	7,867.75	7,543.49	134.17	42.76	-89.52	-3,438.61	6,339.77	5,740.95	5,582.52	158.43	36.236	
16,500.00	7,630.00	7,866.83	7,542.56	135.86	42.76	-89.51	-3,438.62	6,339.77	5,797.82	5,638.59	159.23	36.412	
16,600.00	7,630.00	7,865.84	7,541.58	137.55	42.76	-89.50	-3,438.63	6,339.77	5,855.85	5,695.86	159.99	36.601	
16,700.00	7,630.00	7,864.80	7,540.54	139.24	42.76	-89.49	-3,438.64	6,339.77	5,915.00	5,754.28	160.72	36.804	
16,800.00	7,630.00	7,863.69	7,539.43	140.94	42.75	-89.47	-3,438.65	6,339.77	5,975.23	5,813.83	161.41	37.019	
16,900.00	7,630.00	7,862.51	7,538.25	142.64	42.75	-89.46	-3,438.67	6,339.77	6,036.53	5,874.46	162.06	37.248	
17,000.00	7,630.00	7,861.25	7,536.99	144.34	42.75	-89.44	-3,438.68	6,339.77	6,098.84	5,936.16	162.69	37.488	
17,100.00	7,630.00	7,859.90	7,535.64	146.04	42.75	-89.43	-3,438.70	6,339.77	6,162.15	5,998.87	163.28	37.740	
17,200.00	7,630.00	7,858.46	7,534.20	147.74	42.74	-89.41	-3,438.72	6,339.77	6,226.42	6,062.58	163.84	38.004	
17,300.00	7,630.00	7,856.90	7,532.64	149.44	42.74	-89.39	-3,438.74	6,339.77	6,291.62	6,127.25	164.37	38.277	
17,400.00	7,630.00	7,855.23	7,530.96	151.15	42.74	-89.37	-3,438.77	6,339.78	6,357.73	6,192.86	164.87	38.562	
17,500.00	7,630.00	7,853.41	7,529.15	152.86	42.73	-89.35	-3,438.79	6,339.78	6,424.71	6,259.36	165.35	38.856	
17,600.00	7,630.00	7,851.44	7,527.18	154.56	42.73	-89.33	-3,438.83	6,339.79	6,492.54	6,326.74	165.80	39.159	
17,700.00	7,630.00	7,849.30	7,525.04	156.27	42.72	-89.30	-3,438.86	6,339.79	6,561.20	6,394.97	166.22	39.472	
17,800.00	7,630.00	7,846.96	7,522.70	157.98	42.72	-89.27	-3,438.90	6,339.80	6,630.65	6,464.02	166.63	39.794	
17,900.00	7,630.00	7,844.40	7,520.14	159.70	42.71	-89.24	-3,438.95	6,339.82	6,700.87	6,533.86	167.01	40.124	
18,000.00	7,630.00	7,841.57	7,517.31	161.41	42.71	-89.21	-3,439.00	6,339.83	6,771.84	6,604.48	167.36	40.462	
18,100.00	7,630.00	7,838.43	7,514.18	163.12	42.70	-89.17	-3,439.06	6,339.85	6,843.53	6,675.83	167.70	40.808	
18,154.00	7,630.00	7,836.60	7,512.34	164.05	42.70	-89.15	-3,439.10	6,339.87	6,882.55	6,714.67	167.87	40.998	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	81.99	771.44	5,485.36	5,540.07				
100.00	100.00	10.00	10.00	0.13	0.08	81.99	771.44	5,485.36	5,539.34	5,539.13	0.21	N/A	
200.00	200.00	110.00	110.00	0.49	0.95	81.99	771.44	5,485.36	5,539.34	5,537.90	1.44	3,835.833	
300.00	300.00	210.00	210.00	0.85	2.70	81.99	771.44	5,485.36	5,539.34	5,535.79	3.55	1,561.299	
400.00	400.00	310.00	310.00	1.21	4.44	81.99	771.44	5,485.36	5,539.34	5,533.69	5.65	980.119	
500.00	500.00	410.00	410.00	1.57	6.19	81.99	771.44	5,485.36	5,539.34	5,531.59	7.76	714.246	
600.00	600.00	510.00	510.00	1.93	7.93	81.99	771.44	5,485.36	5,539.34	5,529.48	9.86	561.839	
700.00	700.00	610.00	610.00	2.29	9.68	81.99	771.44	5,485.36	5,539.34	5,527.38	11.96	463.035	
800.00	800.00	710.00	710.00	2.64	11.42	81.99	771.44	5,485.36	5,539.34	5,525.27	14.07	393.785	
900.00	900.00	810.00	810.00	3.00	13.17	81.99	771.44	5,485.36	5,539.34	5,523.17	16.17	342.554	
1,000.00	1,000.00	910.00	910.00	3.36	14.91	81.99	771.44	5,485.36	5,539.34	5,521.07	18.27	303.118	
1,100.00	1,100.00	1,010.00	1,010.00	3.72	16.66	81.99	771.44	5,485.36	5,539.34	5,518.96	20.38	271.825	
1,200.00	1,200.00	1,110.00	1,110.00	4.08	18.40	81.99	771.44	5,485.36	5,539.34	5,516.86	22.48	246.389	
1,300.00	1,300.00	1,210.00	1,210.00	4.44	20.15	81.99	771.44	5,485.36	5,539.34	5,514.76	24.59	225.305	
1,400.00	1,400.00	1,310.00	1,310.00	4.79	21.90	81.99	771.44	5,485.36	5,539.34	5,512.65	26.69	207.546	
1,500.00	1,499.98	1,409.98	1,409.98	5.15	23.64	44.22	771.44	5,485.36	5,538.09	5,509.30	28.79	192.356	
1,600.00	1,599.84	1,509.84	1,509.84	5.51	25.38	44.31	771.44	5,485.36	5,534.34	5,503.45	30.89	179.173	
1,700.00	1,699.45	1,609.45	1,609.45	5.87	27.12	44.46	771.44	5,485.36	5,528.10	5,495.12	32.98	167.609	
1,800.00	1,798.70	1,708.70	1,708.70	6.23	28.85	44.67	771.44	5,485.36	5,519.38	5,484.31	35.07	157.373	
1,900.00	1,897.47	1,807.47	1,807.47	6.60	30.58	44.94	771.44	5,485.36	5,508.22	5,471.06	37.16	148.239	
2,000.00	1,995.62	1,905.62	1,905.62	6.99	32.29	45.28	771.44	5,485.36	5,494.63	5,455.39	39.24	140.029	
2,100.00	2,093.06	2,003.06	2,003.06	7.39	33.99	45.67	771.44	5,485.36	5,478.64	5,437.33	41.32	132.598	
2,200.00	2,189.64	2,100.36	2,099.64	7.82	35.69	46.13	771.44	5,485.36	5,460.31	5,416.91	43.41	125.796	
2,300.00	2,285.27	2,204.73	2,195.27	8.28	37.51	46.65	771.44	5,485.36	5,439.68	5,394.05	45.63	119.204	
2,400.00	2,379.82	2,289.82	2,289.82	8.77	39.00	47.24	771.44	5,485.36	5,416.80	5,369.25	47.54	113.934	
2,500.00	2,473.17	2,383.17	2,383.17	9.31	40.63	47.89	771.44	5,485.36	5,391.72	5,342.10	49.62	108.661	
2,600.00	2,565.21	2,475.21	2,475.21	9.88	42.23	48.61	771.44	5,485.36	5,364.52	5,312.82	51.70	103.765	
2,660.67	2,620.37	2,530.37	2,530.37	10.25	43.19	49.08	771.44	5,485.36	5,347.02	5,294.05	52.96	100.958	
2,700.00	2,655.96	2,565.96	2,565.96	10.50	43.82	49.21	771.44	5,485.36	5,335.44	5,281.66	53.78	99.202	
2,800.00	2,746.43	2,656.43	2,656.43	11.15	45.39	49.54	771.44	5,485.36	5,306.13	5,250.24	55.88	94.950	
2,900.00	2,836.90	2,746.90	2,746.90	11.82	46.97	49.87	771.44	5,485.36	5,277.00	5,219.00	58.00	90.979	
3,000.00	2,927.37	2,837.37	2,837.37	12.50	48.55	50.21	771.44	5,485.36	5,248.05	5,187.91	60.14	87.267	
3,100.00	3,017.85	2,927.85	2,927.85	13.21	50.13	50.55	771.44	5,485.36	5,219.29	5,157.00	62.29	83.791	
3,200.00	3,108.32	3,018.32	3,018.32	13.92	51.71	50.89	771.44	5,485.36	5,190.73	5,126.27	64.46	80.532	
3,300.00	3,198.79	3,108.79	3,108.79	14.64	53.29	51.24	771.44	5,485.36	5,162.35	5,095.72	66.63	77.473	
3,400.00	3,289.27	3,200.73	3,199.27	15.38	54.89	51.59	771.44	5,485.36	5,134.17	5,065.32	68.85	74.569	
3,500.00	3,379.74	3,289.74	3,289.74	16.12	56.45	51.94	771.44	5,485.36	5,106.19	5,035.17	71.03	71.890	
3,600.00	3,470.21	3,380.21	3,380.21	16.87	58.03	52.30	771.44	5,485.36	5,078.42	5,005.18	73.24	69.339	
3,700.00	3,560.68	3,470.68	3,470.68	17.62	59.61	52.65	771.44	5,485.36	5,050.85	4,975.39	75.46	66.931	
3,800.00	3,651.16	3,561.16	3,561.16	18.39	61.19	53.02	771.44	5,485.36	5,023.49	4,945.80	77.70	64.656	
3,900.00	3,741.63	3,651.63	3,651.63	19.15	62.76	53.38	771.44	5,485.36	4,996.35	4,916.41	79.94	62.503	
4,000.00	3,832.10	3,742.10	3,742.10	19.92	64.34	53.76	771.44	5,485.36	4,969.42	4,887.23	82.19	60.465	
4,100.00	3,922.57	3,832.57	3,832.57	20.69	65.92	54.13	771.44	5,485.36	4,942.71	4,858.26	84.45	58.531	
4,200.00	4,013.05	3,923.05	3,923.05	21.47	67.50	54.51	771.44	5,485.36	4,916.23	4,829.51	86.71	56.696	
4,300.00	4,103.52	4,013.52	4,013.52	22.25	69.08	54.89	771.44	5,485.36	4,889.97	4,800.98	88.99	54.952	
4,400.00	4,193.99	4,103.99	4,103.99	23.03	70.66	55.27	771.44	5,485.36	4,863.95	4,772.68	91.27	53.294	
4,500.00	4,284.47	4,205.53	4,194.47	23.81	72.43	55.66	771.44	5,485.36	4,838.16	4,744.41	93.75	51.608	
4,600.00	4,374.94	4,284.94	4,284.94	24.60	73.82	56.05	771.44	5,485.36	4,812.60	4,716.75	95.85	50.209	
4,700.00	4,465.41	4,375.41	4,375.41	25.39	75.40	56.45	771.44	5,485.36	4,787.30	4,689.14	98.15	48.773	
4,800.00	4,555.88	4,465.88	4,465.88	26.18	76.98	56.85	771.44	5,485.36	4,762.23	4,661.77	100.46	47.403	
4,900.00	4,646.36	4,556.36	4,556.36	26.97	78.55	57.25	771.44	5,485.36	4,737.42	4,634.65	102.78	46.093	
5,000.00	4,736.83	4,646.83	4,646.83	27.76	80.13	57.65	771.44	5,485.36	4,712.87	4,607.77	105.10	44.841	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,827.30	4,737.30	4,737.30	28.55	81.71	58.06	771.44	5,485.36	4,688.57	4,581.14	107.43	43.643	
5,200.00	4,917.77	4,827.77	4,827.77	29.35	83.29	58.48	771.44	5,485.36	4,664.53	4,554.77	109.76	42.496	
5,300.00	5,008.25	4,918.25	4,918.25	30.15	84.87	58.90	771.44	5,485.36	4,640.76	4,528.66	112.11	41.396	
5,400.00	5,098.72	5,008.72	5,008.72	30.94	86.45	59.32	771.44	5,485.36	4,617.27	4,502.81	114.45	40.342	
5,500.00	5,189.19	5,100.81	5,099.19	31.74	88.06	59.74	771.44	5,485.36	4,594.04	4,477.21	116.83	39.321	
5,600.00	5,279.67	5,189.67	5,189.67	32.54	89.61	60.17	771.44	5,485.36	4,571.10	4,451.93	119.16	38.359	
5,700.00	5,370.14	5,280.14	5,280.14	33.34	91.19	60.60	771.44	5,485.36	4,548.44	4,426.91	121.53	37.427	
5,800.00	5,460.61	5,370.61	5,370.61	34.14	92.77	61.04	771.44	5,485.36	4,526.06	4,402.16	123.90	36.530	
5,900.00	5,551.08	5,461.08	5,461.08	34.94	94.35	61.48	771.44	5,485.36	4,503.98	4,377.70	126.28	35.668	
6,000.00	5,641.56	5,551.56	5,551.56	35.75	95.92	61.92	771.44	5,485.36	4,482.19	4,353.54	128.66	34.839	
6,100.00	5,732.03	5,642.03	5,642.03	36.55	97.50	62.37	771.44	5,485.36	4,460.71	4,329.66	131.04	34.040	
6,200.00	5,822.50	5,732.50	5,732.50	37.35	99.08	62.82	771.44	5,485.36	4,439.53	4,306.09	133.43	33.271	
6,300.00	5,912.97	5,822.97	5,822.97	38.16	100.66	63.27	771.44	5,485.36	4,418.65	4,282.82	135.83	32.531	
6,400.00	6,003.45	5,913.45	5,913.45	38.96	102.24	63.73	771.44	5,485.36	4,398.10	4,259.86	138.23	31.817	
6,500.00	6,093.92	6,003.92	6,003.92	39.77	103.82	64.19	771.44	5,485.36	4,377.86	4,237.22	140.64	31.128	
6,600.00	6,184.39	6,105.61	6,094.39	40.57	105.59	64.66	771.44	5,485.36	4,357.94	4,214.69	143.25	30.423	
6,700.00	6,274.87	6,184.87	6,184.87	41.38	106.98	65.13	771.44	5,485.36	4,338.35	4,192.88	145.47	29.824	
6,800.00	6,365.34	6,275.34	6,275.34	42.18	108.56	65.60	771.44	5,485.36	4,319.09	4,171.20	147.89	29.205	
6,900.00	6,455.81	6,365.81	6,365.81	42.99	110.14	66.08	771.44	5,485.36	4,300.16	4,149.85	150.31	28.608	
7,000.00	6,546.28	6,456.28	6,456.28	43.80	111.71	66.56	771.44	5,485.36	4,281.58	4,128.84	152.74	28.032	
7,100.00	6,636.76	6,546.76	6,546.76	44.61	113.29	67.04	771.44	5,485.36	4,263.34	4,108.17	155.17	27.474	
7,200.00	6,727.23	6,637.23	6,637.23	45.41	114.87	67.53	771.44	5,485.36	4,245.45	4,087.84	157.61	26.936	
7,300.00	6,817.70	6,727.70	6,727.70	46.22	116.45	68.02	771.44	5,485.36	4,227.91	4,067.86	160.05	26.416	
7,383.79	6,893.51	6,803.51	6,803.51	46.90	117.77	68.43	771.44	5,485.36	4,213.50	4,051.40	162.10	25.993	
7,400.00	6,908.25	6,818.25	6,818.25	47.03	118.03	65.89	771.44	5,485.36	4,210.66	4,048.17	162.50	25.913	
7,450.00	6,954.52	6,864.52	6,864.52	47.40	118.84	56.20	771.44	5,485.36	4,201.07	4,037.39	163.68	25.666	
7,500.00	7,001.74	6,911.74	6,911.74	47.72	119.66	43.16	771.44	5,485.36	4,190.21	4,025.39	164.82	25.423	
7,550.00	7,049.55	6,959.55	6,959.55	47.99	120.50	26.62	771.44	5,485.36	4,178.14	4,012.24	165.90	25.185	
7,600.00	7,097.58	7,007.58	7,007.58	48.21	121.34	8.12	771.44	5,485.36	4,164.91	3,998.00	166.91	24.953	
7,650.00	7,145.48	7,055.48	7,055.48	48.37	122.17	-9.44	771.44	5,485.36	4,150.63	3,982.78	167.85	24.729	
7,700.00	7,192.88	7,102.88	7,102.88	48.48	123.00	-24.04	771.44	5,485.36	4,135.39	3,966.68	168.70	24.513	
7,750.00	7,239.41	7,149.41	7,149.41	48.54	123.81	-35.50	771.44	5,485.36	4,119.33	3,949.84	169.48	24.305	
7,800.00	7,284.72	7,205.28	7,194.72	48.56	124.79	-44.49	771.44	5,485.36	4,102.59	3,932.23	170.36	24.081	
7,850.00	7,328.47	7,238.47	7,238.47	48.54	125.37	-51.74	771.44	5,485.36	4,085.35	3,914.56	170.79	23.920	
7,900.00	7,370.32	7,280.32	7,280.32	48.47	126.10	-57.78	771.44	5,485.36	4,067.78	3,896.47	171.31	23.745	
7,950.00	7,409.96	7,319.96	7,319.96	48.37	126.79	-62.95	771.44	5,485.36	4,050.07	3,878.34	171.74	23.583	
8,000.00	7,447.08	7,357.08	7,357.08	48.24	127.44	-67.47	771.44	5,485.36	4,032.44	3,860.37	172.07	23.434	
8,050.00	7,481.41	7,408.59	7,391.41	48.07	128.34	-71.47	771.44	5,485.36	4,015.09	3,842.48	172.62	23.260	
8,100.00	7,512.67	7,422.67	7,422.67	47.87	128.58	-75.03	771.44	5,485.36	3,998.23	3,825.77	172.46	23.183	
8,150.00	7,540.64	7,450.64	7,450.64	47.65	129.07	-78.20	771.44	5,485.36	3,982.07	3,809.56	172.52	23.082	
8,200.00	7,565.09	7,475.09	7,475.09	47.40	129.50	-80.99	771.44	5,485.36	3,966.82	3,794.34	172.48	22.998	
8,250.00	7,585.85	7,504.15	7,495.85	47.14	130.00	-83.42	771.44	5,485.36	3,952.67	3,780.16	172.51	22.913	
8,300.00	7,602.75	7,512.75	7,512.75	46.86	130.15	-85.49	771.44	5,485.36	3,939.80	3,767.64	172.16	22.885	
8,350.00	7,615.67	7,525.67	7,525.67	46.58	130.38	-87.21	771.44	5,485.36	3,928.37	3,756.49	171.88	22.856	
8,400.00	7,624.51	7,534.51	7,534.51	46.28	130.53	-88.56	771.44	5,485.36	3,918.52	3,747.00	171.52	22.846 SF	
8,450.00	7,629.19	7,539.19	7,539.19	45.98	130.62	-89.56	771.44	5,485.36	3,910.37	3,739.27	171.10	22.855	
8,481.00	7,630.00	7,540.00	7,540.00	45.79	130.63	-90.00	771.44	5,485.36	3,906.20	3,735.40	170.80	22.870	
8,500.00	7,630.00	7,540.00	7,540.00	45.68	130.63	-90.00	771.44	5,485.36	3,903.91	3,733.30	170.62	22.881	
8,600.00	7,630.00	7,540.00	7,540.00	45.11	130.63	-90.00	771.44	5,485.36	3,893.35	3,723.66	169.69	22.944	
8,700.00	7,630.00	7,540.00	7,540.00	44.56	130.63	-90.00	771.44	5,485.36	3,885.34	3,716.47	168.86	23.009	
8,800.00	7,630.00	7,540.00	7,540.00	44.05	130.63	-90.00	771.44	5,485.36	3,879.89	3,711.74	168.15	23.074	
8,900.00	7,630.00	7,540.00	7,540.00	43.57	130.63	-90.00	771.44	5,485.36	3,877.01	3,709.46	167.55	23.140	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
8,961.69	7,630.00	7,540.00	7,540.00	43.29	130.63	-90.00	771.44	5,485.36	3,876.52	3,709.26	167.25	23.177	CC, ES
9,000.00	7,630.00	7,540.00	7,540.00	43.12	130.63	-90.00	771.44	5,485.36	3,876.70	3,709.62	167.08	23.203	
9,100.00	7,630.00	7,540.00	7,540.00	42.70	130.63	-90.00	771.44	5,485.36	3,878.98	3,712.23	166.75	23.263	
9,200.00	7,630.00	7,540.00	7,540.00	42.31	130.63	-90.00	771.44	5,485.36	3,883.83	3,717.28	166.56	23.319	
9,300.00	7,630.00	7,540.00	7,540.00	41.94	130.63	-90.00	771.44	5,485.36	3,891.25	3,724.74	166.51	23.370	
9,400.00	7,630.00	7,540.00	7,540.00	41.59	130.63	-90.00	771.44	5,485.36	3,901.22	3,734.62	166.60	23.417	
9,500.00	7,630.00	7,540.00	7,540.00	41.26	130.63	-90.00	771.44	5,485.36	3,913.71	3,746.89	166.83	23.460	
9,600.00	7,630.00	7,540.00	7,540.00	40.96	130.63	-90.00	771.44	5,485.36	3,928.72	3,761.53	167.19	23.499	
9,700.00	7,630.00	7,540.00	7,540.00	40.68	130.63	-90.00	771.44	5,485.36	3,946.20	3,778.53	167.67	23.535	
9,800.00	7,630.00	7,540.00	7,540.00	40.42	130.63	-90.00	771.44	5,485.36	3,966.12	3,797.85	168.27	23.570	
9,900.00	7,630.00	7,540.00	7,540.00	40.17	130.63	-90.00	771.44	5,485.36	3,988.46	3,819.49	168.97	23.604	
10,000.00	7,630.00	7,540.00	7,540.00	39.96	130.63	-90.00	771.44	5,485.36	4,013.16	3,843.40	169.76	23.640	
10,100.00	7,630.00	7,540.00	7,540.00	40.05	130.63	-90.00	771.44	5,485.36	4,040.19	3,869.55	170.64	23.677	
10,200.00	7,630.00	7,540.00	7,540.00	40.95	130.63	-90.00	771.44	5,485.36	4,069.49	3,897.92	171.57	23.719	
10,300.00	7,630.00	7,540.00	7,540.00	41.94	130.63	-90.00	771.44	5,485.36	4,101.03	3,928.46	172.57	23.765	
10,400.00	7,630.00	7,540.00	7,540.00	42.98	130.63	-90.00	771.44	5,485.36	4,134.74	3,961.13	173.61	23.816	
10,500.00	7,630.00	7,540.00	7,540.00	44.06	130.63	-90.00	771.44	5,485.36	4,170.58	3,995.90	174.69	23.875	
10,600.00	7,630.00	7,540.00	7,540.00	45.17	130.63	-90.00	771.44	5,485.36	4,208.49	4,032.70	175.79	23.940	
10,700.00	7,630.00	7,540.00	7,540.00	46.32	130.63	-90.00	771.44	5,485.36	4,248.42	4,071.51	176.91	24.014	
10,800.00	7,630.00	7,540.00	7,540.00	47.50	130.63	-90.00	771.44	5,485.36	4,290.31	4,112.26	178.05	24.097	
10,900.00	7,630.00	7,540.00	7,540.00	48.70	130.63	-90.00	771.44	5,485.36	4,334.10	4,154.91	179.18	24.188	
11,000.00	7,630.00	7,540.00	7,540.00	49.94	130.63	-90.00	771.44	5,485.36	4,379.73	4,199.41	180.32	24.288	
11,100.00	7,630.00	7,540.00	7,540.00	51.20	130.63	-90.00	771.44	5,485.36	4,427.16	4,245.70	181.45	24.398	
11,200.00	7,630.00	7,540.00	7,540.00	52.48	130.63	-90.00	771.44	5,485.36	4,476.31	4,293.74	182.58	24.517	
11,300.00	7,630.00	7,540.00	7,540.00	53.79	130.63	-90.00	771.44	5,485.36	4,527.15	4,343.46	183.69	24.646	
11,400.00	7,630.00	7,540.00	7,540.00	55.12	130.63	-90.00	771.44	5,485.36	4,579.60	4,394.81	184.78	24.784	
11,500.00	7,630.00	7,540.00	7,540.00	56.46	130.63	-90.00	771.44	5,485.36	4,633.61	4,447.75	185.86	24.931	
11,600.00	7,630.00	7,540.00	7,540.00	57.83	130.63	-90.00	771.44	5,485.36	4,689.14	4,502.23	186.91	25.087	
11,700.00	7,630.00	7,540.00	7,540.00	59.22	130.63	-90.00	771.44	5,485.36	4,746.12	4,558.18	187.95	25.252	
11,800.00	7,630.00	7,540.00	7,540.00	60.62	130.63	-90.00	771.44	5,485.36	4,804.51	4,615.55	188.96	25.426	
11,900.00	7,630.00	7,540.00	7,540.00	62.04	130.63	-90.00	771.44	5,485.36	4,864.26	4,674.31	189.95	25.609	
12,000.00	7,630.00	7,540.00	7,540.00	63.48	130.63	-90.00	771.44	5,485.36	4,925.31	4,734.40	190.91	25.799	
12,100.00	7,630.00	7,540.00	7,540.00	64.93	130.63	-90.00	771.44	5,485.36	4,987.62	4,795.77	191.85	25.998	
12,200.00	7,630.00	7,540.00	7,540.00	66.39	130.63	-90.00	771.44	5,485.36	5,051.14	4,858.38	192.76	26.205	
12,300.00	7,630.00	7,540.00	7,540.00	67.86	130.63	-90.00	771.44	5,485.36	5,115.83	4,922.18	193.64	26.419	
12,400.00	7,630.00	7,540.00	7,540.00	69.35	130.63	-90.00	771.44	5,485.36	5,181.63	4,987.13	194.51	26.640	
12,500.00	7,630.00	7,540.00	7,540.00	70.85	130.63	-90.00	771.44	5,485.36	5,248.52	5,053.18	195.34	26.868	
12,600.00	7,630.00	7,540.00	7,540.00	72.36	130.63	-90.00	771.44	5,485.36	5,316.45	5,120.30	196.15	27.104	
12,700.00	7,630.00	7,540.00	7,540.00	73.88	130.63	-90.00	771.44	5,485.36	5,385.38	5,188.44	196.94	27.346	
12,800.00	7,630.00	7,540.00	7,540.00	75.41	130.63	-90.00	771.44	5,485.36	5,455.27	5,257.57	197.70	27.594	
12,900.00	7,630.00	7,540.00	7,540.00	76.95	130.63	-90.00	771.44	5,485.36	5,526.09	5,327.65	198.44	27.848	
13,000.00	7,630.00	7,540.00	7,540.00	78.49	130.63	-90.00	771.44	5,485.36	5,597.79	5,398.64	199.15	28.108	
13,100.00	7,630.00	7,540.00	7,540.00	80.05	130.63	-90.00	771.44	5,485.36	5,670.36	5,470.51	199.85	28.373	
13,200.00	7,630.00	7,540.00	7,540.00	81.61	130.63	-90.00	771.44	5,485.36	5,743.75	5,543.23	200.52	28.645	
13,300.00	7,630.00	7,540.00	7,540.00	83.18	130.63	-90.00	771.44	5,485.36	5,817.93	5,616.76	201.17	28.921	
13,400.00	7,630.00	7,540.00	7,540.00	84.76	130.63	-90.00	771.44	5,485.36	5,892.87	5,691.08	201.80	29.202	
13,500.00	7,630.00	7,540.00	7,540.00	86.34	130.63	-90.00	771.44	5,485.36	5,968.55	5,766.15	202.41	29.488	
13,600.00	7,630.00	7,540.00	7,540.00	87.94	130.63	-90.00	771.44	5,485.36	6,044.94	5,841.94	202.99	29.779	
13,700.00	7,630.00	7,540.00	7,540.00	89.53	130.63	-90.00	771.44	5,485.36	6,122.00	5,918.44	203.56	30.074	
13,800.00	7,630.00	7,540.00	7,540.00	91.13	130.63	-90.00	771.44	5,485.36	6,199.73	5,995.61	204.12	30.373	
13,900.00	7,630.00	7,540.00	7,540.00	92.74	130.63	-90.00	771.44	5,485.36	6,278.08	6,073.43	204.65	30.677	
14,000.00	7,630.00	7,540.00	7,540.00	94.35	130.63	-90.00	771.44	5,485.36	6,357.04	6,151.87	205.17	30.984	

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

Offset Design SEC 23-T1N-R68W - EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	7,540.00	7,540.00	95.97	130.63	-90.00	771.44	5,485.36	6,436.58	6,230.91	205.67	31.295	
14,200.00	7,630.00	7,540.00	7,540.00	97.60	130.63	-90.00	771.44	5,485.36	6,516.69	6,310.53	206.16	31.610	
14,300.00	7,630.00	7,540.00	7,540.00	99.22	130.63	-90.00	771.44	5,485.36	6,597.34	6,390.71	206.63	31.929	
14,400.00	7,630.00	7,540.00	7,540.00	100.85	130.63	-90.00	771.44	5,485.36	6,678.51	6,471.43	207.08	32.250	
14,500.00	7,630.00	7,540.00	7,540.00	102.49	130.63	-90.00	771.44	5,485.36	6,760.19	6,552.67	207.52	32.575	
14,600.00	7,630.00	7,540.00	7,540.00	104.13	130.63	-90.00	771.44	5,485.36	6,842.36	6,634.41	207.95	32.903	
14,700.00	7,630.00	7,540.00	7,540.00	105.77	130.63	-90.00	771.44	5,485.36	6,924.99	6,716.63	208.37	33.234	
14,800.00	7,630.00	7,540.00	7,540.00	107.42	130.63	-90.00	771.44	5,485.36	7,008.08	6,799.31	208.77	33.568	
14,900.00	7,630.00	7,540.00	7,540.00	109.07	130.63	-90.00	771.44	5,485.36	7,091.61	6,882.44	209.16	33.905	
15,000.00	7,630.00	7,540.00	7,540.00	110.72	130.63	-90.00	771.44	5,485.36	7,175.55	6,966.01	209.54	34.244	
15,100.00	7,630.00	7,540.00	7,540.00	112.38	130.63	-90.00	771.44	5,485.36	7,259.90	7,050.00	209.91	34.586	
15,200.00	7,630.00	7,540.00	7,540.00	114.04	130.63	-90.00	771.44	5,485.36	7,344.65	7,134.38	210.26	34.931	
15,300.00	7,630.00	7,540.00	7,540.00	115.71	130.63	-90.00	771.44	5,485.36	7,429.77	7,219.16	210.61	35.277	
15,400.00	7,630.00	7,540.00	7,540.00	117.37	130.63	-90.00	771.44	5,485.36	7,515.26	7,304.32	210.95	35.627	
15,500.00	7,630.00	7,540.00	7,540.00	119.04	130.63	-90.00	771.44	5,485.36	7,601.11	7,389.84	211.27	35.978	
15,600.00	7,630.00	7,540.00	7,540.00	120.71	130.63	-90.00	771.44	5,485.36	7,687.29	7,475.70	211.59	36.331	
15,700.00	7,630.00	7,540.00	7,540.00	122.39	130.63	-90.00	771.44	5,485.36	7,773.81	7,561.91	211.90	36.687	
15,800.00	7,630.00	7,540.00	7,540.00	124.06	130.63	-90.00	771.44	5,485.36	7,860.65	7,648.45	212.20	37.044	
15,900.00	7,630.00	7,540.00	7,540.00	125.74	130.63	-90.00	771.44	5,485.36	7,947.80	7,735.31	212.49	37.403	
16,000.00	7,630.00	7,540.00	7,540.00	127.42	130.63	-90.00	771.44	5,485.36	8,035.24	7,822.47	212.77	37.764	
16,100.00	7,630.00	7,540.00	7,540.00	129.10	130.63	-90.00	771.44	5,485.36	8,122.98	7,909.93	213.05	38.127	
16,200.00	7,630.00	7,540.00	7,540.00	130.79	130.63	-90.00	771.44	5,485.36	8,211.00	7,997.68	213.32	38.492	
16,300.00	7,630.00	7,540.00	7,540.00	132.48	130.63	-90.00	771.44	5,485.36	8,299.28	8,085.70	213.58	38.858	
16,400.00	7,630.00	7,540.00	7,540.00	134.17	130.63	-90.00	771.44	5,485.36	8,387.84	8,174.00	213.84	39.226	
16,500.00	7,630.00	7,540.00	7,540.00	135.86	130.63	-90.00	771.44	5,485.36	8,476.64	8,262.56	214.08	39.595	
16,600.00	7,630.00	7,540.00	7,540.00	137.55	130.63	-90.00	771.44	5,485.36	8,565.69	8,351.37	214.33	39.966	
16,700.00	7,630.00	7,540.00	7,540.00	139.24	130.63	-90.00	771.44	5,485.36	8,654.99	8,440.42	214.56	40.338	
16,800.00	7,630.00	7,540.00	7,540.00	140.94	130.63	-90.00	771.44	5,485.36	8,744.51	8,529.72	214.79	40.712	
16,900.00	7,630.00	7,540.00	7,540.00	142.64	130.63	-90.00	771.44	5,485.36	8,834.26	8,619.24	215.02	41.086	
17,000.00	7,630.00	7,540.00	7,540.00	144.34	130.63	-90.00	771.44	5,485.36	8,924.22	8,708.99	215.24	41.463	
17,100.00	7,630.00	7,540.00	7,540.00	146.04	130.63	-90.00	771.44	5,485.36	9,014.40	8,798.95	215.45	41.840	
17,200.00	7,630.00	7,540.00	7,540.00	147.74	130.63	-90.00	771.44	5,485.36	9,104.78	8,889.13	215.66	42.219	
17,300.00	7,630.00	7,540.00	7,540.00	149.44	130.63	-90.00	771.44	5,485.36	9,195.37	8,979.50	215.86	42.598	
17,400.00	7,630.00	7,540.00	7,540.00	151.15	130.63	-90.00	771.44	5,485.36	9,286.14	9,070.08	216.06	42.979	
17,500.00	7,630.00	7,540.00	7,540.00	152.86	130.63	-90.00	771.44	5,485.36	9,377.10	9,160.85	216.26	43.361	
17,600.00	7,630.00	7,540.00	7,540.00	154.56	130.63	-90.00	771.44	5,485.36	9,468.25	9,251.80	216.45	43.744	
17,700.00	7,630.00	7,540.00	7,540.00	156.27	130.63	-90.00	771.44	5,485.36	9,559.57	9,342.94	216.63	44.128	
17,800.00	7,630.00	7,540.00	7,540.00	157.98	130.63	-90.00	771.44	5,485.36	9,651.06	9,434.25	216.82	44.513	
17,900.00	7,630.00	7,540.00	7,540.00	159.70	130.63	-90.00	771.44	5,485.36	9,742.73	9,525.73	216.99	44.898	
18,000.00	7,630.00	7,540.00	7,540.00	161.41	130.63	-90.00	771.44	5,485.36	9,834.55	9,617.38	217.17	45.285	
18,100.00	7,630.00	7,540.00	7,540.00	163.12	130.63	-90.00	771.44	5,485.36	9,926.53	9,709.19	217.34	45.673	
18,154.00	7,630.00	7,540.00	7,540.00	164.05	130.63	-90.00	771.44	5,485.36	9,976.27	9,758.84	217.43	45.882	

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 23-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	115.36	-1,439.48	3,037.08	3,361.47				
100.00	100.00	41.00	41.00	0.13	0.31	115.36	-1,439.48	3,037.08	3,360.95	3,360.50	0.45	7,480.670	
200.00	200.00	141.00	141.00	0.49	1.48	115.36	-1,439.48	3,037.08	3,360.95	3,358.97	1.98	1,700.517	
300.00	300.00	241.00	241.00	0.85	3.23	115.36	-1,439.48	3,037.08	3,360.95	3,356.87	4.08	823.716	
400.00	400.00	341.00	341.00	1.21	4.97	115.36	-1,439.48	3,037.08	3,360.95	3,354.77	6.18	543.489	
500.00	500.00	441.00	441.00	1.57	6.72	115.36	-1,439.48	3,037.08	3,360.95	3,352.66	8.29	405.528	
600.00	600.00	541.00	541.00	1.93	8.46	115.36	-1,439.48	3,037.08	3,360.95	3,350.56	10.39	323.429	
700.00	700.00	641.00	641.00	2.29	10.21	115.36	-1,439.48	3,037.08	3,360.95	3,348.46	12.50	268.974	
800.00	800.00	741.00	741.00	2.64	11.96	115.36	-1,439.48	3,037.08	3,360.95	3,346.35	14.60	230.214	
900.00	900.00	841.00	841.00	3.00	13.70	115.36	-1,439.48	3,037.08	3,360.95	3,344.25	16.70	201.218	
1,000.00	1,000.00	941.00	941.00	3.36	15.45	115.36	-1,439.48	3,037.08	3,360.95	3,342.14	18.81	178.709	
1,100.00	1,100.00	1,041.00	1,041.00	3.72	17.19	115.36	-1,439.48	3,037.08	3,360.95	3,340.04	20.91	160.729	
1,200.00	1,200.00	1,141.00	1,141.00	4.08	18.94	115.36	-1,439.48	3,037.08	3,360.95	3,337.94	23.01	146.037	
1,300.00	1,300.00	1,241.00	1,241.00	4.44	20.68	115.36	-1,439.48	3,037.08	3,360.95	3,335.83	25.12	133.805	
1,400.00	1,400.00	1,341.00	1,341.00	4.79	22.43	115.36	-1,439.48	3,037.08	3,360.95	3,333.73	27.22	123.464	
1,500.00	1,499.98	1,440.98	1,440.98	5.15	24.17	77.59	-1,439.48	3,037.08	3,360.58	3,331.25	29.32	114.605	
1,600.00	1,599.84	1,540.84	1,540.84	5.51	25.92	77.70	-1,439.48	3,037.08	3,359.45	3,328.03	31.42	106.919	
1,700.00	1,699.45	1,640.45	1,640.45	5.87	27.65	77.88	-1,439.48	3,037.08	3,357.60	3,324.09	33.52	100.179	
1,800.00	1,798.70	1,739.70	1,739.70	6.23	29.39	78.13	-1,439.48	3,037.08	3,355.05	3,319.44	35.61	94.216	
1,900.00	1,897.47	1,838.47	1,838.47	6.60	31.11	78.45	-1,439.48	3,037.08	3,351.84	3,314.13	37.70	88.897	
2,000.00	1,995.62	1,936.62	1,936.62	6.99	32.82	78.84	-1,439.48	3,037.08	3,348.02	3,308.21	39.80	84.115	
2,100.00	2,093.06	2,034.06	2,034.06	7.39	34.52	79.30	-1,439.48	3,037.08	3,343.64	3,301.74	41.91	79.789	
2,200.00	2,189.64	2,130.64	2,130.64	7.82	36.21	79.81	-1,439.48	3,037.08	3,338.79	3,294.77	44.02	75.850	
2,300.00	2,285.27	2,226.27	2,226.27	8.28	37.88	80.39	-1,439.48	3,037.08	3,333.54	3,287.40	46.14	72.244	
2,400.00	2,379.82	2,320.82	2,320.82	8.77	39.53	81.02	-1,439.48	3,037.08	3,327.99	3,279.71	48.28	68.928	
2,500.00	2,473.17	2,414.17	2,414.17	9.31	41.16	81.71	-1,439.48	3,037.08	3,322.24	3,271.80	50.44	65.865	
2,600.00	2,565.21	2,506.21	2,506.21	9.88	42.76	82.44	-1,439.48	3,037.08	3,316.40	3,263.78	52.62	63.028	
2,660.67	2,620.37	2,561.37	2,561.37	10.25	43.73	82.91	-1,439.48	3,037.08	3,312.86	3,258.91	53.95	61.406	
2,700.00	2,655.96	2,603.04	2,596.96	10.50	44.45	83.17	-1,439.48	3,037.08	3,310.62	3,255.69	54.92	60.276	
2,800.00	2,746.43	2,687.43	2,687.43	11.15	45.93	83.83	-1,439.48	3,037.08	3,305.29	3,248.25	57.05	57.942	
2,900.00	2,836.90	2,777.90	2,777.90	11.82	47.51	84.50	-1,439.48	3,037.08	3,300.51	3,241.22	59.29	55.663	
3,000.00	2,927.37	2,868.37	2,868.37	12.50	49.09	85.16	-1,439.48	3,037.08	3,296.27	3,234.71	61.56	53.544	
3,100.00	3,017.85	2,958.85	2,958.85	13.21	50.66	85.83	-1,439.48	3,037.08	3,292.58	3,228.73	63.85	51.571	
3,200.00	3,108.32	3,049.32	3,049.32	13.92	52.24	86.50	-1,439.48	3,037.08	3,289.43	3,223.29	66.14	49.732	
3,300.00	3,198.79	3,139.79	3,139.79	14.64	53.82	87.17	-1,439.48	3,037.08	3,286.84	3,218.39	68.45	48.018	
3,400.00	3,289.27	3,230.27	3,230.27	15.38	55.40	87.84	-1,439.48	3,037.08	3,284.79	3,214.02	70.77	46.416	
3,500.00	3,379.74	3,320.74	3,320.74	16.12	56.98	88.52	-1,439.48	3,037.08	3,283.30	3,210.20	73.09	44.919	
3,600.00	3,470.21	3,411.21	3,411.21	16.87	58.56	89.19	-1,439.48	3,037.08	3,282.35	3,206.93	75.42	43.518	
3,700.00	3,560.68	3,501.68	3,501.68	17.62	60.14	89.86	-1,439.48	3,037.08	3,281.96	3,204.20	77.76	42.206	
3,720.51	3,579.24	3,520.24	3,520.24	17.78	60.46	90.00	-1,439.48	3,037.08	3,281.95	3,203.71	78.24	41.946	
3,800.00	3,651.16	3,607.84	3,592.16	18.39	61.99	90.53	-1,439.48	3,037.08	3,282.13	3,201.75	80.38	40.835	
3,900.00	3,741.63	3,682.63	3,682.63	19.15	63.30	91.21	-1,439.48	3,037.08	3,282.84	3,200.40	82.45	39.818	
4,000.00	3,832.10	3,773.10	3,773.10	19.92	64.88	91.88	-1,439.48	3,037.08	3,284.11	3,199.32	84.79	38.731	
4,100.00	3,922.57	3,863.57	3,863.57	20.69	66.45	92.55	-1,439.48	3,037.08	3,285.93	3,198.79	87.14	37.708	
4,200.00	4,013.05	3,954.05	3,954.05	21.47	68.03	93.22	-1,439.48	3,037.08	3,288.30	3,198.81	89.49	36.745	
4,300.00	4,103.52	4,044.52	4,044.52	22.25	69.61	93.89	-1,439.48	3,037.08	3,291.22	3,199.38	91.84	35.836	
4,400.00	4,193.99	4,134.99	4,134.99	23.03	71.19	94.56	-1,439.48	3,037.08	3,294.69	3,200.50	94.19	34.979	
4,500.00	4,284.47	4,225.47	4,225.47	23.81	72.77	95.23	-1,439.48	3,037.08	3,298.71	3,202.17	96.54	34.170	
4,600.00	4,374.94	4,315.94	4,315.94	24.60	74.35	95.90	-1,439.48	3,037.08	3,303.27	3,204.38	98.88	33.405	
4,700.00	4,465.41	4,406.41	4,406.41	25.39	75.93	96.56	-1,439.48	3,037.08	3,308.37	3,207.14	101.23	32.682	
4,800.00	4,555.88	4,503.12	4,496.88	26.18	77.62	97.22	-1,439.48	3,037.08	3,314.01	3,210.33	103.68	31.963	
4,900.00	4,646.36	4,587.36	4,587.36	26.97	79.09	97.89	-1,439.48	3,037.08	3,320.19	3,214.28	105.91	31.348	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,736.83	4,677.83	4,677.83	27.76	80.67	98.54	-1,439.48	3,037.08	3,326.90	3,218.65	108.25	30.733	
5,100.00	4,827.30	4,768.30	4,768.30	28.55	82.25	99.20	-1,439.48	3,037.08	3,334.15	3,223.56	110.59	30.150	
5,200.00	4,917.77	4,858.77	4,858.77	29.35	83.82	99.86	-1,439.48	3,037.08	3,341.92	3,229.00	112.92	29.596	
5,300.00	5,008.25	4,949.25	4,949.25	30.15	85.40	100.51	-1,439.48	3,037.08	3,350.21	3,234.97	115.25	29.070	
5,400.00	5,098.72	5,039.72	5,039.72	30.94	86.98	101.16	-1,439.48	3,037.08	3,359.03	3,241.46	117.57	28.571	
5,500.00	5,189.19	5,130.19	5,130.19	31.74	88.56	101.80	-1,439.48	3,037.08	3,368.36	3,248.47	119.89	28.096	
5,600.00	5,279.67	5,220.67	5,220.67	32.54	90.14	102.45	-1,439.48	3,037.08	3,378.20	3,256.00	122.20	27.645	
5,700.00	5,370.14	5,311.14	5,311.14	33.34	91.72	103.09	-1,439.48	3,037.08	3,388.55	3,264.04	124.51	27.215	
5,800.00	5,460.61	5,401.61	5,401.61	34.14	93.30	103.72	-1,439.48	3,037.08	3,399.40	3,272.59	126.81	26.806	
5,900.00	5,551.08	5,507.92	5,492.08	34.94	95.15	104.36	-1,439.48	3,037.08	3,410.75	3,281.36	129.39	26.360	
6,000.00	5,641.56	5,582.56	5,582.56	35.75	96.46	104.99	-1,439.48	3,037.08	3,422.59	3,291.18	131.41	26.046	
6,100.00	5,732.03	5,673.03	5,673.03	36.55	98.04	105.61	-1,439.48	3,037.08	3,434.92	3,301.23	133.69	25.692	
6,200.00	5,822.50	5,763.50	5,763.50	37.35	99.61	106.23	-1,439.48	3,037.08	3,447.73	3,311.75	135.98	25.355	
6,300.00	5,912.97	5,853.97	5,853.97	38.16	101.19	106.85	-1,439.48	3,037.08	3,461.02	3,322.77	138.25	25.034	
6,400.00	6,003.45	5,944.45	5,944.45	38.96	102.77	107.47	-1,439.48	3,037.08	3,474.78	3,334.25	140.52	24.727	
6,500.00	6,093.92	6,034.92	6,034.92	39.77	104.35	108.08	-1,439.48	3,037.08	3,489.00	3,346.22	142.79	24.435	
6,600.00	6,184.39	6,125.39	6,125.39	40.57	105.93	108.68	-1,439.48	3,037.08	3,503.69	3,358.64	145.05	24.155	
6,700.00	6,274.87	6,215.87	6,215.87	41.38	107.51	109.28	-1,439.48	3,037.08	3,518.83	3,371.53	147.30	23.889	
6,800.00	6,365.34	6,306.34	6,306.34	42.18	109.09	109.88	-1,439.48	3,037.08	3,534.42	3,384.87	149.55	23.634	
6,900.00	6,455.81	6,403.19	6,396.81	42.99	110.78	110.47	-1,439.48	3,037.08	3,550.45	3,398.55	151.90	23.374	
7,000.00	6,546.28	6,487.28	6,487.28	43.80	112.25	111.06	-1,439.48	3,037.08	3,566.92	3,412.90	154.02	23.159	
7,100.00	6,636.76	6,577.76	6,577.76	44.61	113.83	111.65	-1,439.48	3,037.08	3,583.82	3,427.57	156.25	22.937	
7,200.00	6,727.23	6,668.23	6,668.23	45.41	115.41	112.23	-1,439.48	3,037.08	3,601.14	3,442.67	158.47	22.724	
7,300.00	6,817.70	6,758.70	6,758.70	46.22	116.98	112.80	-1,439.48	3,037.08	3,618.88	3,458.20	160.69	22.521	
7,383.79	6,893.51	6,834.51	6,834.51	46.90	118.31	113.28	-1,439.48	3,037.08	3,634.07	3,471.53	162.54	22.358	
7,400.00	6,908.25	6,849.25	6,849.25	47.03	118.56	111.14	-1,439.48	3,037.08	3,636.84	3,473.94	162.90	22.326	
7,450.00	6,954.52	6,904.48	6,895.52	47.40	119.53	102.70	-1,439.48	3,037.08	3,642.86	3,478.71	164.16	22.191	
7,500.00	7,001.74	6,942.74	6,942.74	47.72	120.20	90.90	-1,439.48	3,037.08	3,645.05	3,479.95	165.10	22.078	
7,550.00	7,049.55	7,009.45	6,990.55	47.99	121.36	75.58	-1,439.48	3,037.08	3,643.36	3,476.85	166.51	21.880	
7,600.00	7,097.58	7,038.58	7,038.58	48.21	121.87	58.30	-1,439.48	3,037.08	3,637.78	3,470.54	167.24	21.752	
7,650.00	7,145.48	7,086.48	7,086.48	48.37	122.71	41.95	-1,439.48	3,037.08	3,628.34	3,460.08	168.26	21.564	
7,700.00	7,192.88	7,133.88	7,133.88	48.48	123.53	28.52	-1,439.48	3,037.08	3,615.08	3,445.84	169.24	21.361	
7,750.00	7,239.41	7,180.41	7,180.41	48.54	124.34	18.17	-1,439.48	3,037.08	3,598.10	3,427.93	170.18	21.143	
7,800.00	7,284.72	7,225.72	7,225.72	48.56	125.14	10.16	-1,439.48	3,037.08	3,577.51	3,406.45	171.06	20.914	
7,850.00	7,328.47	7,269.47	7,269.47	48.54	125.90	3.73	-1,439.48	3,037.08	3,553.47	3,381.58	171.89	20.673	
7,900.00	7,370.32	7,311.32	7,311.32	48.47	126.63	-1.76	-1,439.48	3,037.08	3,526.15	3,353.48	172.66	20.422	
7,950.00	7,409.96	7,350.96	7,350.96	48.37	127.32	-6.75	-1,439.48	3,037.08	3,495.75	3,322.38	173.37	20.164	
8,000.00	7,447.08	7,388.08	7,388.08	48.24	127.97	-11.59	-1,439.48	3,037.08	3,462.52	3,288.51	174.01	19.898	
8,050.00	7,481.41	7,422.41	7,422.41	48.07	128.57	-16.59	-1,439.48	3,037.08	3,426.70	3,252.13	174.58	19.629	
8,100.00	7,512.67	7,453.67	7,453.67	47.87	129.11	-22.01	-1,439.48	3,037.08	3,388.60	3,213.53	175.07	19.356	
8,150.00	7,540.64	7,481.64	7,481.64	47.65	129.60	-28.12	-1,439.48	3,037.08	3,348.51	3,173.03	175.48	19.081	
8,200.00	7,565.09	7,506.09	7,506.09	47.40	130.03	-35.19	-1,439.48	3,037.08	3,306.76	3,130.94	175.82	18.808	
8,250.00	7,585.85	7,526.85	7,526.85	47.14	130.39	-43.40	-1,439.48	3,037.08	3,263.68	3,087.61	176.07	18.536	
8,300.00	7,602.75	7,543.75	7,543.75	46.86	130.69	-52.81	-1,439.48	3,037.08	3,219.64	3,043.40	176.24	18.268	
8,350.00	7,615.67	7,556.67	7,556.67	46.58	130.91	-63.16	-1,439.48	3,037.08	3,175.00	2,998.67	176.33	18.006	
8,400.00	7,624.51	7,565.51	7,565.51	46.28	131.07	-73.86	-1,439.48	3,037.08	3,130.12	2,953.79	176.33	17.751	
8,450.00	7,629.19	7,570.19	7,570.19	45.98	131.15	-84.15	-1,439.48	3,037.08	3,085.39	2,909.13	176.25	17.505	
8,481.00	7,630.00	7,571.00	7,571.00	45.79	131.16	-90.00	-1,439.48	3,037.08	3,057.89	2,881.72	176.16	17.358	
8,500.00	7,630.00	7,571.00	7,571.00	45.68	131.16	-90.00	-1,439.48	3,037.08	3,041.12	2,865.03	176.10	17.270	
8,600.00	7,630.00	7,571.00	7,571.00	45.11	131.16	-90.00	-1,439.48	3,037.08	2,953.35	2,777.60	175.75	16.804	
8,700.00	7,630.00	7,571.00	7,571.00	44.56	131.16	-90.00	-1,439.48	3,037.08	2,866.37	2,690.98	175.39	16.343	
8,800.00	7,630.00	7,571.00	7,571.00	44.05	131.16	-90.00	-1,439.48	3,037.08	2,780.27	2,605.25	175.02	15.885	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
8,900.00	7,630.00	7,571.00	7,571.00	43.57	131.16	-90.00	-1,439.48	3,037.08	2,695.13	2,520.49	174.64	15.432	
9,000.00	7,630.00	7,571.00	7,571.00	43.12	131.16	-90.00	-1,439.48	3,037.08	2,611.04	2,436.79	174.25	14.984	
9,100.00	7,630.00	7,571.00	7,571.00	42.70	131.16	-90.00	-1,439.48	3,037.08	2,528.12	2,354.26	173.86	14.541	
9,200.00	7,630.00	7,571.00	7,571.00	42.31	131.16	-90.00	-1,439.48	3,037.08	2,446.47	2,273.00	173.46	14.104	
9,300.00	7,630.00	7,571.00	7,571.00	41.94	131.16	-90.00	-1,439.48	3,037.08	2,366.23	2,193.16	173.07	13.672	
9,400.00	7,630.00	7,571.00	7,571.00	41.59	131.16	-90.00	-1,439.48	3,037.08	2,287.54	2,114.86	172.68	13.247	
9,500.00	7,630.00	7,571.00	7,571.00	41.26	131.16	-90.00	-1,439.48	3,037.08	2,210.58	2,038.28	172.31	12.829	
9,600.00	7,630.00	7,571.00	7,571.00	40.96	131.16	-90.00	-1,439.48	3,037.08	2,135.53	1,963.57	171.96	12.419	
9,700.00	7,630.00	7,571.00	7,571.00	40.68	131.16	-90.00	-1,439.48	3,037.08	2,062.60	1,890.96	171.64	12.017	
9,800.00	7,630.00	7,571.00	7,571.00	40.42	131.16	-90.00	-1,439.48	3,037.08	1,992.02	1,820.64	171.38	11.623	
9,900.00	7,630.00	7,571.00	7,571.00	40.17	131.16	-90.00	-1,439.48	3,037.08	1,924.05	1,752.87	171.18	11.240	
10,000.00	7,630.00	7,571.00	7,571.00	39.96	131.16	-90.00	-1,439.48	3,037.08	1,858.98	1,687.90	171.07	10.867	
10,100.00	7,630.00	7,571.00	7,571.00	40.05	131.16	-90.00	-1,439.48	3,037.08	1,797.11	1,626.04	171.07	10.505	
10,200.00	7,630.00	7,571.00	7,571.00	40.95	131.16	-90.00	-1,439.48	3,037.08	1,738.80	1,567.60	171.21	10.156	
10,300.00	7,630.00	7,571.00	7,571.00	41.94	131.16	-90.00	-1,439.48	3,037.08	1,684.42	1,512.91	171.51	9.821	
10,400.00	7,630.00	7,571.00	7,571.00	42.98	131.16	-90.00	-1,439.48	3,037.08	1,634.35	1,462.36	171.98	9.503	
10,500.00	7,630.00	7,571.00	7,571.00	44.06	131.16	-90.00	-1,439.48	3,037.08	1,589.00	1,416.33	172.66	9.203	
10,600.00	7,630.00	7,571.00	7,571.00	45.17	131.16	-90.00	-1,439.48	3,037.08	1,548.79	1,375.23	173.56	8.924	
10,700.00	7,630.00	7,571.00	7,571.00	46.32	131.16	-90.00	-1,439.48	3,037.08	1,514.12	1,339.46	174.66	8.669	
10,800.00	7,630.00	7,571.00	7,571.00	47.50	131.16	-90.00	-1,439.48	3,037.08	1,485.39	1,309.42	175.97	8.441	
10,900.00	7,630.00	7,571.00	7,571.00	48.70	131.16	-90.00	-1,439.48	3,037.08	1,462.95	1,285.50	177.45	8.244	
11,000.00	7,630.00	7,571.00	7,571.00	49.94	131.16	-90.00	-1,439.48	3,037.08	1,447.08	1,268.01	179.06	8.081	
11,100.00	7,630.00	7,571.00	7,571.00	51.20	131.16	-90.00	-1,439.48	3,037.08	1,438.00	1,257.23	180.77	7.955	
11,180.88	7,630.00	7,571.00	7,571.00	52.23	131.16	-90.00	-1,439.48	3,037.08	1,435.73	1,253.54	182.19	7.880	CC
11,200.00	7,630.00	7,571.00	7,571.00	52.48	131.16	-90.00	-1,439.48	3,037.08	1,435.86	1,253.33	182.52	7.867	ES
11,300.00	7,630.00	7,571.00	7,571.00	53.79	131.16	-90.00	-1,439.48	3,037.08	1,440.66	1,256.40	184.26	7.819	
11,400.00	7,630.00	7,571.00	7,571.00	55.12	131.16	-90.00	-1,439.48	3,037.08	1,452.35	1,266.41	185.95	7.811	SF
11,500.00	7,630.00	7,571.00	7,571.00	56.46	131.16	-90.00	-1,439.48	3,037.08	1,470.77	1,283.23	187.53	7.843	
11,600.00	7,630.00	7,571.00	7,571.00	57.83	131.16	-90.00	-1,439.48	3,037.08	1,495.65	1,306.66	188.99	7.914	
11,700.00	7,630.00	7,571.00	7,571.00	59.22	131.16	-90.00	-1,439.48	3,037.08	1,526.70	1,336.39	190.31	8.022	
11,800.00	7,630.00	7,571.00	7,571.00	60.62	131.16	-90.00	-1,439.48	3,037.08	1,563.53	1,372.06	191.47	8.166	
11,900.00	7,630.00	7,571.00	7,571.00	62.04	131.16	-90.00	-1,439.48	3,037.08	1,605.75	1,413.27	192.48	8.342	
12,000.00	7,630.00	7,571.00	7,571.00	63.48	131.16	-90.00	-1,439.48	3,037.08	1,652.96	1,459.62	193.34	8.550	
12,100.00	7,630.00	7,571.00	7,571.00	64.93	131.16	-90.00	-1,439.48	3,037.08	1,704.73	1,510.67	194.06	8.785	
12,200.00	7,630.00	7,571.00	7,571.00	66.39	131.16	-90.00	-1,439.48	3,037.08	1,760.66	1,566.01	194.65	9.045	
12,300.00	7,630.00	7,571.00	7,571.00	67.86	131.16	-90.00	-1,439.48	3,037.08	1,820.37	1,625.25	195.12	9.329	
12,400.00	7,630.00	7,571.00	7,571.00	69.35	131.16	-90.00	-1,439.48	3,037.08	1,883.50	1,688.00	195.50	9.634	
12,500.00	7,630.00	7,571.00	7,571.00	70.85	131.16	-90.00	-1,439.48	3,037.08	1,949.72	1,753.92	195.80	9.958	
12,600.00	7,630.00	7,571.00	7,571.00	72.36	131.16	-90.00	-1,439.48	3,037.08	2,018.72	1,822.70	196.02	10.299	
12,700.00	7,630.00	7,571.00	7,571.00	73.88	131.16	-90.00	-1,439.48	3,037.08	2,090.22	1,894.05	196.18	10.655	
12,800.00	7,630.00	7,571.00	7,571.00	75.41	131.16	-90.00	-1,439.48	3,037.08	2,163.99	1,967.71	196.28	11.025	
12,900.00	7,630.00	7,571.00	7,571.00	76.95	131.16	-90.00	-1,439.48	3,037.08	2,239.80	2,043.45	196.35	11.407	
13,000.00	7,630.00	7,571.00	7,571.00	78.49	131.16	-90.00	-1,439.48	3,037.08	2,317.44	2,121.06	196.38	11.801	
13,100.00	7,630.00	7,571.00	7,571.00	80.05	131.16	-90.00	-1,439.48	3,037.08	2,396.73	2,200.35	196.38	12.205	
13,200.00	7,630.00	7,571.00	7,571.00	81.61	131.16	-90.00	-1,439.48	3,037.08	2,477.53	2,281.17	196.36	12.617	
13,300.00	7,630.00	7,571.00	7,571.00	83.18	131.16	-90.00	-1,439.48	3,037.08	2,559.68	2,363.37	196.32	13.038	
13,400.00	7,630.00	7,571.00	7,571.00	84.76	131.16	-90.00	-1,439.48	3,037.08	2,643.07	2,446.80	196.26	13.467	
13,500.00	7,630.00	7,571.00	7,571.00	86.34	131.16	-90.00	-1,439.48	3,037.08	2,727.57	2,531.37	196.20	13.902	
13,600.00	7,630.00	7,571.00	7,571.00	87.94	131.16	-90.00	-1,439.48	3,037.08	2,813.09	2,616.97	196.12	14.344	
13,700.00	7,630.00	7,571.00	7,571.00	89.53	131.16	-90.00	-1,439.48	3,037.08	2,899.53	2,703.49	196.04	14.791	
13,800.00	7,630.00	7,571.00	7,571.00	91.13	131.16	-90.00	-1,439.48	3,037.08	2,986.82	2,790.87	195.95	15.243	
13,900.00	7,630.00	7,571.00	7,571.00	92.74	131.16	-90.00	-1,439.48	3,037.08	3,074.89	2,879.03	195.86	15.700	

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 23-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,630.00	7,571.00	7,571.00	94.35	131.16	-90.00	-1,439.48	3,037.08	3,163.66	2,967.90	195.76	16.161	
14,100.00	7,630.00	7,571.00	7,571.00	95.97	131.16	-90.00	-1,439.48	3,037.08	3,253.09	3,057.42	195.67	16.625	
14,200.00	7,630.00	7,571.00	7,571.00	97.60	131.16	-90.00	-1,439.48	3,037.08	3,343.11	3,147.54	195.57	17.094	
14,300.00	7,630.00	7,571.00	7,571.00	99.22	131.16	-90.00	-1,439.48	3,037.08	3,433.69	3,238.21	195.48	17.565	
14,400.00	7,630.00	7,571.00	7,571.00	100.85	131.16	-90.00	-1,439.48	3,037.08	3,524.78	3,329.39	195.39	18.040	
14,500.00	7,630.00	7,571.00	7,571.00	102.49	131.16	-90.00	-1,439.48	3,037.08	3,616.33	3,421.04	195.29	18.518	
14,600.00	7,630.00	7,571.00	7,571.00	104.13	131.16	-90.00	-1,439.48	3,037.08	3,708.33	3,513.13	195.20	18.997	
14,700.00	7,630.00	7,571.00	7,571.00	105.77	131.16	-90.00	-1,439.48	3,037.08	3,800.73	3,605.61	195.11	19.480	
14,800.00	7,630.00	7,571.00	7,571.00	107.42	131.16	-90.00	-1,439.48	3,037.08	3,893.50	3,698.47	195.02	19.964	
14,900.00	7,630.00	7,571.00	7,571.00	109.07	131.16	-90.00	-1,439.48	3,037.08	3,986.62	3,791.68	194.94	20.451	
15,000.00	7,630.00	7,571.00	7,571.00	110.72	131.16	-90.00	-1,439.48	3,037.08	4,080.07	3,885.21	194.86	20.939	
15,100.00	7,630.00	7,571.00	7,571.00	112.38	131.16	-90.00	-1,439.48	3,037.08	4,173.82	3,979.05	194.78	21.429	
15,200.00	7,630.00	7,571.00	7,571.00	114.04	131.16	-90.00	-1,439.48	3,037.08	4,267.86	4,073.16	194.70	21.920	
15,300.00	7,630.00	7,571.00	7,571.00	115.71	131.16	-90.00	-1,439.48	3,037.08	4,362.16	4,167.54	194.63	22.413	
15,400.00	7,630.00	7,571.00	7,571.00	117.37	131.16	-90.00	-1,439.48	3,037.08	4,456.71	4,262.16	194.55	22.907	
15,500.00	7,630.00	7,571.00	7,571.00	119.04	131.16	-90.00	-1,439.48	3,037.08	4,551.50	4,357.01	194.48	23.403	
15,600.00	7,630.00	7,571.00	7,571.00	120.71	131.16	-90.00	-1,439.48	3,037.08	4,646.50	4,452.08	194.42	23.900	
15,700.00	7,630.00	7,571.00	7,571.00	122.39	131.16	-90.00	-1,439.48	3,037.08	4,741.70	4,547.35	194.35	24.397	
15,800.00	7,630.00	7,571.00	7,571.00	124.06	131.16	-90.00	-1,439.48	3,037.08	4,837.10	4,642.81	194.29	24.896	
15,900.00	7,630.00	7,571.00	7,571.00	125.74	131.16	-90.00	-1,439.48	3,037.08	4,932.69	4,738.46	194.23	25.396	
16,000.00	7,630.00	7,571.00	7,571.00	127.42	131.16	-90.00	-1,439.48	3,037.08	5,028.44	4,834.27	194.17	25.896	
16,100.00	7,630.00	7,571.00	7,571.00	129.10	131.16	-90.00	-1,439.48	3,037.08	5,124.36	4,930.24	194.12	26.398	
16,200.00	7,630.00	7,571.00	7,571.00	130.79	131.16	-90.00	-1,439.48	3,037.08	5,220.43	5,026.36	194.07	26.900	
16,300.00	7,630.00	7,571.00	7,571.00	132.48	131.16	-90.00	-1,439.48	3,037.08	5,316.64	5,122.62	194.02	27.403	
16,400.00	7,630.00	7,571.00	7,571.00	134.17	131.16	-90.00	-1,439.48	3,037.08	5,413.00	5,219.02	193.97	27.906	
16,500.00	7,630.00	7,571.00	7,571.00	135.86	131.16	-90.00	-1,439.48	3,037.08	5,509.48	5,315.55	193.93	28.410	
16,600.00	7,630.00	7,571.00	7,571.00	137.55	131.16	-90.00	-1,439.48	3,037.08	5,606.08	5,412.20	193.89	28.914	
16,700.00	7,630.00	7,571.00	7,571.00	139.24	131.16	-90.00	-1,439.48	3,037.08	5,702.81	5,508.96	193.85	29.419	
16,800.00	7,630.00	7,571.00	7,571.00	140.94	131.16	-90.00	-1,439.48	3,037.08	5,799.64	5,605.83	193.81	29.925	
16,900.00	7,630.00	7,571.00	7,571.00	142.64	131.16	-90.00	-1,439.48	3,037.08	5,896.58	5,702.81	193.77	30.431	
17,000.00	7,630.00	7,571.00	7,571.00	144.34	131.16	-90.00	-1,439.48	3,037.08	5,993.62	5,799.88	193.74	30.937	
17,100.00	7,630.00	7,571.00	7,571.00	146.04	131.16	-90.00	-1,439.48	3,037.08	6,090.75	5,897.05	193.70	31.443	
17,200.00	7,630.00	7,571.00	7,571.00	147.74	131.16	-90.00	-1,439.48	3,037.08	6,187.98	5,994.31	193.67	31.950	
17,300.00	7,630.00	7,571.00	7,571.00	149.44	131.16	-90.00	-1,439.48	3,037.08	6,285.30	6,091.65	193.65	32.458	
17,400.00	7,630.00	7,571.00	7,571.00	151.15	131.16	-90.00	-1,439.48	3,037.08	6,382.69	6,189.07	193.62	32.965	
17,500.00	7,630.00	7,571.00	7,571.00	152.86	131.16	-90.00	-1,439.48	3,037.08	6,480.17	6,286.57	193.60	33.473	
17,600.00	7,630.00	7,571.00	7,571.00	154.56	131.16	-90.00	-1,439.48	3,037.08	6,577.72	6,384.15	193.57	33.980	
17,700.00	7,630.00	7,571.00	7,571.00	156.27	131.16	-90.00	-1,439.48	3,037.08	6,675.35	6,481.79	193.55	34.489	
17,800.00	7,630.00	7,571.00	7,571.00	157.98	131.16	-90.00	-1,439.48	3,037.08	6,773.04	6,579.51	193.53	34.997	
17,900.00	7,630.00	7,571.00	7,571.00	159.70	131.16	-90.00	-1,439.48	3,037.08	6,870.80	6,677.28	193.52	35.505	
18,000.00	7,630.00	7,571.00	7,571.00	161.41	131.16	-90.00	-1,439.48	3,037.08	6,968.62	6,775.12	193.50	36.014	
18,100.00	7,630.00	7,571.00	7,571.00	163.12	131.16	-90.00	-1,439.48	3,037.08	7,066.51	6,873.02	193.49	36.522	
18,154.00	7,630.00	7,571.00	7,571.00	164.05	131.16	-90.00	-1,439.48	3,037.08	7,119.39	6,925.92	193.48	36.797	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	108.35	-1,435.65	4,327.97	4,560.03				
100.00	100.00	62.00	62.00	0.13	0.47	108.35	-1,435.65	4,327.97	4,559.87	4,559.27	0.61	7,535.196	
200.00	200.00	162.00	162.00	0.49	1.84	108.35	-1,435.65	4,327.97	4,559.87	4,557.54	2.33	1,953.486	
300.00	300.00	262.00	262.00	0.85	3.59	108.35	-1,435.65	4,327.97	4,559.87	4,555.43	4.44	1,027.455	
400.00	400.00	362.00	362.00	1.21	5.33	108.35	-1,435.65	4,327.97	4,559.87	4,553.33	6.54	697.033	
500.00	500.00	462.00	462.00	1.57	7.08	108.35	-1,435.65	4,327.97	4,559.87	4,551.22	8.65	527.419	
600.00	600.00	562.00	562.00	1.93	8.82	108.35	-1,435.65	4,327.97	4,559.87	4,549.12	10.75	424.197	
700.00	700.00	662.00	662.00	2.29	10.57	108.35	-1,435.65	4,327.97	4,559.87	4,547.02	12.85	354.765	
800.00	800.00	762.00	762.00	2.64	12.31	108.35	-1,435.65	4,327.97	4,559.87	4,544.91	14.96	304.865	
900.00	900.00	862.00	862.00	3.00	14.06	108.35	-1,435.65	4,327.97	4,559.87	4,542.81	17.06	267.271	
1,000.00	1,000.00	962.00	962.00	3.36	15.80	108.35	-1,435.65	4,327.97	4,559.87	4,540.71	19.16	237.932	
1,100.00	1,100.00	1,062.00	1,062.00	3.72	17.55	108.35	-1,435.65	4,327.97	4,559.87	4,538.60	21.27	214.396	
1,200.00	1,200.00	1,162.00	1,162.00	4.08	19.29	108.35	-1,435.65	4,327.97	4,559.87	4,536.50	23.37	195.098	
1,300.00	1,300.00	1,262.00	1,262.00	4.44	21.04	108.35	-1,435.65	4,327.97	4,559.87	4,534.39	25.48	178.987	
1,400.00	1,400.00	1,362.00	1,362.00	4.79	22.79	108.35	-1,435.65	4,327.97	4,559.87	4,532.29	27.58	165.333	
1,500.00	1,499.98	1,461.98	1,461.98	5.15	24.53	70.58	-1,435.65	4,327.97	4,559.29	4,529.61	29.68	153.610	
1,600.00	1,599.84	1,561.84	1,561.84	5.51	26.27	70.67	-1,435.65	4,327.97	4,557.55	4,525.77	31.78	143.418	
1,700.00	1,699.45	1,661.45	1,661.45	5.87	28.01	70.83	-1,435.65	4,327.97	4,554.67	4,520.79	33.87	134.463	
1,800.00	1,798.70	1,760.70	1,760.70	6.23	29.74	71.05	-1,435.65	4,327.97	4,550.66	4,514.69	35.97	126.525	
1,900.00	1,897.47	1,859.47	1,859.47	6.60	31.47	71.33	-1,435.65	4,327.97	4,545.56	4,507.50	38.06	119.433	
2,000.00	1,995.62	1,957.62	1,957.62	6.99	33.18	71.67	-1,435.65	4,327.97	4,539.40	4,499.25	40.15	113.048	
2,100.00	2,093.06	2,055.06	2,055.06	7.39	34.88	72.07	-1,435.65	4,327.97	4,532.24	4,489.98	42.25	107.261	
2,200.00	2,189.64	2,151.64	2,151.64	7.82	36.57	72.53	-1,435.65	4,327.97	4,524.12	4,479.76	44.36	101.983	
2,300.00	2,285.27	2,247.27	2,247.27	8.28	38.24	73.04	-1,435.65	4,327.97	4,515.11	4,468.63	46.48	97.144	
2,400.00	2,379.82	2,341.82	2,341.82	8.77	39.89	73.61	-1,435.65	4,327.97	4,505.27	4,456.66	48.61	92.684	
2,500.00	2,473.17	2,435.17	2,435.17	9.31	41.52	74.22	-1,435.65	4,327.97	4,494.70	4,443.94	50.76	88.556	
2,600.00	2,565.21	2,527.21	2,527.21	9.88	43.12	74.89	-1,435.65	4,327.97	4,483.46	4,430.54	52.92	84.720	
2,660.67	2,620.37	2,582.37	2,582.37	10.25	44.08	75.31	-1,435.65	4,327.97	4,476.37	4,422.12	54.24	82.522	
2,700.00	2,655.96	2,617.96	2,617.96	10.50	44.71	75.50	-1,435.65	4,327.97	4,471.73	4,416.63	55.11	81.147	
2,800.00	2,746.43	2,708.43	2,708.43	11.15	46.28	75.98	-1,435.65	4,327.97	4,460.21	4,402.89	57.32	77.814	
2,900.00	2,836.90	2,801.10	2,798.90	11.82	47.90	76.47	-1,435.65	4,327.97	4,449.07	4,389.48	59.59	74.659	
3,000.00	2,927.37	2,889.37	2,889.37	12.50	49.44	76.95	-1,435.65	4,327.97	4,438.31	4,376.50	61.81	71.808	
3,100.00	3,017.85	2,979.85	2,979.85	13.21	51.02	77.44	-1,435.65	4,327.97	4,427.93	4,363.85	64.08	69.101	
3,200.00	3,108.32	3,070.32	3,070.32	13.92	52.60	77.93	-1,435.65	4,327.97	4,417.94	4,351.57	66.37	66.570	
3,300.00	3,198.79	3,160.79	3,160.79	14.64	54.18	78.42	-1,435.65	4,327.97	4,408.34	4,339.67	68.66	64.201	
3,400.00	3,289.27	3,251.27	3,251.27	15.38	55.76	78.92	-1,435.65	4,327.97	4,399.13	4,328.15	70.98	61.981	
3,500.00	3,379.74	3,341.74	3,341.74	16.12	57.34	79.41	-1,435.65	4,327.97	4,390.31	4,317.01	73.30	59.899	
3,600.00	3,470.21	3,432.21	3,432.21	16.87	58.92	79.91	-1,435.65	4,327.97	4,381.89	4,306.26	75.62	57.943	
3,700.00	3,560.68	3,522.68	3,522.68	17.62	60.50	80.41	-1,435.65	4,327.97	4,373.87	4,295.91	77.96	56.103	
3,800.00	3,651.16	3,613.16	3,613.16	18.39	62.08	80.91	-1,435.65	4,327.97	4,366.25	4,285.94	80.30	54.371	
3,900.00	3,741.63	3,703.63	3,703.63	19.15	63.65	81.41	-1,435.65	4,327.97	4,359.03	4,276.37	82.65	52.738	
4,000.00	3,832.10	3,805.90	3,794.10	19.92	65.44	81.91	-1,435.65	4,327.97	4,352.22	4,267.00	85.22	51.073	
4,100.00	3,922.57	3,884.57	3,884.57	20.69	66.81	82.42	-1,435.65	4,327.97	4,345.81	4,258.44	87.37	49.741	
4,200.00	4,013.05	3,975.05	3,975.05	21.47	68.39	82.92	-1,435.65	4,327.97	4,339.81	4,250.08	89.73	48.363	
4,300.00	4,103.52	4,065.52	4,065.52	22.25	69.97	83.43	-1,435.65	4,327.97	4,334.23	4,242.12	92.10	47.059	
4,400.00	4,193.99	4,155.99	4,155.99	23.03	71.55	83.94	-1,435.65	4,327.97	4,329.05	4,234.58	94.47	45.824	
4,500.00	4,284.47	4,246.47	4,246.47	23.81	73.13	84.44	-1,435.65	4,327.97	4,324.29	4,227.44	96.85	44.651	
4,600.00	4,374.94	4,336.94	4,336.94	24.60	74.71	84.95	-1,435.65	4,327.97	4,319.94	4,220.72	99.22	43.538	
4,700.00	4,465.41	4,427.41	4,427.41	25.39	76.29	85.46	-1,435.65	4,327.97	4,316.01	4,214.41	101.60	42.480	
4,800.00	4,555.88	4,517.88	4,517.88	26.18	77.87	85.97	-1,435.65	4,327.97	4,312.50	4,208.52	103.98	41.475	
4,900.00	4,646.36	4,608.36	4,608.36	26.97	79.44	86.49	-1,435.65	4,327.97	4,309.41	4,203.05	106.36	40.517	
5,000.00	4,736.83	4,701.17	4,698.83	27.76	81.06	87.00	-1,435.65	4,327.97	4,306.73	4,197.95	108.78	39.590	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,827.30	4,789.30	4,789.30	28.55	82.60	87.51	-1,435.65	4,327.97	4,304.47	4,193.35	111.12	38.735	
5,200.00	4,917.77	4,879.77	4,879.77	29.35	84.18	88.02	-1,435.65	4,327.97	4,302.64	4,189.13	113.51	37.906	
5,300.00	5,008.25	4,970.25	4,970.25	30.15	85.76	88.54	-1,435.65	4,327.97	4,301.23	4,185.33	115.89	37.115	
5,400.00	5,098.72	5,060.72	5,060.72	30.94	87.34	89.05	-1,435.65	4,327.97	4,300.23	4,181.96	118.27	36.358	
5,500.00	5,189.19	5,151.19	5,151.19	31.74	88.92	89.56	-1,435.65	4,327.97	4,299.66	4,179.01	120.66	35.636	
5,585.20	5,266.28	5,228.28	5,228.28	32.42	90.26	90.00	-1,435.65	4,327.97	4,299.51	4,176.82	122.68	35.045	
5,600.00	5,279.67	5,241.67	5,241.67	32.54	90.50	90.08	-1,435.65	4,327.97	4,299.51	4,176.48	123.04	34.945	
5,700.00	5,370.14	5,332.14	5,332.14	33.34	92.08	90.59	-1,435.65	4,327.97	4,299.79	4,174.37	125.42	34.284	
5,800.00	5,460.61	5,422.61	5,422.61	34.14	93.66	91.10	-1,435.65	4,327.97	4,300.48	4,172.69	127.80	33.651	
5,900.00	5,551.08	5,513.08	5,513.08	34.94	95.24	91.62	-1,435.65	4,327.97	4,301.60	4,171.42	130.18	33.045	
6,000.00	5,641.56	5,603.56	5,603.56	35.75	96.81	92.13	-1,435.65	4,327.97	4,303.14	4,170.59	132.55	32.464	
6,100.00	5,732.03	5,705.97	5,694.03	36.55	98.60	92.64	-1,435.65	4,327.97	4,305.10	4,169.96	135.13	31.858	
6,200.00	5,822.50	5,784.50	5,784.50	37.35	99.97	93.15	-1,435.65	4,327.97	4,307.48	4,170.18	137.30	31.373	
6,300.00	5,912.97	5,874.97	5,874.97	38.16	101.55	93.67	-1,435.65	4,327.97	4,310.28	4,170.61	139.67	30.861	
6,400.00	6,003.45	5,965.45	5,965.45	38.96	103.13	94.18	-1,435.65	4,327.97	4,313.50	4,171.46	142.04	30.369	
6,500.00	6,093.92	6,055.92	6,055.92	39.77	104.71	94.69	-1,435.65	4,327.97	4,317.13	4,172.73	144.40	29.896	
6,600.00	6,184.39	6,146.39	6,146.39	40.57	106.29	95.20	-1,435.65	4,327.97	4,321.19	4,174.42	146.77	29.443	
6,700.00	6,274.87	6,236.87	6,236.87	41.38	107.87	95.71	-1,435.65	4,327.97	4,325.66	4,176.53	149.12	29.007	
6,800.00	6,365.34	6,327.34	6,327.34	42.18	109.45	96.21	-1,435.65	4,327.97	4,330.54	4,179.06	151.48	28.588	
6,900.00	6,455.81	6,417.81	6,417.81	42.99	111.03	96.72	-1,435.65	4,327.97	4,335.84	4,182.00	153.83	28.185	
7,000.00	6,546.28	6,508.28	6,508.28	43.80	112.60	97.23	-1,435.65	4,327.97	4,341.55	4,185.36	156.18	27.798	
7,100.00	6,636.76	6,601.24	6,598.76	44.61	114.23	97.73	-1,435.65	4,327.97	4,347.66	4,189.09	158.57	27.417	
7,200.00	6,727.23	6,689.23	6,689.23	45.41	115.76	98.24	-1,435.65	4,327.97	4,354.19	4,193.32	160.87	27.066	
7,300.00	6,817.70	6,779.70	6,779.70	46.22	117.34	98.74	-1,435.65	4,327.97	4,361.12	4,197.91	163.21	26.721	
7,383.79	6,893.51	6,855.51	6,855.51	46.90	118.67	99.16	-1,435.65	4,327.97	4,367.24	4,202.08	165.17	26.441	
7,400.00	6,908.25	6,870.25	6,870.25	47.03	118.92	96.96	-1,435.65	4,327.97	4,368.29	4,202.74	165.54	26.387	
7,450.00	6,954.52	6,916.52	6,916.52	47.40	119.73	88.29	-1,435.65	4,327.97	4,369.35	4,202.65	166.70	26.211	
7,500.00	7,001.74	6,963.74	6,963.74	47.72	120.55	76.20	-1,435.65	4,327.97	4,367.15	4,199.32	167.84	26.020	
7,550.00	7,049.55	7,011.55	7,011.55	47.99	121.39	60.56	-1,435.65	4,327.97	4,361.67	4,192.73	168.94	25.818	
7,600.00	7,097.58	7,059.58	7,059.58	48.21	122.23	42.88	-1,435.65	4,327.97	4,352.91	4,182.91	170.00	25.605	
7,650.00	7,145.48	7,107.48	7,107.48	48.37	123.06	26.07	-1,435.65	4,327.97	4,340.94	4,169.92	171.02	25.383	
7,700.00	7,192.88	7,154.88	7,154.88	48.48	123.89	12.11	-1,435.65	4,327.97	4,325.82	4,153.84	171.98	25.153	
7,750.00	7,239.41	7,201.41	7,201.41	48.54	124.70	1.14	-1,435.65	4,327.97	4,307.66	4,134.78	172.88	24.917	
7,800.00	7,284.72	7,246.72	7,246.72	48.56	125.49	-7.56	-1,435.65	4,327.97	4,286.59	4,112.87	173.72	24.675	
7,850.00	7,328.47	7,309.53	7,290.47	48.54	126.59	-14.77	-1,435.65	4,327.97	4,262.78	4,087.94	174.83	24.382	
7,900.00	7,370.32	7,332.32	7,332.32	48.47	126.99	-21.09	-1,435.65	4,327.97	4,236.41	4,061.20	175.21	24.180	
7,950.00	7,409.96	7,371.96	7,371.96	48.37	127.68	-26.94	-1,435.65	4,327.97	4,207.71	4,031.87	175.84	23.929	
8,000.00	7,447.08	7,409.08	7,409.08	48.24	128.33	-32.62	-1,435.65	4,327.97	4,176.90	4,000.51	176.39	23.680	
8,050.00	7,481.41	7,443.41	7,443.41	48.07	128.93	-38.33	-1,435.65	4,327.97	4,144.26	3,967.40	176.86	23.432	
8,100.00	7,512.67	7,474.67	7,474.67	47.87	129.47	-44.20	-1,435.65	4,327.97	4,110.07	3,932.82	177.25	23.189	
8,150.00	7,540.64	7,502.64	7,502.64	47.65	129.96	-50.28	-1,435.65	4,327.97	4,074.61	3,897.07	177.54	22.950	
8,200.00	7,565.09	7,527.09	7,527.09	47.40	130.39	-56.57	-1,435.65	4,327.97	4,038.21	3,860.46	177.75	22.718	
8,250.00	7,585.85	7,547.85	7,547.85	47.14	130.75	-62.99	-1,435.65	4,327.97	4,001.19	3,823.31	177.87	22.495	
8,300.00	7,602.75	7,564.75	7,564.75	46.86	131.04	-69.40	-1,435.65	4,327.97	3,963.86	3,785.95	177.90	22.281	
8,350.00	7,615.67	7,577.67	7,577.67	46.58	131.27	-75.64	-1,435.65	4,327.97	3,926.56	3,748.72	177.85	22.078	
8,400.00	7,624.51	7,586.51	7,586.51	46.28	131.42	-81.53	-1,435.65	4,327.97	3,889.63	3,711.93	177.70	21.889	
8,450.00	7,629.19	7,608.81	7,591.19	45.98	131.81	-86.94	-1,435.65	4,327.97	3,853.37	3,675.60	177.78	21.675	
8,481.00	7,630.00	7,608.00	7,592.00	45.79	131.80	-90.00	-1,435.65	4,327.97	3,831.38	3,653.82	177.56	21.578	
8,500.00	7,630.00	7,608.00	7,592.00	45.68	131.80	-90.00	-1,435.65	4,327.97	3,818.05	3,640.62	177.44	21.518	
8,600.00	7,630.00	7,608.00	7,592.00	45.11	131.80	-90.00	-1,435.65	4,327.97	3,748.73	3,571.94	176.79	21.204	
8,700.00	7,630.00	7,608.00	7,592.00	44.56	131.80	-90.00	-1,435.65	4,327.97	3,680.82	3,504.67	176.15	20.896	
8,800.00	7,630.00	7,608.00	7,592.00	44.05	131.80	-90.00	-1,435.65	4,327.97	3,614.41	3,438.89	175.52	20.593	

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1 — **Offset Site Error:** 0.00 usft

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

Reference		Offset		Semi Major Axis			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
8,900.00	7,630.00	7,608.00	7,592.00	43.57	131.80	-90.00	-1,435.65	4,327.97	3,549.56	3,374.66	174.90	20.295	
9,000.00	7,630.00	7,608.00	7,592.00	43.12	131.80	-90.00	-1,435.65	4,327.97	3,486.38	3,312.08	174.30	20.002	
9,100.00	7,630.00	7,608.00	7,592.00	42.70	131.80	-90.00	-1,435.65	4,327.97	3,424.96	3,251.22	173.73	19.714	
9,200.00	7,630.00	7,608.00	7,592.00	42.31	131.80	-90.00	-1,435.65	4,327.97	3,365.38	3,192.18	173.20	19.430	
9,300.00	7,630.00	7,608.00	7,592.00	41.94	131.80	-90.00	-1,435.65	4,327.97	3,307.76	3,135.04	172.72	19.151	
9,400.00	7,630.00	7,608.00	7,592.00	41.59	131.80	-90.00	-1,435.65	4,327.97	3,252.19	3,079.90	172.29	18.876	
9,500.00	7,630.00	7,608.00	7,592.00	41.26	131.80	-90.00	-1,435.65	4,327.97	3,198.78	3,026.85	171.93	18.605	
9,600.00	7,630.00	7,608.00	7,592.00	40.96	131.80	-90.00	-1,435.65	4,327.97	3,147.64	2,976.00	171.64	18.338	
9,700.00	7,630.00	7,608.00	7,592.00	40.68	131.80	-90.00	-1,435.65	4,327.97	3,098.89	2,927.44	171.45	18.074	
9,800.00	7,630.00	7,608.00	7,592.00	40.42	131.80	-90.00	-1,435.65	4,327.97	3,052.63	2,881.27	171.36	17.814	
9,900.00	7,630.00	7,608.00	7,592.00	40.17	131.80	-90.00	-1,435.65	4,327.97	3,008.99	2,837.61	171.38	17.557	
10,000.00	7,630.00	7,608.00	7,592.00	39.96	131.80	-90.00	-1,435.65	4,327.97	2,968.08	2,796.55	171.53	17.304	
10,100.00	7,630.00	7,608.00	7,592.00	40.05	131.80	-90.00	-1,435.65	4,327.97	2,930.01	2,758.20	171.81	17.054	
10,200.00	7,630.00	7,608.00	7,592.00	40.95	131.80	-90.00	-1,435.65	4,327.97	2,894.90	2,722.68	172.22	16.809	
10,300.00	7,630.00	7,608.00	7,592.00	41.94	131.80	-90.00	-1,435.65	4,327.97	2,862.85	2,690.07	172.77	16.570	
10,400.00	7,630.00	7,608.00	7,592.00	42.98	131.80	-90.00	-1,435.65	4,327.97	2,833.96	2,660.50	173.46	16.337	
10,500.00	7,630.00	7,608.00	7,592.00	44.06	131.80	-90.00	-1,435.65	4,327.97	2,808.35	2,634.05	174.29	16.113	
10,600.00	7,630.00	7,608.00	7,592.00	45.17	131.80	-90.00	-1,435.65	4,327.97	2,786.09	2,610.83	175.25	15.897	
10,700.00	7,630.00	7,608.00	7,592.00	46.32	131.80	-90.00	-1,435.65	4,327.97	2,767.26	2,590.93	176.34	15.693	
10,800.00	7,630.00	7,608.00	7,592.00	47.50	131.80	-90.00	-1,435.65	4,327.97	2,751.95	2,574.41	177.53	15.501	
10,900.00	7,630.00	7,608.00	7,592.00	48.70	131.80	-90.00	-1,435.65	4,327.97	2,740.20	2,561.37	178.82	15.324	
11,000.00	7,630.00	7,608.00	7,592.00	49.94	131.80	-90.00	-1,435.65	4,327.97	2,732.06	2,551.86	180.20	15.161	
11,100.00	7,630.00	7,608.00	7,592.00	51.20	131.80	-90.00	-1,435.65	4,327.97	2,727.56	2,545.92	181.64	15.016	
11,172.68	7,630.00	7,608.00	7,592.00	52.13	131.80	-90.00	-1,435.65	4,327.97	2,726.59	2,543.87	182.73	14.922	CC
11,200.00	7,630.00	7,608.00	7,592.00	52.48	131.80	-90.00	-1,435.65	4,327.97	2,726.73	2,543.60	183.14	14.889	ES
11,300.00	7,630.00	7,608.00	7,592.00	53.79	131.80	-90.00	-1,435.65	4,327.97	2,729.56	2,544.90	184.67	14.781	
11,400.00	7,630.00	7,608.00	7,592.00	55.12	131.80	-90.00	-1,435.65	4,327.97	2,736.05	2,549.83	186.22	14.693	
11,500.00	7,630.00	7,608.00	7,592.00	56.46	131.80	-90.00	-1,435.65	4,327.97	2,746.17	2,558.39	187.78	14.624	
11,600.00	7,630.00	7,608.00	7,592.00	57.83	131.80	-90.00	-1,435.65	4,327.97	2,759.88	2,570.54	189.33	14.577	
11,700.00	7,630.00	7,608.00	7,592.00	59.22	131.80	-90.00	-1,435.65	4,327.97	2,777.12	2,586.25	190.87	14.550	
11,800.00	7,630.00	7,608.00	7,592.00	60.62	131.80	-90.00	-1,435.65	4,327.97	2,797.83	2,605.46	192.37	14.544	SF
11,900.00	7,630.00	7,608.00	7,592.00	62.04	131.80	-90.00	-1,435.65	4,327.97	2,821.93	2,628.09	193.84	14.558	
12,000.00	7,630.00	7,608.00	7,592.00	63.48	131.80	-90.00	-1,435.65	4,327.97	2,849.35	2,654.09	195.26	14.593	
12,100.00	7,630.00	7,608.00	7,592.00	64.93	131.80	-90.00	-1,435.65	4,327.97	2,879.97	2,683.34	196.63	14.647	
12,200.00	7,630.00	7,608.00	7,592.00	66.39	131.80	-90.00	-1,435.65	4,327.97	2,913.71	2,715.77	197.94	14.720	
12,300.00	7,630.00	7,608.00	7,592.00	67.86	131.80	-90.00	-1,435.65	4,327.97	2,950.45	2,751.26	199.19	14.812	
12,400.00	7,630.00	7,608.00	7,592.00	69.35	131.80	-90.00	-1,435.65	4,327.97	2,990.09	2,789.71	200.38	14.922	
12,500.00	7,630.00	7,608.00	7,592.00	70.85	131.80	-90.00	-1,435.65	4,327.97	3,032.51	2,831.00	201.51	15.049	
12,600.00	7,630.00	7,608.00	7,592.00	72.36	131.80	-90.00	-1,435.65	4,327.97	3,077.59	2,875.02	202.57	15.193	
12,700.00	7,630.00	7,608.00	7,592.00	73.88	131.80	-90.00	-1,435.65	4,327.97	3,125.22	2,921.66	203.56	15.353	
12,800.00	7,630.00	7,608.00	7,592.00	75.41	131.80	-90.00	-1,435.65	4,327.97	3,175.29	2,970.80	204.50	15.527	
12,900.00	7,630.00	7,608.00	7,592.00	76.95	131.80	-90.00	-1,435.65	4,327.97	3,227.68	3,022.32	205.37	15.717	
13,000.00	7,630.00	7,608.00	7,592.00	78.49	131.80	-90.00	-1,435.65	4,327.97	3,282.29	3,076.10	206.18	15.919	
13,100.00	7,630.00	7,608.00	7,592.00	80.05	131.80	-90.00	-1,435.65	4,327.97	3,338.99	3,132.05	206.94	16.135	
13,200.00	7,630.00	7,608.00	7,592.00	81.61	131.80	-90.00	-1,435.65	4,327.97	3,397.70	3,190.05	207.64	16.363	
13,300.00	7,630.00	7,608.00	7,592.00	83.18	131.80	-90.00	-1,435.65	4,327.97	3,458.29	3,250.00	208.29	16.603	
13,400.00	7,630.00	7,608.00	7,592.00	84.76	131.80	-90.00	-1,435.65	4,327.97	3,520.69	3,311.80	208.89	16.854	
13,500.00	7,630.00	7,608.00	7,592.00	86.34	131.80	-90.00	-1,435.65	4,327.97	3,584.79	3,375.34	209.45	17.115	
13,600.00	7,630.00	7,608.00	7,592.00	87.94	131.80	-90.00	-1,435.65	4,327.97	3,650.51	3,440.54	209.96	17.386	
13,700.00	7,630.00	7,608.00	7,592.00	89.53	131.80	-90.00	-1,435.65	4,327.97	3,717.75	3,507.31	210.44	17.667	
13,800.00	7,630.00	7,608.00	7,592.00	91.13	131.80	-90.00	-1,435.65	4,327.97	3,786.44	3,575.57	210.87	17.956	
13,900.00	7,630.00	7,608.00	7,592.00	92.74	131.80	-90.00	-1,435.65	4,327.97	3,856.50	3,645.23	211.27	18.254	

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,630.00	7,608.00	7,592.00	94.35	131.80	-90.00	-1,435.65	4,327.97	3,927.85	3,716.22	211.64	18.559	
14,100.00	7,630.00	7,608.00	7,592.00	95.97	131.80	-90.00	-1,435.65	4,327.97	4,000.44	3,788.46	211.98	18.872	
14,200.00	7,630.00	7,608.00	7,592.00	97.60	131.80	-90.00	-1,435.65	4,327.97	4,074.18	3,861.90	212.28	19.192	
14,300.00	7,630.00	7,608.00	7,592.00	99.22	131.80	-90.00	-1,435.65	4,327.97	4,149.03	3,936.46	212.57	19.519	
14,400.00	7,630.00	7,608.00	7,592.00	100.85	131.80	-90.00	-1,435.65	4,327.97	4,224.91	4,012.09	212.83	19.851	
14,500.00	7,630.00	7,608.00	7,592.00	102.49	131.80	-90.00	-1,435.65	4,327.97	4,301.79	4,088.72	213.06	20.190	
14,600.00	7,630.00	7,608.00	7,592.00	104.13	131.80	-90.00	-1,435.65	4,327.97	4,379.59	4,166.31	213.28	20.535	
14,700.00	7,630.00	7,608.00	7,592.00	105.77	131.80	-90.00	-1,435.65	4,327.97	4,458.28	4,244.81	213.48	20.884	
14,800.00	7,630.00	7,608.00	7,592.00	107.42	131.80	-90.00	-1,435.65	4,327.97	4,537.81	4,324.16	213.66	21.239	
14,900.00	7,630.00	7,608.00	7,592.00	109.07	131.80	-90.00	-1,435.65	4,327.97	4,618.14	4,404.32	213.82	21.598	
15,000.00	7,630.00	7,608.00	7,592.00	110.72	131.80	-90.00	-1,435.65	4,327.97	4,699.22	4,485.25	213.97	21.962	
15,100.00	7,630.00	7,608.00	7,592.00	112.38	131.80	-90.00	-1,435.65	4,327.97	4,781.02	4,566.91	214.10	22.330	
15,200.00	7,630.00	7,608.00	7,592.00	114.04	131.80	-90.00	-1,435.65	4,327.97	4,863.50	4,649.27	214.23	22.702	
15,300.00	7,630.00	7,608.00	7,592.00	115.71	131.80	-90.00	-1,435.65	4,327.97	4,946.62	4,732.28	214.34	23.078	
15,400.00	7,630.00	7,608.00	7,592.00	117.37	131.80	-90.00	-1,435.65	4,327.97	5,030.36	4,815.92	214.44	23.458	
15,500.00	7,630.00	7,608.00	7,592.00	119.04	131.80	-90.00	-1,435.65	4,327.97	5,114.68	4,900.15	214.53	23.841	
15,600.00	7,630.00	7,608.00	7,592.00	120.71	131.80	-90.00	-1,435.65	4,327.97	5,199.56	4,984.95	214.61	24.227	
15,700.00	7,630.00	7,608.00	7,592.00	122.39	131.80	-90.00	-1,435.65	4,327.97	5,284.97	5,070.28	214.69	24.617	
15,800.00	7,630.00	7,608.00	7,592.00	124.06	131.80	-90.00	-1,435.65	4,327.97	5,370.88	5,156.13	214.76	25.009	
15,900.00	7,630.00	7,608.00	7,592.00	125.74	131.80	-90.00	-1,435.65	4,327.97	5,457.28	5,242.46	214.82	25.404	
16,000.00	7,630.00	7,608.00	7,592.00	127.42	131.80	-90.00	-1,435.65	4,327.97	5,544.12	5,329.25	214.87	25.802	
16,100.00	7,630.00	7,608.00	7,592.00	129.10	131.80	-90.00	-1,435.65	4,327.97	5,631.41	5,416.49	214.92	26.202	
16,200.00	7,630.00	7,608.00	7,592.00	130.79	131.80	-90.00	-1,435.65	4,327.97	5,719.11	5,504.15	214.96	26.605	
16,300.00	7,630.00	7,608.00	7,592.00	132.48	131.80	-90.00	-1,435.65	4,327.97	5,807.21	5,592.21	215.00	27.010	
16,400.00	7,630.00	7,608.00	7,592.00	134.17	131.80	-90.00	-1,435.65	4,327.97	5,895.69	5,680.65	215.04	27.417	
16,500.00	7,630.00	7,608.00	7,592.00	135.86	131.80	-90.00	-1,435.65	4,327.97	5,984.53	5,769.46	215.07	27.826	
16,600.00	7,630.00	7,608.00	7,592.00	137.55	131.80	-90.00	-1,435.65	4,327.97	6,073.72	5,858.63	215.10	28.237	
16,700.00	7,630.00	7,608.00	7,592.00	139.24	131.80	-90.00	-1,435.65	4,327.97	6,163.24	5,948.12	215.12	28.650	
16,800.00	7,630.00	7,608.00	7,592.00	140.94	131.80	-90.00	-1,435.65	4,327.97	6,253.08	6,037.94	215.14	29.065	
16,900.00	7,630.00	7,608.00	7,592.00	142.64	131.80	-90.00	-1,435.65	4,327.97	6,343.22	6,128.07	215.16	29.482	
17,000.00	7,630.00	7,608.00	7,592.00	144.34	131.80	-90.00	-1,435.65	4,327.97	6,433.66	6,218.48	215.17	29.900	
17,100.00	7,630.00	7,608.00	7,592.00	146.04	131.80	-90.00	-1,435.65	4,327.97	6,524.37	6,309.18	215.19	30.320	
17,200.00	7,630.00	7,608.00	7,592.00	147.74	131.80	-90.00	-1,435.65	4,327.97	6,615.35	6,400.15	215.20	30.741	
17,300.00	7,630.00	7,608.00	7,592.00	149.44	131.80	-90.00	-1,435.65	4,327.97	6,706.59	6,491.38	215.21	31.163	
17,400.00	7,630.00	7,608.00	7,592.00	151.15	131.80	-90.00	-1,435.65	4,327.97	6,798.07	6,582.86	215.22	31.587	
17,500.00	7,630.00	7,608.00	7,592.00	152.86	131.80	-90.00	-1,435.65	4,327.97	6,889.79	6,674.57	215.22	32.012	
17,600.00	7,630.00	7,608.00	7,592.00	154.56	131.80	-90.00	-1,435.65	4,327.97	6,981.74	6,766.51	215.23	32.439	
17,700.00	7,630.00	7,608.00	7,592.00	156.27	131.80	-90.00	-1,435.65	4,327.97	7,073.91	6,858.68	215.23	32.866	
17,800.00	7,630.00	7,608.00	7,592.00	157.98	131.80	-90.00	-1,435.65	4,327.97	7,166.29	6,951.05	215.24	33.295	
17,900.00	7,630.00	7,608.00	7,592.00	159.70	131.80	-90.00	-1,435.65	4,327.97	7,258.87	7,043.63	215.24	33.725	
18,000.00	7,630.00	7,608.00	7,592.00	161.41	131.80	-90.00	-1,435.65	4,327.97	7,351.64	7,136.40	215.24	34.155	
18,100.00	7,630.00	7,608.00	7,592.00	163.12	131.80	-90.00	-1,435.65	4,327.97	7,444.60	7,229.36	215.24	34.587	
18,154.00	7,630.00	7,608.00	7,592.00	164.05	131.80	-90.00	-1,435.65	4,327.97	7,494.88	7,279.63	215.24	34.821	

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	123.56	-3,056.68	4,608.29	5,530.09				
100.00	100.00	53.00	53.00	0.13	0.41	123.56	-3,056.68	4,608.29	5,529.89	5,529.34	0.54	N/A	
200.00	200.00	153.00	153.00	0.49	1.69	123.56	-3,056.68	4,608.29	5,529.89	5,527.70	2.19	2,529.834	
300.00	300.00	253.00	253.00	0.85	3.44	123.56	-3,056.68	4,608.29	5,529.89	5,525.60	4.29	1,289.117	
400.00	400.00	353.00	353.00	1.21	5.18	123.56	-3,056.68	4,608.29	5,529.89	5,523.49	6.39	864.927	
500.00	500.00	453.00	453.00	1.57	6.93	123.56	-3,056.68	4,608.29	5,529.89	5,521.39	8.50	650.784	
600.00	600.00	553.00	553.00	1.93	8.67	123.56	-3,056.68	4,608.29	5,529.89	5,519.28	10.60	521.635	
700.00	700.00	653.00	653.00	2.29	10.42	123.56	-3,056.68	4,608.29	5,529.89	5,517.18	12.70	435.257	
800.00	800.00	753.00	753.00	2.64	12.16	123.56	-3,056.68	4,608.29	5,529.89	5,515.08	14.81	373.422	
900.00	900.00	853.00	853.00	3.00	13.91	123.56	-3,056.68	4,608.29	5,529.89	5,512.97	16.91	326.971	
1,000.00	1,000.00	953.00	953.00	3.36	15.66	123.56	-3,056.68	4,608.29	5,529.89	5,510.87	19.02	290.798	
1,100.00	1,100.00	1,053.00	1,053.00	3.72	17.40	123.56	-3,056.68	4,608.29	5,529.89	5,508.77	21.12	261.831	
1,200.00	1,200.00	1,153.00	1,153.00	4.08	19.15	123.56	-3,056.68	4,608.29	5,529.89	5,506.66	23.22	238.112	
1,300.00	1,300.00	1,253.00	1,253.00	4.44	20.89	123.56	-3,056.68	4,608.29	5,529.89	5,504.56	25.33	218.334	
1,400.00	1,400.00	1,353.00	1,353.00	4.79	22.64	123.56	-3,056.68	4,608.29	5,529.89	5,502.45	27.43	201.589	
1,500.00	1,499.98	1,452.98	1,452.98	5.15	24.38	85.77	-3,056.68	4,608.29	5,529.76	5,500.22	29.53	187.242	
1,600.00	1,599.84	1,552.84	1,552.84	5.51	26.12	85.83	-3,056.68	4,608.29	5,529.37	5,497.74	31.63	174.813	
1,700.00	1,699.45	1,652.45	1,652.45	5.87	27.86	85.93	-3,056.68	4,608.29	5,528.75	5,495.02	33.73	163.931	
1,800.00	1,798.70	1,751.70	1,751.70	6.23	29.60	86.08	-3,056.68	4,608.29	5,527.89	5,492.07	35.82	154.319	
1,900.00	1,897.47	1,850.47	1,850.47	6.60	31.32	86.26	-3,056.68	4,608.29	5,526.83	5,488.91	37.92	145.761	
2,000.00	1,995.62	1,948.62	1,948.62	6.99	33.03	86.48	-3,056.68	4,608.29	5,525.60	5,485.58	40.02	138.082	
2,100.00	2,093.06	2,046.06	2,046.06	7.39	34.73	86.73	-3,056.68	4,608.29	5,524.23	5,482.11	42.12	131.147	
2,200.00	2,189.64	2,142.64	2,142.64	7.82	36.42	87.02	-3,056.68	4,608.29	5,522.77	5,478.53	44.24	124.843	
2,300.00	2,285.27	2,238.27	2,238.27	8.28	38.09	87.34	-3,056.68	4,608.29	5,521.26	5,474.90	46.37	119.082	
2,400.00	2,379.82	2,332.82	2,332.82	8.77	39.74	87.69	-3,056.68	4,608.29	5,519.77	5,471.26	48.51	113.790	
2,500.00	2,473.17	2,426.17	2,426.17	9.31	41.37	88.06	-3,056.68	4,608.29	5,518.35	5,467.68	50.67	108.909	
2,600.00	2,565.21	2,518.21	2,518.21	9.88	42.97	88.46	-3,056.68	4,608.29	5,517.06	5,464.21	52.85	104.390	
2,660.67	2,620.37	2,573.37	2,573.37	10.25	43.94	88.71	-3,056.68	4,608.29	5,516.38	5,462.19	54.18	101.808	
2,700.00	2,655.96	2,608.96	2,608.96	10.50	44.56	88.87	-3,056.68	4,608.29	5,515.99	5,460.93	55.05	100.194	
2,800.00	2,746.43	2,700.57	2,699.43	11.15	46.16	89.27	-3,056.68	4,608.29	5,515.22	5,457.92	57.30	96.250	
2,900.00	2,836.90	2,789.90	2,789.90	11.82	47.72	89.67	-3,056.68	4,608.29	5,514.79	5,455.26	59.53	92.638	
2,982.06	2,911.15	2,864.15	2,864.15	12.38	49.01	90.00	-3,056.68	4,608.29	5,514.68	5,453.29	61.39	89.830	
3,000.00	2,927.37	2,880.37	2,880.37	12.50	49.29	90.07	-3,056.68	4,608.29	5,514.68	5,452.89	61.80	89.238	
3,100.00	3,017.85	2,970.85	2,970.85	13.21	50.87	90.47	-3,056.68	4,608.29	5,514.91	5,450.83	64.08	86.065	
3,200.00	3,108.32	3,061.32	3,061.32	13.92	52.45	90.87	-3,056.68	4,608.29	5,515.46	5,449.09	66.37	83.099	
3,300.00	3,198.79	3,151.79	3,151.79	14.64	54.03	91.27	-3,056.68	4,608.29	5,516.34	5,447.66	68.68	80.324	
3,400.00	3,289.27	3,242.27	3,242.27	15.38	55.61	91.67	-3,056.68	4,608.29	5,517.55	5,446.56	70.99	77.724	
3,500.00	3,379.74	3,332.74	3,332.74	16.12	57.19	92.07	-3,056.68	4,608.29	5,519.09	5,445.78	73.31	75.285	
3,600.00	3,470.21	3,423.21	3,423.21	16.87	58.77	92.47	-3,056.68	4,608.29	5,520.96	5,445.32	75.64	72.994	
3,700.00	3,560.68	3,513.68	3,513.68	17.62	60.35	92.87	-3,056.68	4,608.29	5,523.15	5,445.18	77.97	70.839	
3,800.00	3,651.16	3,604.16	3,604.16	18.39	61.93	93.27	-3,056.68	4,608.29	5,525.67	5,445.37	80.30	68.809	
3,900.00	3,741.63	3,705.37	3,694.63	19.15	63.69	93.67	-3,056.68	4,608.29	5,528.52	5,445.69	82.83	66.744	
4,000.00	3,832.10	3,785.10	3,785.10	19.92	65.09	94.07	-3,056.68	4,608.29	5,531.70	5,446.71	84.99	65.089	
4,100.00	3,922.57	3,875.57	3,875.57	20.69	66.66	94.47	-3,056.68	4,608.29	5,535.20	5,447.87	87.33	63.381	
4,200.00	4,013.05	3,966.05	3,966.05	21.47	68.24	94.87	-3,056.68	4,608.29	5,539.03	5,449.35	89.68	61.765	
4,300.00	4,103.52	4,056.52	4,056.52	22.25	69.82	95.26	-3,056.68	4,608.29	5,543.18	5,451.15	92.03	60.234	
4,400.00	4,193.99	4,146.99	4,146.99	23.03	71.40	95.66	-3,056.68	4,608.29	5,547.66	5,453.28	94.38	58.781	
4,500.00	4,284.47	4,237.47	4,237.47	23.81	72.98	96.06	-3,056.68	4,608.29	5,552.46	5,455.73	96.73	57.402	
4,600.00	4,374.94	4,327.94	4,327.94	24.60	74.56	96.45	-3,056.68	4,608.29	5,557.58	5,458.50	99.08	56.092	
4,700.00	4,465.41	4,418.41	4,418.41	25.39	76.14	96.85	-3,056.68	4,608.29	5,563.02	5,461.59	101.43	54.845	
4,800.00	4,555.88	4,508.88	4,508.88	26.18	77.72	97.24	-3,056.68	4,608.29	5,568.79	5,465.01	103.78	53.658	
4,900.00	4,646.36	4,600.64	4,599.36	26.97	79.32	97.63	-3,056.68	4,608.29	5,574.87	5,468.72	106.16	52.516	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,000.00	4,736.83	4,689.83	4,689.83	27.76	80.88	98.03	-3,056.68	4,608.29	5,581.27	5,472.79	108.48	51.448	
5,100.00	4,827.30	4,780.30	4,780.30	28.55	82.45	98.42	-3,056.68	4,608.29	5,587.99	5,477.16	110.83	50.418	
5,200.00	4,917.77	4,870.77	4,870.77	29.35	84.03	98.81	-3,056.68	4,608.29	5,595.03	5,481.85	113.18	49.434	
5,300.00	5,008.25	4,961.25	4,961.25	30.15	85.61	99.20	-3,056.68	4,608.29	5,602.38	5,486.85	115.53	48.493	
5,400.00	5,098.72	5,051.72	5,051.72	30.94	87.19	99.59	-3,056.68	4,608.29	5,610.05	5,492.17	117.88	47.593	
5,500.00	5,189.19	5,142.19	5,142.19	31.74	88.77	99.98	-3,056.68	4,608.29	5,618.02	5,497.80	120.22	46.731	
5,600.00	5,279.67	5,232.67	5,232.67	32.54	90.35	100.37	-3,056.68	4,608.29	5,626.31	5,503.75	122.56	45.905	
5,700.00	5,370.14	5,323.14	5,323.14	33.34	91.93	100.76	-3,056.68	4,608.29	5,634.91	5,510.00	124.90	45.114	
5,800.00	5,460.61	5,413.61	5,413.61	34.14	93.51	101.14	-3,056.68	4,608.29	5,643.82	5,516.57	127.24	44.354	
5,900.00	5,551.08	5,504.08	5,504.08	34.94	95.09	101.53	-3,056.68	4,608.29	5,653.03	5,523.45	129.58	43.625	
6,000.00	5,641.56	5,605.44	5,594.56	35.75	96.86	101.91	-3,056.68	4,608.29	5,662.55	5,530.44	132.11	42.863	
6,100.00	5,732.03	5,685.03	5,685.03	36.55	98.25	102.29	-3,056.68	4,608.29	5,672.37	5,538.12	134.25	42.252	
6,200.00	5,822.50	5,775.50	5,775.50	37.35	99.82	102.67	-3,056.68	4,608.29	5,682.50	5,545.92	136.58	41.605	
6,300.00	5,912.97	5,865.97	5,865.97	38.16	101.40	103.06	-3,056.68	4,608.29	5,692.93	5,554.02	138.91	40.983	
6,400.00	6,003.45	5,956.45	5,956.45	38.96	102.98	103.43	-3,056.68	4,608.29	5,703.65	5,562.42	141.24	40.384	
6,500.00	6,093.92	6,046.92	6,046.92	39.77	104.56	103.81	-3,056.68	4,608.29	5,714.67	5,571.12	143.56	39.807	
6,600.00	6,184.39	6,137.39	6,137.39	40.57	106.14	104.19	-3,056.68	4,608.29	5,725.99	5,580.11	145.88	39.252	
6,700.00	6,274.87	6,227.87	6,227.87	41.38	107.72	104.57	-3,056.68	4,608.29	5,737.61	5,589.41	148.20	38.716	
6,800.00	6,365.34	6,318.34	6,318.34	42.18	109.30	104.94	-3,056.68	4,608.29	5,749.51	5,599.00	150.51	38.200	
6,900.00	6,455.81	6,408.81	6,408.81	42.99	110.88	105.31	-3,056.68	4,608.29	5,761.71	5,608.88	152.82	37.702	
7,000.00	6,546.28	6,500.72	6,499.28	43.80	112.48	105.68	-3,056.68	4,608.29	5,774.19	5,619.03	155.16	37.215	
7,100.00	6,636.76	6,589.76	6,589.76	44.61	114.04	106.06	-3,056.68	4,608.29	5,786.96	5,629.52	157.44	36.757	
7,200.00	6,727.23	6,680.23	6,680.23	45.41	115.61	106.42	-3,056.68	4,608.29	5,800.01	5,640.27	159.74	36.309	
7,300.00	6,817.70	6,770.70	6,770.70	46.22	117.19	106.79	-3,056.68	4,608.29	5,813.35	5,651.31	162.04	35.876	
7,383.79	6,893.51	6,846.51	6,846.51	46.90	118.52	107.10	-3,056.68	4,608.29	5,824.75	5,660.78	163.97	35.524	
7,400.00	6,908.25	6,861.25	6,861.25	47.03	118.77	104.92	-3,056.68	4,608.29	5,826.78	5,662.44	164.34	35.456	
7,450.00	6,954.52	6,907.52	6,907.52	47.40	119.58	96.33	-3,056.68	4,608.29	5,830.66	5,665.18	165.48	35.234	
7,500.00	7,001.74	6,954.74	6,954.74	47.72	120.41	84.35	-3,056.68	4,608.29	5,830.91	5,664.29	166.61	34.997	
7,550.00	7,049.55	7,002.55	7,002.55	47.99	121.24	68.84	-3,056.68	4,608.29	5,827.48	5,659.76	167.72	34.746	
7,600.00	7,097.58	7,050.58	7,050.58	48.21	122.08	51.34	-3,056.68	4,608.29	5,820.40	5,651.61	168.79	34.483	
7,650.00	7,145.48	7,101.52	7,098.48	48.37	122.97	34.74	-3,056.68	4,608.29	5,809.70	5,639.83	169.87	34.201	
7,700.00	7,192.88	7,145.88	7,145.88	48.48	123.74	21.03	-3,056.68	4,608.29	5,795.46	5,624.67	170.80	33.932	
7,750.00	7,239.41	7,207.59	7,192.41	48.54	124.82	10.35	-3,056.68	4,608.29	5,777.77	5,605.78	171.99	33.594	
7,800.00	7,284.72	7,237.72	7,237.72	48.56	125.34	1.99	-3,056.68	4,608.29	5,756.77	5,584.17	172.59	33.354	
7,850.00	7,328.47	7,281.47	7,281.47	48.54	126.11	-4.85	-3,056.68	4,608.29	5,732.60	5,559.20	173.40	33.059	
7,900.00	7,370.32	7,323.32	7,323.32	48.47	126.84	-10.78	-3,056.68	4,608.29	5,705.45	5,531.31	174.15	32.763	
7,950.00	7,409.96	7,362.96	7,362.96	48.37	127.53	-16.24	-3,056.68	4,608.29	5,675.55	5,500.73	174.82	32.465	
8,000.00	7,447.08	7,400.08	7,400.08	48.24	128.18	-21.57	-3,056.68	4,608.29	5,643.11	5,467.69	175.42	32.170	
8,050.00	7,481.41	7,434.41	7,434.41	48.07	128.78	-27.02	-3,056.68	4,608.29	5,608.40	5,432.46	175.94	31.877	
8,100.00	7,512.67	7,465.67	7,465.67	47.87	129.32	-32.81	-3,056.68	4,608.29	5,571.69	5,395.32	176.38	31.590	
8,150.00	7,540.64	7,506.36	7,493.64	47.65	130.03	-39.09	-3,056.68	4,608.29	5,533.29	5,356.33	176.95	31.270	
8,200.00	7,565.09	7,518.09	7,518.09	47.40	130.24	-45.98	-3,056.68	4,608.29	5,493.50	5,316.50	177.00	31.036	
8,250.00	7,585.85	7,538.85	7,538.85	47.14	130.60	-53.47	-3,056.68	4,608.29	5,452.65	5,275.46	177.19	30.773	
8,300.00	7,602.75	7,555.75	7,555.75	46.86	130.90	-61.46	-3,056.68	4,608.29	5,411.07	5,233.78	177.29	30.521	
8,350.00	7,615.67	7,568.67	7,568.67	46.58	131.12	-69.71	-3,056.68	4,608.29	5,369.11	5,191.80	177.31	30.282	
8,400.00	7,624.51	7,577.51	7,577.51	46.28	131.28	-77.87	-3,056.68	4,608.29	5,327.10	5,149.86	177.24	30.056	
8,450.00	7,629.19	7,582.19	7,582.19	45.98	131.36	-85.58	-3,056.68	4,608.29	5,285.39	5,108.30	177.08	29.847	
8,481.00	7,630.00	7,583.00	7,583.00	45.79	131.37	-90.00	-3,056.68	4,608.29	5,259.82	5,082.88	176.95	29.725	
8,500.00	7,630.00	7,583.00	7,583.00	45.68	131.37	-90.00	-3,056.68	4,608.29	5,244.26	5,067.41	176.85	29.653	
8,600.00	7,630.00	7,583.00	7,583.00	45.11	131.37	-90.00	-3,056.68	4,608.29	5,162.72	4,986.35	176.37	29.272	
8,700.00	7,630.00	7,583.00	7,583.00	44.56	131.37	-90.00	-3,056.68	4,608.29	5,081.85	4,905.96	175.89	28.892	
8,800.00	7,630.00	7,583.00	7,583.00	44.05	131.37	-90.00	-3,056.68	4,608.29	5,001.66	4,826.25	175.41	28.514	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
8,900.00	7,630.00	7,583.00	7,583.00	43.57	131.37	-90.00	-3,056.68	4,608.29	4,922.20	4,747.26	174.94	28.136	
9,000.00	7,630.00	7,583.00	7,583.00	43.12	131.37	-90.00	-3,056.68	4,608.29	4,843.50	4,669.02	174.49	27.759	
9,100.00	7,630.00	7,583.00	7,583.00	42.70	131.37	-90.00	-3,056.68	4,608.29	4,765.60	4,591.56	174.04	27.382	
9,200.00	7,630.00	7,583.00	7,583.00	42.31	131.37	-90.00	-3,056.68	4,608.29	4,688.54	4,514.93	173.61	27.006	
9,300.00	7,630.00	7,583.00	7,583.00	41.94	131.37	-90.00	-3,056.68	4,608.29	4,612.36	4,439.16	173.20	26.631	
9,400.00	7,630.00	7,583.00	7,583.00	41.59	131.37	-90.00	-3,056.68	4,608.29	4,537.10	4,364.29	172.81	26.255	
9,500.00	7,630.00	7,583.00	7,583.00	41.26	131.37	-90.00	-3,056.68	4,608.29	4,462.82	4,290.37	172.45	25.878	
9,600.00	7,630.00	7,583.00	7,583.00	40.96	131.37	-90.00	-3,056.68	4,608.29	4,389.56	4,217.43	172.13	25.501	
9,700.00	7,630.00	7,583.00	7,583.00	40.68	131.37	-90.00	-3,056.68	4,608.29	4,317.37	4,145.52	171.85	25.123	
9,800.00	7,630.00	7,583.00	7,583.00	40.42	131.37	-90.00	-3,056.68	4,608.29	4,246.31	4,074.69	171.61	24.744	
9,900.00	7,630.00	7,583.00	7,583.00	40.17	131.37	-90.00	-3,056.68	4,608.29	4,176.43	4,005.00	171.43	24.363	
10,000.00	7,630.00	7,583.00	7,583.00	39.96	131.37	-90.00	-3,056.68	4,608.29	4,107.80	3,936.49	171.30	23.980	
10,100.00	7,630.00	7,583.00	7,583.00	40.05	131.37	-90.00	-3,056.68	4,608.29	4,040.48	3,869.23	171.25	23.595	
10,200.00	7,630.00	7,583.00	7,583.00	40.95	131.37	-90.00	-3,056.68	4,608.29	3,974.53	3,803.27	171.26	23.207	
10,300.00	7,630.00	7,583.00	7,583.00	41.94	131.37	-90.00	-3,056.68	4,608.29	3,910.03	3,738.67	171.36	22.817	
10,400.00	7,630.00	7,583.00	7,583.00	42.98	131.37	-90.00	-3,056.68	4,608.29	3,847.05	3,675.50	171.55	22.425	
10,500.00	7,630.00	7,583.00	7,583.00	44.06	131.37	-90.00	-3,056.68	4,608.29	3,785.66	3,613.83	171.84	22.030	
10,600.00	7,630.00	7,583.00	7,583.00	45.17	131.37	-90.00	-3,056.68	4,608.29	3,725.95	3,553.72	172.23	21.634	
10,700.00	7,630.00	7,583.00	7,583.00	46.32	131.37	-90.00	-3,056.68	4,608.29	3,667.99	3,495.27	172.72	21.236	
10,800.00	7,630.00	7,583.00	7,583.00	47.50	131.37	-90.00	-3,056.68	4,608.29	3,611.87	3,438.53	173.33	20.838	
10,900.00	7,630.00	7,583.00	7,583.00	48.70	131.37	-90.00	-3,056.68	4,608.29	3,557.67	3,383.61	174.06	20.439	
11,000.00	7,630.00	7,583.00	7,583.00	49.94	131.37	-90.00	-3,056.68	4,608.29	3,505.49	3,330.59	174.91	20.042	
11,100.00	7,630.00	7,583.00	7,583.00	51.20	131.37	-90.00	-3,056.68	4,608.29	3,455.42	3,279.55	175.87	19.647	
11,200.00	7,630.00	7,583.00	7,583.00	52.48	131.37	-90.00	-3,056.68	4,608.29	3,407.55	3,230.59	176.96	19.256	
11,300.00	7,630.00	7,583.00	7,583.00	53.79	131.37	-90.00	-3,056.68	4,608.29	3,361.97	3,183.80	178.17	18.870	
11,400.00	7,630.00	7,583.00	7,583.00	55.12	131.37	-90.00	-3,056.68	4,608.29	3,318.78	3,139.29	179.48	18.491	
11,500.00	7,630.00	7,583.00	7,583.00	56.46	131.37	-90.00	-3,056.68	4,608.29	3,278.07	3,097.16	180.91	18.120	
11,600.00	7,630.00	7,583.00	7,583.00	57.83	131.37	-90.00	-3,056.68	4,608.29	3,239.94	3,057.49	182.44	17.759	
11,700.00	7,630.00	7,583.00	7,583.00	59.22	131.37	-90.00	-3,056.68	4,608.29	3,204.47	3,020.40	184.07	17.409	
11,800.00	7,630.00	7,583.00	7,583.00	60.62	131.37	-90.00	-3,056.68	4,608.29	3,171.76	2,985.98	185.78	17.072	
11,900.00	7,630.00	7,583.00	7,583.00	62.04	131.37	-90.00	-3,056.68	4,608.29	3,141.90	2,954.32	187.58	16.750	
12,000.00	7,630.00	7,583.00	7,583.00	63.48	131.37	-90.00	-3,056.68	4,608.29	3,114.96	2,925.52	189.43	16.443	
12,100.00	7,630.00	7,583.00	7,583.00	64.93	131.37	-90.00	-3,056.68	4,608.29	3,091.02	2,899.67	191.35	16.154	
12,200.00	7,630.00	7,583.00	7,583.00	66.39	131.37	-90.00	-3,056.68	4,608.29	3,070.16	2,876.85	193.31	15.882	
12,300.00	7,630.00	7,583.00	7,583.00	67.86	131.37	-90.00	-3,056.68	4,608.29	3,052.43	2,857.13	195.30	15.629	
12,400.00	7,630.00	7,583.00	7,583.00	69.35	131.37	-90.00	-3,056.68	4,608.29	3,037.89	2,840.57	197.32	15.396	
12,500.00	7,630.00	7,583.00	7,583.00	70.85	131.37	-90.00	-3,056.68	4,608.29	3,026.58	2,827.25	199.34	15.183	
12,600.00	7,630.00	7,583.00	7,583.00	72.36	131.37	-90.00	-3,056.68	4,608.29	3,018.55	2,817.20	201.35	14.991	
12,700.00	7,630.00	7,583.00	7,583.00	73.88	131.37	-90.00	-3,056.68	4,608.29	3,013.82	2,810.46	203.36	14.820	
12,792.76	7,630.00	7,583.00	7,583.00	75.30	131.37	-90.00	-3,056.68	4,608.29	3,012.39	2,807.20	205.19	14.681	CC
12,800.00	7,630.00	7,583.00	7,583.00	75.41	131.37	-90.00	-3,056.68	4,608.29	3,012.40	2,807.07	205.33	14.671	
12,900.00	7,630.00	7,583.00	7,583.00	76.95	131.37	-90.00	-3,056.68	4,608.29	3,014.30	2,807.03	207.27	14.543	ES
13,000.00	7,630.00	7,583.00	7,583.00	78.49	131.37	-90.00	-3,056.68	4,608.29	3,019.51	2,810.34	209.17	14.436	
13,100.00	7,630.00	7,583.00	7,583.00	80.05	131.37	-90.00	-3,056.68	4,608.29	3,028.02	2,817.01	211.01	14.350	
13,200.00	7,630.00	7,583.00	7,583.00	81.61	131.37	-90.00	-3,056.68	4,608.29	3,039.80	2,827.01	212.79	14.286	
13,300.00	7,630.00	7,583.00	7,583.00	83.18	131.37	-90.00	-3,056.68	4,608.29	3,054.80	2,840.30	214.50	14.242	
13,400.00	7,630.00	7,583.00	7,583.00	84.76	131.37	-90.00	-3,056.68	4,608.29	3,072.99	2,856.86	216.13	14.218	
13,500.00	7,630.00	7,583.00	7,583.00	86.34	131.37	-90.00	-3,056.68	4,608.29	3,094.30	2,876.61	217.69	14.214	SF
13,600.00	7,630.00	7,583.00	7,583.00	87.94	131.37	-90.00	-3,056.68	4,608.29	3,118.68	2,899.52	219.16	14.230	
13,700.00	7,630.00	7,583.00	7,583.00	89.53	131.37	-90.00	-3,056.68	4,608.29	3,146.04	2,925.49	220.55	14.264	
13,800.00	7,630.00	7,583.00	7,583.00	91.13	131.37	-90.00	-3,056.68	4,608.29	3,176.33	2,954.47	221.86	14.317	
13,900.00	7,630.00	7,583.00	7,583.00	92.74	131.37	-90.00	-3,056.68	4,608.29	3,209.44	2,986.36	223.08	14.387	

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,630.00	7,583.00	7,583.00	94.35	131.37	-90.00	-3,056.68	4,608.29	3,245.30	3,021.08	224.21	14.474	
14,100.00	7,630.00	7,583.00	7,583.00	95.97	131.37	-90.00	-3,056.68	4,608.29	3,283.81	3,058.54	225.27	14.577	
14,200.00	7,630.00	7,583.00	7,583.00	97.60	131.37	-90.00	-3,056.68	4,608.29	3,324.88	3,098.65	226.24	14.696	
14,300.00	7,630.00	7,583.00	7,583.00	99.22	131.37	-90.00	-3,056.68	4,608.29	3,368.43	3,141.30	227.13	14.830	
14,400.00	7,630.00	7,583.00	7,583.00	100.85	131.37	-90.00	-3,056.68	4,608.29	3,414.34	3,186.40	227.95	14.979	
14,500.00	7,630.00	7,583.00	7,583.00	102.49	131.37	-90.00	-3,056.68	4,608.29	3,462.54	3,233.85	228.69	15.141	
14,600.00	7,630.00	7,583.00	7,583.00	104.13	131.37	-90.00	-3,056.68	4,608.29	3,512.92	3,283.56	229.36	15.316	
14,700.00	7,630.00	7,583.00	7,583.00	105.77	131.37	-90.00	-3,056.68	4,608.29	3,565.40	3,335.43	229.97	15.504	
14,800.00	7,630.00	7,583.00	7,583.00	107.42	131.37	-90.00	-3,056.68	4,608.29	3,619.88	3,389.36	230.52	15.703	
14,900.00	7,630.00	7,583.00	7,583.00	109.07	131.37	-90.00	-3,056.68	4,608.29	3,676.27	3,445.27	231.00	15.914	
15,000.00	7,630.00	7,583.00	7,583.00	110.72	131.37	-90.00	-3,056.68	4,608.29	3,734.49	3,503.06	231.44	16.136	
15,100.00	7,630.00	7,583.00	7,583.00	112.38	131.37	-90.00	-3,056.68	4,608.29	3,794.45	3,562.63	231.82	16.368	
15,200.00	7,630.00	7,583.00	7,583.00	114.04	131.37	-90.00	-3,056.68	4,608.29	3,856.08	3,623.92	232.15	16.610	
15,300.00	7,630.00	7,583.00	7,583.00	115.71	131.37	-90.00	-3,056.68	4,608.29	3,919.28	3,686.84	232.44	16.861	
15,400.00	7,630.00	7,583.00	7,583.00	117.37	131.37	-90.00	-3,056.68	4,608.29	3,984.00	3,751.30	232.69	17.121	
15,500.00	7,630.00	7,583.00	7,583.00	119.04	131.37	-90.00	-3,056.68	4,608.29	4,050.14	3,817.24	232.91	17.390	
15,600.00	7,630.00	7,583.00	7,583.00	120.71	131.37	-90.00	-3,056.68	4,608.29	4,117.66	3,884.57	233.09	17.666	
15,700.00	7,630.00	7,583.00	7,583.00	122.39	131.37	-90.00	-3,056.68	4,608.29	4,186.47	3,953.24	233.23	17.950	
15,800.00	7,630.00	7,583.00	7,583.00	124.06	131.37	-90.00	-3,056.68	4,608.29	4,256.53	4,023.18	233.35	18.241	
15,900.00	7,630.00	7,583.00	7,583.00	125.74	131.37	-90.00	-3,056.68	4,608.29	4,327.76	4,094.31	233.44	18.539	
16,000.00	7,630.00	7,583.00	7,583.00	127.42	131.37	-90.00	-3,056.68	4,608.29	4,400.10	4,166.59	233.51	18.843	
16,100.00	7,630.00	7,583.00	7,583.00	129.10	131.37	-90.00	-3,056.68	4,608.29	4,473.52	4,239.96	233.56	19.154	
16,200.00	7,630.00	7,583.00	7,583.00	130.79	131.37	-90.00	-3,056.68	4,608.29	4,547.95	4,314.36	233.58	19.470	
16,300.00	7,630.00	7,583.00	7,583.00	132.48	131.37	-90.00	-3,056.68	4,608.29	4,623.34	4,389.75	233.59	19.793	
16,400.00	7,630.00	7,583.00	7,583.00	134.17	131.37	-90.00	-3,056.68	4,608.29	4,699.65	4,466.07	233.58	20.120	
16,500.00	7,630.00	7,583.00	7,583.00	135.86	131.37	-90.00	-3,056.68	4,608.29	4,776.84	4,543.28	233.56	20.452	
16,600.00	7,630.00	7,583.00	7,583.00	137.55	131.37	-90.00	-3,056.68	4,608.29	4,854.85	4,621.33	233.52	20.790	
16,700.00	7,630.00	7,583.00	7,583.00	139.24	131.37	-90.00	-3,056.68	4,608.29	4,933.67	4,700.19	233.48	21.131	
16,800.00	7,630.00	7,583.00	7,583.00	140.94	131.37	-90.00	-3,056.68	4,608.29	5,013.23	4,779.81	233.42	21.477	
16,900.00	7,630.00	7,583.00	7,583.00	142.64	131.37	-90.00	-3,056.68	4,608.29	5,093.52	4,860.17	233.35	21.828	
17,000.00	7,630.00	7,583.00	7,583.00	144.34	131.37	-90.00	-3,056.68	4,608.29	5,174.49	4,941.22	233.27	22.182	
17,100.00	7,630.00	7,583.00	7,583.00	146.04	131.37	-90.00	-3,056.68	4,608.29	5,256.12	5,022.93	233.19	22.540	
17,200.00	7,630.00	7,583.00	7,583.00	147.74	131.37	-90.00	-3,056.68	4,608.29	5,338.38	5,105.28	233.10	22.901	
17,300.00	7,630.00	7,583.00	7,583.00	149.44	131.37	-90.00	-3,056.68	4,608.29	5,421.23	5,188.22	233.01	23.266	
17,400.00	7,630.00	7,583.00	7,583.00	151.15	131.37	-90.00	-3,056.68	4,608.29	5,504.65	5,271.75	232.91	23.635	
17,500.00	7,630.00	7,583.00	7,583.00	152.86	131.37	-90.00	-3,056.68	4,608.29	5,588.62	5,355.82	232.80	24.006	
17,600.00	7,630.00	7,583.00	7,583.00	154.56	131.37	-90.00	-3,056.68	4,608.29	5,673.10	5,440.41	232.69	24.380	
17,700.00	7,630.00	7,583.00	7,583.00	156.27	131.37	-90.00	-3,056.68	4,608.29	5,758.08	5,525.50	232.58	24.757	
17,800.00	7,630.00	7,583.00	7,583.00	157.98	131.37	-90.00	-3,056.68	4,608.29	5,843.54	5,611.07	232.47	25.137	
17,900.00	7,630.00	7,583.00	7,583.00	159.70	131.37	-90.00	-3,056.68	4,608.29	5,929.45	5,697.10	232.35	25.519	
18,000.00	7,630.00	7,583.00	7,583.00	161.41	131.37	-90.00	-3,056.68	4,608.29	6,015.80	5,783.57	232.23	25.904	
18,100.00	7,630.00	7,583.00	7,583.00	163.12	131.37	-90.00	-3,056.68	4,608.29	6,102.57	5,870.45	232.11	26.291	
18,154.00	7,630.00	7,583.00	7,583.00	164.05	131.37	-90.00	-3,056.68	4,608.29	6,149.59	5,917.54	232.05	26.501	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	104.90	-1,581.03	5,943.71	6,150.64				
100.00	100.00	45.00	45.00	0.13	0.35	104.90	-1,581.03	5,943.71	6,150.40	6,149.92	0.48	N/A	
200.00	200.00	145.00	145.00	0.49	1.55	104.90	-1,581.03	5,943.71	6,150.40	6,148.35	2.05	3,005.703	
300.00	300.00	245.00	245.00	0.85	3.30	104.90	-1,581.03	5,943.71	6,150.40	6,146.25	4.15	1,482.008	
400.00	400.00	345.00	345.00	1.21	5.04	104.90	-1,581.03	5,943.71	6,150.40	6,144.14	6.25	983.459	
500.00	500.00	445.00	445.00	1.57	6.79	104.90	-1,581.03	5,943.71	6,150.40	6,142.04	8.36	735.901	
600.00	600.00	545.00	545.00	1.93	8.53	104.90	-1,581.03	5,943.71	6,150.40	6,139.94	10.46	587.911	
700.00	700.00	645.00	645.00	2.29	10.28	104.90	-1,581.03	5,943.71	6,150.40	6,137.83	12.57	489.477	
800.00	800.00	745.00	745.00	2.64	12.03	104.90	-1,581.03	5,943.71	6,150.40	6,135.73	14.67	419.277	
900.00	900.00	845.00	845.00	3.00	13.77	104.90	-1,581.03	5,943.71	6,150.40	6,133.62	16.77	366.688	
1,000.00	1,000.00	945.00	945.00	3.36	15.52	104.90	-1,581.03	5,943.71	6,150.40	6,131.52	18.88	325.820	
1,100.00	1,100.00	1,045.00	1,045.00	3.72	17.26	104.90	-1,581.03	5,943.71	6,150.40	6,129.42	20.98	293.149	
1,200.00	1,200.00	1,145.00	1,145.00	4.08	19.01	104.90	-1,581.03	5,943.71	6,150.40	6,127.31	23.08	266.433	
1,300.00	1,300.00	1,245.00	1,245.00	4.44	20.75	104.90	-1,581.03	5,943.71	6,150.40	6,125.21	25.19	244.179	
1,400.00	1,400.00	1,345.00	1,345.00	4.79	22.50	104.90	-1,581.03	5,943.71	6,150.40	6,123.11	27.29	225.357	
1,500.00	1,499.98	1,444.98	1,444.98	5.15	24.24	67.12	-1,581.03	5,943.71	6,149.72	6,120.33	29.39	209.224	
1,600.00	1,599.84	1,544.84	1,544.84	5.51	25.99	67.20	-1,581.03	5,943.71	6,147.68	6,116.19	31.49	195.226	
1,700.00	1,699.45	1,644.45	1,644.45	5.87	27.72	67.34	-1,581.03	5,943.71	6,144.31	6,110.72	33.58	182.948	
1,800.00	1,798.70	1,743.70	1,743.70	6.23	29.46	67.53	-1,581.03	5,943.71	6,139.60	6,103.92	35.68	172.085	
1,900.00	1,897.47	1,842.47	1,842.47	6.60	31.18	67.77	-1,581.03	5,943.71	6,133.59	6,095.82	37.77	162.393	
2,000.00	1,995.62	1,940.62	1,940.62	6.99	32.89	68.07	-1,581.03	5,943.71	6,126.30	6,086.43	39.86	153.682	
2,100.00	2,093.06	2,038.06	2,038.06	7.39	34.59	68.42	-1,581.03	5,943.71	6,117.77	6,075.81	41.96	145.798	
2,200.00	2,189.64	2,134.64	2,134.64	7.82	36.28	68.82	-1,581.03	5,943.71	6,108.05	6,063.99	44.06	138.617	
2,300.00	2,285.27	2,230.27	2,230.27	8.28	37.95	69.27	-1,581.03	5,943.71	6,097.18	6,051.00	46.18	132.041	
2,400.00	2,379.82	2,324.82	2,324.82	8.77	39.60	69.77	-1,581.03	5,943.71	6,085.22	6,036.92	48.30	125.987	
2,500.00	2,473.17	2,418.17	2,418.17	9.31	41.23	70.32	-1,581.03	5,943.71	6,072.23	6,021.79	50.44	120.389	
2,600.00	2,565.21	2,510.21	2,510.21	9.88	42.83	70.91	-1,581.03	5,943.71	6,058.27	6,005.68	52.59	115.190	
2,660.67	2,620.37	2,565.37	2,565.37	10.25	43.80	71.28	-1,581.03	5,943.71	6,049.37	5,995.46	53.91	112.213	
2,700.00	2,655.96	2,600.96	2,600.96	10.50	44.42	71.42	-1,581.03	5,943.71	6,043.51	5,988.75	54.77	110.349	
2,800.00	2,746.43	2,708.57	2,691.43	11.15	46.30	71.77	-1,581.03	5,943.71	6,028.81	5,971.55	57.26	105.280	
2,900.00	2,836.90	2,781.90	2,781.90	11.82	47.58	72.13	-1,581.03	5,943.71	6,014.37	5,955.19	59.19	101.618	
3,000.00	2,927.37	2,872.37	2,872.37	12.50	49.16	72.48	-1,581.03	5,943.71	6,000.21	5,938.78	61.43	97.682	
3,100.00	3,017.85	2,962.85	2,962.85	13.21	50.73	72.83	-1,581.03	5,943.71	5,986.31	5,922.62	63.68	94.002	
3,200.00	3,108.32	3,053.32	3,053.32	13.92	52.31	73.19	-1,581.03	5,943.71	5,972.68	5,906.72	65.95	90.559	
3,300.00	3,198.79	3,143.79	3,143.79	14.64	53.89	73.55	-1,581.03	5,943.71	5,959.32	5,891.08	68.24	87.332	
3,400.00	3,289.27	3,234.27	3,234.27	15.38	55.47	73.91	-1,581.03	5,943.71	5,946.24	5,875.71	70.53	84.305	
3,500.00	3,379.74	3,324.74	3,324.74	16.12	57.05	74.27	-1,581.03	5,943.71	5,933.44	5,860.60	72.84	81.461	
3,600.00	3,470.21	3,415.21	3,415.21	16.87	58.63	74.63	-1,581.03	5,943.71	5,920.92	5,845.76	75.15	78.785	
3,700.00	3,560.68	3,505.68	3,505.68	17.62	60.21	74.99	-1,581.03	5,943.71	5,908.67	5,831.20	77.48	76.265	
3,800.00	3,651.16	3,603.84	3,596.16	18.39	61.92	75.36	-1,581.03	5,943.71	5,896.71	5,816.77	79.94	73.765	
3,900.00	3,741.63	3,686.63	3,686.63	19.15	63.37	75.72	-1,581.03	5,943.71	5,885.03	5,802.89	82.14	71.645	
4,000.00	3,832.10	3,777.10	3,777.10	19.92	64.95	76.09	-1,581.03	5,943.71	5,873.64	5,789.16	84.48	69.523	
4,100.00	3,922.57	3,867.57	3,867.57	20.69	66.52	76.46	-1,581.03	5,943.71	5,862.54	5,775.71	86.83	67.515	
4,200.00	4,013.05	3,958.05	3,958.05	21.47	68.10	76.83	-1,581.03	5,943.71	5,851.72	5,762.54	89.19	65.612	
4,300.00	4,103.52	4,048.52	4,048.52	22.25	69.68	77.20	-1,581.03	5,943.71	5,841.20	5,749.66	91.54	63.807	
4,400.00	4,193.99	4,138.99	4,138.99	23.03	71.26	77.57	-1,581.03	5,943.71	5,830.97	5,737.06	93.91	62.093	
4,500.00	4,284.47	4,229.47	4,229.47	23.81	72.84	77.94	-1,581.03	5,943.71	5,821.03	5,724.76	96.27	60.464	
4,600.00	4,374.94	4,319.94	4,319.94	24.60	74.42	78.31	-1,581.03	5,943.71	5,811.39	5,712.74	98.64	58.913	
4,700.00	4,465.41	4,410.41	4,410.41	25.39	76.00	78.69	-1,581.03	5,943.71	5,802.04	5,701.02	101.02	57.436	
4,800.00	4,555.88	4,500.88	4,500.88	26.18	77.58	79.06	-1,581.03	5,943.71	5,792.99	5,689.60	103.39	56.029	
4,900.00	4,646.36	4,608.64	4,591.36	26.97	79.46	79.44	-1,581.03	5,943.71	5,784.24	5,678.17	106.07	54.530	
5,000.00	4,736.83	4,681.83	4,681.83	27.76	80.74	79.82	-1,581.03	5,943.71	5,775.80	5,667.64	108.15	53.403	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,827.30	4,772.30	4,772.30	28.55	82.31	80.19	-1,581.03	5,943.71	5,767.65	5,657.11	110.54	52.178	
5,200.00	4,917.77	4,862.77	4,862.77	29.35	83.89	80.57	-1,581.03	5,943.71	5,759.81	5,646.89	112.93	51.005	
5,300.00	5,008.25	4,953.25	4,953.25	30.15	85.47	80.95	-1,581.03	5,943.71	5,752.27	5,636.96	115.31	49.884	
5,400.00	5,098.72	5,043.72	5,043.72	30.94	87.05	81.33	-1,581.03	5,943.71	5,745.04	5,627.34	117.70	48.809	
5,500.00	5,189.19	5,134.19	5,134.19	31.74	88.63	81.71	-1,581.03	5,943.71	5,738.12	5,618.02	120.10	47.779	
5,600.00	5,279.67	5,224.67	5,224.67	32.54	90.21	82.10	-1,581.03	5,943.71	5,731.50	5,609.01	122.49	46.792	
5,700.00	5,370.14	5,315.14	5,315.14	33.34	91.79	82.48	-1,581.03	5,943.71	5,725.20	5,600.31	124.88	45.844	
5,800.00	5,460.61	5,405.61	5,405.61	34.14	93.37	82.86	-1,581.03	5,943.71	5,719.20	5,591.92	127.28	44.934	
5,900.00	5,551.08	5,503.92	5,496.08	34.94	95.08	83.25	-1,581.03	5,943.71	5,713.52	5,583.70	129.81	44.013	
6,000.00	5,641.56	5,586.56	5,586.56	35.75	96.53	83.63	-1,581.03	5,943.71	5,708.15	5,576.07	132.08	43.219	
6,100.00	5,732.03	5,677.03	5,677.03	36.55	98.11	84.02	-1,581.03	5,943.71	5,703.09	5,568.61	134.47	42.410	
6,200.00	5,822.50	5,767.50	5,767.50	37.35	99.68	84.40	-1,581.03	5,943.71	5,698.34	5,561.47	136.87	41.632	
6,300.00	5,912.97	5,857.97	5,857.97	38.16	101.26	84.79	-1,581.03	5,943.71	5,693.91	5,554.64	139.27	40.883	
6,400.00	6,003.45	5,948.45	5,948.45	38.96	102.84	85.18	-1,581.03	5,943.71	5,689.80	5,548.13	141.67	40.162	
6,500.00	6,093.92	6,038.92	6,038.92	39.77	104.42	85.56	-1,581.03	5,943.71	5,686.00	5,541.93	144.07	39.467	
6,600.00	6,184.39	6,129.39	6,129.39	40.57	106.00	85.95	-1,581.03	5,943.71	5,682.52	5,536.05	146.47	38.796	
6,700.00	6,274.87	6,219.87	6,219.87	41.38	107.58	86.34	-1,581.03	5,943.71	5,679.35	5,530.48	148.87	38.150	
6,800.00	6,365.34	6,310.34	6,310.34	42.18	109.16	86.73	-1,581.03	5,943.71	5,676.51	5,525.24	151.27	37.526	
6,900.00	6,455.81	6,400.81	6,400.81	42.99	110.74	87.12	-1,581.03	5,943.71	5,673.98	5,520.31	153.67	36.924	
7,000.00	6,546.28	6,508.72	6,491.28	43.80	112.62	87.50	-1,581.03	5,943.71	5,671.77	5,515.40	156.37	36.271	
7,100.00	6,636.76	6,581.76	6,581.76	44.61	113.90	87.89	-1,581.03	5,943.71	5,669.88	5,511.41	158.46	35.780	
7,200.00	6,727.23	6,672.23	6,672.23	45.41	115.47	88.28	-1,581.03	5,943.71	5,668.31	5,507.45	160.86	35.237	
7,300.00	6,817.70	6,762.70	6,762.70	46.22	117.05	88.67	-1,581.03	5,943.71	5,667.06	5,503.80	163.26	34.713	
7,383.79	6,893.51	6,838.51	6,838.51	46.90	118.38	89.00	-1,581.03	5,943.71	5,666.26	5,500.99	165.26	34.286	
7,400.00	6,908.25	6,853.25	6,853.25	47.03	118.63	86.69	-1,581.03	5,943.71	5,665.98	5,500.33	165.65	34.205	
7,450.00	6,954.52	6,900.48	6,899.52	47.40	119.46	77.69	-1,581.03	5,943.71	5,663.34	5,496.50	166.84	33.944	
7,500.00	7,001.74	6,946.74	6,946.74	47.72	120.27	65.28	-1,581.03	5,943.71	5,658.00	5,490.02	167.97	33.684	
7,550.00	7,049.55	7,005.45	6,994.55	47.99	121.29	49.31	-1,581.03	5,943.71	5,649.96	5,480.69	169.27	33.378	
7,600.00	7,097.58	7,042.58	7,042.58	48.21	121.94	31.30	-1,581.03	5,943.71	5,639.26	5,469.13	170.13	33.146	
7,650.00	7,145.48	7,109.52	7,090.48	48.37	123.11	14.15	-1,581.03	5,943.71	5,625.97	5,454.52	171.46	32.812	
7,700.00	7,192.88	7,137.88	7,137.88	48.48	123.60	-0.15	-1,581.03	5,943.71	5,610.19	5,438.13	172.06	32.606	
7,750.00	7,239.41	7,184.41	7,184.41	48.54	124.41	-11.44	-1,581.03	5,943.71	5,592.02	5,419.10	172.93	32.338	
7,800.00	7,284.72	7,229.72	7,229.72	48.56	125.21	-20.43	-1,581.03	5,943.71	5,571.62	5,397.89	173.72	32.072	
7,850.00	7,328.47	7,273.47	7,273.47	48.54	125.97	-27.89	-1,581.03	5,943.71	5,549.14	5,374.69	174.45	31.810	
7,900.00	7,370.32	7,315.32	7,315.32	48.47	126.70	-34.37	-1,581.03	5,943.71	5,524.77	5,349.68	175.09	31.553	
7,950.00	7,409.96	7,354.96	7,354.96	48.37	127.39	-40.26	-1,581.03	5,943.71	5,498.73	5,323.07	175.66	31.303	
8,000.00	7,447.08	7,407.92	7,392.08	48.24	128.32	-45.80	-1,581.03	5,943.71	5,471.23	5,294.81	176.42	31.013	
8,050.00	7,481.41	7,426.41	7,426.41	48.07	128.64	-51.15	-1,581.03	5,943.71	5,442.52	5,265.99	176.53	30.830	
8,100.00	7,512.67	7,457.67	7,457.67	47.87	129.18	-56.38	-1,581.03	5,943.71	5,412.87	5,236.03	176.84	30.609	
8,150.00	7,540.64	7,485.64	7,485.64	47.65	129.67	-61.51	-1,581.03	5,943.71	5,382.53	5,205.48	177.05	30.401	
8,200.00	7,565.09	7,510.09	7,510.09	47.40	130.10	-66.53	-1,581.03	5,943.71	5,351.78	5,174.61	177.17	30.206	
8,250.00	7,585.85	7,530.85	7,530.85	47.14	130.46	-71.38	-1,581.03	5,943.71	5,320.90	5,143.69	177.21	30.026	
8,300.00	7,602.75	7,547.75	7,547.75	46.86	130.76	-76.01	-1,581.03	5,943.71	5,290.17	5,113.01	177.15	29.862	
8,350.00	7,615.67	7,560.67	7,560.67	46.58	130.98	-80.36	-1,581.03	5,943.71	5,259.86	5,082.85	177.01	29.715	
8,400.00	7,624.51	7,569.51	7,569.51	46.28	131.14	-84.36	-1,581.03	5,943.71	5,230.24	5,053.46	176.78	29.585	
8,450.00	7,629.19	7,574.19	7,574.19	45.98	131.22	-87.97	-1,581.03	5,943.71	5,201.58	5,025.11	176.48	29.475	
8,481.00	7,630.00	7,575.00	7,575.00	45.79	131.23	-90.00	-1,581.03	5,943.71	5,184.40	5,008.16	176.24	29.416	
8,500.00	7,630.00	7,575.00	7,575.00	45.68	131.23	-90.00	-1,581.03	5,943.71	5,174.05	4,997.96	176.09	29.382	
8,600.00	7,630.00	7,575.00	7,575.00	45.11	131.23	-90.00	-1,581.03	5,943.71	5,120.38	4,945.06	175.32	29.206	
8,700.00	7,630.00	7,575.00	7,575.00	44.56	131.23	-90.00	-1,581.03	5,943.71	5,068.11	4,893.53	174.58	29.031	
8,800.00	7,630.00	7,575.00	7,575.00	44.05	131.23	-90.00	-1,581.03	5,943.71	5,017.29	4,843.42	173.87	28.856	
8,900.00	7,630.00	7,575.00	7,575.00	43.57	131.23	-90.00	-1,581.03	5,943.71	4,967.97	4,794.76	173.21	28.682	

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 43-23 - OWB - Design #1 — **Offset Site Error:** 0.00 usft

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

Reference		Offset		Semi Major Axis			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
9,000.00	7,630.00	7,575.00	7,575.00	43.12	131.23	-90.00	-1,581.03	5,943.71	4,920.18	4,747.59	172.60	28.507	
9,100.00	7,630.00	7,575.00	7,575.00	42.70	131.23	-90.00	-1,581.03	5,943.71	4,873.98	4,701.94	172.04	28.330	
9,200.00	7,630.00	7,575.00	7,575.00	42.31	131.23	-90.00	-1,581.03	5,943.71	4,829.41	4,657.85	171.55	28.151	
9,300.00	7,630.00	7,575.00	7,575.00	41.94	131.23	-90.00	-1,581.03	5,943.71	4,786.51	4,615.37	171.14	27.969	
9,400.00	7,630.00	7,575.00	7,575.00	41.59	131.23	-90.00	-1,581.03	5,943.71	4,745.33	4,574.53	170.80	27.783	
9,500.00	7,630.00	7,575.00	7,575.00	41.26	131.23	-90.00	-1,581.03	5,943.71	4,705.91	4,535.36	170.55	27.592	
9,600.00	7,630.00	7,575.00	7,575.00	40.96	131.23	-90.00	-1,581.03	5,943.71	4,668.31	4,497.90	170.40	27.396	
9,700.00	7,630.00	7,575.00	7,575.00	40.68	131.23	-90.00	-1,581.03	5,943.71	4,632.55	4,462.20	170.35	27.194	
9,800.00	7,630.00	7,575.00	7,575.00	40.42	131.23	-90.00	-1,581.03	5,943.71	4,598.70	4,428.29	170.41	26.986	
9,900.00	7,630.00	7,575.00	7,575.00	40.17	131.23	-90.00	-1,581.03	5,943.71	4,566.78	4,396.20	170.58	26.772	
10,000.00	7,630.00	7,575.00	7,575.00	39.96	131.23	-90.00	-1,581.03	5,943.71	4,536.85	4,365.99	170.86	26.552	
10,100.00	7,630.00	7,575.00	7,575.00	40.05	131.23	-90.00	-1,581.03	5,943.71	4,508.93	4,337.67	171.26	26.328	
10,200.00	7,630.00	7,575.00	7,575.00	40.95	131.23	-90.00	-1,581.03	5,943.71	4,483.07	4,311.30	171.78	26.098	
10,300.00	7,630.00	7,575.00	7,575.00	41.94	131.23	-90.00	-1,581.03	5,943.71	4,459.31	4,286.91	172.40	25.866	
10,400.00	7,630.00	7,575.00	7,575.00	42.98	131.23	-90.00	-1,581.03	5,943.71	4,437.67	4,264.53	173.14	25.630	
10,500.00	7,630.00	7,575.00	7,575.00	44.06	131.23	-90.00	-1,581.03	5,943.71	4,418.19	4,244.21	173.98	25.394	
10,600.00	7,630.00	7,575.00	7,575.00	45.17	131.23	-90.00	-1,581.03	5,943.71	4,400.90	4,225.97	174.93	25.158	
10,700.00	7,630.00	7,575.00	7,575.00	46.32	131.23	-90.00	-1,581.03	5,943.71	4,385.81	4,209.85	175.96	24.924	
10,800.00	7,630.00	7,575.00	7,575.00	47.50	131.23	-90.00	-1,581.03	5,943.71	4,372.97	4,195.88	177.09	24.694	
10,900.00	7,630.00	7,575.00	7,575.00	48.70	131.23	-90.00	-1,581.03	5,943.71	4,362.38	4,184.08	178.29	24.468	
11,000.00	7,630.00	7,575.00	7,575.00	49.94	131.23	-90.00	-1,581.03	5,943.71	4,354.06	4,174.49	179.56	24.248	
11,100.00	7,630.00	7,575.00	7,575.00	51.20	131.23	-90.00	-1,581.03	5,943.71	4,348.02	4,167.12	180.90	24.035	
11,200.00	7,630.00	7,575.00	7,575.00	52.48	131.23	-90.00	-1,581.03	5,943.71	4,344.28	4,161.99	182.29	23.832	
11,300.00	7,630.00	7,575.00	7,575.00	53.79	131.23	-90.00	-1,581.03	5,943.71	4,342.84	4,159.11	183.73	23.637	
11,312.60	7,630.00	7,575.00	7,575.00	53.95	131.23	-90.00	-1,581.03	5,943.71	4,342.82	4,158.91	183.91	23.613	CC
11,400.00	7,630.00	7,575.00	7,575.00	55.12	131.23	-90.00	-1,581.03	5,943.71	4,343.70	4,158.50	185.20	23.454	ES
11,500.00	7,630.00	7,575.00	7,575.00	56.46	131.23	-90.00	-1,581.03	5,943.71	4,346.86	4,160.15	186.71	23.281	
11,600.00	7,630.00	7,575.00	7,575.00	57.83	131.23	-90.00	-1,581.03	5,943.71	4,352.32	4,164.08	188.24	23.121	
11,700.00	7,630.00	7,575.00	7,575.00	59.22	131.23	-90.00	-1,581.03	5,943.71	4,360.06	4,170.28	189.79	22.974	
11,800.00	7,630.00	7,575.00	7,575.00	60.62	131.23	-90.00	-1,581.03	5,943.71	4,370.08	4,178.74	191.34	22.839	
11,900.00	7,630.00	7,575.00	7,575.00	62.04	131.23	-90.00	-1,581.03	5,943.71	4,382.36	4,189.46	192.90	22.718	
12,000.00	7,630.00	7,575.00	7,575.00	63.48	131.23	-90.00	-1,581.03	5,943.71	4,396.89	4,202.42	194.46	22.611	
12,100.00	7,630.00	7,575.00	7,575.00	64.93	131.23	-90.00	-1,581.03	5,943.71	4,413.62	4,217.61	196.01	22.517	
12,200.00	7,630.00	7,575.00	7,575.00	66.39	131.23	-90.00	-1,581.03	5,943.71	4,432.56	4,235.00	197.55	22.437	
12,300.00	7,630.00	7,575.00	7,575.00	67.86	131.23	-90.00	-1,581.03	5,943.71	4,453.65	4,254.58	199.08	22.371	
12,400.00	7,630.00	7,575.00	7,575.00	69.35	131.23	-90.00	-1,581.03	5,943.71	4,476.89	4,276.30	200.58	22.319	
12,500.00	7,630.00	7,575.00	7,575.00	70.85	131.23	-90.00	-1,581.03	5,943.71	4,502.22	4,300.16	202.07	22.281	
12,600.00	7,630.00	7,575.00	7,575.00	72.36	131.23	-90.00	-1,581.03	5,943.71	4,529.62	4,326.10	203.52	22.256	
12,700.00	7,630.00	7,575.00	7,575.00	73.88	131.23	-90.00	-1,581.03	5,943.71	4,559.05	4,354.10	204.95	22.245	SF
12,800.00	7,630.00	7,575.00	7,575.00	75.41	131.23	-90.00	-1,581.03	5,943.71	4,590.47	4,384.13	206.34	22.247	
12,900.00	7,630.00	7,575.00	7,575.00	76.95	131.23	-90.00	-1,581.03	5,943.71	4,623.84	4,416.14	207.71	22.261	
13,000.00	7,630.00	7,575.00	7,575.00	78.49	131.23	-90.00	-1,581.03	5,943.71	4,659.12	4,450.09	209.03	22.289	
13,100.00	7,630.00	7,575.00	7,575.00	80.05	131.23	-90.00	-1,581.03	5,943.71	4,696.26	4,485.94	210.33	22.328	
13,200.00	7,630.00	7,575.00	7,575.00	81.61	131.23	-90.00	-1,581.03	5,943.71	4,735.23	4,523.64	211.58	22.380	
13,300.00	7,630.00	7,575.00	7,575.00	83.18	131.23	-90.00	-1,581.03	5,943.71	4,775.97	4,563.16	212.80	22.443	
13,400.00	7,630.00	7,575.00	7,575.00	84.76	131.23	-90.00	-1,581.03	5,943.71	4,818.44	4,604.45	213.98	22.518	
13,500.00	7,630.00	7,575.00	7,575.00	86.34	131.23	-90.00	-1,581.03	5,943.71	4,862.59	4,647.47	215.12	22.604	
13,600.00	7,630.00	7,575.00	7,575.00	87.94	131.23	-90.00	-1,581.03	5,943.71	4,908.39	4,692.16	216.23	22.700	
13,700.00	7,630.00	7,575.00	7,575.00	89.53	131.23	-90.00	-1,581.03	5,943.71	4,955.78	4,738.49	217.29	22.807	
13,800.00	7,630.00	7,575.00	7,575.00	91.13	131.23	-90.00	-1,581.03	5,943.71	5,004.72	4,786.40	218.32	22.924	
13,900.00	7,630.00	7,575.00	7,575.00	92.74	131.23	-90.00	-1,581.03	5,943.71	5,055.17	4,835.86	219.31	23.050	
14,000.00	7,630.00	7,575.00	7,575.00	94.35	131.23	-90.00	-1,581.03	5,943.71	5,107.07	4,886.81	220.26	23.186	

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 43-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	7,575.00	7,575.00	95.97	131.23	-90.00	-1,581.03	5,943.71	5,160.40	4,939.22	221.18	23.331	
14,200.00	7,630.00	7,575.00	7,575.00	97.60	131.23	-90.00	-1,581.03	5,943.71	5,215.09	4,993.03	222.06	23.485	
14,300.00	7,630.00	7,575.00	7,575.00	99.22	131.23	-90.00	-1,581.03	5,943.71	5,271.11	5,048.21	222.91	23.647	
14,400.00	7,630.00	7,575.00	7,575.00	100.85	131.23	-90.00	-1,581.03	5,943.71	5,328.43	5,104.71	223.72	23.817	
14,500.00	7,630.00	7,575.00	7,575.00	102.49	131.23	-90.00	-1,581.03	5,943.71	5,386.98	5,162.49	224.50	23.996	
14,600.00	7,630.00	7,575.00	7,575.00	104.13	131.23	-90.00	-1,581.03	5,943.71	5,446.75	5,221.50	225.25	24.181	
14,700.00	7,630.00	7,575.00	7,575.00	105.77	131.23	-90.00	-1,581.03	5,943.71	5,507.68	5,281.72	225.96	24.374	
14,800.00	7,630.00	7,575.00	7,575.00	107.42	131.23	-90.00	-1,581.03	5,943.71	5,569.74	5,343.10	226.65	24.575	
14,900.00	7,630.00	7,575.00	7,575.00	109.07	131.23	-90.00	-1,581.03	5,943.71	5,632.90	5,405.59	227.30	24.781	
15,000.00	7,630.00	7,575.00	7,575.00	110.72	131.23	-90.00	-1,581.03	5,943.71	5,697.10	5,469.17	227.93	24.995	
15,100.00	7,630.00	7,575.00	7,575.00	112.38	131.23	-90.00	-1,581.03	5,943.71	5,762.33	5,533.80	228.53	25.214	
15,200.00	7,630.00	7,575.00	7,575.00	114.04	131.23	-90.00	-1,581.03	5,943.71	5,828.55	5,599.44	229.11	25.440	
15,300.00	7,630.00	7,575.00	7,575.00	115.71	131.23	-90.00	-1,581.03	5,943.71	5,895.71	5,666.06	229.66	25.672	
15,400.00	7,630.00	7,575.00	7,575.00	117.37	131.23	-90.00	-1,581.03	5,943.71	5,963.80	5,733.62	230.18	25.909	
15,500.00	7,630.00	7,575.00	7,575.00	119.04	131.23	-90.00	-1,581.03	5,943.71	6,032.78	5,802.09	230.69	26.151	
15,600.00	7,630.00	7,575.00	7,575.00	120.71	131.23	-90.00	-1,581.03	5,943.71	6,102.61	5,871.45	231.17	26.399	
15,700.00	7,630.00	7,575.00	7,575.00	122.39	131.23	-90.00	-1,581.03	5,943.71	6,173.28	5,941.65	231.63	26.652	
15,800.00	7,630.00	7,575.00	7,575.00	124.06	131.23	-90.00	-1,581.03	5,943.71	6,244.75	6,012.68	232.06	26.909	
15,900.00	7,630.00	7,575.00	7,575.00	125.74	131.23	-90.00	-1,581.03	5,943.71	6,316.99	6,084.50	232.48	27.172	
16,000.00	7,630.00	7,575.00	7,575.00	127.42	131.23	-90.00	-1,581.03	5,943.71	6,389.98	6,157.09	232.88	27.438	
16,100.00	7,630.00	7,575.00	7,575.00	129.10	131.23	-90.00	-1,581.03	5,943.71	6,463.69	6,230.42	233.27	27.709	
16,200.00	7,630.00	7,575.00	7,575.00	130.79	131.23	-90.00	-1,581.03	5,943.71	6,538.10	6,304.47	233.63	27.985	
16,300.00	7,630.00	7,575.00	7,575.00	132.48	131.23	-90.00	-1,581.03	5,943.71	6,613.19	6,379.21	233.98	28.264	
16,400.00	7,630.00	7,575.00	7,575.00	134.17	131.23	-90.00	-1,581.03	5,943.71	6,688.93	6,454.61	234.31	28.547	
16,500.00	7,630.00	7,575.00	7,575.00	135.86	131.23	-90.00	-1,581.03	5,943.71	6,765.29	6,530.66	234.63	28.834	
16,600.00	7,630.00	7,575.00	7,575.00	137.55	131.23	-90.00	-1,581.03	5,943.71	6,842.27	6,607.34	234.94	29.124	
16,700.00	7,630.00	7,575.00	7,575.00	139.24	131.23	-90.00	-1,581.03	5,943.71	6,919.84	6,684.61	235.23	29.418	
16,800.00	7,630.00	7,575.00	7,575.00	140.94	131.23	-90.00	-1,581.03	5,943.71	6,997.97	6,762.47	235.51	29.715	
16,900.00	7,630.00	7,575.00	7,575.00	142.64	131.23	-90.00	-1,581.03	5,943.71	7,076.66	6,840.89	235.77	30.015	
17,000.00	7,630.00	7,575.00	7,575.00	144.34	131.23	-90.00	-1,581.03	5,943.71	7,155.88	6,919.86	236.02	30.318	
17,100.00	7,630.00	7,575.00	7,575.00	146.04	131.23	-90.00	-1,581.03	5,943.71	7,235.61	6,999.35	236.27	30.625	
17,200.00	7,630.00	7,575.00	7,575.00	147.74	131.23	-90.00	-1,581.03	5,943.71	7,315.84	7,079.35	236.50	30.934	
17,300.00	7,630.00	7,575.00	7,575.00	149.44	131.23	-90.00	-1,581.03	5,943.71	7,396.56	7,159.84	236.72	31.246	
17,400.00	7,630.00	7,575.00	7,575.00	151.15	131.23	-90.00	-1,581.03	5,943.71	7,477.74	7,240.80	236.93	31.561	
17,500.00	7,630.00	7,575.00	7,575.00	152.86	131.23	-90.00	-1,581.03	5,943.71	7,559.37	7,322.23	237.13	31.878	
17,600.00	7,630.00	7,575.00	7,575.00	154.56	131.23	-90.00	-1,581.03	5,943.71	7,641.43	7,404.11	237.33	32.198	
17,700.00	7,630.00	7,575.00	7,575.00	156.27	131.23	-90.00	-1,581.03	5,943.71	7,723.92	7,486.41	237.51	32.520	
17,800.00	7,630.00	7,575.00	7,575.00	157.98	131.23	-90.00	-1,581.03	5,943.71	7,806.82	7,569.13	237.69	32.845	
17,900.00	7,630.00	7,575.00	7,575.00	159.70	131.23	-90.00	-1,581.03	5,943.71	7,890.12	7,652.26	237.86	33.172	
18,000.00	7,630.00	7,575.00	7,575.00	161.41	131.23	-90.00	-1,581.03	5,943.71	7,973.80	7,735.78	238.02	33.501	
18,100.00	7,630.00	7,575.00	7,575.00	163.12	131.23	-90.00	-1,581.03	5,943.71	8,057.85	7,819.67	238.18	33.832	
18,154.00	7,630.00	7,575.00	7,575.00	164.05	131.23	-90.00	-1,581.03	5,943.71	8,103.39	7,865.13	238.26	34.011	

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	114.72	-2,507.16	5,446.88	5,996.40				
100.00	100.00	51.00	51.00	0.13	0.39	114.72	-2,507.16	5,446.88	5,996.20	5,995.67	0.53	N/A	
200.00	200.00	151.00	151.00	0.49	1.66	114.72	-2,507.16	5,446.88	5,996.20	5,994.05	2.15	2,787.681	
300.00	300.00	251.00	251.00	0.85	3.40	114.72	-2,507.16	5,446.88	5,996.20	5,991.94	4.25	1,409.291	
400.00	400.00	351.00	351.00	1.21	5.15	114.72	-2,507.16	5,446.88	5,996.20	5,989.84	6.36	943.011	
500.00	500.00	451.00	451.00	1.57	6.89	114.72	-2,507.16	5,446.88	5,996.20	5,987.74	8.46	708.572	
600.00	600.00	551.00	551.00	1.93	8.64	114.72	-2,507.16	5,446.88	5,996.20	5,985.63	10.57	567.490	
700.00	700.00	651.00	651.00	2.29	10.38	114.72	-2,507.16	5,446.88	5,996.20	5,983.53	12.67	473.261	
800.00	800.00	751.00	751.00	2.64	12.13	114.72	-2,507.16	5,446.88	5,996.20	5,981.42	14.77	405.868	
900.00	900.00	851.00	851.00	3.00	13.88	114.72	-2,507.16	5,446.88	5,996.20	5,979.32	16.88	355.276	
1,000.00	1,000.00	951.00	951.00	3.36	15.62	114.72	-2,507.16	5,446.88	5,996.20	5,977.22	18.98	315.899	
1,100.00	1,100.00	1,051.00	1,051.00	3.72	17.37	114.72	-2,507.16	5,446.88	5,996.20	5,975.11	21.09	284.380	
1,200.00	1,200.00	1,151.00	1,151.00	4.08	19.11	114.72	-2,507.16	5,446.88	5,996.20	5,973.01	23.19	258.580	
1,300.00	1,300.00	1,251.00	1,251.00	4.44	20.86	114.72	-2,507.16	5,446.88	5,996.20	5,970.90	25.29	237.072	
1,400.00	1,400.00	1,351.00	1,351.00	4.79	22.60	114.72	-2,507.16	5,446.88	5,996.20	5,968.80	27.40	218.867	
1,500.00	1,499.98	1,450.98	1,450.98	5.15	24.35	76.93	-2,507.16	5,446.88	5,995.80	5,966.30	29.50	203.263	
1,600.00	1,599.84	1,550.84	1,550.84	5.51	26.09	77.01	-2,507.16	5,446.88	5,994.62	5,963.03	31.60	189.733	
1,700.00	1,699.45	1,650.45	1,650.45	5.87	27.83	77.12	-2,507.16	5,446.88	5,992.66	5,958.97	33.69	177.875	
1,800.00	1,798.70	1,749.70	1,749.70	6.23	29.56	77.29	-2,507.16	5,446.88	5,989.94	5,954.16	35.78	167.390	
1,900.00	1,897.47	1,848.47	1,848.47	6.60	31.28	77.50	-2,507.16	5,446.88	5,986.49	5,948.61	37.88	158.042	
2,000.00	1,995.62	1,946.62	1,946.62	6.99	33.00	77.76	-2,507.16	5,446.88	5,982.33	5,942.35	39.98	149.647	
2,100.00	2,093.06	2,044.06	2,044.06	7.39	34.70	78.06	-2,507.16	5,446.88	5,977.50	5,935.42	42.08	142.053	
2,200.00	2,189.64	2,140.64	2,140.64	7.82	36.38	78.40	-2,507.16	5,446.88	5,972.04	5,927.85	44.19	135.143	
2,300.00	2,285.27	2,236.27	2,236.27	8.28	38.05	78.78	-2,507.16	5,446.88	5,966.00	5,919.69	46.31	128.819	
2,400.00	2,379.82	2,330.82	2,330.82	8.77	39.70	79.20	-2,507.16	5,446.88	5,959.44	5,910.99	48.45	123.001	
2,500.00	2,473.17	2,424.17	2,424.17	9.31	41.33	79.66	-2,507.16	5,446.88	5,952.42	5,901.82	50.60	117.626	
2,600.00	2,565.21	2,516.21	2,516.21	9.88	42.94	80.15	-2,507.16	5,446.88	5,945.00	5,892.22	52.78	112.640	
2,660.67	2,620.37	2,571.37	2,571.37	10.25	43.90	80.46	-2,507.16	5,446.88	5,940.33	5,886.22	54.11	109.787	
2,700.00	2,655.96	2,606.96	2,606.96	10.50	44.52	80.60	-2,507.16	5,446.88	5,937.29	5,882.32	54.97	108.002	
2,800.00	2,746.43	2,702.57	2,697.43	11.15	46.19	80.97	-2,507.16	5,446.88	5,929.78	5,872.49	57.28	103.514	
2,900.00	2,836.90	2,787.90	2,787.90	11.82	47.68	81.34	-2,507.16	5,446.88	5,922.56	5,863.12	59.44	99.643	
3,000.00	2,927.37	2,878.37	2,878.37	12.50	49.26	81.71	-2,507.16	5,446.88	5,915.63	5,853.93	61.70	95.878	
3,100.00	3,017.85	2,968.85	2,968.85	13.21	50.84	82.08	-2,507.16	5,446.88	5,909.01	5,845.03	63.98	92.361	
3,200.00	3,108.32	3,059.32	3,059.32	13.92	52.42	82.45	-2,507.16	5,446.88	5,902.69	5,836.42	66.27	89.072	
3,300.00	3,198.79	3,149.79	3,149.79	14.64	54.00	82.82	-2,507.16	5,446.88	5,896.66	5,828.09	68.57	85.993	
3,400.00	3,289.27	3,240.27	3,240.27	15.38	55.58	83.20	-2,507.16	5,446.88	5,890.94	5,820.06	70.89	83.106	
3,500.00	3,379.74	3,330.74	3,330.74	16.12	57.15	83.57	-2,507.16	5,446.88	5,885.53	5,812.32	73.21	80.396	
3,600.00	3,470.21	3,421.21	3,421.21	16.87	58.73	83.94	-2,507.16	5,446.88	5,880.41	5,804.87	75.54	77.848	
3,700.00	3,560.68	3,511.68	3,511.68	17.62	60.31	84.32	-2,507.16	5,446.88	5,875.60	5,797.73	77.87	75.451	
3,800.00	3,651.16	3,602.16	3,602.16	18.39	61.89	84.69	-2,507.16	5,446.88	5,871.10	5,790.88	80.22	73.191	
3,900.00	3,741.63	3,707.37	3,692.63	19.15	63.73	85.07	-2,507.16	5,446.88	5,866.90	5,784.08	82.82	70.838	
4,000.00	3,832.10	3,783.10	3,783.10	19.92	65.05	85.44	-2,507.16	5,446.88	5,863.01	5,778.09	84.92	69.045	
4,100.00	3,922.57	3,873.57	3,873.57	20.69	66.63	85.82	-2,507.16	5,446.88	5,859.42	5,772.15	87.27	67.140	
4,200.00	4,013.05	3,964.05	3,964.05	21.47	68.21	86.19	-2,507.16	5,446.88	5,856.14	5,766.51	89.63	65.335	
4,300.00	4,103.52	4,054.52	4,054.52	22.25	69.79	86.57	-2,507.16	5,446.88	5,853.17	5,761.18	91.99	63.625	
4,400.00	4,193.99	4,144.99	4,144.99	23.03	71.37	86.95	-2,507.16	5,446.88	5,850.51	5,756.15	94.36	62.002	
4,500.00	4,284.47	4,235.47	4,235.47	23.81	72.95	87.33	-2,507.16	5,446.88	5,848.16	5,751.43	96.73	60.460	
4,600.00	4,374.94	4,325.94	4,325.94	24.60	74.52	87.70	-2,507.16	5,446.88	5,846.12	5,747.02	99.10	58.993	
4,700.00	4,465.41	4,416.41	4,416.41	25.39	76.10	88.08	-2,507.16	5,446.88	5,844.39	5,742.92	101.47	57.597	
4,800.00	4,555.88	4,506.88	4,506.88	26.18	77.68	88.46	-2,507.16	5,446.88	5,842.97	5,739.12	103.84	56.267	
4,900.00	4,646.36	4,602.64	4,597.36	26.97	79.35	88.84	-2,507.16	5,446.88	5,841.85	5,735.54	106.31	54.951	
5,000.00	4,736.83	4,687.83	4,687.83	27.76	80.84	89.21	-2,507.16	5,446.88	5,841.05	5,732.46	108.59	53.789	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,827.30	4,778.30	4,778.30	28.55	82.42	89.59	-2,507.16	5,446.88	5,840.56	5,729.59	110.97	52.632	
5,200.00	4,917.77	4,868.77	4,868.77	29.35	84.00	89.97	-2,507.16	5,446.88	5,840.38	5,727.04	113.35	51.527	
5,207.98	4,924.99	4,875.99	4,875.99	29.41	84.12	90.00	-2,507.16	5,446.88	5,840.38	5,726.85	113.54	51.441	
5,300.00	5,008.25	4,959.25	4,959.25	30.15	85.58	90.35	-2,507.16	5,446.88	5,840.51	5,724.79	115.72	50.470	
5,400.00	5,098.72	5,049.72	5,049.72	30.94	87.16	90.73	-2,507.16	5,446.88	5,840.95	5,722.85	118.10	49.458	
5,500.00	5,189.19	5,140.19	5,140.19	31.74	88.74	91.10	-2,507.16	5,446.88	5,841.70	5,721.23	120.48	48.488	
5,600.00	5,279.67	5,230.67	5,230.67	32.54	90.31	91.48	-2,507.16	5,446.88	5,842.77	5,719.91	122.85	47.559	
5,700.00	5,370.14	5,321.14	5,321.14	33.34	91.89	91.86	-2,507.16	5,446.88	5,844.14	5,718.91	125.23	46.667	
5,800.00	5,460.61	5,411.61	5,411.61	34.14	93.47	92.24	-2,507.16	5,446.88	5,845.82	5,718.22	127.61	45.812	
5,900.00	5,551.08	5,502.08	5,502.08	34.94	95.05	92.61	-2,507.16	5,446.88	5,847.82	5,717.83	129.98	44.990	
6,000.00	5,641.56	5,607.44	5,592.56	35.75	96.89	92.99	-2,507.16	5,446.88	5,850.12	5,717.50	132.62	44.113	
6,100.00	5,732.03	5,683.03	5,683.03	36.55	98.21	93.37	-2,507.16	5,446.88	5,852.73	5,718.00	134.73	43.441	
6,200.00	5,822.50	5,773.50	5,773.50	37.35	99.79	93.75	-2,507.16	5,446.88	5,855.65	5,718.55	137.10	42.710	
6,300.00	5,912.97	5,863.97	5,863.97	38.16	101.37	94.12	-2,507.16	5,446.88	5,858.88	5,719.40	139.47	42.007	
6,400.00	6,003.45	5,954.45	5,954.45	38.96	102.95	94.50	-2,507.16	5,446.88	5,862.41	5,720.57	141.84	41.330	
6,500.00	6,093.92	6,044.92	6,044.92	39.77	104.53	94.87	-2,507.16	5,446.88	5,866.26	5,722.04	144.21	40.678	
6,600.00	6,184.39	6,135.39	6,135.39	40.57	106.11	95.25	-2,507.16	5,446.88	5,870.41	5,723.83	146.58	40.049	
6,700.00	6,274.87	6,225.87	6,225.87	41.38	107.68	95.62	-2,507.16	5,446.88	5,874.86	5,725.92	148.95	39.443	
6,800.00	6,365.34	6,316.34	6,316.34	42.18	109.26	96.00	-2,507.16	5,446.88	5,879.62	5,728.31	151.31	38.858	
6,900.00	6,455.81	6,406.81	6,406.81	42.99	110.84	96.37	-2,507.16	5,446.88	5,884.69	5,731.02	153.67	38.294	
7,000.00	6,546.28	6,502.72	6,497.28	43.80	112.52	96.74	-2,507.16	5,446.88	5,890.06	5,733.93	156.13	37.726	
7,100.00	6,636.76	6,587.76	6,587.76	44.61	114.00	97.12	-2,507.16	5,446.88	5,895.73	5,737.34	158.39	37.223	
7,200.00	6,727.23	6,678.23	6,678.23	45.41	115.58	97.49	-2,507.16	5,446.88	5,901.71	5,740.96	160.75	36.715	
7,300.00	6,817.70	6,768.70	6,768.70	46.22	117.16	97.86	-2,507.16	5,446.88	5,907.98	5,744.88	163.10	36.223	
7,383.79	6,893.51	6,844.51	6,844.51	46.90	118.48	98.17	-2,507.16	5,446.88	5,913.47	5,748.40	165.07	35.824	
7,400.00	6,908.25	6,859.25	6,859.25	47.03	118.74	95.94	-2,507.16	5,446.88	5,914.39	5,748.94	165.45	35.747	
7,450.00	6,954.52	6,905.52	6,905.52	47.40	119.55	87.19	-2,507.16	5,446.88	5,915.08	5,748.46	166.61	35.502	
7,500.00	7,001.74	6,952.74	6,952.74	47.72	120.37	75.02	-2,507.16	5,446.88	5,912.54	5,744.78	167.76	35.245	
7,550.00	7,049.55	7,000.55	7,000.55	47.99	121.21	59.31	-2,507.16	5,446.88	5,906.76	5,737.89	168.86	34.979	
7,600.00	7,097.58	7,048.58	7,048.58	48.21	122.04	41.56	-2,507.16	5,446.88	5,897.76	5,727.84	169.93	34.707	
7,650.00	7,145.48	7,103.52	7,096.48	48.37	123.00	24.69	-2,507.16	5,446.88	5,885.61	5,714.55	171.07	34.406	
7,700.00	7,192.88	7,143.88	7,143.88	48.48	123.71	10.66	-2,507.16	5,446.88	5,870.38	5,698.48	171.90	34.150	
7,750.00	7,239.41	7,209.59	7,190.41	48.54	124.85	-0.36	-2,507.16	5,446.88	5,852.18	5,679.04	173.14	33.801	
7,800.00	7,284.72	7,235.72	7,235.72	48.56	125.31	-9.10	-2,507.16	5,446.88	5,831.15	5,657.51	173.64	33.582	
7,850.00	7,328.47	7,279.47	7,279.47	48.54	126.07	-16.33	-2,507.16	5,446.88	5,807.44	5,633.03	174.41	33.298	
7,900.00	7,370.32	7,321.32	7,321.32	48.47	126.80	-22.66	-2,507.16	5,446.88	5,781.25	5,606.14	175.11	33.016	
7,950.00	7,409.96	7,360.96	7,360.96	48.37	127.50	-28.50	-2,507.16	5,446.88	5,752.79	5,577.06	175.73	32.737	
8,000.00	7,447.08	7,401.92	7,398.08	48.24	128.21	-34.14	-2,507.16	5,446.88	5,722.29	5,545.96	176.34	32.451	
8,050.00	7,481.41	7,432.41	7,432.41	48.07	128.74	-39.78	-2,507.16	5,446.88	5,690.01	5,513.28	176.73	32.196	
8,100.00	7,512.67	7,463.67	7,463.67	47.87	129.29	-45.52	-2,507.16	5,446.88	5,656.21	5,479.11	177.10	31.937	
8,150.00	7,540.64	7,508.36	7,491.64	47.65	130.07	-51.45	-2,507.16	5,446.88	5,621.19	5,443.50	177.68	31.636	
8,200.00	7,565.09	7,516.09	7,516.09	47.40	130.20	-57.54	-2,507.16	5,446.88	5,585.23	5,407.64	177.59	31.450	
8,250.00	7,585.85	7,536.85	7,536.85	47.14	130.57	-63.74	-2,507.16	5,446.88	5,548.64	5,370.94	177.70	31.224	
8,300.00	7,602.75	7,553.75	7,553.75	46.86	130.86	-69.92	-2,507.16	5,446.88	5,511.74	5,334.02	177.72	31.013	
8,350.00	7,615.67	7,566.67	7,566.67	46.58	131.09	-75.96	-2,507.16	5,446.88	5,474.84	5,297.18	177.66	30.816	
8,400.00	7,624.51	7,575.51	7,575.51	46.28	131.24	-81.69	-2,507.16	5,446.88	5,438.25	5,260.74	177.51	30.636	
8,450.00	7,629.19	7,580.19	7,580.19	45.98	131.32	-86.98	-2,507.16	5,446.88	5,402.28	5,225.00	177.28	30.473	
8,481.00	7,630.00	7,581.00	7,581.00	45.79	131.34	-90.00	-2,507.16	5,446.88	5,380.42	5,203.32	177.09	30.382	
8,500.00	7,630.00	7,581.00	7,581.00	45.68	131.34	-90.00	-2,507.16	5,446.88	5,367.16	5,190.19	176.97	30.328	
8,600.00	7,630.00	7,581.00	7,581.00	45.11	131.34	-90.00	-2,507.16	5,446.88	5,297.95	5,121.62	176.33	30.045	
8,700.00	7,630.00	7,581.00	7,581.00	44.56	131.34	-90.00	-2,507.16	5,446.88	5,229.74	5,054.04	175.71	29.764	
8,800.00	7,630.00	7,581.00	7,581.00	44.05	131.34	-90.00	-2,507.16	5,446.88	5,162.57	4,987.47	175.10	29.483	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
8,900.00	7,630.00	7,581.00	7,581.00	43.57	131.34	-90.00	-2,507.16	5,446.88	5,096.48	4,921.96	174.52	29.203	
9,000.00	7,630.00	7,581.00	7,581.00	43.12	131.34	-90.00	-2,507.16	5,446.88	5,031.50	4,857.54	173.96	28.923	
9,100.00	7,630.00	7,581.00	7,581.00	42.70	131.34	-90.00	-2,507.16	5,446.88	4,967.69	4,794.25	173.44	28.643	
9,200.00	7,630.00	7,581.00	7,581.00	42.31	131.34	-90.00	-2,507.16	5,446.88	4,905.08	4,732.13	172.95	28.362	
9,300.00	7,630.00	7,581.00	7,581.00	41.94	131.34	-90.00	-2,507.16	5,446.88	4,843.73	4,671.23	172.50	28.079	
9,400.00	7,630.00	7,581.00	7,581.00	41.59	131.34	-90.00	-2,507.16	5,446.88	4,783.69	4,611.58	172.10	27.795	
9,500.00	7,630.00	7,581.00	7,581.00	41.26	131.34	-90.00	-2,507.16	5,446.88	4,724.99	4,553.23	171.77	27.508	
9,600.00	7,630.00	7,581.00	7,581.00	40.96	131.34	-90.00	-2,507.16	5,446.88	4,667.71	4,496.22	171.49	27.219	
9,700.00	7,630.00	7,581.00	7,581.00	40.68	131.34	-90.00	-2,507.16	5,446.88	4,611.88	4,440.59	171.28	26.925	
9,800.00	7,630.00	7,581.00	7,581.00	40.42	131.34	-90.00	-2,507.16	5,446.88	4,557.56	4,386.40	171.15	26.628	
9,900.00	7,630.00	7,581.00	7,581.00	40.17	131.34	-90.00	-2,507.16	5,446.88	4,504.80	4,333.69	171.11	26.327	
10,000.00	7,630.00	7,581.00	7,581.00	39.96	131.34	-90.00	-2,507.16	5,446.88	4,453.67	4,282.51	171.16	26.021	
10,100.00	7,630.00	7,581.00	7,581.00	40.05	131.34	-90.00	-2,507.16	5,446.88	4,404.21	4,232.91	171.30	25.710	
10,200.00	7,630.00	7,581.00	7,581.00	40.95	131.34	-90.00	-2,507.16	5,446.88	4,356.49	4,184.94	171.55	25.395	
10,300.00	7,630.00	7,581.00	7,581.00	41.94	131.34	-90.00	-2,507.16	5,446.88	4,310.56	4,138.66	171.90	25.076	
10,400.00	7,630.00	7,581.00	7,581.00	42.98	131.34	-90.00	-2,507.16	5,446.88	4,266.48	4,094.12	172.36	24.753	
10,500.00	7,630.00	7,581.00	7,581.00	44.06	131.34	-90.00	-2,507.16	5,446.88	4,224.30	4,051.37	172.93	24.428	
10,600.00	7,630.00	7,581.00	7,581.00	45.17	131.34	-90.00	-2,507.16	5,446.88	4,184.10	4,010.48	173.62	24.100	
10,700.00	7,630.00	7,581.00	7,581.00	46.32	131.34	-90.00	-2,507.16	5,446.88	4,145.91	3,971.50	174.41	23.771	
10,800.00	7,630.00	7,581.00	7,581.00	47.50	131.34	-90.00	-2,507.16	5,446.88	4,109.81	3,934.49	175.31	23.443	
10,900.00	7,630.00	7,581.00	7,581.00	48.70	131.34	-90.00	-2,507.16	5,446.88	4,075.83	3,899.51	176.32	23.116	
11,000.00	7,630.00	7,581.00	7,581.00	49.94	131.34	-90.00	-2,507.16	5,446.88	4,044.05	3,866.62	177.43	22.792	
11,100.00	7,630.00	7,581.00	7,581.00	51.20	131.34	-90.00	-2,507.16	5,446.88	4,014.51	3,835.87	178.64	22.473	
11,200.00	7,630.00	7,581.00	7,581.00	52.48	131.34	-90.00	-2,507.16	5,446.88	3,987.25	3,807.32	179.93	22.160	
11,300.00	7,630.00	7,581.00	7,581.00	53.79	131.34	-90.00	-2,507.16	5,446.88	3,962.33	3,781.02	181.31	21.854	
11,400.00	7,630.00	7,581.00	7,581.00	55.12	131.34	-90.00	-2,507.16	5,446.88	3,939.80	3,757.04	182.76	21.557	
11,500.00	7,630.00	7,581.00	7,581.00	56.46	131.34	-90.00	-2,507.16	5,446.88	3,919.69	3,735.40	184.28	21.270	
11,600.00	7,630.00	7,581.00	7,581.00	57.83	131.34	-90.00	-2,507.16	5,446.88	3,902.03	3,716.17	185.87	20.994	
11,700.00	7,630.00	7,581.00	7,581.00	59.22	131.34	-90.00	-2,507.16	5,446.88	3,886.87	3,699.37	187.50	20.730	
11,800.00	7,630.00	7,581.00	7,581.00	60.62	131.34	-90.00	-2,507.16	5,446.88	3,874.23	3,685.06	189.17	20.480	
11,900.00	7,630.00	7,581.00	7,581.00	62.04	131.34	-90.00	-2,507.16	5,446.88	3,864.14	3,673.26	190.88	20.244	
12,000.00	7,630.00	7,581.00	7,581.00	63.48	131.34	-90.00	-2,507.16	5,446.88	3,856.62	3,664.01	192.61	20.022	
12,100.00	7,630.00	7,581.00	7,581.00	64.93	131.34	-90.00	-2,507.16	5,446.88	3,851.68	3,657.31	194.37	19.816	
12,200.00	7,630.00	7,581.00	7,581.00	66.39	131.34	-90.00	-2,507.16	5,446.88	3,849.33	3,653.20	196.13	19.626	
12,240.41	7,630.00	7,581.00	7,581.00	66.99	131.34	-90.00	-2,507.16	5,446.88	3,849.12	3,652.27	196.85	19.554	CC
12,300.00	7,630.00	7,581.00	7,581.00	67.86	131.34	-90.00	-2,507.16	5,446.88	3,849.58	3,651.68	197.90	19.452	ES
12,400.00	7,630.00	7,581.00	7,581.00	69.35	131.34	-90.00	-2,507.16	5,446.88	3,852.43	3,652.77	199.66	19.295	
12,500.00	7,630.00	7,581.00	7,581.00	70.85	131.34	-90.00	-2,507.16	5,446.88	3,857.86	3,656.45	201.41	19.154	
12,600.00	7,630.00	7,581.00	7,581.00	72.36	131.34	-90.00	-2,507.16	5,446.88	3,865.88	3,662.73	203.15	19.030	
12,700.00	7,630.00	7,581.00	7,581.00	73.88	131.34	-90.00	-2,507.16	5,446.88	3,876.46	3,671.60	204.86	18.922	
12,800.00	7,630.00	7,581.00	7,581.00	75.41	131.34	-90.00	-2,507.16	5,446.88	3,889.58	3,683.04	206.55	18.832	
12,900.00	7,630.00	7,581.00	7,581.00	76.95	131.34	-90.00	-2,507.16	5,446.88	3,905.23	3,697.03	208.20	18.757	
13,000.00	7,630.00	7,581.00	7,581.00	78.49	131.34	-90.00	-2,507.16	5,446.88	3,923.35	3,713.54	209.81	18.699	
13,100.00	7,630.00	7,581.00	7,581.00	80.05	131.34	-90.00	-2,507.16	5,446.88	3,943.94	3,732.55	211.39	18.658	
13,200.00	7,630.00	7,581.00	7,581.00	81.61	131.34	-90.00	-2,507.16	5,446.88	3,966.93	3,754.02	212.92	18.631	
13,300.00	7,630.00	7,581.00	7,581.00	83.18	131.34	-90.00	-2,507.16	5,446.88	3,992.30	3,777.90	214.40	18.621	SF
13,400.00	7,630.00	7,581.00	7,581.00	84.76	131.34	-90.00	-2,507.16	5,446.88	4,020.00	3,804.16	215.83	18.625	
13,500.00	7,630.00	7,581.00	7,581.00	86.34	131.34	-90.00	-2,507.16	5,446.88	4,049.98	3,832.76	217.22	18.645	
13,600.00	7,630.00	7,581.00	7,581.00	87.94	131.34	-90.00	-2,507.16	5,446.88	4,082.18	3,863.63	218.55	18.678	
13,700.00	7,630.00	7,581.00	7,581.00	89.53	131.34	-90.00	-2,507.16	5,446.88	4,116.57	3,896.74	219.83	18.726	
13,800.00	7,630.00	7,581.00	7,581.00	91.13	131.34	-90.00	-2,507.16	5,446.88	4,153.08	3,932.02	221.06	18.787	
13,900.00	7,630.00	7,581.00	7,581.00	92.74	131.34	-90.00	-2,507.16	5,446.88	4,191.65	3,969.42	222.23	18.861	

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

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,630.00	7,581.00	7,581.00	94.35	131.34	-90.00	-2,507.16	5,446.88	4,232.24	4,008.89	223.36	18.948	
14,100.00	7,630.00	7,581.00	7,581.00	95.97	131.34	-90.00	-2,507.16	5,446.88	4,274.79	4,050.36	224.42	19.048	
14,200.00	7,630.00	7,581.00	7,581.00	97.60	131.34	-90.00	-2,507.16	5,446.88	4,319.23	4,093.79	225.44	19.159	
14,300.00	7,630.00	7,581.00	7,581.00	99.22	131.34	-90.00	-2,507.16	5,446.88	4,365.51	4,139.10	226.41	19.282	
14,400.00	7,630.00	7,581.00	7,581.00	100.85	131.34	-90.00	-2,507.16	5,446.88	4,413.57	4,186.24	227.32	19.415	
14,500.00	7,630.00	7,581.00	7,581.00	102.49	131.34	-90.00	-2,507.16	5,446.88	4,463.35	4,235.16	228.19	19.560	
14,600.00	7,630.00	7,581.00	7,581.00	104.13	131.34	-90.00	-2,507.16	5,446.88	4,514.80	4,285.79	229.01	19.714	
14,700.00	7,630.00	7,581.00	7,581.00	105.77	131.34	-90.00	-2,507.16	5,446.88	4,567.86	4,338.07	229.79	19.879	
14,800.00	7,630.00	7,581.00	7,581.00	107.42	131.34	-90.00	-2,507.16	5,446.88	4,622.47	4,391.95	230.52	20.053	
14,900.00	7,630.00	7,581.00	7,581.00	109.07	131.34	-90.00	-2,507.16	5,446.88	4,678.58	4,447.38	231.21	20.236	
15,000.00	7,630.00	7,581.00	7,581.00	110.72	131.34	-90.00	-2,507.16	5,446.88	4,736.15	4,504.29	231.85	20.427	
15,100.00	7,630.00	7,581.00	7,581.00	112.38	131.34	-90.00	-2,507.16	5,446.88	4,795.10	4,562.64	232.46	20.627	
15,200.00	7,630.00	7,581.00	7,581.00	114.04	131.34	-90.00	-2,507.16	5,446.88	4,855.40	4,622.37	233.03	20.836	
15,300.00	7,630.00	7,581.00	7,581.00	115.71	131.34	-90.00	-2,507.16	5,446.88	4,916.99	4,683.42	233.57	21.052	
15,400.00	7,630.00	7,581.00	7,581.00	117.37	131.34	-90.00	-2,507.16	5,446.88	4,979.83	4,745.76	234.07	21.275	
15,500.00	7,630.00	7,581.00	7,581.00	119.04	131.34	-90.00	-2,507.16	5,446.88	5,043.87	4,809.33	234.54	21.505	
15,600.00	7,630.00	7,581.00	7,581.00	120.71	131.34	-90.00	-2,507.16	5,446.88	5,109.07	4,874.09	234.98	21.743	
15,700.00	7,630.00	7,581.00	7,581.00	122.39	131.34	-90.00	-2,507.16	5,446.88	5,175.37	4,939.99	235.39	21.987	
15,800.00	7,630.00	7,581.00	7,581.00	124.06	131.34	-90.00	-2,507.16	5,446.88	5,242.75	5,006.98	235.77	22.237	
15,900.00	7,630.00	7,581.00	7,581.00	125.74	131.34	-90.00	-2,507.16	5,446.88	5,311.15	5,075.03	236.13	22.493	
16,000.00	7,630.00	7,581.00	7,581.00	127.42	131.34	-90.00	-2,507.16	5,446.88	5,380.54	5,144.09	236.46	22.755	
16,100.00	7,630.00	7,581.00	7,581.00	129.10	131.34	-90.00	-2,507.16	5,446.88	5,450.89	5,214.12	236.76	23.022	
16,200.00	7,630.00	7,581.00	7,581.00	130.79	131.34	-90.00	-2,507.16	5,446.88	5,522.15	5,285.10	237.05	23.295	
16,300.00	7,630.00	7,581.00	7,581.00	132.48	131.34	-90.00	-2,507.16	5,446.88	5,594.28	5,356.97	237.32	23.573	
16,400.00	7,630.00	7,581.00	7,581.00	134.17	131.34	-90.00	-2,507.16	5,446.88	5,667.27	5,429.71	237.56	23.856	
16,500.00	7,630.00	7,581.00	7,581.00	135.86	131.34	-90.00	-2,507.16	5,446.88	5,741.07	5,503.28	237.79	24.144	
16,600.00	7,630.00	7,581.00	7,581.00	137.55	131.34	-90.00	-2,507.16	5,446.88	5,815.65	5,577.65	238.00	24.436	
16,700.00	7,630.00	7,581.00	7,581.00	139.24	131.34	-90.00	-2,507.16	5,446.88	5,890.98	5,652.79	238.19	24.732	
16,800.00	7,630.00	7,581.00	7,581.00	140.94	131.34	-90.00	-2,507.16	5,446.88	5,967.04	5,728.67	238.37	25.033	
16,900.00	7,630.00	7,581.00	7,581.00	142.64	131.34	-90.00	-2,507.16	5,446.88	6,043.80	5,805.27	238.53	25.337	
17,000.00	7,630.00	7,581.00	7,581.00	144.34	131.34	-90.00	-2,507.16	5,446.88	6,121.23	5,882.54	238.68	25.646	
17,100.00	7,630.00	7,581.00	7,581.00	146.04	131.34	-90.00	-2,507.16	5,446.88	6,199.30	5,960.48	238.82	25.958	
17,200.00	7,630.00	7,581.00	7,581.00	147.74	131.34	-90.00	-2,507.16	5,446.88	6,278.00	6,039.05	238.95	26.274	
17,300.00	7,630.00	7,581.00	7,581.00	149.44	131.34	-90.00	-2,507.16	5,446.88	6,357.29	6,118.23	239.06	26.593	
17,400.00	7,630.00	7,581.00	7,581.00	151.15	131.34	-90.00	-2,507.16	5,446.88	6,437.17	6,198.00	239.17	26.915	
17,500.00	7,630.00	7,581.00	7,581.00	152.86	131.34	-90.00	-2,507.16	5,446.88	6,517.59	6,278.33	239.26	27.241	
17,600.00	7,630.00	7,581.00	7,581.00	154.56	131.34	-90.00	-2,507.16	5,446.88	6,598.56	6,359.21	239.35	27.569	
17,700.00	7,630.00	7,581.00	7,581.00	156.27	131.34	-90.00	-2,507.16	5,446.88	6,680.03	6,440.61	239.42	27.900	
17,800.00	7,630.00	7,581.00	7,581.00	157.98	131.34	-90.00	-2,507.16	5,446.88	6,762.01	6,522.52	239.49	28.235	
17,900.00	7,630.00	7,581.00	7,581.00	159.70	131.34	-90.00	-2,507.16	5,446.88	6,844.46	6,604.91	239.55	28.572	
18,000.00	7,630.00	7,581.00	7,581.00	161.41	131.34	-90.00	-2,507.16	5,446.88	6,927.38	6,687.77	239.61	28.911	
18,100.00	7,630.00	7,581.00	7,581.00	163.12	131.34	-90.00	-2,507.16	5,446.88	7,010.74	6,771.09	239.66	29.253	
18,154.00	7,630.00	7,581.00	7,581.00	164.05	131.34	-90.00	-2,507.16	5,446.88	7,055.94	6,816.26	239.68	29.439	

Anticollision Report

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	143.05	-4,237.93	3,187.25	5,302.77				
100.00	100.00	73.00	73.00	0.13	0.61	143.05	-4,237.93	3,187.25	5,302.70	5,301.96	0.74	7,169.484	
200.00	200.00	173.00	173.00	0.49	2.10	143.05	-4,237.93	3,187.25	5,302.70	5,300.10	2.60	2,042.625	
300.00	300.00	273.00	273.00	0.85	3.85	143.05	-4,237.93	3,187.25	5,302.70	5,298.00	4.70	1,128.276	
400.00	400.00	373.00	373.00	1.21	5.59	143.05	-4,237.93	3,187.25	5,302.70	5,295.89	6.80	779.393	
500.00	500.00	473.00	473.00	1.57	7.34	143.05	-4,237.93	3,187.25	5,302.70	5,293.79	8.91	595.312	
600.00	600.00	573.00	573.00	1.93	9.08	143.05	-4,237.93	3,187.25	5,302.70	5,291.69	11.01	481.572	
700.00	700.00	673.00	673.00	2.29	10.83	143.05	-4,237.93	3,187.25	5,302.70	5,289.58	13.12	404.322	
800.00	800.00	773.00	773.00	2.64	12.58	143.05	-4,237.93	3,187.25	5,302.70	5,287.48	15.22	348.430	
900.00	900.00	873.00	873.00	3.00	14.32	143.05	-4,237.93	3,187.25	5,302.70	5,285.38	17.32	306.114	
1,000.00	1,000.00	973.00	973.00	3.36	16.07	143.05	-4,237.93	3,187.25	5,302.70	5,283.27	19.43	272.963	
1,100.00	1,100.00	1,073.00	1,073.00	3.72	17.81	143.05	-4,237.93	3,187.25	5,302.70	5,281.17	21.53	246.291	
1,200.00	1,200.00	1,173.00	1,173.00	4.08	19.56	143.05	-4,237.93	3,187.25	5,302.70	5,279.06	23.63	224.367	
1,300.00	1,300.00	1,273.00	1,273.00	4.44	21.30	143.05	-4,237.93	3,187.25	5,302.70	5,276.96	25.74	206.027	
1,400.00	1,400.00	1,373.00	1,373.00	4.79	23.05	143.05	-4,237.93	3,187.25	5,302.70	5,274.86	27.84	190.459	
1,500.00	1,499.98	1,472.98	1,472.98	5.15	24.79	105.26	-4,237.93	3,187.25	5,303.16	5,273.21	29.94	177.108	
1,600.00	1,599.84	1,572.84	1,572.84	5.51	26.53	105.28	-4,237.93	3,187.25	5,304.54	5,272.50	32.04	165.553	
1,700.00	1,699.45	1,672.45	1,672.45	5.87	28.27	105.33	-4,237.93	3,187.25	5,306.85	5,272.71	34.14	155.452	
1,800.00	1,798.70	1,771.70	1,771.70	6.23	30.01	105.39	-4,237.93	3,187.25	5,310.10	5,273.86	36.23	146.550	
1,900.00	1,897.47	1,870.47	1,870.47	6.60	31.73	105.47	-4,237.93	3,187.25	5,314.31	5,275.98	38.33	138.644	
2,000.00	1,995.62	1,968.62	1,968.62	6.99	33.44	105.57	-4,237.93	3,187.25	5,319.50	5,279.07	40.43	131.574	
2,100.00	2,093.06	2,066.06	2,066.06	7.39	35.14	105.68	-4,237.93	3,187.25	5,325.71	5,283.18	42.53	125.210	
2,200.00	2,189.64	2,162.64	2,162.64	7.82	36.83	105.79	-4,237.93	3,187.25	5,332.96	5,288.31	44.65	119.450	
2,300.00	2,285.27	2,258.27	2,258.27	8.28	38.50	105.92	-4,237.93	3,187.25	5,341.29	5,294.52	46.77	114.209	
2,400.00	2,379.82	2,352.82	2,352.82	8.77	40.15	106.06	-4,237.93	3,187.25	5,350.73	5,301.83	48.90	109.419	
2,500.00	2,473.17	2,446.17	2,446.17	9.31	41.78	106.20	-4,237.93	3,187.25	5,361.34	5,310.29	51.05	105.023	
2,600.00	2,565.21	2,538.21	2,538.21	9.88	43.38	106.34	-4,237.93	3,187.25	5,373.15	5,319.94	53.21	100.976	
2,660.67	2,620.37	2,606.63	2,593.37	10.25	44.58	106.43	-4,237.93	3,187.25	5,380.92	5,326.16	54.76	98.258	
2,700.00	2,655.96	2,628.96	2,628.96	10.50	44.97	106.59	-4,237.93	3,187.25	5,386.14	5,330.75	55.39	97.239	
2,800.00	2,746.43	2,719.43	2,719.43	11.15	46.55	106.98	-4,237.93	3,187.25	5,399.61	5,342.02	57.59	93.760	
2,900.00	2,836.90	2,809.90	2,809.90	11.82	48.13	107.38	-4,237.93	3,187.25	5,413.38	5,353.58	59.81	90.515	
3,000.00	2,927.37	2,900.37	2,900.37	12.50	49.70	107.77	-4,237.93	3,187.25	5,427.46	5,365.42	62.04	87.488	
3,100.00	3,017.85	3,009.15	2,990.85	13.21	51.60	108.16	-4,237.93	3,187.25	5,441.83	5,377.23	64.60	84.241	
3,200.00	3,108.32	3,081.32	3,081.32	13.92	52.86	108.55	-4,237.93	3,187.25	5,456.49	5,389.96	66.53	82.016	
3,300.00	3,198.79	3,171.79	3,171.79	14.64	54.44	108.93	-4,237.93	3,187.25	5,471.45	5,402.66	68.79	79.541	
3,400.00	3,289.27	3,262.27	3,262.27	15.38	56.02	109.32	-4,237.93	3,187.25	5,486.70	5,415.65	71.05	77.221	
3,500.00	3,379.74	3,352.74	3,352.74	16.12	57.60	109.70	-4,237.93	3,187.25	5,502.23	5,428.91	73.32	75.044	
3,600.00	3,470.21	3,443.21	3,443.21	16.87	59.18	110.08	-4,237.93	3,187.25	5,518.05	5,442.46	75.59	72.997	
3,700.00	3,560.68	3,533.68	3,533.68	17.62	60.76	110.46	-4,237.93	3,187.25	5,534.16	5,456.29	77.87	71.071	
3,800.00	3,651.16	3,624.16	3,624.16	18.39	62.34	110.84	-4,237.93	3,187.25	5,550.54	5,470.40	80.14	69.257	
3,900.00	3,741.63	3,714.63	3,714.63	19.15	63.92	111.22	-4,237.93	3,187.25	5,567.20	5,484.78	82.42	67.545	
4,000.00	3,832.10	3,805.10	3,805.10	19.92	65.50	111.59	-4,237.93	3,187.25	5,584.14	5,499.44	84.70	65.928	
4,100.00	3,922.57	3,904.43	3,895.57	20.69	67.23	111.96	-4,237.93	3,187.25	5,601.35	5,514.21	87.13	64.285	
4,200.00	4,013.05	3,986.05	3,986.05	21.47	68.65	112.33	-4,237.93	3,187.25	5,618.82	5,529.57	89.26	62.951	
4,300.00	4,103.52	4,076.52	4,076.52	22.25	70.23	112.70	-4,237.93	3,187.25	5,636.57	5,545.04	91.54	61.578	
4,400.00	4,193.99	4,166.99	4,166.99	23.03	71.81	113.07	-4,237.93	3,187.25	5,654.58	5,560.77	93.81	60.276	
4,500.00	4,284.47	4,257.47	4,257.47	23.81	73.39	113.43	-4,237.93	3,187.25	5,672.86	5,576.77	96.09	59.038	
4,600.00	4,374.94	4,347.94	4,347.94	24.60	74.97	113.80	-4,237.93	3,187.25	5,691.39	5,593.03	98.36	57.862	
4,700.00	4,465.41	4,438.41	4,438.41	25.39	76.55	114.16	-4,237.93	3,187.25	5,710.19	5,609.55	100.63	56.742	
4,800.00	4,555.88	4,528.88	4,528.88	26.18	78.13	114.51	-4,237.93	3,187.25	5,729.23	5,626.33	102.91	55.675	
4,900.00	4,646.36	4,619.36	4,619.36	26.97	79.71	114.87	-4,237.93	3,187.25	5,748.53	5,643.36	105.17	54.657	
5,000.00	4,736.83	4,709.83	4,709.83	27.76	81.29	115.23	-4,237.93	3,187.25	5,768.08	5,660.64	107.44	53.686	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,100.00	4,827.30	4,800.30	4,800.30	28.55	82.86	115.58	-4,237.93	3,187.25	5,787.88	5,678.18	109.71	52.758	
5,200.00	4,917.77	4,909.23	4,890.77	29.35	84.77	115.93	-4,237.93	3,187.25	5,807.92	5,695.63	112.29	51.723	
5,300.00	5,008.25	4,981.25	4,981.25	30.15	86.02	116.28	-4,237.93	3,187.25	5,828.21	5,713.98	114.23	51.023	
5,400.00	5,098.72	5,050.00	5,050.00	30.94	87.22	116.54	-4,237.93	3,187.25	5,848.78	5,732.68	116.10	50.378	
5,500.00	5,189.19	5,050.00	5,050.00	31.74	87.22	116.54	-4,237.93	3,187.25	5,870.57	5,753.85	116.72	50.295	
5,600.00	5,279.67	5,050.00	5,050.00	32.54	87.22	116.54	-4,237.93	3,187.25	5,893.98	5,776.67	117.32	50.240	
5,700.00	5,370.14	5,050.00	5,050.00	33.34	87.22	116.54	-4,237.93	3,187.25	5,918.99	5,801.11	117.88	50.213	
5,800.00	5,460.61	5,050.00	5,050.00	34.14	87.22	116.54	-4,237.93	3,187.25	5,945.57	5,827.16	118.41	50.211	
5,900.00	5,551.08	5,050.00	5,050.00	34.94	87.22	116.54	-4,237.93	3,187.25	5,973.71	5,854.80	118.91	50.236	
6,000.00	5,641.56	5,050.00	5,050.00	35.75	87.22	116.54	-4,237.93	3,187.25	6,003.39	5,884.00	119.39	50.286	
6,100.00	5,732.03	5,050.00	5,050.00	36.55	87.22	116.54	-4,237.93	3,187.25	6,034.57	5,914.75	119.83	50.360	
6,200.00	5,822.50	5,050.00	5,050.00	37.35	87.22	116.54	-4,237.93	3,187.25	6,067.25	5,947.00	120.24	50.458	
6,300.00	5,912.97	5,050.00	5,050.00	38.16	87.22	116.54	-4,237.93	3,187.25	6,101.39	5,980.76	120.63	50.579	
6,400.00	6,003.45	5,050.00	5,050.00	38.96	87.22	116.54	-4,237.93	3,187.25	6,136.96	6,015.97	120.99	50.723	
6,500.00	6,093.92	5,050.00	5,050.00	39.77	87.22	116.54	-4,237.93	3,187.25	6,173.96	6,052.63	121.32	50.888	
6,600.00	6,184.39	5,050.00	5,050.00	40.57	87.22	116.54	-4,237.93	3,187.25	6,212.34	6,090.71	121.63	51.076	
6,700.00	6,274.87	5,050.00	5,050.00	41.38	87.22	116.54	-4,237.93	3,187.25	6,252.09	6,130.17	121.91	51.283	
6,800.00	6,365.34	5,050.00	5,050.00	42.18	87.22	116.54	-4,237.93	3,187.25	6,293.17	6,171.00	122.17	51.512	
6,900.00	6,455.81	5,050.00	5,050.00	42.99	87.22	116.54	-4,237.93	3,187.25	6,335.57	6,213.16	122.40	51.759	
7,000.00	6,546.28	5,050.00	5,050.00	43.80	87.22	116.54	-4,237.93	3,187.25	6,379.25	6,256.63	122.62	52.026	
7,100.00	6,636.76	5,050.00	5,050.00	44.61	87.22	116.54	-4,237.93	3,187.25	6,424.19	6,301.39	122.81	52.312	
7,200.00	6,727.23	5,050.00	5,050.00	45.41	87.22	116.54	-4,237.93	3,187.25	6,470.37	6,347.39	122.97	52.615	
7,300.00	6,817.70	5,050.00	5,050.00	46.22	87.22	116.54	-4,237.93	3,187.25	6,517.75	6,394.63	123.12	52.937	
7,383.79	6,893.51	5,050.00	5,050.00	46.90	87.22	116.54	-4,237.93	3,187.25	6,558.36	6,435.13	123.23	53.219	
7,400.00	6,908.25	5,050.00	5,050.00	47.03	87.22	114.53	-4,237.93	3,187.25	6,566.13	6,442.88	123.25	53.274	
7,450.00	6,954.52	5,050.00	5,050.00	47.40	87.22	106.48	-4,237.93	3,187.25	6,587.91	6,464.62	123.29	53.435	
7,500.00	7,001.74	5,050.00	5,050.00	47.72	87.22	95.06	-4,237.93	3,187.25	6,606.30	6,483.00	123.30	53.580	
7,550.00	7,049.55	5,050.00	5,050.00	47.99	87.22	80.15	-4,237.93	3,187.25	6,621.18	6,497.91	123.27	53.711	
7,600.00	7,097.58	5,050.00	5,050.00	48.21	87.22	63.32	-4,237.93	3,187.25	6,632.48	6,509.26	123.21	53.829	
7,650.00	7,145.48	5,050.00	5,050.00	48.37	87.22	47.47	-4,237.93	3,187.25	6,640.12	6,517.00	123.12	53.933	
7,700.00	7,192.88	5,050.00	5,050.00	48.48	87.22	34.63	-4,237.93	3,187.25	6,644.05	6,521.07	122.98	54.023	
7,750.00	7,239.41	5,050.00	5,050.00	48.54	87.22	24.97	-4,237.93	3,187.25	6,644.26	6,521.44	122.82	54.098	
7,800.00	7,284.72	5,050.00	5,050.00	48.56	87.22	17.79	-4,237.93	3,187.25	6,640.74	6,518.12	122.62	54.156	
7,850.00	7,328.47	5,050.00	5,050.00	48.54	87.22	12.35	-4,237.93	3,187.25	6,633.51	6,511.11	122.40	54.196	
7,900.00	7,370.32	5,050.00	5,050.00	48.47	87.22	8.08	-4,237.93	3,187.25	6,622.62	6,500.47	122.15	54.217	
7,950.00	7,409.96	5,050.00	5,050.00	48.37	87.22	4.59	-4,237.93	3,187.25	6,608.13	6,486.25	121.88	54.219	
8,000.00	7,447.08	5,050.00	5,050.00	48.24	87.22	1.59	-4,237.93	3,187.25	6,590.13	6,468.54	121.59	54.199	
8,050.00	7,481.41	5,050.00	5,050.00	48.07	87.22	-1.10	-4,237.93	3,187.25	6,568.72	6,447.44	121.29	54.159	
8,100.00	7,512.67	5,050.00	5,050.00	47.87	87.22	-3.64	-4,237.93	3,187.25	6,544.04	6,423.08	120.97	54.097	
8,150.00	7,540.64	5,050.00	5,050.00	47.65	87.22	-6.15	-4,237.93	3,187.25	6,516.24	6,395.60	120.64	54.012	
8,200.00	7,565.09	5,050.00	5,050.00	47.40	87.22	-8.75	-4,237.93	3,187.25	6,485.50	6,365.18	120.31	53.905	
8,250.00	7,585.85	5,050.00	5,050.00	47.14	87.22	-11.55	-4,237.93	3,187.25	6,451.99	6,332.01	119.98	53.774	
8,300.00	7,602.75	5,050.00	5,050.00	46.86	87.22	-14.70	-4,237.93	3,187.25	6,415.95	6,296.29	119.66	53.619	
8,350.00	7,615.67	5,050.00	5,050.00	46.58	87.22	-18.35	-4,237.93	3,187.25	6,377.60	6,258.26	119.34	53.441	
8,400.00	7,624.51	5,050.00	5,050.00	46.28	87.22	-22.72	-4,237.93	3,187.25	6,337.19	6,218.16	119.03	53.239	
8,450.00	7,629.19	5,050.00	5,050.00	45.98	87.22	-28.06	-4,237.93	3,187.25	6,295.00	6,176.26	118.74	53.014	
8,481.00	7,630.00	5,050.00	5,050.00	45.79	87.22	-32.00	-4,237.93	3,187.25	6,268.08	6,149.50	118.57	52.863	
8,500.00	7,630.00	5,050.00	5,050.00	45.68	87.22	-32.00	-4,237.93	3,187.25	6,251.42	6,132.95	118.47	52.768	
8,600.00	7,630.00	5,050.00	5,050.00	45.11	87.22	-32.00	-4,237.93	3,187.25	6,163.97	6,046.05	117.92	52.274	
8,700.00	7,630.00	5,050.00	5,050.00	44.56	87.22	-32.00	-4,237.93	3,187.25	6,076.90	5,959.54	117.36	51.782	
8,800.00	7,630.00	5,050.00	5,050.00	44.05	87.22	-32.00	-4,237.93	3,187.25	5,990.24	5,873.45	116.79	51.293	
8,900.00	7,630.00	5,050.00	5,050.00	43.57	87.22	-32.00	-4,237.93	3,187.25	5,904.00	5,787.79	116.21	50.806	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,630.00	5,050.00	5,050.00	43.12	87.22	-32.00	-4,237.93	3,187.25	5,818.20	5,702.58	115.62	50.322	
9,100.00	7,630.00	5,050.00	5,050.00	42.70	87.22	-32.00	-4,237.93	3,187.25	5,732.86	5,617.84	115.02	49.841	
9,200.00	7,630.00	5,050.00	5,050.00	42.31	87.22	-32.00	-4,237.93	3,187.25	5,648.00	5,533.58	114.42	49.362	
9,300.00	7,630.00	5,050.00	5,050.00	41.94	87.22	-32.00	-4,237.93	3,187.25	5,563.65	5,449.83	113.81	48.885	
9,400.00	7,630.00	5,050.00	5,050.00	41.59	87.22	-32.00	-4,237.93	3,187.25	5,479.82	5,366.62	113.20	48.410	
9,500.00	7,630.00	5,050.00	5,050.00	41.26	87.22	-32.00	-4,237.93	3,187.25	5,396.54	5,283.96	112.58	47.936	
9,600.00	7,630.00	5,050.00	5,050.00	40.96	87.22	-32.00	-4,237.93	3,187.25	5,313.84	5,201.88	111.96	47.464	
9,700.00	7,630.00	5,050.00	5,050.00	40.68	87.22	-32.00	-4,237.93	3,187.25	5,231.74	5,120.41	111.33	46.992	
9,800.00	7,630.00	5,050.00	5,050.00	40.42	87.22	-32.00	-4,237.93	3,187.25	5,150.28	5,039.57	110.71	46.521	
9,900.00	7,630.00	5,050.00	5,050.00	40.17	87.22	-32.00	-4,237.93	3,187.25	5,069.48	4,959.39	110.09	46.050	
10,000.00	7,630.00	5,050.00	5,050.00	39.96	87.22	-32.00	-4,237.93	3,187.25	4,989.37	4,879.90	109.47	45.578	
10,100.00	7,630.00	5,050.00	5,050.00	40.05	87.22	-32.00	-4,237.93	3,187.25	4,910.00	4,801.14	108.86	45.105	
10,200.00	7,630.00	5,050.00	5,050.00	40.95	87.22	-32.00	-4,237.93	3,187.25	4,831.39	4,723.13	108.25	44.630	
10,300.00	7,630.00	5,050.00	5,050.00	41.94	87.22	-32.00	-4,237.93	3,187.25	4,753.58	4,645.92	107.66	44.152	
10,400.00	7,630.00	5,050.00	5,050.00	42.98	87.22	-32.00	-4,237.93	3,187.25	4,676.62	4,569.53	107.09	43.670	
10,500.00	7,630.00	5,050.00	5,050.00	44.06	87.22	-32.00	-4,237.93	3,187.25	4,600.55	4,494.01	106.53	43.185	
10,600.00	7,630.00	5,050.00	5,050.00	45.17	87.22	-32.00	-4,237.93	3,187.25	4,525.40	4,419.41	106.00	42.693	
10,700.00	7,630.00	5,050.00	5,050.00	46.32	87.22	-32.00	-4,237.93	3,187.25	4,451.24	4,345.75	105.49	42.196	
10,800.00	7,630.00	5,050.00	5,050.00	47.50	87.22	-32.00	-4,237.93	3,187.25	4,378.10	4,273.09	105.01	41.692	
10,900.00	7,630.00	5,050.00	5,050.00	48.70	87.22	-32.00	-4,237.93	3,187.25	4,306.04	4,201.48	104.56	41.181	
11,000.00	7,630.00	5,050.00	5,050.00	49.94	87.22	-32.00	-4,237.93	3,187.25	4,235.12	4,130.96	104.16	40.661	
11,100.00	7,630.00	5,050.00	5,050.00	51.20	87.22	-32.00	-4,237.93	3,187.25	4,165.39	4,061.60	103.79	40.132	
11,200.00	7,630.00	5,050.00	5,050.00	52.48	87.22	-32.00	-4,237.93	3,187.25	4,096.91	3,993.44	103.47	39.594	
11,300.00	7,630.00	5,050.00	5,050.00	53.79	87.22	-32.00	-4,237.93	3,187.25	4,029.76	3,926.56	103.20	39.047	
11,400.00	7,630.00	5,050.00	5,050.00	55.12	87.22	-32.00	-4,237.93	3,187.25	3,963.99	3,861.00	102.99	38.491	
11,500.00	7,630.00	5,050.00	5,050.00	56.46	87.22	-32.00	-4,237.93	3,187.25	3,899.67	3,796.85	102.82	37.926	
11,600.00	7,630.00	5,050.00	5,050.00	57.83	87.22	-32.00	-4,237.93	3,187.25	3,836.88	3,734.16	102.72	37.352	
11,700.00	7,630.00	5,050.00	5,050.00	59.22	87.22	-32.00	-4,237.93	3,187.25	3,775.70	3,673.02	102.68	36.771	
11,800.00	7,630.00	5,050.00	5,050.00	60.62	87.22	-32.00	-4,237.93	3,187.25	3,716.20	3,613.50	102.70	36.184	
11,900.00	7,630.00	5,050.00	5,050.00	62.04	87.22	-32.00	-4,237.93	3,187.25	3,658.47	3,555.68	102.79	35.591	
12,000.00	7,630.00	5,050.00	5,050.00	63.48	87.22	-32.00	-4,237.93	3,187.25	3,602.59	3,499.64	102.95	34.995	
12,100.00	7,630.00	5,050.00	5,050.00	64.93	87.22	-32.00	-4,237.93	3,187.25	3,548.64	3,445.47	103.17	34.396	
12,200.00	7,630.00	5,050.00	5,050.00	66.39	87.22	-32.00	-4,237.93	3,187.25	3,496.73	3,393.27	103.46	33.798	
12,300.00	7,630.00	5,050.00	5,050.00	67.86	87.22	-32.00	-4,237.93	3,187.25	3,446.93	3,343.11	103.82	33.201	
12,400.00	7,630.00	5,050.00	5,050.00	69.35	87.22	-32.00	-4,237.93	3,187.25	3,399.35	3,295.10	104.25	32.608	
12,500.00	7,630.00	5,050.00	5,050.00	70.85	87.22	-32.00	-4,237.93	3,187.25	3,354.08	3,249.33	104.75	32.020	
12,600.00	7,630.00	5,050.00	5,050.00	72.36	87.22	-32.00	-4,237.93	3,187.25	3,311.20	3,205.88	105.32	31.439	
12,700.00	7,630.00	5,050.00	5,050.00	73.88	87.22	-32.00	-4,237.93	3,187.25	3,270.83	3,164.86	105.97	30.867	
12,800.00	7,630.00	5,050.00	5,050.00	75.41	87.22	-32.00	-4,237.93	3,187.25	3,233.04	3,126.36	106.68	30.305	
12,900.00	7,630.00	5,050.00	5,050.00	76.95	87.22	-32.00	-4,237.93	3,187.25	3,197.93	3,090.46	107.47	29.755	
13,000.00	7,630.00	5,050.00	5,050.00	78.49	87.22	-32.00	-4,237.93	3,187.25	3,165.60	3,057.26	108.34	29.218	
13,100.00	7,630.00	5,050.00	5,050.00	80.05	87.22	-32.00	-4,237.93	3,187.25	3,136.12	3,026.83	109.29	28.696	
13,200.00	7,630.00	5,050.00	5,050.00	81.61	87.22	-32.00	-4,237.93	3,187.25	3,109.58	2,999.27	110.31	28.189	
13,300.00	7,630.00	5,050.00	5,050.00	83.18	87.22	-32.00	-4,237.93	3,187.25	3,086.06	2,974.64	111.42	27.697	
13,400.00	7,630.00	5,050.00	5,050.00	84.76	87.22	-32.00	-4,237.93	3,187.25	3,065.61	2,953.00	112.61	27.223	
13,500.00	7,630.00	5,050.00	5,050.00	86.34	87.22	-32.00	-4,237.93	3,187.25	3,048.32	2,934.43	113.89	26.766	
13,600.00	7,630.00	5,050.00	5,050.00	87.94	87.22	-32.00	-4,237.93	3,187.25	3,034.22	2,918.97	115.25	26.328	
13,700.00	7,630.00	5,050.00	5,050.00	89.53	87.22	-32.00	-4,237.93	3,187.25	3,023.36	2,906.67	116.69	25.909	
13,800.00	7,630.00	5,050.00	5,050.00	91.13	87.22	-32.00	-4,237.93	3,187.25	3,015.78	2,897.56	118.22	25.510	
13,900.00	7,630.00	5,050.00	5,050.00	92.74	87.22	-32.00	-4,237.93	3,187.25	3,011.51	2,891.68	119.83	25.132	
13,978.80	7,630.00	5,050.00	5,050.00	94.01	87.22	-32.00	-4,237.93	3,187.25	3,010.48	2,889.33	121.15	24.850	CC
14,000.00	7,630.00	5,050.00	5,050.00	94.35	87.22	-32.00	-4,237.93	3,187.25	3,010.55	2,889.04	121.51	24.776	ES

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

Anticollision Report

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	5,050.00	5,050.00	95.97	87.22	-32.00	-4,237.93	3,187.25	3,012.92	2,889.66	123.26	24.444	
14,200.00	7,630.00	5,050.00	5,050.00	97.60	87.22	-32.00	-4,237.93	3,187.25	3,018.59	2,893.53	125.06	24.136	
14,300.00	7,630.00	5,050.00	5,050.00	99.22	87.22	-32.00	-4,237.93	3,187.25	3,027.56	2,900.65	126.92	23.854	
14,400.00	7,630.00	5,050.00	5,050.00	100.85	87.22	-32.00	-4,237.93	3,187.25	3,039.80	2,910.99	128.81	23.599	
14,500.00	7,630.00	5,050.00	5,050.00	102.49	87.22	-32.00	-4,237.93	3,187.25	3,055.26	2,924.54	130.73	23.372	
14,600.00	7,630.00	5,050.00	5,050.00	104.13	87.22	-32.00	-4,237.93	3,187.25	3,073.90	2,941.25	132.65	23.172	
14,700.00	7,630.00	5,050.00	5,050.00	105.77	87.22	-32.00	-4,237.93	3,187.25	3,095.66	2,961.08	134.58	23.002	
14,800.00	7,630.00	5,050.00	5,050.00	107.42	87.22	-32.00	-4,237.93	3,187.25	3,120.47	2,983.98	136.49	22.862	
14,900.00	7,630.00	5,050.00	5,050.00	109.07	87.22	-32.00	-4,237.93	3,187.25	3,148.27	3,009.89	138.38	22.751	
15,000.00	7,630.00	5,050.00	5,050.00	110.72	87.22	-32.00	-4,237.93	3,187.25	3,178.97	3,038.73	140.23	22.669	
15,100.00	7,630.00	5,050.00	5,050.00	112.38	87.22	-32.00	-4,237.93	3,187.25	3,212.49	3,070.45	142.04	22.617	
15,200.00	7,630.00	5,050.00	5,050.00	114.04	87.22	-32.00	-4,237.93	3,187.25	3,248.74	3,104.94	143.79	22.593	SF
15,300.00	7,630.00	5,050.00	5,050.00	115.71	87.22	-32.00	-4,237.93	3,187.25	3,287.63	3,142.15	145.49	22.597	
15,400.00	7,630.00	5,050.00	5,050.00	117.37	87.22	-32.00	-4,237.93	3,187.25	3,329.08	3,181.96	147.12	22.629	
15,500.00	7,630.00	5,050.00	5,050.00	119.04	87.22	-32.00	-4,237.93	3,187.25	3,372.98	3,224.31	148.68	22.686	
15,600.00	7,630.00	5,050.00	5,050.00	120.71	87.22	-32.00	-4,237.93	3,187.25	3,419.25	3,269.08	150.17	22.770	
15,700.00	7,630.00	5,050.00	5,050.00	122.39	87.22	-32.00	-4,237.93	3,187.25	3,467.78	3,316.20	151.58	22.877	
15,800.00	7,630.00	5,050.00	5,050.00	124.06	87.22	-32.00	-4,237.93	3,187.25	3,518.49	3,365.56	152.92	23.008	
15,900.00	7,630.00	5,050.00	5,050.00	125.74	87.22	-32.00	-4,237.93	3,187.25	3,571.27	3,417.08	154.19	23.162	
16,000.00	7,630.00	5,050.00	5,050.00	127.42	87.22	-32.00	-4,237.93	3,187.25	3,626.05	3,470.67	155.38	23.337	
16,100.00	7,630.00	5,050.00	5,050.00	129.10	87.22	-32.00	-4,237.93	3,187.25	3,682.72	3,526.22	156.50	23.532	
16,200.00	7,630.00	5,050.00	5,050.00	130.79	87.22	-32.00	-4,237.93	3,187.25	3,741.22	3,583.67	157.55	23.746	
16,300.00	7,630.00	5,050.00	5,050.00	132.48	87.22	-32.00	-4,237.93	3,187.25	3,801.44	3,642.91	158.53	23.979	
16,400.00	7,630.00	5,050.00	5,050.00	134.17	87.22	-32.00	-4,237.93	3,187.25	3,863.31	3,703.86	159.45	24.229	
16,500.00	7,630.00	5,050.00	5,050.00	135.86	87.22	-32.00	-4,237.93	3,187.25	3,926.76	3,766.45	160.30	24.496	
16,600.00	7,630.00	5,050.00	5,050.00	137.55	87.22	-32.00	-4,237.93	3,187.25	3,991.70	3,830.60	161.10	24.778	
16,700.00	7,630.00	5,050.00	5,050.00	139.24	87.22	-32.00	-4,237.93	3,187.25	4,058.07	3,896.23	161.83	25.075	
16,800.00	7,630.00	5,050.00	5,050.00	140.94	87.22	-32.00	-4,237.93	3,187.25	4,125.79	3,963.27	162.52	25.387	
16,900.00	7,630.00	5,050.00	5,050.00	142.64	87.22	-32.00	-4,237.93	3,187.25	4,194.80	4,031.65	163.15	25.711	
17,000.00	7,630.00	5,050.00	5,050.00	144.34	87.22	-32.00	-4,237.93	3,187.25	4,265.05	4,101.31	163.73	26.049	
17,100.00	7,630.00	5,050.00	5,050.00	146.04	87.22	-32.00	-4,237.93	3,187.25	4,336.46	4,172.18	164.27	26.398	
17,200.00	7,630.00	5,050.00	5,050.00	147.74	87.22	-32.00	-4,237.93	3,187.25	4,408.98	4,244.21	164.77	26.758	
17,300.00	7,630.00	5,050.00	5,050.00	149.44	87.22	-32.00	-4,237.93	3,187.25	4,482.56	4,317.33	165.23	27.130	
17,400.00	7,630.00	5,050.00	5,050.00	151.15	87.22	-32.00	-4,237.93	3,187.25	4,557.15	4,391.50	165.65	27.511	
17,500.00	7,630.00	5,050.00	5,050.00	152.86	87.22	-32.00	-4,237.93	3,187.25	4,632.69	4,466.66	166.03	27.902	
17,600.00	7,630.00	5,050.00	5,050.00	154.56	87.22	-32.00	-4,237.93	3,187.25	4,709.15	4,542.76	166.39	28.302	
17,700.00	7,630.00	5,050.00	5,050.00	156.27	87.22	-32.00	-4,237.93	3,187.25	4,786.47	4,619.76	166.71	28.711	
17,800.00	7,630.00	5,050.00	5,050.00	157.98	87.22	-32.00	-4,237.93	3,187.25	4,864.62	4,697.61	167.01	29.128	
17,900.00	7,630.00	5,050.00	5,050.00	159.70	87.22	-32.00	-4,237.93	3,187.25	4,943.56	4,776.28	167.28	29.553	
18,000.00	7,630.00	5,050.00	5,050.00	161.41	87.22	-32.00	-4,237.93	3,187.25	5,023.25	4,855.72	167.52	29.985	
18,100.00	7,630.00	5,050.00	5,050.00	163.12	87.22	-32.00	-4,237.93	3,187.25	5,103.65	4,935.90	167.75	30.425	
18,154.00	7,630.00	5,050.00	5,050.00	164.05	87.22	-32.00	-4,237.93	3,187.25	5,147.36	4,979.50	167.86	30.665	

Anticollision Report

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	156.21	-4,238.06	1,868.22	4,631.63				
100.00	100.00	75.00	75.00	0.13	0.62	156.21	-4,238.06	1,868.22	4,631.56	4,630.81	0.75	6,178.251	
200.00	200.00	175.00	175.00	0.49	2.13	156.21	-4,238.06	1,868.22	4,631.56	4,628.94	2.62	1,766.289	
300.00	300.00	275.00	275.00	0.85	3.87	156.21	-4,238.06	1,868.22	4,631.56	4,626.84	4.73	980.017	
400.00	400.00	375.00	375.00	1.21	5.62	156.21	-4,238.06	1,868.22	4,631.56	4,624.73	6.83	678.140	
500.00	500.00	475.00	475.00	1.57	7.37	156.21	-4,238.06	1,868.22	4,631.56	4,622.63	8.93	518.443	
600.00	600.00	575.00	575.00	1.93	9.11	156.21	-4,238.06	1,868.22	4,631.56	4,620.53	11.04	419.624	
700.00	700.00	675.00	675.00	2.29	10.86	156.21	-4,238.06	1,868.22	4,631.56	4,618.42	13.14	352.446	
800.00	800.00	775.00	775.00	2.64	12.60	156.21	-4,238.06	1,868.22	4,631.56	4,616.32	15.25	303.809	
900.00	900.00	875.00	875.00	3.00	14.35	156.21	-4,238.06	1,868.22	4,631.56	4,614.22	17.35	266.967	
1,000.00	1,000.00	975.00	975.00	3.36	16.09	156.21	-4,238.06	1,868.22	4,631.56	4,612.11	19.45	238.095	
1,100.00	1,100.00	1,075.00	1,075.00	3.72	17.84	156.21	-4,238.06	1,868.22	4,631.56	4,610.01	21.56	214.858	
1,200.00	1,200.00	1,175.00	1,175.00	4.08	19.58	156.21	-4,238.06	1,868.22	4,631.56	4,607.90	23.66	195.753	
1,300.00	1,300.00	1,275.00	1,275.00	4.44	21.33	156.21	-4,238.06	1,868.22	4,631.56	4,605.80	25.76	179.769	
1,400.00	1,400.00	1,375.00	1,375.00	4.79	23.07	156.21	-4,238.06	1,868.22	4,631.56	4,603.70	27.87	166.198	
1,500.00	1,499.98	1,474.98	1,474.98	5.15	24.82	118.41	-4,238.06	1,868.22	4,632.40	4,602.43	29.97	154.571	
1,600.00	1,599.84	1,574.84	1,574.84	5.51	26.56	118.42	-4,238.06	1,868.22	4,634.89	4,602.82	32.07	144.532	
1,700.00	1,699.45	1,674.45	1,674.45	5.87	28.30	118.44	-4,238.06	1,868.22	4,639.05	4,604.89	34.17	135.783	
1,800.00	1,798.70	1,773.70	1,773.70	6.23	30.03	118.47	-4,238.06	1,868.22	4,644.89	4,608.63	36.26	128.097	
1,900.00	1,897.47	1,872.47	1,872.47	6.60	31.76	118.51	-4,238.06	1,868.22	4,652.43	4,614.07	38.36	121.297	
2,000.00	1,995.62	1,970.62	1,970.62	6.99	33.47	118.55	-4,238.06	1,868.22	4,661.67	4,621.22	40.45	115.243	
2,100.00	2,093.06	2,068.06	2,068.06	7.39	35.17	118.59	-4,238.06	1,868.22	4,672.64	4,630.10	42.55	109.820	
2,200.00	2,189.64	2,164.64	2,164.64	7.82	36.86	118.64	-4,238.06	1,868.22	4,685.37	4,640.72	44.65	104.937	
2,300.00	2,285.27	2,260.27	2,260.27	8.28	38.52	118.68	-4,238.06	1,868.22	4,699.88	4,653.13	46.76	100.521	
2,400.00	2,379.82	2,354.82	2,354.82	8.77	40.17	118.72	-4,238.06	1,868.22	4,716.20	4,667.33	48.87	96.509	
2,500.00	2,473.17	2,448.17	2,448.17	9.31	41.80	118.76	-4,238.06	1,868.22	4,734.35	4,683.37	50.99	92.853	
2,600.00	2,565.21	2,540.21	2,540.21	9.88	43.41	118.79	-4,238.06	1,868.22	4,754.38	4,701.26	53.12	89.510	
2,660.67	2,620.37	2,604.63	2,595.37	10.25	44.53	118.81	-4,238.06	1,868.22	4,767.45	4,712.88	54.57	87.361	
2,700.00	2,655.96	2,630.96	2,630.96	10.50	44.99	118.97	-4,238.06	1,868.22	4,776.17	4,720.92	55.25	86.445	
2,800.00	2,746.43	2,721.43	2,721.43	11.15	46.57	119.38	-4,238.06	1,868.22	4,798.54	4,741.14	57.40	83.596	
2,900.00	2,836.90	2,811.90	2,811.90	11.82	48.15	119.79	-4,238.06	1,868.22	4,821.19	4,761.62	59.57	80.939	
3,000.00	2,927.37	2,902.37	2,902.37	12.50	49.73	120.20	-4,238.06	1,868.22	4,844.10	4,782.36	61.74	78.459	
3,100.00	3,017.85	3,007.15	2,992.85	13.21	51.56	120.60	-4,238.06	1,868.22	4,867.28	4,803.10	64.17	75.845	
3,200.00	3,108.32	3,083.32	3,083.32	13.92	52.89	121.00	-4,238.06	1,868.22	4,890.72	4,824.60	66.12	73.972	
3,300.00	3,198.79	3,173.79	3,173.79	14.64	54.47	121.40	-4,238.06	1,868.22	4,914.42	4,846.10	68.31	71.941	
3,400.00	3,289.27	3,264.27	3,264.27	15.38	56.05	121.79	-4,238.06	1,868.22	4,938.37	4,867.85	70.51	70.036	
3,500.00	3,379.74	3,354.74	3,354.74	16.12	57.63	122.18	-4,238.06	1,868.22	4,962.57	4,889.85	72.71	68.247	
3,600.00	3,470.21	3,445.21	3,445.21	16.87	59.21	122.57	-4,238.06	1,868.22	4,987.01	4,912.09	74.92	66.565	
3,700.00	3,560.68	3,535.68	3,535.68	17.62	60.78	122.95	-4,238.06	1,868.22	5,011.70	4,934.58	77.13	64.981	
3,800.00	3,651.16	3,626.16	3,626.16	18.39	62.36	123.33	-4,238.06	1,868.22	5,036.63	4,957.30	79.33	63.487	
3,900.00	3,741.63	3,716.63	3,716.63	19.15	63.94	123.71	-4,238.06	1,868.22	5,061.80	4,980.26	81.54	62.078	
4,000.00	3,832.10	3,807.10	3,807.10	19.92	65.52	124.08	-4,238.06	1,868.22	5,087.20	5,003.45	83.75	60.745	
4,100.00	3,922.57	3,902.43	3,897.57	20.69	67.19	124.45	-4,238.06	1,868.22	5,112.82	5,026.79	86.04	59.426	
4,200.00	4,013.05	3,988.05	3,988.05	21.47	68.68	124.82	-4,238.06	1,868.22	5,138.67	5,050.52	88.16	58.290	
4,300.00	4,103.52	4,078.52	4,078.52	22.25	70.26	125.18	-4,238.06	1,868.22	5,164.75	5,074.39	90.36	57.158	
4,400.00	4,193.99	4,168.99	4,168.99	23.03	71.84	125.54	-4,238.06	1,868.22	5,191.04	5,098.48	92.56	56.082	
4,500.00	4,284.47	4,259.47	4,259.47	23.81	73.42	125.90	-4,238.06	1,868.22	5,217.55	5,122.79	94.76	55.060	
4,600.00	4,374.94	4,349.94	4,349.94	24.60	75.00	126.25	-4,238.06	1,868.22	5,244.27	5,147.31	96.96	54.088	
4,700.00	4,465.41	4,440.41	4,440.41	25.39	76.57	126.61	-4,238.06	1,868.22	5,271.19	5,172.04	99.15	53.161	
4,800.00	4,555.88	4,530.88	4,530.88	26.18	78.15	126.95	-4,238.06	1,868.22	5,298.33	5,196.98	101.35	52.279	
4,900.00	4,646.36	4,621.36	4,621.36	26.97	79.73	127.30	-4,238.06	1,868.22	5,325.66	5,222.13	103.54	51.437	
5,000.00	4,736.83	4,711.83	4,711.83	27.76	81.31	127.64	-4,238.06	1,868.22	5,353.20	5,247.47	105.73	50.632	

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

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1 — **Offset Site Error:** 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,827.30	4,802.30	4,802.30	28.55	82.89	127.98	-4,238.06	1,868.22	5,380.93	5,273.02	107.91	49.864	
5,200.00	4,917.77	4,907.23	4,892.77	29.35	84.72	128.31	-4,238.06	1,868.22	5,408.86	5,298.51	110.35	49.016	
5,300.00	5,008.25	4,983.25	4,983.25	30.15	86.05	128.64	-4,238.06	1,868.22	5,436.97	5,324.70	112.28	48.425	
5,400.00	5,098.72	5,073.72	5,073.72	30.94	87.63	128.97	-4,238.06	1,868.22	5,465.28	5,350.82	114.45	47.751	
5,500.00	5,189.19	5,164.19	5,164.19	31.74	89.21	129.30	-4,238.06	1,868.22	5,493.77	5,377.14	116.63	47.104	
5,600.00	5,279.67	5,254.67	5,254.67	32.54	90.79	129.62	-4,238.06	1,868.22	5,522.43	5,403.63	118.80	46.484	
5,700.00	5,370.14	5,345.14	5,345.14	33.34	92.37	129.94	-4,238.06	1,868.22	5,551.28	5,430.31	120.97	45.889	
5,800.00	5,460.61	5,435.61	5,435.61	34.14	93.94	130.26	-4,238.06	1,868.22	5,580.31	5,457.17	123.14	45.317	
5,900.00	5,551.08	5,450.00	5,450.00	34.94	94.20	130.31	-4,238.06	1,868.22	5,610.02	5,486.10	123.92	45.272	
6,000.00	5,641.56	5,450.00	5,450.00	35.75	94.20	130.31	-4,238.06	1,868.22	5,641.33	5,516.93	124.40	45.347	
6,100.00	5,732.03	5,450.00	5,450.00	36.55	94.20	130.31	-4,238.06	1,868.22	5,674.23	5,549.38	124.85	45.447	
6,200.00	5,822.50	5,450.00	5,450.00	37.35	94.20	130.31	-4,238.06	1,868.22	5,708.70	5,583.43	125.27	45.571	
6,300.00	5,912.97	5,450.00	5,450.00	38.16	94.20	130.31	-4,238.06	1,868.22	5,744.70	5,619.04	125.65	45.718	
6,400.00	6,003.45	5,450.00	5,450.00	38.96	94.20	130.31	-4,238.06	1,868.22	5,782.20	5,656.19	126.00	45.889	
6,500.00	6,093.92	5,450.00	5,450.00	39.77	94.20	130.31	-4,238.06	1,868.22	5,821.18	5,694.85	126.32	46.081	
6,600.00	6,184.39	5,450.00	5,450.00	40.57	94.20	130.31	-4,238.06	1,868.22	5,861.61	5,734.99	126.61	46.295	
6,700.00	6,274.87	5,450.00	5,450.00	41.38	94.20	130.31	-4,238.06	1,868.22	5,903.45	5,776.58	126.87	46.530	
6,800.00	6,365.34	5,450.00	5,450.00	42.18	94.20	130.31	-4,238.06	1,868.22	5,946.68	5,819.58	127.10	46.786	
6,900.00	6,455.81	5,450.00	5,450.00	42.99	94.20	130.31	-4,238.06	1,868.22	5,991.27	5,863.96	127.31	47.061	
7,000.00	6,546.28	5,450.00	5,450.00	43.80	94.20	130.31	-4,238.06	1,868.22	6,037.19	5,909.70	127.49	47.355	
7,100.00	6,636.76	5,450.00	5,450.00	44.61	94.20	130.31	-4,238.06	1,868.22	6,084.40	5,956.76	127.64	47.667	
7,200.00	6,727.23	5,450.00	5,450.00	45.41	94.20	130.31	-4,238.06	1,868.22	6,132.88	6,005.11	127.77	47.998	
7,300.00	6,817.70	5,450.00	5,450.00	46.22	94.20	130.31	-4,238.06	1,868.22	6,182.60	6,054.72	127.88	48.346	
7,383.79	6,893.51	5,450.00	5,450.00	46.90	94.20	130.31	-4,238.06	1,868.22	6,225.19	6,097.23	127.96	48.651	
7,400.00	6,908.25	5,450.00	5,450.00	47.03	94.20	128.11	-4,238.06	1,868.22	6,233.33	6,105.36	127.97	48.711	
7,450.00	6,954.52	5,450.00	5,450.00	47.40	94.20	119.54	-4,238.06	1,868.22	6,256.13	6,128.14	127.99	48.881	
7,500.00	7,001.74	5,450.00	5,450.00	47.72	94.20	107.71	-4,238.06	1,868.22	6,275.36	6,147.37	127.99	49.030	
7,550.00	7,049.55	5,450.00	5,450.00	47.99	94.20	92.48	-4,238.06	1,868.22	6,290.89	6,162.92	127.97	49.160	
7,600.00	7,097.58	5,450.00	5,450.00	48.21	94.20	75.41	-4,238.06	1,868.22	6,302.63	6,174.71	127.92	49.272	
7,650.00	7,145.48	5,450.00	5,450.00	48.37	94.20	59.42	-4,238.06	1,868.22	6,310.52	6,182.69	127.84	49.365	
7,700.00	7,192.88	5,450.00	5,450.00	48.48	94.20	46.50	-4,238.06	1,868.22	6,314.51	6,186.79	127.72	49.439	
7,750.00	7,239.41	5,450.00	5,450.00	48.54	94.20	36.83	-4,238.06	1,868.22	6,314.58	6,187.00	127.58	49.494	
7,800.00	7,284.72	5,450.00	5,450.00	48.56	94.20	29.72	-4,238.06	1,868.22	6,310.73	6,183.32	127.42	49.528	
7,850.00	7,328.47	5,450.00	5,450.00	48.54	94.20	24.42	-4,238.06	1,868.22	6,302.98	6,175.75	127.23	49.542	
7,900.00	7,370.32	5,450.00	5,450.00	48.47	94.20	20.37	-4,238.06	1,868.22	6,291.37	6,164.36	127.01	49.533	
7,950.00	7,409.96	5,450.00	5,450.00	48.37	94.20	17.17	-4,238.06	1,868.22	6,275.98	6,149.19	126.78	49.501	
8,000.00	7,447.08	5,450.00	5,450.00	48.24	94.20	14.57	-4,238.06	1,868.22	6,256.88	6,130.35	126.54	49.447	
8,050.00	7,481.41	5,450.00	5,450.00	48.07	94.20	12.38	-4,238.06	1,868.22	6,234.20	6,107.92	126.28	49.368	
8,100.00	7,512.67	5,450.00	5,450.00	47.87	94.20	10.46	-4,238.06	1,868.22	6,208.07	6,082.06	126.01	49.266	
8,150.00	7,540.64	5,450.00	5,450.00	47.65	94.20	8.70	-4,238.06	1,868.22	6,178.64	6,052.90	125.74	49.138	
8,200.00	7,565.09	5,450.00	5,450.00	47.40	94.20	7.02	-4,238.06	1,868.22	6,146.10	6,020.63	125.47	48.986	
8,250.00	7,585.85	5,450.00	5,450.00	47.14	94.20	5.32	-4,238.06	1,868.22	6,110.64	5,985.44	125.19	48.810	
8,300.00	7,602.75	5,450.00	5,450.00	46.86	94.20	3.50	-4,238.06	1,868.22	6,072.48	5,947.55	124.93	48.608	
8,350.00	7,615.67	5,450.00	5,450.00	46.58	94.20	1.41	-4,238.06	1,868.22	6,031.87	5,907.20	124.67	48.382	
8,400.00	7,624.51	5,450.00	5,450.00	46.28	94.20	-1.16	-4,238.06	1,868.22	5,989.06	5,864.64	124.43	48.132	
8,450.00	7,629.19	5,450.00	5,450.00	45.98	94.20	-4.54	-4,238.06	1,868.22	5,944.35	5,820.15	124.21	47.859	
8,481.00	7,630.00	5,450.00	5,450.00	45.79	94.20	-7.31	-4,238.06	1,868.22	5,915.80	5,791.72	124.08	47.678	
8,500.00	7,630.00	5,450.00	5,450.00	45.68	94.20	-7.31	-4,238.06	1,868.22	5,898.14	5,774.13	124.00	47.565	
8,600.00	7,630.00	5,450.00	5,450.00	45.11	94.20	-7.31	-4,238.06	1,868.22	5,805.28	5,681.70	123.59	46.973	
8,700.00	7,630.00	5,450.00	5,450.00	44.56	94.20	-7.31	-4,238.06	1,868.22	5,712.67	5,589.52	123.16	46.385	
8,800.00	7,630.00	5,450.00	5,450.00	44.05	94.20	-7.31	-4,238.06	1,868.22	5,620.32	5,497.60	122.72	45.800	
8,900.00	7,630.00	5,450.00	5,450.00	43.57	94.20	-7.31	-4,238.06	1,868.22	5,528.23	5,405.97	122.26	45.218	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,000.00	7,630.00	5,450.00	5,450.00	43.12	94.20	-7.31	-4,238.06	1,868.22	5,436.41	5,314.63	121.79	44.639	
9,100.00	7,630.00	5,450.00	5,450.00	42.70	94.20	-7.31	-4,238.06	1,868.22	5,344.90	5,223.60	121.30	44.064	
9,200.00	7,630.00	5,450.00	5,450.00	42.31	94.20	-7.31	-4,238.06	1,868.22	5,253.69	5,132.89	120.79	43.493	
9,300.00	7,630.00	5,450.00	5,450.00	41.94	94.20	-7.31	-4,238.06	1,868.22	5,162.81	5,042.53	120.27	42.926	
9,400.00	7,630.00	5,450.00	5,450.00	41.59	94.20	-7.31	-4,238.06	1,868.22	5,072.27	4,952.53	119.73	42.363	
9,500.00	7,630.00	5,450.00	5,450.00	41.26	94.20	-7.31	-4,238.06	1,868.22	4,982.09	4,862.91	119.18	41.804	
9,600.00	7,630.00	5,450.00	5,450.00	40.96	94.20	-7.31	-4,238.06	1,868.22	4,892.29	4,773.69	118.60	41.250	
9,700.00	7,630.00	5,450.00	5,450.00	40.68	94.20	-7.31	-4,238.06	1,868.22	4,802.90	4,684.89	118.01	40.700	
9,800.00	7,630.00	5,450.00	5,450.00	40.42	94.20	-7.31	-4,238.06	1,868.22	4,713.93	4,596.54	117.39	40.156	
9,900.00	7,630.00	5,450.00	5,450.00	40.17	94.20	-7.31	-4,238.06	1,868.22	4,625.42	4,508.67	116.75	39.617	
10,000.00	7,630.00	5,450.00	5,450.00	39.96	94.20	-7.31	-4,238.06	1,868.22	4,537.38	4,421.29	116.09	39.084	
10,100.00	7,630.00	5,450.00	5,450.00	40.05	94.20	-7.31	-4,238.06	1,868.22	4,449.85	4,334.43	115.41	38.556	
10,200.00	7,630.00	5,450.00	5,450.00	40.95	94.20	-7.31	-4,238.06	1,868.22	4,362.85	4,248.14	114.71	38.035	
10,300.00	7,630.00	5,450.00	5,450.00	41.94	94.20	-7.31	-4,238.06	1,868.22	4,276.42	4,162.44	113.98	37.519	
10,400.00	7,630.00	5,450.00	5,450.00	42.98	94.20	-7.31	-4,238.06	1,868.22	4,190.60	4,077.37	113.23	37.011	
10,500.00	7,630.00	5,450.00	5,450.00	44.06	94.20	-7.31	-4,238.06	1,868.22	4,105.41	3,992.96	112.45	36.509	
10,600.00	7,630.00	5,450.00	5,450.00	45.17	94.20	-7.31	-4,238.06	1,868.22	4,020.91	3,909.27	111.65	36.014	
10,700.00	7,630.00	5,450.00	5,450.00	46.32	94.20	-7.31	-4,238.06	1,868.22	3,937.14	3,826.32	110.82	35.527	
10,800.00	7,630.00	5,450.00	5,450.00	47.50	94.20	-7.31	-4,238.06	1,868.22	3,854.14	3,744.17	109.97	35.048	
10,900.00	7,630.00	5,450.00	5,450.00	48.70	94.20	-7.31	-4,238.06	1,868.22	3,771.96	3,662.87	109.09	34.576	
11,000.00	7,630.00	5,450.00	5,450.00	49.94	94.20	-7.31	-4,238.06	1,868.22	3,690.67	3,582.48	108.19	34.113	
11,100.00	7,630.00	5,450.00	5,450.00	51.20	94.20	-7.31	-4,238.06	1,868.22	3,610.31	3,503.05	107.26	33.659	
11,200.00	7,630.00	5,450.00	5,450.00	52.48	94.20	-7.31	-4,238.06	1,868.22	3,530.96	3,424.65	106.31	33.214	
11,300.00	7,630.00	5,450.00	5,450.00	53.79	94.20	-7.31	-4,238.06	1,868.22	3,452.68	3,347.34	105.33	32.778	
11,400.00	7,630.00	5,450.00	5,450.00	55.12	94.20	-7.31	-4,238.06	1,868.22	3,375.55	3,271.21	104.34	32.352	
11,500.00	7,630.00	5,450.00	5,450.00	56.46	94.20	-7.31	-4,238.06	1,868.22	3,299.64	3,196.32	103.32	31.937	
11,600.00	7,630.00	5,450.00	5,450.00	57.83	94.20	-7.31	-4,238.06	1,868.22	3,225.05	3,122.77	102.28	31.533	
11,700.00	7,630.00	5,450.00	5,450.00	59.22	94.20	-7.31	-4,238.06	1,868.22	3,151.87	3,050.65	101.22	31.140	
11,800.00	7,630.00	5,450.00	5,450.00	60.62	94.20	-7.31	-4,238.06	1,868.22	3,080.19	2,980.06	100.14	30.760	
11,900.00	7,630.00	5,450.00	5,450.00	62.04	94.20	-7.31	-4,238.06	1,868.22	3,010.14	2,911.10	99.04	30.394	
12,000.00	7,630.00	5,450.00	5,450.00	63.48	94.20	-7.31	-4,238.06	1,868.22	2,941.81	2,843.89	97.92	30.042	
12,100.00	7,630.00	5,450.00	5,450.00	64.93	94.20	-7.31	-4,238.06	1,868.22	2,875.34	2,778.55	96.79	29.707	
12,200.00	7,630.00	5,450.00	5,450.00	66.39	94.20	-7.31	-4,238.06	1,868.22	2,810.85	2,715.21	95.64	29.391	
12,300.00	7,630.00	5,450.00	5,450.00	67.86	94.20	-7.31	-4,238.06	1,868.22	2,748.49	2,654.02	94.47	29.094	
12,400.00	7,630.00	5,450.00	5,450.00	69.35	94.20	-7.31	-4,238.06	1,868.22	2,688.41	2,595.13	93.28	28.821	
12,500.00	7,630.00	5,450.00	5,450.00	70.85	94.20	-7.31	-4,238.06	1,868.22	2,630.75	2,538.68	92.07	28.574	
12,600.00	7,630.00	5,450.00	5,450.00	72.36	94.20	-7.31	-4,238.06	1,868.22	2,575.69	2,484.85	90.84	28.356	
12,700.00	7,630.00	5,450.00	5,450.00	73.88	94.20	-7.31	-4,238.06	1,868.22	2,523.39	2,433.81	89.58	28.169	
12,800.00	7,630.00	5,450.00	5,450.00	75.41	94.20	-7.31	-4,238.06	1,868.22	2,474.03	2,385.73	88.30	28.019	
12,900.00	7,630.00	5,450.00	5,450.00	76.95	94.20	-7.31	-4,238.06	1,868.22	2,427.78	2,340.78	87.00	27.906	
13,000.00	7,630.00	5,450.00	5,450.00	78.49	94.20	-7.31	-4,238.06	1,868.22	2,384.84	2,299.16	85.68	27.835	
13,100.00	7,630.00	5,450.00	5,450.00	80.05	94.20	-7.31	-4,238.06	1,868.22	2,345.37	2,261.02	84.35	27.806	
13,200.00	7,630.00	5,450.00	5,450.00	81.61	94.20	-7.31	-4,238.06	1,868.22	2,309.56	2,226.54	83.02	27.818	
13,300.00	7,630.00	5,450.00	5,450.00	83.18	94.20	-7.31	-4,238.06	1,868.22	2,277.59	2,195.86	81.73	27.867	
13,400.00	7,630.00	5,450.00	5,450.00	84.76	94.20	-7.31	-4,238.06	1,868.22	2,249.61	2,169.10	80.51	27.943	
13,500.00	7,630.00	5,450.00	5,450.00	86.34	94.20	-7.31	-4,238.06	1,868.22	2,225.77	2,146.36	79.41	28.029	
13,600.00	7,630.00	5,450.00	5,450.00	87.94	94.20	-7.31	-4,238.06	1,868.22	2,206.21	2,127.69	78.52	28.096	
13,700.00	7,630.00	5,450.00	5,450.00	89.53	94.20	-7.31	-4,238.06	1,868.22	2,191.05	2,113.08	77.96	28.103	
13,800.00	7,630.00	5,450.00	5,450.00	91.13	94.20	-7.31	-4,238.06	1,868.22	2,180.37	2,102.49	77.88	27.997	
13,900.00	7,630.00	5,450.00	5,450.00	92.74	94.20	-7.31	-4,238.06	1,868.22	2,174.24	2,095.82	78.42	27.725	
13,983.40	7,630.00	5,450.00	5,450.00	94.09	94.20	-7.31	-4,238.06	1,868.22	2,172.64	2,093.20	79.44	27.348	CC
14,000.00	7,630.00	5,450.00	5,450.00	94.35	94.20	-7.31	-4,238.06	1,868.22	2,172.71	2,092.99	79.71	27.256	ES

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,100.00	7,630.00	5,450.00	5,450.00	95.97	94.20	-7.31	-4,238.06	1,868.22	2,175.77	2,093.99	81.78	26.605	
14,200.00	7,630.00	5,450.00	5,450.00	97.60	94.20	-7.31	-4,238.06	1,868.22	2,183.41	2,098.88	84.53	25.830	
14,300.00	7,630.00	5,450.00	5,450.00	99.22	94.20	-7.31	-4,238.06	1,868.22	2,195.59	2,107.79	87.80	25.006	
14,400.00	7,630.00	5,450.00	5,450.00	100.85	94.20	-7.31	-4,238.06	1,868.22	2,212.23	2,120.81	91.41	24.200	
14,500.00	7,630.00	5,450.00	5,450.00	102.49	94.20	-7.31	-4,238.06	1,868.22	2,233.22	2,138.02	95.20	23.458	
14,600.00	7,630.00	5,450.00	5,450.00	104.13	94.20	-7.31	-4,238.06	1,868.22	2,258.45	2,159.40	99.05	22.802	
14,700.00	7,630.00	5,450.00	5,450.00	105.77	94.20	-7.31	-4,238.06	1,868.22	2,287.77	2,184.92	102.85	22.243	
14,800.00	7,630.00	5,450.00	5,450.00	107.42	94.20	-7.31	-4,238.06	1,868.22	2,321.04	2,214.48	106.56	21.782	
14,900.00	7,630.00	5,450.00	5,450.00	109.07	94.20	-7.31	-4,238.06	1,868.22	2,358.08	2,247.97	110.12	21.414	
15,000.00	7,630.00	5,450.00	5,450.00	110.72	94.20	-7.31	-4,238.06	1,868.22	2,398.72	2,285.22	113.50	21.134	
15,100.00	7,630.00	5,450.00	5,450.00	112.38	94.20	-7.31	-4,238.06	1,868.22	2,442.78	2,326.09	116.70	20.933	
15,200.00	7,630.00	5,450.00	5,450.00	114.04	94.20	-7.31	-4,238.06	1,868.22	2,490.08	2,370.39	119.69	20.804	
15,300.00	7,630.00	5,450.00	5,450.00	115.71	94.20	-7.31	-4,238.06	1,868.22	2,540.44	2,417.96	122.48	20.741	
15,400.00	7,630.00	5,450.00	5,450.00	117.37	94.20	-7.31	-4,238.06	1,868.22	2,593.68	2,468.60	125.08	20.737	SF
15,500.00	7,630.00	5,450.00	5,450.00	119.04	94.20	-7.31	-4,238.06	1,868.22	2,649.62	2,522.14	127.47	20.786	
15,600.00	7,630.00	5,450.00	5,450.00	120.71	94.20	-7.31	-4,238.06	1,868.22	2,708.10	2,578.41	129.69	20.882	
15,700.00	7,630.00	5,450.00	5,450.00	122.39	94.20	-7.31	-4,238.06	1,868.22	2,768.96	2,637.23	131.72	21.021	
15,800.00	7,630.00	5,450.00	5,450.00	124.06	94.20	-7.31	-4,238.06	1,868.22	2,832.04	2,698.44	133.59	21.199	
15,900.00	7,630.00	5,450.00	5,450.00	125.74	94.20	-7.31	-4,238.06	1,868.22	2,897.20	2,761.89	135.31	21.412	
16,000.00	7,630.00	5,450.00	5,450.00	127.42	94.20	-7.31	-4,238.06	1,868.22	2,964.30	2,827.42	136.88	21.656	
16,100.00	7,630.00	5,450.00	5,450.00	129.10	94.20	-7.31	-4,238.06	1,868.22	3,033.22	2,894.90	138.32	21.930	
16,200.00	7,630.00	5,450.00	5,450.00	130.79	94.20	-7.31	-4,238.06	1,868.22	3,103.82	2,964.19	139.63	22.229	
16,300.00	7,630.00	5,450.00	5,450.00	132.48	94.20	-7.31	-4,238.06	1,868.22	3,176.01	3,035.18	140.83	22.552	
16,400.00	7,630.00	5,450.00	5,450.00	134.17	94.20	-7.31	-4,238.06	1,868.22	3,249.67	3,107.75	141.92	22.897	
16,500.00	7,630.00	5,450.00	5,450.00	135.86	94.20	-7.31	-4,238.06	1,868.22	3,324.71	3,181.78	142.92	23.262	
16,600.00	7,630.00	5,450.00	5,450.00	137.55	94.20	-7.31	-4,238.06	1,868.22	3,401.03	3,257.19	143.84	23.645	
16,700.00	7,630.00	5,450.00	5,450.00	139.24	94.20	-7.31	-4,238.06	1,868.22	3,478.55	3,333.88	144.67	24.045	
16,800.00	7,630.00	5,450.00	5,450.00	140.94	94.20	-7.31	-4,238.06	1,868.22	3,557.20	3,411.77	145.43	24.460	
16,900.00	7,630.00	5,450.00	5,450.00	142.64	94.20	-7.31	-4,238.06	1,868.22	3,636.89	3,490.76	146.13	24.889	
17,000.00	7,630.00	5,450.00	5,450.00	144.34	94.20	-7.31	-4,238.06	1,868.22	3,717.57	3,570.81	146.76	25.331	
17,100.00	7,630.00	5,450.00	5,450.00	146.04	94.20	-7.31	-4,238.06	1,868.22	3,799.16	3,651.82	147.34	25.785	
17,200.00	7,630.00	5,450.00	5,450.00	147.74	94.20	-7.31	-4,238.06	1,868.22	3,881.61	3,733.75	147.87	26.251	
17,300.00	7,630.00	5,450.00	5,450.00	149.44	94.20	-7.31	-4,238.06	1,868.22	3,964.88	3,816.53	148.35	26.726	
17,400.00	7,630.00	5,450.00	5,450.00	151.15	94.20	-7.31	-4,238.06	1,868.22	4,048.90	3,900.10	148.79	27.211	
17,500.00	7,630.00	5,450.00	5,450.00	152.86	94.20	-7.31	-4,238.06	1,868.22	4,133.63	3,984.43	149.20	27.705	
17,600.00	7,630.00	5,450.00	5,450.00	154.56	94.20	-7.31	-4,238.06	1,868.22	4,219.03	4,069.46	149.57	28.208	
17,700.00	7,630.00	5,450.00	5,450.00	156.27	94.20	-7.31	-4,238.06	1,868.22	4,305.06	4,155.15	149.91	28.718	
17,800.00	7,630.00	5,450.00	5,450.00	157.98	94.20	-7.31	-4,238.06	1,868.22	4,391.68	4,241.46	150.22	29.235	
17,900.00	7,630.00	5,450.00	5,450.00	159.70	94.20	-7.31	-4,238.06	1,868.22	4,478.86	4,328.35	150.51	29.759	
18,000.00	7,630.00	5,450.00	5,450.00	161.41	94.20	-7.31	-4,238.06	1,868.22	4,566.56	4,415.80	150.77	30.289	
18,100.00	7,630.00	5,450.00	5,450.00	163.12	94.20	-7.31	-4,238.06	1,868.22	4,654.76	4,503.76	151.01	30.825	
18,154.00	7,630.00	5,450.00	5,450.00	164.05	94.20	-7.31	-4,238.06	1,868.22	4,702.59	4,551.46	151.13	31.116	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 100-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	154.33	-4,569.54	2,195.90	5,069.79				
100.00	100.00	71.39	71.39	0.13	0.11	154.34	-4,569.75	2,195.78	5,069.97	5,069.72	0.25	N/A	
200.00	200.00	166.64	166.63	0.49	0.40	154.34	-4,570.52	2,195.34	5,070.48	5,069.59	0.89	5,683.834	
300.00	300.00	285.87	285.87	0.85	0.83	154.35	-4,571.22	2,194.84	5,070.84	5,069.16	1.68	3,022.419	
400.00	400.00	381.16	381.15	1.21	1.17	154.35	-4,571.42	2,194.72	5,070.97	5,068.59	2.38	2,134.499	
500.00	500.00	482.93	482.93	1.57	1.53	154.36	-4,571.66	2,194.72	5,071.19	5,068.09	3.10	1,637.576	
600.00	600.00	614.26	614.25	1.93	1.99	154.36	-4,571.90	2,194.06	5,071.16	5,067.24	3.92	1,293.621	
700.00	700.00	780.32	780.29	2.29	2.57	154.38	-4,570.50	2,192.09	5,069.77	5,064.91	4.85	1,044.944	
800.00	800.00	874.70	874.65	2.64	2.89	154.38	-4,569.20	2,191.03	5,068.04	5,062.50	5.54	915.484	
900.00	900.00	975.20	975.14	3.00	3.24	154.38	-4,567.87	2,190.06	5,066.43	5,060.19	6.24	811.506	
1,000.00	1,000.00	1,112.19	1,112.11	3.36	3.72	154.39	-4,565.57	2,188.68	5,064.50	5,057.42	7.08	715.412	
1,100.00	1,100.00	1,181.78	1,181.68	3.72	3.96	154.39	-4,564.40	2,187.94	5,062.49	5,054.81	7.68	658.956	
1,200.00	1,200.00	1,274.53	1,274.42	4.08	4.29	154.39	-4,563.10	2,187.10	5,060.84	5,052.47	8.37	604.826	
1,300.00	1,300.00	1,363.32	1,363.20	4.44	4.60	154.39	-4,561.91	2,186.41	5,059.29	5,050.25	9.04	559.675	
1,400.00	1,400.00	1,446.69	1,446.56	4.79	4.90	154.40	-4,561.14	2,185.59	5,058.04	5,048.35	9.69	521.758	
1,456.10	1,456.09	1,492.58	1,492.44	4.99	5.06	116.60	-4,560.83	2,185.19	5,057.74	5,047.68	10.06	502.873	
1,500.00	1,499.98	1,532.46	1,532.32	5.15	5.21	116.61	-4,560.62	2,184.87	5,057.91	5,047.55	10.36	488.383	
1,600.00	1,599.84	1,630.09	1,629.95	5.51	5.55	116.64	-4,560.19	2,184.10	5,059.52	5,048.45	11.06	457.433	
1,700.00	1,699.45	1,728.57	1,728.43	5.87	5.91	116.68	-4,559.72	2,183.21	5,062.63	5,050.86	11.77	430.098	
1,800.00	1,798.70	1,809.61	1,809.47	6.23	6.20	116.70	-4,559.57	2,182.53	5,067.60	5,055.18	12.42	407.893	
1,900.00	1,897.47	1,910.41	1,910.26	6.60	6.56	116.75	-4,559.63	2,181.48	5,074.31	5,061.16	13.16	385.724	
2,000.00	1,995.62	2,009.46	2,009.31	6.99	6.91	116.80	-4,559.72	2,180.36	5,082.63	5,068.74	13.89	365.864	
2,100.00	2,093.06	2,124.80	2,124.63	7.39	7.32	116.90	-4,559.61	2,178.82	5,092.34	5,077.64	14.70	346.342	
2,200.00	2,189.64	2,220.63	2,220.45	7.82	7.67	116.96	-4,559.37	2,177.62	5,103.63	5,088.16	15.46	330.037	
2,300.00	2,285.27	2,323.29	2,323.11	8.28	8.03	117.04	-4,559.03	2,176.25	5,116.50	5,100.22	16.27	314.440	
2,400.00	2,379.82	2,414.67	2,414.47	8.77	8.36	117.09	-4,558.74	2,175.00	5,131.10	5,114.04	17.07	300.672	
2,500.00	2,473.17	2,518.22	2,518.02	9.31	8.73	117.18	-4,558.18	2,173.85	5,147.38	5,129.45	17.93	287.052	
2,600.00	2,565.21	2,622.61	2,622.39	9.88	9.10	117.27	-4,557.39	2,172.76	5,165.29	5,146.45	18.83	274.265	
2,660.67	2,620.37	2,700.51	2,700.29	10.25	9.38	117.40	-4,556.57	2,171.76	5,176.83	5,157.38	19.45	266.175	
2,700.00	2,655.96	2,730.74	2,730.52	10.50	9.49	117.53	-4,556.21	2,171.31	5,184.49	5,164.71	19.78	262.101	
2,800.00	2,746.43	2,809.22	2,808.98	11.15	9.77	117.87	-4,555.48	2,170.09	5,204.32	5,183.68	20.64	252.129	
2,900.00	2,836.90	2,898.24	2,897.97	11.82	10.09	118.26	-4,554.91	2,168.30	5,224.54	5,202.98	21.56	242.372	
3,000.00	2,927.37	2,981.48	2,981.20	12.50	10.39	118.63	-4,554.57	2,166.34	5,245.10	5,222.64	22.46	233.522	
3,100.00	3,017.85	3,061.00	3,060.69	13.21	10.68	118.98	-4,554.35	2,164.52	5,266.09	5,242.73	23.36	225.423	
3,200.00	3,108.32	3,156.29	3,155.96	13.92	11.02	119.39	-4,554.19	2,162.42	5,287.47	5,263.15	24.33	217.355	
3,300.00	3,198.79	3,248.82	3,248.47	14.64	11.35	119.79	-4,553.85	2,160.33	5,308.93	5,283.65	25.29	209.943	
3,400.00	3,289.27	3,331.82	3,331.45	15.38	11.65	120.14	-4,553.56	2,158.71	5,330.78	5,304.56	26.22	203.330	
3,500.00	3,379.74	3,417.06	3,416.67	16.12	11.96	120.50	-4,553.36	2,156.92	5,352.95	5,325.80	27.16	197.100	
3,600.00	3,470.21	3,493.41	3,493.00	16.87	12.23	120.82	-4,553.34	2,155.35	5,375.56	5,347.50	28.07	191.518	
3,700.00	3,560.68	3,586.27	3,585.85	17.62	12.56	121.21	-4,553.36	2,153.61	5,398.53	5,369.49	29.04	185.893	
3,800.00	3,651.16	3,672.55	3,672.11	18.39	12.87	121.57	-4,553.35	2,152.04	5,421.74	5,391.75	29.99	180.785	
3,900.00	3,741.63	3,769.44	3,768.99	19.15	13.22	121.97	-4,553.40	2,150.13	5,445.22	5,414.24	30.98	175.768	
4,000.00	3,832.10	3,859.71	3,859.24	19.92	13.55	122.33	-4,553.31	2,148.36	5,468.82	5,436.88	31.94	171.202	
4,100.00	3,922.57	3,943.94	3,943.45	20.69	13.85	122.68	-4,553.27	2,146.82	5,492.74	5,459.86	32.88	167.033	
4,200.00	4,013.05	4,039.10	4,038.60	21.47	14.19	123.06	-4,553.27	2,145.16	5,516.97	5,483.11	33.87	162.909	
4,300.00	4,103.52	4,151.53	4,151.02	22.25	14.59	123.50	-4,552.80	2,143.48	5,541.12	5,506.21	34.91	158.720	
4,400.00	4,193.99	4,256.32	4,255.80	23.03	14.96	123.90	-4,551.82	2,142.61	5,565.23	5,529.30	35.92	154.918	
4,500.00	4,284.47	4,341.81	4,341.28	23.81	15.26	124.22	-4,550.74	2,142.37	5,589.41	5,552.56	36.86	151.648	
4,600.00	4,374.94	4,415.18	4,414.64	24.60	15.52	124.49	-4,550.00	2,142.32	5,614.06	5,576.32	37.74	148.747	
4,700.00	4,465.41	4,494.82	4,494.28	25.39	15.80	124.78	-4,549.42	2,142.20	5,639.14	5,600.49	38.65	145.904	
4,800.00	4,555.88	4,587.58	4,587.04	26.18	16.13	125.12	-4,548.89	2,141.76	5,664.50	5,624.89	39.61	143.010	
4,900.00	4,646.36	4,733.52	4,732.96	26.97	16.65	125.67	-4,547.65	2,139.87	5,689.64	5,648.87	40.78	139.535	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,736.83	4,857.02	4,856.43	27.76	17.09	126.13	-4,545.62	2,137.66	5,714.15	5,672.30	41.85	136.535	
5,100.00	4,827.30	4,949.45	4,948.83	28.55	17.42	126.47	-4,543.86	2,135.99	5,738.66	5,695.86	42.80	134.067	
5,200.00	4,917.77	5,031.12	5,030.47	29.35	17.72	126.76	-4,542.36	2,134.51	5,763.44	5,719.73	43.71	131.845	
5,300.00	5,008.25	5,107.43	5,106.76	30.15	17.99	127.04	-4,541.17	2,133.03	5,788.63	5,744.03	44.60	129.792	
5,400.00	5,098.72	5,188.27	5,187.57	30.94	18.28	127.33	-4,540.10	2,131.32	5,814.21	5,768.71	45.50	127.786	
5,500.00	5,189.19	5,276.80	5,276.07	31.74	18.60	127.66	-4,539.04	2,129.35	5,840.08	5,793.66	46.43	125.790	
5,600.00	5,279.67	5,382.54	5,381.78	32.54	18.98	128.04	-4,537.67	2,127.04	5,866.08	5,818.66	47.42	123.704	
5,700.00	5,370.14	5,478.30	5,477.50	33.34	19.32	128.38	-4,536.23	2,124.85	5,892.06	5,843.69	48.37	121.810	
5,800.00	5,460.61	5,557.29	5,556.46	34.14	19.61	128.66	-4,535.06	2,123.09	5,918.28	5,869.02	49.25	120.163	
5,900.00	5,551.08	5,636.67	5,635.82	34.94	19.89	128.93	-4,534.01	2,121.69	5,944.90	5,894.77	50.13	118.585	
6,000.00	5,641.56	5,716.99	5,716.13	35.75	20.18	129.21	-4,533.02	2,120.37	5,971.82	5,920.81	51.01	117.067	
6,100.00	5,732.03	5,782.80	5,781.93	36.55	20.42	129.43	-4,532.39	2,119.50	5,999.22	5,947.39	51.83	115.747	
6,200.00	5,822.50	5,874.75	5,873.87	37.35	20.74	129.74	-4,531.71	2,118.53	6,027.02	5,974.26	52.75	114.252	
6,300.00	5,912.97	6,044.42	6,043.50	38.16	21.35	130.30	-4,529.37	2,116.30	6,054.43	6,000.44	53.98	112.153	
6,400.00	6,003.45	6,152.95	6,151.99	38.96	21.74	130.65	-4,526.70	2,115.32	6,081.04	6,026.07	54.96	110.635	
6,500.00	6,093.92	6,224.80	6,223.81	39.77	21.99	130.89	-4,525.16	2,113.77	6,107.95	6,052.15	55.80	109.470	
6,600.00	6,184.39	6,287.58	6,286.57	40.57	22.22	131.09	-4,524.08	2,112.40	6,135.41	6,078.82	56.59	108.423	
6,700.00	6,274.87	6,345.19	6,344.16	41.38	22.43	131.28	-4,523.37	2,111.19	6,163.47	6,106.12	57.35	107.464	
6,800.00	6,365.34	6,800.00	6,461.45	42.18	24.05	131.67	-4,522.14	2,108.55	6,191.89	6,132.33	59.56	103.956	
6,900.00	6,455.81	6,571.89	6,570.79	42.99	23.23	132.01	-4,519.97	2,107.50	6,219.72	6,160.39	59.33	104.832	
7,000.00	6,546.28	6,760.80	6,759.61	43.80	23.89	132.57	-4,514.66	2,108.12	6,247.17	6,186.55	60.61	103.068	
7,100.00	6,636.76	6,800.00	6,798.79	44.61	24.03	132.68	-4,513.20	2,108.43	6,274.21	6,212.91	61.30	102.359	
7,200.00	6,727.23	6,860.24	6,859.00	45.41	24.23	132.85	-4,511.35	2,108.95	6,301.90	6,239.84	62.06	101.552	
7,300.00	6,817.70	6,900.00	6,898.75	46.22	24.37	132.96	-4,510.61	2,109.31	6,330.63	6,267.90	62.73	100.922	
7,383.79	6,893.51	7,033.58	7,032.30	46.90	24.84	133.36	-4,507.91	2,108.45	6,354.45	6,290.75	63.70	99.756	
7,400.00	6,908.25	7,042.91	7,041.62	47.03	24.87	131.09	-4,507.71	2,108.38	6,358.85	6,295.03	63.82	99.638	
7,450.00	6,954.52	7,072.19	7,070.90	47.40	24.97	122.32	-4,507.10	2,108.31	6,369.74	6,305.55	64.19	99.238	
7,500.00	7,001.74	7,100.00	7,098.70	47.72	25.07	110.32	-4,506.57	2,108.45	6,376.52	6,311.98	64.54	98.804	
7,550.00	7,049.55	7,136.26	7,134.96	47.99	25.20	94.97	-4,505.97	2,108.70	6,379.13	6,314.22	64.91	98.280	
7,600.00	7,097.58	7,170.18	7,168.87	48.21	25.32	77.80	-4,505.50	2,108.80	6,377.53	6,312.28	65.25	97.741	
7,650.00	7,145.48	7,205.05	7,203.74	48.37	25.44	61.72	-4,505.10	2,108.77	6,371.74	6,306.17	65.57	97.171	
7,700.00	7,192.88	7,248.27	7,246.95	48.48	25.59	48.75	-4,504.69	2,108.54	6,361.75	6,295.84	65.91	96.524	
7,750.00	7,239.41	7,290.56	7,289.24	48.54	25.74	39.04	-4,504.33	2,108.09	6,347.61	6,281.39	66.22	95.859	
7,800.00	7,284.72	7,349.11	7,347.78	48.56	25.95	31.94	-4,503.82	2,107.29	6,329.36	6,262.78	66.58	95.070	
7,850.00	7,328.47	7,410.49	7,409.15	48.54	26.17	26.65	-4,503.12	2,106.50	6,307.04	6,240.12	66.93	94.239	
7,900.00	7,370.32	7,461.01	7,459.66	48.47	26.35	22.58	-4,502.45	2,105.70	6,280.87	6,213.66	67.21	93.451	
7,950.00	7,409.96	7,509.71	7,508.35	48.37	26.53	19.36	-4,501.74	2,104.74	6,251.05	6,183.58	67.47	92.650	
8,000.00	7,447.08	7,521.32	7,519.95	48.24	26.57	16.60	-4,501.60	2,104.54	6,217.95	6,150.39	67.56	92.042	
8,050.00	7,481.41	7,537.65	7,536.28	48.07	26.63	14.21	-4,501.43	2,104.29	6,181.83	6,114.18	67.65	91.384	
8,100.00	7,512.67	7,552.61	7,551.24	47.87	26.68	12.00	-4,501.32	2,104.10	6,142.95	6,075.23	67.72	90.713	
8,150.00	7,540.64	7,566.07	7,564.70	47.65	26.73	9.81	-4,501.24	2,103.97	6,101.58	6,033.81	67.77	90.032	
8,200.00	7,565.09	7,577.92	7,576.55	47.40	26.77	7.43	-4,501.20	2,103.87	6,058.00	5,990.19	67.81	89.341	
8,250.00	7,585.85	7,600.00	7,598.63	47.14	26.85	4.55	-4,501.18	2,103.77	6,012.55	5,944.67	67.88	88.575	
8,300.00	7,602.75	7,600.00	7,598.63	46.86	26.85	0.51	-4,501.18	2,103.77	5,965.48	5,897.63	67.85	87.920	
8,350.00	7,615.67	7,616.53	7,615.16	46.58	26.91	-6.13	-4,501.18	2,103.72	5,917.20	5,849.30	67.89	87.158	
8,400.00	7,624.51	7,642.25	7,640.88	46.28	27.00	-20.27	-4,501.12	2,103.63	5,868.01	5,800.04	67.97	86.334	
8,450.00	7,629.19	7,655.21	7,653.84	45.98	27.05	-57.73	-4,501.06	2,103.57	5,818.31	5,750.32	67.99	85.575	
8,481.00	7,630.00	7,657.04	7,655.67	45.79	27.05	-93.76	-4,501.05	2,103.56	5,787.42	5,719.44	67.98	85.136	
8,500.00	7,630.00	7,656.75	7,655.38	45.68	27.05	-93.73	-4,501.05	2,103.56	5,768.50	5,700.54	67.96	84.875	
8,600.00	7,630.00	7,655.26	7,653.89	45.11	27.05	-93.56	-4,501.06	2,103.57	5,668.90	5,601.01	67.89	83.499	
8,700.00	7,630.00	7,653.86	7,652.49	44.56	27.04	-93.40	-4,501.06	2,103.58	5,569.32	5,501.50	67.82	82.122	
8,800.00	7,630.00	7,652.54	7,651.17	44.05	27.04	-93.26	-4,501.07	2,103.58	5,469.76	5,402.01	67.74	80.743	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
8,900.00	7,630.00	7,651.30	7,649.93	43.57	27.03	-93.12	-4,501.08	2,103.59	5,370.21	5,302.54	67.67	79.362	
9,000.00	7,630.00	7,650.12	7,648.75	43.12	27.03	-92.99	-4,501.08	2,103.59	5,270.67	5,203.08	67.59	77.979	
9,100.00	7,630.00	7,649.00	7,647.63	42.70	27.02	-92.86	-4,501.09	2,103.60	5,171.16	5,103.64	67.51	76.596	
9,200.00	7,630.00	7,647.94	7,646.57	42.31	27.02	-92.74	-4,501.09	2,103.60	5,071.66	5,004.23	67.43	75.210	
9,300.00	7,630.00	7,646.93	7,645.56	41.94	27.02	-92.63	-4,501.10	2,103.61	4,972.18	4,904.83	67.35	73.824	
9,400.00	7,630.00	7,645.97	7,644.60	41.59	27.01	-92.52	-4,501.10	2,103.61	4,872.73	4,805.46	67.27	72.435	
9,500.00	7,630.00	7,645.06	7,643.69	41.26	27.01	-92.42	-4,501.10	2,103.61	4,773.30	4,706.11	67.19	71.046	
9,600.00	7,630.00	7,644.19	7,642.82	40.96	27.01	-92.33	-4,501.11	2,103.62	4,673.89	4,606.79	67.10	69.655	
9,700.00	7,630.00	7,643.36	7,641.99	40.68	27.00	-92.23	-4,501.11	2,103.62	4,574.51	4,507.49	67.01	68.263	
9,800.00	7,630.00	7,642.56	7,641.19	40.42	27.00	-92.14	-4,501.11	2,103.63	4,475.15	4,408.23	66.92	66.869	
9,900.00	7,630.00	7,641.80	7,640.43	40.17	27.00	-92.06	-4,501.12	2,103.63	4,375.82	4,308.99	66.83	65.474	
10,000.00	7,630.00	7,641.07	7,639.70	39.96	26.99	-91.98	-4,501.12	2,103.63	4,276.53	4,209.79	66.74	64.078	
10,100.00	7,630.00	7,640.38	7,639.01	40.05	26.99	-91.90	-4,501.12	2,103.63	4,177.27	4,110.63	66.64	62.681	
10,200.00	7,630.00	7,639.71	7,638.34	40.95	26.99	-91.83	-4,501.13	2,103.64	4,078.04	4,011.50	66.55	61.282	
10,300.00	7,630.00	7,639.06	7,637.69	41.94	26.99	-91.75	-4,501.13	2,103.64	3,978.86	3,912.41	66.45	59.881	
10,400.00	7,630.00	7,638.45	7,637.08	42.98	26.99	-91.68	-4,501.13	2,103.64	3,879.71	3,813.37	66.34	58.480	
10,500.00	7,630.00	7,637.85	7,636.48	44.06	26.98	-91.62	-4,501.13	2,103.64	3,780.61	3,714.38	66.24	57.076	
10,600.00	7,630.00	7,637.28	7,635.91	45.17	26.98	-91.55	-4,501.13	2,103.65	3,681.56	3,615.43	66.13	55.672	
10,700.00	7,630.00	7,636.73	7,635.36	46.32	26.98	-91.49	-4,501.14	2,103.65	3,582.57	3,516.55	66.02	54.265	
10,800.00	7,630.00	7,636.20	7,634.83	47.50	26.98	-91.43	-4,501.14	2,103.65	3,483.62	3,417.72	65.91	52.857	
10,900.00	7,630.00	7,635.69	7,634.32	48.70	26.98	-91.38	-4,501.14	2,103.65	3,384.75	3,318.95	65.79	51.447	
11,000.00	7,630.00	7,635.20	7,633.83	49.94	26.97	-91.32	-4,501.14	2,103.65	3,285.94	3,220.26	65.67	50.035	
11,100.00	7,630.00	7,634.72	7,633.35	51.20	26.97	-91.27	-4,501.14	2,103.66	3,187.20	3,121.65	65.55	48.620	
11,200.00	7,630.00	7,634.26	7,632.89	52.48	26.97	-91.22	-4,501.14	2,103.66	3,088.54	3,023.11	65.43	47.203	
11,300.00	7,630.00	7,633.82	7,632.45	53.79	26.97	-91.17	-4,501.14	2,103.66	2,989.98	2,924.67	65.31	45.784	
11,400.00	7,630.00	7,633.39	7,632.02	55.12	26.97	-91.12	-4,501.15	2,103.66	2,891.51	2,826.33	65.18	44.361	
11,500.00	7,630.00	7,632.97	7,631.60	56.46	26.97	-91.07	-4,501.15	2,103.66	2,793.15	2,728.10	65.06	42.935	
11,600.00	7,630.00	7,632.57	7,631.20	57.83	26.96	-91.03	-4,501.15	2,103.66	2,694.91	2,629.98	64.93	41.505	
11,700.00	7,630.00	7,632.18	7,630.81	59.22	26.96	-90.98	-4,501.15	2,103.67	2,596.81	2,532.00	64.81	40.071	
11,800.00	7,630.00	7,631.80	7,630.43	60.62	26.96	-90.94	-4,501.15	2,103.67	2,498.86	2,434.17	64.68	38.631	
11,900.00	7,630.00	7,631.43	7,630.06	62.04	26.96	-90.90	-4,501.15	2,103.67	2,401.07	2,336.50	64.57	37.186	
12,000.00	7,630.00	7,631.07	7,629.71	63.48	26.96	-90.86	-4,501.15	2,103.67	2,303.48	2,239.01	64.46	35.734	
12,100.00	7,630.00	7,630.73	7,629.36	64.93	26.96	-90.82	-4,501.15	2,103.67	2,206.10	2,141.73	64.37	34.274	
12,200.00	7,630.00	7,630.39	7,629.02	66.39	26.96	-90.78	-4,501.15	2,103.67	2,108.96	2,044.68	64.29	32.804	
12,300.00	7,630.00	7,630.07	7,628.70	67.86	26.96	-90.75	-4,501.15	2,103.67	2,012.11	1,947.88	64.23	31.324	
12,400.00	7,630.00	7,629.75	7,628.38	69.35	26.95	-90.71	-4,501.16	2,103.67	1,915.58	1,851.37	64.21	29.832	
12,500.00	7,630.00	7,629.44	7,628.07	70.85	26.95	-90.68	-4,501.16	2,103.68	1,819.43	1,755.19	64.24	28.325	
12,600.00	7,630.00	7,629.14	7,627.77	72.36	26.95	-90.65	-4,501.16	2,103.68	1,723.71	1,659.39	64.32	26.800	
12,700.00	7,630.00	7,628.85	7,627.48	73.88	26.95	-90.61	-4,501.16	2,103.68	1,628.51	1,564.03	64.48	25.256	
12,800.00	7,630.00	7,628.57	7,627.20	75.41	26.95	-90.58	-4,501.16	2,103.68	1,533.92	1,469.17	64.75	23.690	
12,900.00	7,630.00	7,628.29	7,626.92	76.95	26.95	-90.55	-4,501.16	2,103.68	1,440.06	1,374.89	65.17	22.098	
13,000.00	7,630.00	7,628.02	7,626.65	78.49	26.95	-90.52	-4,501.16	2,103.68	1,347.08	1,281.30	65.78	20.480	
13,100.00	7,630.00	7,627.76	7,626.39	80.05	26.95	-90.49	-4,501.16	2,103.68	1,255.18	1,188.54	66.64	18.834	
13,200.00	7,630.00	7,627.50	7,626.13	81.61	26.95	-90.46	-4,501.16	2,103.68	1,164.62	1,096.77	67.85	17.164	
13,300.00	7,630.00	7,627.25	7,625.88	83.18	26.95	-90.43	-4,501.16	2,103.68	1,075.73	1,006.22	69.51	15.475	
13,400.00	7,630.00	7,627.01	7,625.64	84.76	26.95	-90.41	-4,501.16	2,103.68	988.97	917.21	71.76	13.781	
13,500.00	7,630.00	7,626.77	7,625.40	86.34	26.94	-90.38	-4,501.16	2,103.69	904.94	830.18	74.76	12.105	
13,600.00	7,630.00	7,626.54	7,625.17	87.94	26.94	-90.35	-4,501.16	2,103.69	824.49	745.79	78.70	10.477	
13,700.00	7,630.00	7,626.32	7,624.95	89.53	26.94	-90.33	-4,501.16	2,103.69	748.76	665.01	83.76	8.940	
13,800.00	7,630.00	7,626.10	7,624.73	91.13	26.94	-90.30	-4,501.16	2,103.69	679.34	589.27	90.07	7.542	
13,900.00	7,630.00	7,625.88	7,624.51	92.74	26.94	-90.28	-4,501.16	2,103.69	618.36	520.75	97.61	6.335	
14,000.00	7,630.00	7,625.67	7,624.30	94.35	26.94	-90.26	-4,501.16	2,103.69	568.53	462.52	106.01	5.363	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 100-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	7,625.46	7,624.09	95.97	26.94	-90.23	-4,501.16	2,103.69	533.00	418.60	114.40	4.659	
14,200.00	7,630.00	7,625.26	7,623.89	97.60	26.94	-90.21	-4,501.16	2,103.69	514.73	393.28	121.45	4.238	
14,245.70	7,630.00	7,625.17	7,623.80	98.34	26.94	-90.20	-4,501.17	2,103.69	512.69	388.85	123.85	4.140	CC, ES
14,300.00	7,630.00	7,625.06	7,623.70	99.22	26.94	-90.19	-4,501.17	2,103.69	515.56	389.70	125.86	4.096	SF
14,400.00	7,630.00	7,624.87	7,623.50	100.85	26.94	-90.17	-4,501.17	2,103.69	535.41	408.28	127.13	4.212	
14,500.00	7,630.00	7,624.68	7,623.31	102.49	26.94	-90.15	-4,501.17	2,103.69	572.30	446.58	125.71	4.552	
14,600.00	7,630.00	7,624.50	7,623.13	104.13	26.94	-90.13	-4,501.17	2,103.69	623.20	500.59	122.61	5.083	
14,700.00	7,630.00	7,624.32	7,622.95	105.77	26.94	-90.11	-4,501.17	2,103.69	685.01	566.25	118.76	5.768	
14,800.00	7,630.00	7,624.14	7,622.77	107.42	26.93	-90.09	-4,501.17	2,103.69	755.05	640.26	114.79	6.578	
14,900.00	7,630.00	7,623.97	7,622.60	109.07	26.93	-90.07	-4,501.17	2,103.70	831.24	720.21	111.03	7.487	
15,000.00	7,630.00	7,623.80	7,622.43	110.72	26.93	-90.05	-4,501.17	2,103.70	912.04	804.43	107.61	8.475	
15,100.00	7,630.00	7,623.64	7,622.27	112.38	26.93	-90.03	-4,501.17	2,103.70	996.33	891.75	104.58	9.527	
15,200.00	7,630.00	7,623.47	7,622.10	114.04	26.93	-90.01	-4,501.17	2,103.70	1,083.30	981.38	101.92	10.629	
15,300.00	7,630.00	7,623.31	7,621.94	115.71	26.93	-89.99	-4,501.17	2,103.70	1,172.35	1,072.76	99.59	11.772	
15,400.00	7,630.00	7,623.16	7,621.79	117.37	26.93	-89.98	-4,501.17	2,103.70	1,263.03	1,165.48	97.55	12.948	
15,500.00	7,630.00	7,623.00	7,621.63	119.04	26.93	-89.96	-4,501.17	2,103.70	1,355.03	1,259.27	95.76	14.150	
15,600.00	7,630.00	7,622.85	7,621.48	120.71	26.93	-89.94	-4,501.17	2,103.70	1,448.09	1,353.91	94.19	15.375	
15,700.00	7,630.00	7,622.71	7,621.34	122.39	26.93	-89.93	-4,501.17	2,103.70	1,542.02	1,449.23	92.80	16.617	
15,800.00	7,630.00	7,622.56	7,621.19	124.06	26.93	-89.91	-4,501.17	2,103.70	1,636.67	1,545.11	91.56	17.875	
15,900.00	7,630.00	7,622.42	7,621.05	125.74	26.93	-89.89	-4,501.17	2,103.70	1,731.92	1,641.45	90.47	19.144	
16,000.00	7,630.00	7,622.28	7,620.91	127.42	26.93	-89.88	-4,501.17	2,103.70	1,827.68	1,738.19	89.49	20.424	
16,100.00	7,630.00	7,622.15	7,620.78	129.10	26.93	-89.86	-4,501.17	2,103.70	1,923.87	1,835.26	88.61	21.712	
16,200.00	7,630.00	7,622.01	7,620.64	130.79	26.93	-89.85	-4,501.17	2,103.70	2,020.43	1,932.61	87.82	23.008	
16,300.00	7,630.00	7,621.88	7,620.51	132.48	26.93	-89.83	-4,501.17	2,103.70	2,117.31	2,030.21	87.10	24.309	
16,400.00	7,630.00	7,621.75	7,620.38	134.17	26.93	-89.82	-4,501.17	2,103.70	2,214.46	2,128.01	86.45	25.614	
16,500.00	7,630.00	7,621.62	7,620.25	135.86	26.93	-89.80	-4,501.17	2,103.70	2,311.86	2,226.00	85.87	26.924	
16,600.00	7,630.00	7,621.50	7,620.13	137.55	26.93	-89.79	-4,501.17	2,103.70	2,409.47	2,324.14	85.33	28.237	
16,700.00	7,630.00	7,621.38	7,620.01	139.24	26.93	-89.78	-4,501.17	2,103.70	2,507.27	2,422.43	84.84	29.553	
16,800.00	7,630.00	7,621.26	7,619.89	140.94	26.92	-89.76	-4,501.17	2,103.70	2,605.24	2,520.85	84.39	30.871	
16,900.00	7,630.00	7,621.14	7,619.77	142.64	26.92	-89.75	-4,501.17	2,103.71	2,703.36	2,619.38	83.98	32.191	
17,000.00	7,630.00	7,621.02	7,619.65	144.34	26.92	-89.74	-4,501.17	2,103.71	2,801.61	2,718.00	83.60	33.512	
17,100.00	7,630.00	7,620.91	7,619.54	146.04	26.92	-89.72	-4,501.17	2,103.71	2,899.97	2,816.72	83.25	34.833	
17,200.00	7,630.00	7,620.80	7,619.43	147.74	26.92	-89.71	-4,501.17	2,103.71	2,998.45	2,915.52	82.93	36.156	
17,300.00	7,630.00	7,620.69	7,619.32	149.44	26.92	-89.70	-4,501.17	2,103.71	3,097.03	3,014.39	82.63	37.479	
17,400.00	7,630.00	7,620.58	7,619.21	151.15	26.92	-89.69	-4,501.17	2,103.71	3,195.69	3,113.33	82.36	38.802	
17,500.00	7,630.00	7,620.47	7,619.10	152.86	26.92	-89.68	-4,501.17	2,103.71	3,294.43	3,212.33	82.11	40.124	
17,600.00	7,630.00	7,620.37	7,619.00	154.56	26.92	-89.66	-4,501.17	2,103.71	3,393.25	3,311.38	81.87	41.447	
17,700.00	7,630.00	7,620.26	7,618.89	156.27	26.92	-89.65	-4,501.17	2,103.71	3,492.13	3,410.48	81.65	42.769	
17,800.00	7,630.00	7,620.16	7,618.79	157.98	26.92	-89.64	-4,501.17	2,103.71	3,591.08	3,509.63	81.45	44.091	
17,900.00	7,630.00	7,620.06	7,618.69	159.70	26.92	-89.63	-4,501.17	2,103.71	3,690.08	3,608.83	81.26	45.412	
18,000.00	7,630.00	7,619.96	7,618.59	161.41	26.92	-89.62	-4,501.17	2,103.71	3,789.14	3,708.06	81.08	46.732	
18,100.00	7,630.00	7,619.86	7,618.49	163.12	26.92	-89.61	-4,501.17	2,103.71	3,888.24	3,807.32	80.92	48.051	
18,154.00	7,630.00	7,619.81	7,618.44	164.05	26.92	-89.60	-4,501.17	2,103.71	3,941.78	3,860.95	80.84	48.763	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	16.00	16.00	0.00	0.12	163.03	-7,180.75	2,191.93	7,507.85				
100.00	100.00	116.00	116.00	0.13	1.06	163.03	-7,180.75	2,191.93	7,507.85	7,506.66	1.19	6,307.250	
200.00	200.00	216.00	216.00	0.49	2.80	163.03	-7,180.75	2,191.93	7,507.85	7,504.55	3.29	2,279.144	
300.00	300.00	316.00	316.00	0.85	4.55	163.03	-7,180.75	2,191.93	7,507.85	7,502.45	5.40	1,390.869	
400.00	400.00	416.00	416.00	1.21	6.29	163.03	-7,180.75	2,191.93	7,507.85	7,500.35	7.50	1,000.812	
500.00	500.00	516.00	516.00	1.57	8.04	163.03	-7,180.75	2,191.93	7,507.85	7,498.24	9.61	781.615	
600.00	600.00	616.00	616.00	1.93	9.78	163.03	-7,180.75	2,191.93	7,507.85	7,496.14	11.71	641.184	
700.00	700.00	716.00	716.00	2.29	11.53	163.03	-7,180.75	2,191.93	7,507.85	7,494.04	13.81	543.529	
800.00	800.00	816.00	816.00	2.64	13.27	163.03	-7,180.75	2,191.93	7,507.85	7,491.93	15.92	471.689	
900.00	900.00	916.00	916.00	3.00	15.02	163.03	-7,180.75	2,191.93	7,507.85	7,489.83	18.02	416.622	
1,000.00	1,000.00	1,016.00	1,016.00	3.36	16.76	163.03	-7,180.75	2,191.93	7,507.85	7,487.72	20.12	373.069	
1,100.00	1,100.00	1,116.00	1,116.00	3.72	18.51	163.03	-7,180.75	2,191.93	7,507.85	7,485.62	22.23	337.760	
1,200.00	1,200.00	1,216.00	1,216.00	4.08	20.25	163.03	-7,180.75	2,191.93	7,507.85	7,483.52	24.33	308.557	
1,300.00	1,300.00	1,316.00	1,316.00	4.44	22.00	163.03	-7,180.75	2,191.93	7,507.85	7,481.41	26.44	284.001	
1,400.00	1,400.00	1,416.00	1,416.00	4.79	23.75	163.03	-7,180.75	2,191.93	7,507.85	7,479.31	28.54	263.066	
1,500.00	1,499.98	1,515.98	1,515.98	5.15	25.49	125.21	-7,180.75	2,191.93	7,508.85	7,478.21	30.64	245.055	
1,600.00	1,599.84	1,615.84	1,615.84	5.51	27.23	125.20	-7,180.75	2,191.93	7,511.87	7,479.13	32.74	229.437	
1,700.00	1,699.45	1,715.45	1,715.45	5.87	28.97	125.17	-7,180.75	2,191.93	7,516.91	7,482.07	34.84	215.770	
1,800.00	1,798.70	1,814.70	1,814.70	6.23	30.70	125.13	-7,180.75	2,191.93	7,523.96	7,487.03	36.93	203.721	
1,900.00	1,897.47	1,913.47	1,913.47	6.60	32.43	125.08	-7,180.75	2,191.93	7,533.03	7,494.01	39.03	193.026	
2,000.00	1,995.62	2,011.62	2,011.62	6.99	34.14	125.01	-7,180.75	2,191.93	7,544.12	7,503.01	41.12	183.473	
2,100.00	2,093.06	2,109.06	2,109.06	7.39	35.84	124.93	-7,180.75	2,191.93	7,557.24	7,514.03	43.21	174.891	
2,200.00	2,189.64	2,205.64	2,205.64	7.82	37.53	124.84	-7,180.75	2,191.93	7,572.39	7,527.09	45.31	167.141	
2,300.00	2,285.27	2,301.27	2,301.27	8.28	39.20	124.73	-7,180.75	2,191.93	7,589.57	7,542.17	47.40	160.110	
2,400.00	2,379.82	2,404.18	2,395.82	8.77	40.99	124.60	-7,180.75	2,191.93	7,608.79	7,559.14	49.65	153.252	
2,500.00	2,473.17	2,489.17	2,489.17	9.31	42.48	124.45	-7,180.75	2,191.93	7,630.05	7,578.44	51.61	147.847	
2,600.00	2,565.21	2,581.21	2,581.21	9.88	44.08	124.28	-7,180.75	2,191.93	7,653.36	7,599.64	53.72	142.473	
2,660.67	2,620.37	2,636.37	2,636.37	10.25	45.04	124.17	-7,180.75	2,191.93	7,668.49	7,613.49	55.00	139.425	
2,700.00	2,655.96	2,671.96	2,671.96	10.50	45.67	124.27	-7,180.75	2,191.93	7,678.56	7,622.73	55.83	137.525	
2,800.00	2,746.43	2,762.43	2,762.43	11.15	47.24	124.51	-7,180.75	2,191.93	7,704.26	7,646.30	57.96	132.918	
2,900.00	2,836.90	2,852.90	2,852.90	11.82	48.82	124.76	-7,180.75	2,191.93	7,730.11	7,670.01	60.11	128.609	
3,000.00	2,927.37	2,943.37	2,943.37	12.50	50.40	125.00	-7,180.75	2,191.93	7,756.11	7,693.85	62.26	124.576	
3,100.00	3,017.85	3,033.85	3,033.85	13.21	51.98	125.24	-7,180.75	2,191.93	7,782.26	7,717.84	64.42	120.797	
3,200.00	3,108.32	3,124.32	3,124.32	13.92	53.56	125.48	-7,180.75	2,191.93	7,808.55	7,741.96	66.60	117.252	
3,300.00	3,198.79	3,214.79	3,214.79	14.64	55.14	125.72	-7,180.75	2,191.93	7,834.99	7,766.21	68.77	113.923	
3,400.00	3,289.27	3,305.27	3,305.27	15.38	56.72	125.96	-7,180.75	2,191.93	7,861.56	7,790.60	70.96	110.791	
3,500.00	3,379.74	3,404.26	3,395.74	16.12	58.45	126.19	-7,180.75	2,191.93	7,888.28	7,814.98	73.29	107.624	
3,600.00	3,470.21	3,486.21	3,486.21	16.87	59.88	126.42	-7,180.75	2,191.93	7,915.14	7,839.80	75.34	105.063	
3,700.00	3,560.68	3,576.68	3,576.68	17.62	61.46	126.66	-7,180.75	2,191.93	7,942.13	7,864.60	77.53	102.438	
3,800.00	3,651.16	3,667.16	3,667.16	18.39	63.04	126.89	-7,180.75	2,191.93	7,969.26	7,889.53	79.73	99.957	
3,900.00	3,741.63	3,757.63	3,757.63	19.15	64.61	127.12	-7,180.75	2,191.93	7,996.52	7,914.60	81.92	97.609	
4,000.00	3,832.10	3,848.10	3,848.10	19.92	66.19	127.35	-7,180.75	2,191.93	8,023.92	7,939.80	84.12	95.384	
4,100.00	3,922.57	3,938.57	3,938.57	20.69	67.77	127.57	-7,180.75	2,191.93	8,051.45	7,965.13	86.32	93.273	
4,200.00	4,013.05	4,029.05	4,029.05	21.47	69.35	127.80	-7,180.75	2,191.93	8,079.11	7,990.59	88.52	91.268	
4,300.00	4,103.52	4,119.52	4,119.52	22.25	70.93	128.02	-7,180.75	2,191.93	8,106.91	8,016.18	90.72	89.361	
4,400.00	4,193.99	4,209.99	4,209.99	23.03	72.51	128.25	-7,180.75	2,191.93	8,134.82	8,041.90	92.92	87.547	
4,500.00	4,284.47	4,300.47	4,300.47	23.81	74.09	128.47	-7,180.75	2,191.93	8,162.87	8,067.75	95.12	85.818	
4,600.00	4,374.94	4,409.06	4,390.94	24.60	75.98	128.69	-7,180.75	2,191.93	8,191.04	8,093.41	97.63	83.896	
4,700.00	4,465.41	4,481.41	4,481.41	25.39	77.25	128.91	-7,180.75	2,191.93	8,219.34	8,119.82	99.51	82.594	
4,800.00	4,555.88	4,571.88	4,571.88	26.18	78.83	129.12	-7,180.75	2,191.93	8,247.76	8,146.04	101.71	81.090	
4,900.00	4,646.36	4,662.36	4,662.36	26.97	80.40	129.34	-7,180.75	2,191.93	8,276.30	8,172.39	103.91	79.651	
5,000.00	4,736.83	4,752.83	4,752.83	27.76	81.98	129.55	-7,180.75	2,191.93	8,304.96	8,198.85	106.10	78.274	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,827.30	4,843.30	4,843.30	28.55	83.56	129.77	-7,180.75	2,191.93	8,333.74	8,225.44	108.30	76.954	
5,200.00	4,917.77	4,933.77	4,933.77	29.35	85.14	129.98	-7,180.75	2,191.93	8,362.63	8,252.15	110.49	75.689	
5,300.00	5,008.25	5,024.25	5,024.25	30.15	86.72	130.19	-7,180.75	2,191.93	8,391.65	8,278.97	112.68	74.475	
5,400.00	5,098.72	5,114.72	5,114.72	30.94	88.30	130.40	-7,180.75	2,191.93	8,420.78	8,305.91	114.87	73.309	
5,500.00	5,189.19	5,205.19	5,205.19	31.74	89.88	130.61	-7,180.75	2,191.93	8,450.02	8,332.97	117.06	72.188	
5,600.00	5,279.67	5,304.33	5,295.67	32.54	91.61	130.81	-7,180.75	2,191.93	8,479.38	8,359.99	119.39	71.021	
5,700.00	5,370.14	5,386.14	5,386.14	33.34	93.04	131.02	-7,180.75	2,191.93	8,508.85	8,387.42	121.43	70.074	
5,800.00	5,460.61	5,476.61	5,476.61	34.14	94.62	131.22	-7,180.75	2,191.93	8,538.43	8,414.82	123.61	69.076	
5,900.00	5,551.08	5,567.08	5,567.08	34.94	96.20	131.43	-7,180.75	2,191.93	8,568.12	8,442.33	125.79	68.114	
6,000.00	5,641.56	5,657.56	5,657.56	35.75	97.77	131.63	-7,180.75	2,191.93	8,597.92	8,469.95	127.97	67.186	
6,100.00	5,732.03	5,748.03	5,748.03	36.55	99.35	131.83	-7,180.75	2,191.93	8,627.82	8,497.67	130.15	66.292	
6,200.00	5,822.50	5,838.50	5,838.50	37.35	100.93	132.03	-7,180.75	2,191.93	8,657.84	8,525.51	132.33	65.428	
6,300.00	5,912.97	5,928.97	5,928.97	38.16	102.51	132.23	-7,180.75	2,191.93	8,687.95	8,553.45	134.50	64.594	
6,400.00	6,003.45	6,019.45	6,019.45	38.96	104.09	132.42	-7,180.75	2,191.93	8,718.18	8,581.50	136.67	63.788	
6,500.00	6,093.92	6,109.92	6,109.92	39.77	105.67	132.62	-7,180.75	2,191.93	8,748.50	8,609.65	138.85	63.009	
6,600.00	6,184.39	6,200.39	6,200.39	40.57	107.25	132.81	-7,180.75	2,191.93	8,778.93	8,637.91	141.02	62.255	
6,700.00	6,274.87	6,309.13	6,290.87	41.38	109.15	133.01	-7,180.75	2,191.93	8,809.45	8,665.95	143.50	61.389	
6,800.00	6,365.34	6,381.34	6,381.34	42.18	110.41	133.20	-7,180.75	2,191.93	8,840.08	8,694.73	145.35	60.819	
6,900.00	6,455.81	6,471.81	6,471.81	42.99	111.99	133.39	-7,180.75	2,191.93	8,870.81	8,723.29	147.51	60.135	
7,000.00	6,546.28	6,562.28	6,562.28	43.80	113.56	133.58	-7,180.75	2,191.93	8,901.63	8,751.95	149.68	59.472	
7,100.00	6,636.76	6,652.76	6,652.76	44.61	115.14	133.77	-7,180.75	2,191.93	8,932.55	8,780.71	151.84	58.829	
7,200.00	6,727.23	6,743.23	6,743.23	45.41	116.72	133.95	-7,180.75	2,191.93	8,963.57	8,809.57	154.00	58.206	
7,300.00	6,817.70	6,833.70	6,833.70	46.22	118.30	134.14	-7,180.75	2,191.93	8,994.68	8,838.52	156.16	57.601	
7,383.79	6,893.51	6,909.51	6,909.51	46.90	119.62	134.29	-7,180.75	2,191.93	9,020.82	8,862.86	157.96	57.107	
7,400.00	6,908.25	6,924.25	6,924.25	47.03	119.88	132.02	-7,180.75	2,191.93	9,025.67	8,867.35	158.31	57.012	
7,450.00	6,954.52	6,970.52	6,970.52	47.40	120.69	123.26	-7,180.75	2,191.93	9,037.86	8,878.46	159.40	56.698	
7,500.00	7,001.74	7,017.74	7,017.74	47.72	121.51	111.27	-7,180.75	2,191.93	9,045.82	8,885.32	160.50	56.360	
7,550.00	7,049.55	7,065.55	7,065.55	47.99	122.35	95.92	-7,180.75	2,191.93	9,049.49	8,887.90	161.60	56.000	
7,600.00	7,097.58	7,113.58	7,113.58	48.21	123.19	78.76	-7,180.75	2,191.93	9,048.84	8,886.16	162.68	55.624	
7,650.00	7,145.48	7,161.48	7,161.48	48.37	124.02	62.70	-7,180.75	2,191.93	9,043.87	8,880.13	163.74	55.234	
7,700.00	7,192.88	7,208.88	7,208.88	48.48	124.85	49.73	-7,180.75	2,191.93	9,034.61	8,869.85	164.76	54.835	
7,750.00	7,239.41	7,255.41	7,255.41	48.54	125.66	40.03	-7,180.75	2,191.93	9,021.15	8,855.40	165.75	54.427	
7,800.00	7,284.72	7,300.72	7,300.72	48.56	126.45	32.89	-7,180.75	2,191.93	9,003.56	8,836.87	166.69	54.014	
7,850.00	7,328.47	7,344.47	7,344.47	48.54	127.22	27.58	-7,180.75	2,191.93	8,981.99	8,814.41	167.58	53.597	
7,900.00	7,370.32	7,386.32	7,386.32	48.47	127.95	23.51	-7,180.75	2,191.93	8,956.60	8,788.18	168.43	53.179	
7,950.00	7,409.96	7,425.96	7,425.96	48.37	128.64	20.30	-7,180.75	2,191.93	8,927.58	8,758.37	169.21	52.761	
8,000.00	7,447.08	7,463.08	7,463.08	48.24	129.29	17.67	-7,180.75	2,191.93	8,895.14	8,725.22	169.93	52.347	
8,050.00	7,481.41	7,502.59	7,497.41	48.07	129.98	15.42	-7,180.75	2,191.93	8,859.54	8,688.86	170.67	51.910	
8,100.00	7,512.67	7,528.67	7,528.67	47.87	130.43	13.39	-7,180.75	2,191.93	8,821.03	8,649.86	171.17	51.535	
8,150.00	7,540.64	7,556.64	7,556.64	47.65	130.92	11.43	-7,180.75	2,191.93	8,779.91	8,608.23	171.68	51.142	
8,200.00	7,565.09	7,581.09	7,581.09	47.40	131.35	9.35	-7,180.75	2,191.93	8,736.49	8,564.38	172.12	50.759	
8,250.00	7,585.85	7,601.85	7,601.85	47.14	131.71	6.89	-7,180.75	2,191.93	8,691.10	8,518.62	172.48	50.389	
8,300.00	7,602.75	7,618.75	7,618.75	46.86	132.00	3.55	-7,180.75	2,191.93	8,644.09	8,471.32	172.76	50.034	
8,350.00	7,615.67	7,631.67	7,631.67	46.58	132.23	-1.92	-7,180.75	2,191.93	8,595.80	8,422.83	172.97	49.695	
8,400.00	7,624.51	7,640.51	7,640.51	46.28	132.38	-13.43	-7,180.75	2,191.93	8,546.62	8,373.51	173.10	49.373	
8,450.00	7,629.19	7,645.19	7,645.19	45.98	132.47	-47.63	-7,180.75	2,191.93	8,496.90	8,323.74	173.16	49.071	
8,481.00	7,630.00	7,646.00	7,646.00	45.79	132.48	-90.00	-7,180.75	2,191.93	8,465.98	8,292.83	173.15	48.893	
8,500.00	7,630.00	7,646.00	7,646.00	45.68	132.48	-90.00	-7,180.75	2,191.93	8,447.03	8,273.89	173.14	48.787	
8,600.00	7,630.00	7,646.00	7,646.00	45.11	132.48	-90.00	-7,180.75	2,191.93	8,347.29	8,174.21	173.08	48.228	
8,700.00	7,630.00	7,646.00	7,646.00	44.56	132.48	-90.00	-7,180.75	2,191.93	8,247.56	8,074.55	173.02	47.669	
8,800.00	7,630.00	7,646.00	7,646.00	44.05	132.48	-90.00	-7,180.75	2,191.93	8,147.84	7,974.89	172.95	47.110	
8,900.00	7,630.00	7,646.00	7,646.00	43.57	132.48	-90.00	-7,180.75	2,191.93	8,048.13	7,875.23	172.89	46.550	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,000.00	7,630.00	7,646.00	7,646.00	43.12	132.48	-90.00	-7,180.75	2,191.93	7,948.42	7,775.59	172.83	45.990	
9,100.00	7,630.00	7,646.00	7,646.00	42.70	132.48	-90.00	-7,180.75	2,191.93	7,848.72	7,675.95	172.76	45.430	
9,200.00	7,630.00	7,646.00	7,646.00	42.31	132.48	-90.00	-7,180.75	2,191.93	7,749.02	7,576.32	172.70	44.870	
9,300.00	7,630.00	7,646.00	7,646.00	41.94	132.48	-90.00	-7,180.75	2,191.93	7,649.34	7,476.70	172.63	44.309	
9,400.00	7,630.00	7,646.00	7,646.00	41.59	132.48	-90.00	-7,180.75	2,191.93	7,549.66	7,377.09	172.57	43.749	
9,500.00	7,630.00	7,646.00	7,646.00	41.26	132.48	-90.00	-7,180.75	2,191.93	7,449.99	7,277.49	172.50	43.188	
9,600.00	7,630.00	7,646.00	7,646.00	40.96	132.48	-90.00	-7,180.75	2,191.93	7,350.33	7,177.89	172.44	42.626	
9,700.00	7,630.00	7,646.00	7,646.00	40.68	132.48	-90.00	-7,180.75	2,191.93	7,250.68	7,078.31	172.37	42.065	
9,800.00	7,630.00	7,646.00	7,646.00	40.42	132.48	-90.00	-7,180.75	2,191.93	7,151.04	6,978.74	172.30	41.503	
9,900.00	7,630.00	7,646.00	7,646.00	40.17	132.48	-90.00	-7,180.75	2,191.93	7,051.41	6,879.18	172.23	40.941	
10,000.00	7,630.00	7,646.00	7,646.00	39.96	132.48	-90.00	-7,180.75	2,191.93	6,951.79	6,779.63	172.16	40.379	
10,100.00	7,630.00	7,646.00	7,646.00	40.05	132.48	-90.00	-7,180.75	2,191.93	6,852.18	6,680.09	172.09	39.817	
10,200.00	7,630.00	7,646.00	7,646.00	40.95	132.48	-90.00	-7,180.75	2,191.93	6,752.58	6,580.56	172.02	39.254	
10,300.00	7,630.00	7,646.00	7,646.00	41.94	132.48	-90.00	-7,180.75	2,191.93	6,653.00	6,481.05	171.95	38.692	
10,400.00	7,630.00	7,646.00	7,646.00	42.98	132.48	-90.00	-7,180.75	2,191.93	6,553.43	6,381.55	171.88	38.129	
10,500.00	7,630.00	7,646.00	7,646.00	44.06	132.48	-90.00	-7,180.75	2,191.93	6,453.87	6,282.06	171.80	37.565	
10,600.00	7,630.00	7,646.00	7,646.00	45.17	132.48	-90.00	-7,180.75	2,191.93	6,354.32	6,182.59	171.73	37.002	
10,700.00	7,630.00	7,646.00	7,646.00	46.32	132.48	-90.00	-7,180.75	2,191.93	6,254.79	6,083.14	171.65	36.438	
10,800.00	7,630.00	7,646.00	7,646.00	47.50	132.48	-90.00	-7,180.75	2,191.93	6,155.28	5,983.70	171.58	35.875	
10,900.00	7,630.00	7,646.00	7,646.00	48.70	132.48	-90.00	-7,180.75	2,191.93	6,055.78	5,884.28	171.50	35.311	
11,000.00	7,630.00	7,646.00	7,646.00	49.94	132.48	-90.00	-7,180.75	2,191.93	5,956.29	5,784.87	171.42	34.746	
11,100.00	7,630.00	7,646.00	7,646.00	51.20	132.48	-90.00	-7,180.75	2,191.93	5,856.83	5,685.48	171.34	34.182	
11,200.00	7,630.00	7,646.00	7,646.00	52.48	132.48	-90.00	-7,180.75	2,191.93	5,757.38	5,586.12	171.26	33.617	
11,300.00	7,630.00	7,646.00	7,646.00	53.79	132.48	-90.00	-7,180.75	2,191.93	5,657.95	5,486.77	171.18	33.052	
11,400.00	7,630.00	7,646.00	7,646.00	55.12	132.48	-90.00	-7,180.75	2,191.93	5,558.55	5,387.45	171.10	32.487	
11,500.00	7,630.00	7,646.00	7,646.00	56.46	132.48	-90.00	-7,180.75	2,191.93	5,459.16	5,288.14	171.02	31.921	
11,600.00	7,630.00	7,646.00	7,646.00	57.83	132.48	-90.00	-7,180.75	2,191.93	5,359.80	5,188.86	170.94	31.356	
11,700.00	7,630.00	7,646.00	7,646.00	59.22	132.48	-90.00	-7,180.75	2,191.93	5,260.46	5,089.61	170.85	30.790	
11,800.00	7,630.00	7,646.00	7,646.00	60.62	132.48	-90.00	-7,180.75	2,191.93	5,161.15	4,990.38	170.77	30.224	
11,900.00	7,630.00	7,646.00	7,646.00	62.04	132.48	-90.00	-7,180.75	2,191.93	5,061.86	4,891.18	170.68	29.657	
12,000.00	7,630.00	7,646.00	7,646.00	63.48	132.48	-90.00	-7,180.75	2,191.93	4,962.61	4,792.01	170.59	29.090	
12,100.00	7,630.00	7,646.00	7,646.00	64.93	132.48	-90.00	-7,180.75	2,191.93	4,863.38	4,692.88	170.51	28.523	
12,200.00	7,630.00	7,646.00	7,646.00	66.39	132.48	-90.00	-7,180.75	2,191.93	4,764.19	4,593.77	170.42	27.956	
12,300.00	7,630.00	7,646.00	7,646.00	67.86	132.48	-90.00	-7,180.75	2,191.93	4,665.03	4,494.70	170.33	27.388	
12,400.00	7,630.00	7,646.00	7,646.00	69.35	132.48	-90.00	-7,180.75	2,191.93	4,565.91	4,395.66	170.24	26.820	
12,500.00	7,630.00	7,646.00	7,646.00	70.85	132.48	-90.00	-7,180.75	2,191.93	4,466.82	4,296.66	170.16	26.251	
12,600.00	7,630.00	7,646.00	7,646.00	72.36	132.48	-90.00	-7,180.75	2,191.93	4,367.78	4,197.71	170.07	25.682	
12,700.00	7,630.00	7,646.00	7,646.00	73.88	132.48	-90.00	-7,180.75	2,191.93	4,268.78	4,098.80	169.99	25.113	
12,800.00	7,630.00	7,646.00	7,646.00	75.41	132.48	-90.00	-7,180.75	2,191.93	4,169.83	3,999.93	169.90	24.543	
12,900.00	7,630.00	7,646.00	7,646.00	76.95	132.48	-90.00	-7,180.75	2,191.93	4,070.94	3,901.12	169.82	23.972	
13,000.00	7,630.00	7,646.00	7,646.00	78.49	132.48	-90.00	-7,180.75	2,191.93	3,972.09	3,802.35	169.74	23.401	
13,100.00	7,630.00	7,646.00	7,646.00	80.05	132.48	-90.00	-7,180.75	2,191.93	3,873.31	3,703.65	169.66	22.829	
13,200.00	7,630.00	7,646.00	7,646.00	81.61	132.48	-90.00	-7,180.75	2,191.93	3,774.59	3,605.00	169.59	22.257	
13,300.00	7,630.00	7,646.00	7,646.00	83.18	132.48	-90.00	-7,180.75	2,191.93	3,675.94	3,506.42	169.52	21.684	
13,400.00	7,630.00	7,646.00	7,646.00	84.76	132.48	-90.00	-7,180.75	2,191.93	3,577.37	3,407.90	169.46	21.110	
13,500.00	7,630.00	7,646.00	7,646.00	86.34	132.48	-90.00	-7,180.75	2,191.93	3,478.87	3,309.46	169.41	20.535	
13,600.00	7,630.00	7,646.00	7,646.00	87.94	132.48	-90.00	-7,180.75	2,191.93	3,380.47	3,211.10	169.37	19.959	
13,700.00	7,630.00	7,646.00	7,646.00	89.53	132.48	-90.00	-7,180.75	2,191.93	3,282.16	3,112.82	169.34	19.382	
13,800.00	7,630.00	7,646.00	7,646.00	91.13	132.48	-90.00	-7,180.75	2,191.93	3,183.95	3,014.63	169.32	18.804	
13,900.00	7,630.00	7,646.00	7,646.00	92.74	132.48	-90.00	-7,180.75	2,191.93	3,085.87	2,916.54	169.33	18.224	
14,000.00	7,630.00	7,646.00	7,646.00	94.35	132.48	-90.00	-7,180.75	2,191.93	2,987.90	2,818.56	169.35	17.643	
14,100.00	7,630.00	7,646.00	7,646.00	95.97	132.48	-90.00	-7,180.75	2,191.93	2,890.08	2,720.68	169.40	17.061	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,630.00	7,646.00	7,646.00	97.60	132.48	-90.00	-7,180.75	2,191.93	2,792.42	2,622.94	169.48	16.476	
14,300.00	7,630.00	7,646.00	7,646.00	99.22	132.48	-90.00	-7,180.75	2,191.93	2,694.92	2,525.32	169.60	15.890	
14,400.00	7,630.00	7,646.00	7,646.00	100.85	132.48	-90.00	-7,180.75	2,191.93	2,597.61	2,427.85	169.76	15.302	
14,500.00	7,630.00	7,646.00	7,646.00	102.49	132.48	-90.00	-7,180.75	2,191.93	2,500.52	2,330.54	169.98	14.711	
14,600.00	7,630.00	7,646.00	7,646.00	104.13	132.48	-90.00	-7,180.75	2,191.93	2,403.66	2,233.40	170.26	14.118	
14,700.00	7,630.00	7,646.00	7,646.00	105.77	132.48	-90.00	-7,180.75	2,191.93	2,307.08	2,136.46	170.62	13.522	
14,800.00	7,630.00	7,646.00	7,646.00	107.42	132.48	-90.00	-7,180.75	2,191.93	2,210.79	2,039.72	171.08	12.923	
14,900.00	7,630.00	7,646.00	7,646.00	109.07	132.48	-90.00	-7,180.75	2,191.93	2,114.86	1,943.21	171.64	12.321	
15,000.00	7,630.00	7,646.00	7,646.00	110.72	132.48	-90.00	-7,180.75	2,191.93	2,019.31	1,846.96	172.35	11.716	
15,100.00	7,630.00	7,646.00	7,646.00	112.38	132.48	-90.00	-7,180.75	2,191.93	1,924.22	1,751.00	173.22	11.109	
15,200.00	7,630.00	7,646.00	7,646.00	114.04	132.48	-90.00	-7,180.75	2,191.93	1,829.65	1,655.37	174.28	10.498	
15,300.00	7,630.00	7,646.00	7,646.00	115.71	132.48	-90.00	-7,180.75	2,191.93	1,735.69	1,560.11	175.58	9.885	
15,400.00	7,630.00	7,646.00	7,646.00	117.37	132.48	-90.00	-7,180.75	2,191.93	1,642.45	1,465.29	177.16	9.271	
15,500.00	7,630.00	7,646.00	7,646.00	119.04	132.48	-90.00	-7,180.75	2,191.93	1,550.05	1,370.97	179.08	8.656	
15,600.00	7,630.00	7,646.00	7,646.00	120.71	132.48	-90.00	-7,180.75	2,191.93	1,458.65	1,277.25	181.40	8.041	
15,700.00	7,630.00	7,646.00	7,646.00	122.39	132.48	-90.00	-7,180.75	2,191.93	1,368.45	1,184.26	184.19	7.429	
15,800.00	7,630.00	7,646.00	7,646.00	124.06	132.48	-90.00	-7,180.75	2,191.93	1,279.71	1,092.16	187.56	6.823	
15,900.00	7,630.00	7,646.00	7,646.00	125.74	132.48	-90.00	-7,180.75	2,191.93	1,192.76	1,001.17	191.58	6.226	
16,000.00	7,630.00	7,646.00	7,646.00	127.42	132.48	-90.00	-7,180.75	2,191.93	1,108.00	911.61	196.39	5.642	
16,100.00	7,630.00	7,646.00	7,646.00	129.10	132.48	-90.00	-7,180.75	2,191.93	1,026.00	823.90	202.10	5.077	
16,200.00	7,630.00	7,646.00	7,646.00	130.79	132.48	-90.00	-7,180.75	2,191.93	947.46	738.62	208.84	4.537	
16,300.00	7,630.00	7,646.00	7,646.00	132.48	132.48	-90.00	-7,180.75	2,191.93	873.32	656.62	216.70	4.030	
16,400.00	7,630.00	7,646.00	7,646.00	134.17	132.48	-90.00	-7,180.75	2,191.93	804.79	579.10	225.70	3.566	
16,500.00	7,630.00	7,646.00	7,646.00	135.86	132.48	-90.00	-7,180.75	2,191.93	743.44	507.72	235.72	3.154	
16,600.00	7,630.00	7,646.00	7,646.00	137.55	132.48	-90.00	-7,180.75	2,191.93	691.16	444.78	246.38	2.805	
16,700.00	7,630.00	7,646.00	7,646.00	139.24	132.48	-90.00	-7,180.75	2,191.93	650.16	393.21	256.94	2.530	
16,800.00	7,630.00	7,646.00	7,646.00	140.94	132.48	-90.00	-7,180.75	2,191.93	622.66	356.36	266.31	2.338	
16,900.00	7,630.00	7,646.00	7,646.00	142.64	132.48	-90.00	-7,180.75	2,191.93	610.50	337.27	273.23	2.234	
16,924.98	7,630.00	7,646.00	7,646.00	143.06	132.48	-90.00	-7,180.75	2,191.93	609.99	335.53	274.46	2.223	CC, ES
17,000.00	7,630.00	7,646.00	7,646.00	144.34	132.48	-90.00	-7,180.75	2,191.93	614.59	337.77	276.82	2.220	SF
17,100.00	7,630.00	7,646.00	7,646.00	146.04	132.48	-90.00	-7,180.75	2,191.93	634.61	357.71	276.90	2.292	
17,200.00	7,630.00	7,646.00	7,646.00	147.74	132.48	-90.00	-7,180.75	2,191.93	669.13	395.07	274.06	2.442	
17,300.00	7,630.00	7,646.00	7,646.00	149.44	132.48	-90.00	-7,180.75	2,191.93	716.06	446.77	269.28	2.659	
17,400.00	7,630.00	7,646.00	7,646.00	151.15	132.48	-90.00	-7,180.75	2,191.93	773.14	509.62	263.51	2.934	
17,500.00	7,630.00	7,646.00	7,646.00	152.86	132.48	-90.00	-7,180.75	2,191.93	838.30	580.84	257.46	3.256	
17,600.00	7,630.00	7,646.00	7,646.00	154.56	132.48	-90.00	-7,180.75	2,191.93	909.81	658.26	251.55	3.617	
17,700.00	7,630.00	7,646.00	7,646.00	156.27	132.48	-90.00	-7,180.75	2,191.93	986.28	740.26	246.03	4.009	
17,800.00	7,630.00	7,646.00	7,646.00	157.98	132.48	-90.00	-7,180.75	2,191.93	1,066.66	825.68	240.98	4.426	
17,900.00	7,630.00	7,646.00	7,646.00	159.70	132.48	-90.00	-7,180.75	2,191.93	1,150.12	913.68	236.44	4.864	
18,000.00	7,630.00	7,646.00	7,646.00	161.41	132.48	-90.00	-7,180.75	2,191.93	1,236.03	1,003.66	232.37	5.319	
18,100.00	7,630.00	7,646.00	7,646.00	163.12	132.48	-90.00	-7,180.75	2,191.93	1,323.92	1,095.19	228.73	5.788	
18,154.00	7,630.00	7,646.00	7,646.00	164.05	132.48	-90.00	-7,180.75	2,191.93	1,372.08	1,145.15	226.93	6.046	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	139.98	-6,863.97	5,764.61	8,963.59				
100.00	100.00	67.00	67.00	0.13	0.53	139.98	-6,863.97	5,764.61	8,963.53	8,962.87	0.66	N/A	
200.00	200.00	167.00	167.00	0.49	1.95	139.98	-6,863.97	5,764.61	8,963.53	8,961.08	2.45	3,662.068	
300.00	300.00	267.00	267.00	0.85	3.70	139.98	-6,863.97	5,764.61	8,963.53	8,958.98	4.55	1,969.370	
400.00	400.00	367.00	367.00	1.21	5.45	139.98	-6,863.97	5,764.61	8,963.53	8,956.87	6.66	1,346.832	
500.00	500.00	467.00	467.00	1.57	7.19	139.98	-6,863.97	5,764.61	8,963.53	8,954.77	8.76	1,023.342	
600.00	600.00	567.00	567.00	1.93	8.94	139.98	-6,863.97	5,764.61	8,963.53	8,952.67	10.86	825.153	
700.00	700.00	667.00	667.00	2.29	10.68	139.98	-6,863.97	5,764.61	8,963.53	8,950.56	12.97	691.274	
800.00	800.00	767.00	767.00	2.64	12.43	139.98	-6,863.97	5,764.61	8,963.53	8,948.46	15.07	594.774	
900.00	900.00	867.00	867.00	3.00	14.17	139.98	-6,863.97	5,764.61	8,963.53	8,946.35	17.17	521.916	
1,000.00	1,000.00	967.00	967.00	3.36	15.92	139.98	-6,863.97	5,764.61	8,963.53	8,944.25	19.28	464.960	
1,100.00	1,100.00	1,067.00	1,067.00	3.72	17.66	139.98	-6,863.97	5,764.61	8,963.53	8,942.15	21.38	419.211	
1,200.00	1,200.00	1,167.00	1,167.00	4.08	19.41	139.98	-6,863.97	5,764.61	8,963.53	8,940.04	23.49	381.659	
1,300.00	1,300.00	1,267.00	1,267.00	4.44	21.15	139.98	-6,863.97	5,764.61	8,963.53	8,937.94	25.59	350.282	
1,400.00	1,400.00	1,367.00	1,367.00	4.79	22.90	139.98	-6,863.97	5,764.61	8,963.53	8,935.84	27.69	323.672	
1,500.00	1,499.98	1,466.98	1,466.98	5.15	24.64	102.17	-6,863.97	5,764.61	8,963.90	8,934.10	29.79	300.855	
1,600.00	1,599.84	1,566.84	1,566.84	5.51	26.39	102.18	-6,863.97	5,764.61	8,965.00	8,933.11	31.89	281.097	
1,700.00	1,699.45	1,666.45	1,666.45	5.87	28.13	102.20	-6,863.97	5,764.61	8,966.85	8,932.86	33.99	263.813	
1,800.00	1,798.70	1,765.70	1,765.70	6.23	29.86	102.23	-6,863.97	5,764.61	8,969.45	8,933.36	36.09	248.562	
1,900.00	1,897.47	1,864.47	1,864.47	6.60	31.58	102.26	-6,863.97	5,764.61	8,972.80	8,934.62	38.18	235.000	
2,000.00	1,995.62	1,962.62	1,962.62	6.99	33.29	102.29	-6,863.97	5,764.61	8,976.93	8,936.65	40.28	222.853	
2,100.00	2,093.06	2,060.06	2,060.06	7.39	34.99	102.33	-6,863.97	5,764.61	8,981.85	8,939.46	42.39	211.899	
2,200.00	2,189.64	2,156.64	2,156.64	7.82	36.68	102.38	-6,863.97	5,764.61	8,987.58	8,943.07	44.50	201.964	
2,300.00	2,285.27	2,252.27	2,252.27	8.28	38.35	102.42	-6,863.97	5,764.61	8,994.13	8,947.50	46.63	192.901	
2,400.00	2,379.82	2,346.82	2,346.82	8.77	40.00	102.47	-6,863.97	5,764.61	9,001.53	8,952.77	48.76	184.596	
2,500.00	2,473.17	2,440.17	2,440.17	9.31	41.63	102.52	-6,863.97	5,764.61	9,009.81	8,958.89	50.92	176.951	
2,600.00	2,565.21	2,532.21	2,532.21	9.88	43.24	102.56	-6,863.97	5,764.61	9,018.99	8,965.90	53.09	169.887	
2,660.67	2,620.37	2,587.37	2,587.37	10.25	44.20	102.59	-6,863.97	5,764.61	9,025.00	8,970.59	54.41	165.859	
2,700.00	2,655.96	2,622.96	2,622.96	10.50	44.82	102.68	-6,863.97	5,764.61	9,029.03	8,973.76	55.28	163.341	
2,800.00	2,746.43	2,713.43	2,713.43	11.15	46.40	102.92	-6,863.97	5,764.61	9,039.41	8,981.92	57.49	157.237	
2,900.00	2,836.90	2,803.90	2,803.90	11.82	47.98	103.16	-6,863.97	5,764.61	9,049.97	8,990.25	59.72	151.540	
3,000.00	2,927.37	2,905.63	2,894.37	12.50	49.75	103.40	-6,863.97	5,764.61	9,060.73	8,998.56	62.16	145.757	
3,100.00	3,017.85	2,984.85	2,984.85	13.21	51.14	103.64	-6,863.97	5,764.61	9,071.67	9,007.44	64.23	141.245	
3,200.00	3,108.32	3,075.32	3,075.32	13.92	52.71	103.87	-6,863.97	5,764.61	9,082.79	9,016.29	66.50	136.589	
3,300.00	3,198.79	3,165.79	3,165.79	14.64	54.29	104.11	-6,863.97	5,764.61	9,094.10	9,025.33	68.78	132.226	
3,400.00	3,289.27	3,256.27	3,256.27	15.38	55.87	104.35	-6,863.97	5,764.61	9,105.60	9,034.54	71.06	128.132	
3,500.00	3,379.74	3,346.74	3,346.74	16.12	57.45	104.58	-6,863.97	5,764.61	9,117.28	9,043.92	73.36	124.285	
3,600.00	3,470.21	3,437.21	3,437.21	16.87	59.03	104.82	-6,863.97	5,764.61	9,129.15	9,053.49	75.66	120.666	
3,700.00	3,560.68	3,527.68	3,527.68	17.62	60.61	105.06	-6,863.97	5,764.61	9,141.20	9,063.24	77.96	117.255	
3,800.00	3,651.16	3,618.16	3,618.16	18.39	62.19	105.29	-6,863.97	5,764.61	9,153.43	9,073.16	80.27	114.038	
3,900.00	3,741.63	3,708.63	3,708.63	19.15	63.77	105.52	-6,863.97	5,764.61	9,165.84	9,083.26	82.58	110.998	
4,000.00	3,832.10	3,800.90	3,799.10	19.92	65.38	105.76	-6,863.97	5,764.61	9,178.43	9,093.51	84.92	108.083	
4,100.00	3,922.57	3,889.57	3,889.57	20.69	66.93	105.99	-6,863.97	5,764.61	9,191.21	9,104.01	87.20	105.400	
4,200.00	4,013.05	3,980.05	3,980.05	21.47	68.51	106.22	-6,863.97	5,764.61	9,204.16	9,114.64	89.52	102.818	
4,300.00	4,103.52	4,070.52	4,070.52	22.25	70.08	106.46	-6,863.97	5,764.61	9,217.29	9,125.46	91.84	100.367	
4,400.00	4,193.99	4,160.99	4,160.99	23.03	71.66	106.69	-6,863.97	5,764.61	9,230.60	9,136.45	94.15	98.038	
4,500.00	4,284.47	4,251.47	4,251.47	23.81	73.24	106.92	-6,863.97	5,764.61	9,244.09	9,147.62	96.47	95.822	
4,600.00	4,374.94	4,341.94	4,341.94	24.60	74.82	107.15	-6,863.97	5,764.61	9,257.75	9,158.96	98.79	93.711	
4,700.00	4,465.41	4,432.41	4,432.41	25.39	76.40	107.38	-6,863.97	5,764.61	9,271.59	9,170.48	101.11	91.698	
4,800.00	4,555.88	4,522.88	4,522.88	26.18	77.98	107.61	-6,863.97	5,764.61	9,285.61	9,182.18	103.43	89.778	
4,900.00	4,646.36	4,613.36	4,613.36	26.97	79.56	107.84	-6,863.97	5,764.61	9,299.79	9,194.05	105.75	87.943	
5,000.00	4,736.83	4,703.83	4,703.83	27.76	81.14	108.06	-6,863.97	5,764.61	9,314.16	9,206.09	108.07	86.190	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,827.30	4,805.70	4,794.30	28.55	82.92	108.29	-6,863.97	5,764.61	9,328.69	9,218.11	110.58	84.359	
5,200.00	4,917.77	4,884.77	4,884.77	29.35	84.30	108.52	-6,863.97	5,764.61	9,343.39	9,230.69	112.70	82.904	
5,300.00	5,008.25	4,975.25	4,975.25	30.15	85.87	108.75	-6,863.97	5,764.61	9,358.27	9,243.25	115.02	81.364	
5,400.00	5,098.72	5,042.00	5,042.00	30.94	87.04	108.91	-6,863.97	5,764.61	9,373.35	9,256.43	116.92	80.172	
5,500.00	5,189.19	5,042.00	5,042.00	31.74	87.04	108.91	-6,863.97	5,764.61	9,389.23	9,271.60	117.63	79.821	
5,600.00	5,279.67	5,042.00	5,042.00	32.54	87.04	108.91	-6,863.97	5,764.61	9,406.14	9,287.81	118.33	79.491	
5,700.00	5,370.14	5,042.00	5,042.00	33.34	87.04	108.91	-6,863.97	5,764.61	9,424.09	9,305.07	119.02	79.181	
5,800.00	5,460.61	5,042.00	5,042.00	34.14	87.04	108.91	-6,863.97	5,764.61	9,443.06	9,323.37	119.69	78.893	
5,900.00	5,551.08	5,042.00	5,042.00	34.94	87.04	108.91	-6,863.97	5,764.61	9,463.05	9,342.69	120.36	78.624	
6,000.00	5,641.56	5,042.00	5,042.00	35.75	87.04	108.91	-6,863.97	5,764.61	9,484.05	9,363.04	121.01	78.375	
6,100.00	5,732.03	5,042.00	5,042.00	36.55	87.04	108.91	-6,863.97	5,764.61	9,506.06	9,384.42	121.65	78.145	
6,200.00	5,822.50	5,042.00	5,042.00	37.35	87.04	108.91	-6,863.97	5,764.61	9,529.07	9,406.80	122.27	77.934	
6,300.00	5,912.97	5,042.00	5,042.00	38.16	87.04	108.91	-6,863.97	5,764.61	9,553.07	9,430.19	122.88	77.742	
6,400.00	6,003.45	5,042.00	5,042.00	38.96	87.04	108.91	-6,863.97	5,764.61	9,578.05	9,454.57	123.48	77.568	
6,500.00	6,093.92	5,042.00	5,042.00	39.77	87.04	108.91	-6,863.97	5,764.61	9,604.01	9,479.94	124.07	77.411	
6,600.00	6,184.39	5,042.00	5,042.00	40.57	87.04	108.91	-6,863.97	5,764.61	9,630.94	9,506.30	124.64	77.271	
6,700.00	6,274.87	5,042.00	5,042.00	41.38	87.04	108.91	-6,863.97	5,764.61	9,658.82	9,533.63	125.20	77.149	
6,800.00	6,365.34	5,042.00	5,042.00	42.18	87.04	108.91	-6,863.97	5,764.61	9,687.66	9,561.92	125.74	77.043	
6,900.00	6,455.81	5,042.00	5,042.00	42.99	87.04	108.91	-6,863.97	5,764.61	9,717.44	9,591.17	126.28	76.953	
7,000.00	6,546.28	5,042.00	5,042.00	43.80	87.04	108.91	-6,863.97	5,764.61	9,748.16	9,621.36	126.80	76.880	
7,100.00	6,636.76	5,042.00	5,042.00	44.61	87.04	108.91	-6,863.97	5,764.61	9,779.81	9,652.50	127.31	76.821	
7,200.00	6,727.23	5,042.00	5,042.00	45.41	87.04	108.91	-6,863.97	5,764.61	9,812.37	9,684.57	127.80	76.778	
7,300.00	6,817.70	5,042.00	5,042.00	46.22	87.04	108.91	-6,863.97	5,764.61	9,845.84	9,717.55	128.28	76.750	
7,383.79	6,893.51	5,042.00	5,042.00	46.90	87.04	108.91	-6,863.97	5,764.61	9,874.57	9,745.89	128.68	76.737	
7,400.00	6,908.25	5,042.00	5,042.00	47.03	87.04	106.86	-6,863.97	5,764.61	9,880.02	9,751.27	128.75	76.736	
7,450.00	6,954.52	5,042.00	5,042.00	47.40	87.04	98.65	-6,863.97	5,764.61	9,894.59	9,765.63	128.96	76.724	
7,500.00	7,001.74	5,042.00	5,042.00	47.72	87.04	87.07	-6,863.97	5,764.61	9,905.74	9,776.60	129.14	76.705	
7,550.00	7,049.55	5,042.00	5,042.00	47.99	87.04	71.98	-6,863.97	5,764.61	9,913.39	9,784.11	129.29	76.678	
7,600.00	7,097.58	5,042.00	5,042.00	48.21	87.04	54.94	-6,863.97	5,764.61	9,917.49	9,788.10	129.39	76.647	
7,650.00	7,145.48	5,042.00	5,042.00	48.37	87.04	38.86	-6,863.97	5,764.61	9,918.01	9,788.55	129.46	76.612	
7,700.00	7,192.88	5,042.00	5,042.00	48.48	87.04	25.73	-6,863.97	5,764.61	9,914.95	9,785.46	129.49	76.572	
7,750.00	7,239.41	5,042.00	5,042.00	48.54	87.04	15.74	-6,863.97	5,764.61	9,908.32	9,778.85	129.48	76.525	
7,800.00	7,284.72	5,042.00	5,042.00	48.56	87.04	8.18	-6,863.97	5,764.61	9,898.18	9,768.75	129.44	76.471	
7,850.00	7,328.47	5,042.00	5,042.00	48.54	87.04	2.29	-6,863.97	5,764.61	9,884.59	9,755.23	129.36	76.409	
7,900.00	7,370.32	5,042.00	5,042.00	48.47	87.04	-2.51	-6,863.97	5,764.61	9,867.64	9,738.38	129.26	76.338	
7,950.00	7,409.96	5,042.00	5,042.00	48.37	87.04	-6.63	-6,863.97	5,764.61	9,847.44	9,718.30	129.13	76.258	
8,000.00	7,447.08	5,042.00	5,042.00	48.24	87.04	-10.36	-6,863.97	5,764.61	9,824.12	9,695.14	128.98	76.167	
8,050.00	7,481.41	5,042.00	5,042.00	48.07	87.04	-13.91	-6,863.97	5,764.61	9,797.84	9,669.03	128.81	76.067	
8,100.00	7,512.67	5,042.00	5,042.00	47.87	87.04	-17.46	-6,863.97	5,764.61	9,768.78	9,640.17	128.61	75.956	
8,150.00	7,540.64	5,042.00	5,042.00	47.65	87.04	-21.15	-6,863.97	5,764.61	9,737.13	9,608.73	128.40	75.834	
8,200.00	7,565.09	5,042.00	5,042.00	47.40	87.04	-25.12	-6,863.97	5,764.61	9,703.12	9,574.94	128.18	75.701	
8,250.00	7,585.85	5,042.00	5,042.00	47.14	87.04	-29.52	-6,863.97	5,764.61	9,666.97	9,539.03	127.94	75.557	
8,300.00	7,602.75	5,042.00	5,042.00	46.86	87.04	-34.47	-6,863.97	5,764.61	9,628.94	9,501.24	127.70	75.402	
8,350.00	7,615.67	5,042.00	5,042.00	46.58	87.04	-40.11	-6,863.97	5,764.61	9,589.30	9,461.85	127.46	75.236	
8,400.00	7,624.51	5,042.00	5,042.00	46.28	87.04	-46.53	-6,863.97	5,764.61	9,548.34	9,421.13	127.21	75.060	
8,450.00	7,629.19	5,042.00	5,042.00	45.98	87.04	-53.74	-6,863.97	5,764.61	9,506.34	9,379.37	126.97	74.873	
8,481.00	7,630.00	5,042.00	5,042.00	45.79	87.04	-58.57	-6,863.97	5,764.61	9,479.91	9,353.09	126.82	74.752	
8,500.00	7,630.00	5,042.00	5,042.00	45.68	87.04	-58.57	-6,863.97	5,764.61	9,463.65	9,336.93	126.73	74.677	
8,600.00	7,630.00	5,042.00	5,042.00	45.11	87.04	-58.57	-6,863.97	5,764.61	9,378.25	9,251.99	126.25	74.281	
8,700.00	7,630.00	5,042.00	5,042.00	44.56	87.04	-58.57	-6,863.97	5,764.61	9,293.13	9,167.35	125.78	73.882	
8,800.00	7,630.00	5,042.00	5,042.00	44.05	87.04	-58.57	-6,863.97	5,764.61	9,208.32	9,083.00	125.32	73.479	
8,900.00	7,630.00	5,042.00	5,042.00	43.57	87.04	-58.57	-6,863.97	5,764.61	9,123.81	8,998.95	124.86	73.072	

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,630.00	5,042.00	5,042.00	43.12	87.04	-58.57	-6,863.97	5,764.61	9,039.61	8,915.20	124.41	72.659	
9,100.00	7,630.00	5,042.00	5,042.00	42.70	87.04	-58.57	-6,863.97	5,764.61	8,955.75	8,831.78	123.97	72.241	
9,200.00	7,630.00	5,042.00	5,042.00	42.31	87.04	-58.57	-6,863.97	5,764.61	8,872.21	8,748.67	123.54	71.816	
9,300.00	7,630.00	5,042.00	5,042.00	41.94	87.04	-58.57	-6,863.97	5,764.61	8,789.02	8,665.90	123.12	71.385	
9,400.00	7,630.00	5,042.00	5,042.00	41.59	87.04	-58.57	-6,863.97	5,764.61	8,706.19	8,583.47	122.72	70.945	
9,500.00	7,630.00	5,042.00	5,042.00	41.26	87.04	-58.57	-6,863.97	5,764.61	8,623.72	8,501.39	122.33	70.497	
9,600.00	7,630.00	5,042.00	5,042.00	40.96	87.04	-58.57	-6,863.97	5,764.61	8,541.62	8,419.67	121.95	70.039	
9,700.00	7,630.00	5,042.00	5,042.00	40.68	87.04	-58.57	-6,863.97	5,764.61	8,459.91	8,338.31	121.60	69.571	
9,800.00	7,630.00	5,042.00	5,042.00	40.42	87.04	-58.57	-6,863.97	5,764.61	8,378.59	8,257.33	121.27	69.092	
9,900.00	7,630.00	5,042.00	5,042.00	40.17	87.04	-58.57	-6,863.97	5,764.61	8,297.69	8,176.73	120.96	68.601	
10,000.00	7,630.00	5,042.00	5,042.00	39.96	87.04	-58.57	-6,863.97	5,764.61	8,217.20	8,096.53	120.67	68.096	
10,100.00	7,630.00	5,042.00	5,042.00	40.05	87.04	-58.57	-6,863.97	5,764.61	8,137.15	8,016.74	120.41	67.578	
10,200.00	7,630.00	5,042.00	5,042.00	40.95	87.04	-58.57	-6,863.97	5,764.61	8,057.54	7,937.36	120.18	67.044	
10,300.00	7,630.00	5,042.00	5,042.00	41.94	87.04	-58.57	-6,863.97	5,764.61	7,978.39	7,858.41	119.99	66.495	
10,400.00	7,630.00	5,042.00	5,042.00	42.98	87.04	-58.57	-6,863.97	5,764.61	7,899.71	7,779.89	119.82	65.928	
10,500.00	7,630.00	5,042.00	5,042.00	44.06	87.04	-58.57	-6,863.97	5,764.61	7,821.53	7,701.83	119.70	65.344	
10,600.00	7,630.00	5,042.00	5,042.00	45.17	87.04	-58.57	-6,863.97	5,764.61	7,743.84	7,624.23	119.61	64.742	
10,700.00	7,630.00	5,042.00	5,042.00	46.32	87.04	-58.57	-6,863.97	5,764.61	7,666.67	7,547.10	119.57	64.121	
10,800.00	7,630.00	5,042.00	5,042.00	47.50	87.04	-58.57	-6,863.97	5,764.61	7,590.03	7,470.47	119.56	63.481	
10,900.00	7,630.00	5,042.00	5,042.00	48.70	87.04	-58.57	-6,863.97	5,764.61	7,513.95	7,394.34	119.61	62.821	
11,000.00	7,630.00	5,042.00	5,042.00	49.94	87.04	-58.57	-6,863.97	5,764.61	7,438.42	7,318.72	119.70	62.140	
11,100.00	7,630.00	5,042.00	5,042.00	51.20	87.04	-58.57	-6,863.97	5,764.61	7,363.49	7,243.64	119.85	61.440	
11,200.00	7,630.00	5,042.00	5,042.00	52.48	87.04	-58.57	-6,863.97	5,764.61	7,289.15	7,169.10	120.05	60.720	
11,300.00	7,630.00	5,042.00	5,042.00	53.79	87.04	-58.57	-6,863.97	5,764.61	7,215.43	7,095.14	120.30	59.980	
11,400.00	7,630.00	5,042.00	5,042.00	55.12	87.04	-58.57	-6,863.97	5,764.61	7,142.36	7,021.75	120.61	59.221	
11,500.00	7,630.00	5,042.00	5,042.00	56.46	87.04	-58.57	-6,863.97	5,764.61	7,069.94	6,948.97	120.97	58.443	
11,600.00	7,630.00	5,042.00	5,042.00	57.83	87.04	-58.57	-6,863.97	5,764.61	6,998.20	6,876.80	121.40	57.648	
11,700.00	7,630.00	5,042.00	5,042.00	59.22	87.04	-58.57	-6,863.97	5,764.61	6,927.16	6,805.28	121.88	56.836	
11,800.00	7,630.00	5,042.00	5,042.00	60.62	87.04	-58.57	-6,863.97	5,764.61	6,856.85	6,734.42	122.42	56.009	
11,900.00	7,630.00	5,042.00	5,042.00	62.04	87.04	-58.57	-6,863.97	5,764.61	6,787.28	6,664.25	123.03	55.168	
12,000.00	7,630.00	5,042.00	5,042.00	63.48	87.04	-58.57	-6,863.97	5,764.61	6,718.48	6,594.78	123.70	54.314	
12,100.00	7,630.00	5,042.00	5,042.00	64.93	87.04	-58.57	-6,863.97	5,764.61	6,650.47	6,526.04	124.43	53.449	
12,200.00	7,630.00	5,042.00	5,042.00	66.39	87.04	-58.57	-6,863.97	5,764.61	6,583.27	6,458.05	125.22	52.575	
12,300.00	7,630.00	5,042.00	5,042.00	67.86	87.04	-58.57	-6,863.97	5,764.61	6,516.92	6,390.85	126.07	51.693	
12,400.00	7,630.00	5,042.00	5,042.00	69.35	87.04	-58.57	-6,863.97	5,764.61	6,451.44	6,324.45	126.98	50.806	
12,500.00	7,630.00	5,042.00	5,042.00	70.85	87.04	-58.57	-6,863.97	5,764.61	6,386.85	6,258.89	127.95	49.915	
12,600.00	7,630.00	5,042.00	5,042.00	72.36	87.04	-58.57	-6,863.97	5,764.61	6,323.18	6,194.19	128.99	49.021	
12,700.00	7,630.00	5,042.00	5,042.00	73.88	87.04	-58.57	-6,863.97	5,764.61	6,260.46	6,130.38	130.08	48.128	
12,800.00	7,630.00	5,042.00	5,042.00	75.41	87.04	-58.57	-6,863.97	5,764.61	6,198.72	6,067.49	131.23	47.235	
12,900.00	7,630.00	5,042.00	5,042.00	76.95	87.04	-58.57	-6,863.97	5,764.61	6,137.99	6,005.55	132.44	46.346	
13,000.00	7,630.00	5,042.00	5,042.00	78.49	87.04	-58.57	-6,863.97	5,764.61	6,078.30	5,944.59	133.70	45.461	
13,100.00	7,630.00	5,042.00	5,042.00	80.05	87.04	-58.57	-6,863.97	5,764.61	6,019.67	5,884.65	135.02	44.583	
13,200.00	7,630.00	5,042.00	5,042.00	81.61	87.04	-58.57	-6,863.97	5,764.61	5,962.15	5,825.75	136.39	43.713	
13,300.00	7,630.00	5,042.00	5,042.00	83.18	87.04	-58.57	-6,863.97	5,764.61	5,905.76	5,767.94	137.82	42.851	
13,400.00	7,630.00	5,042.00	5,042.00	84.76	87.04	-58.57	-6,863.97	5,764.61	5,850.54	5,711.24	139.30	42.001	
13,500.00	7,630.00	5,042.00	5,042.00	86.34	87.04	-58.57	-6,863.97	5,764.61	5,796.51	5,655.69	140.82	41.162	
13,600.00	7,630.00	5,042.00	5,042.00	87.94	87.04	-58.57	-6,863.97	5,764.61	5,743.72	5,601.32	142.40	40.336	
13,700.00	7,630.00	5,042.00	5,042.00	89.53	87.04	-58.57	-6,863.97	5,764.61	5,692.20	5,548.18	144.02	39.524	
13,800.00	7,630.00	5,042.00	5,042.00	91.13	87.04	-58.57	-6,863.97	5,764.61	5,641.97	5,496.29	145.68	38.728	
13,900.00	7,630.00	5,042.00	5,042.00	92.74	87.04	-58.57	-6,863.97	5,764.61	5,593.09	5,445.70	147.39	37.947	
14,000.00	7,630.00	5,042.00	5,042.00	94.35	87.04	-58.57	-6,863.97	5,764.61	5,545.58	5,396.43	149.14	37.183	
14,100.00	7,630.00	5,042.00	5,042.00	95.97	87.04	-58.57	-6,863.97	5,764.61	5,499.47	5,348.54	150.93	36.437	

Anticollision Report

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,630.00	5,042.00	5,042.00	97.60	87.04	-58.57	-6,863.97	5,764.61	5,454.81	5,302.05	152.76	35.708	
14,300.00	7,630.00	5,042.00	5,042.00	99.22	87.04	-58.57	-6,863.97	5,764.61	5,411.63	5,257.01	154.62	34.999	
14,400.00	7,630.00	5,042.00	5,042.00	100.85	87.04	-58.57	-6,863.97	5,764.61	5,369.97	5,213.45	156.52	34.309	
14,500.00	7,630.00	5,042.00	5,042.00	102.49	87.04	-58.57	-6,863.97	5,764.61	5,329.85	5,171.40	158.45	33.638	
14,600.00	7,630.00	5,042.00	5,042.00	104.13	87.04	-58.57	-6,863.97	5,764.61	5,291.32	5,130.92	160.40	32.988	
14,700.00	7,630.00	5,042.00	5,042.00	105.77	87.04	-58.57	-6,863.97	5,764.61	5,254.41	5,092.03	162.39	32.358	
14,800.00	7,630.00	5,042.00	5,042.00	107.42	87.04	-58.57	-6,863.97	5,764.61	5,219.16	5,054.77	164.39	31.748	
14,900.00	7,630.00	5,042.00	5,042.00	109.07	87.04	-58.57	-6,863.97	5,764.61	5,185.60	5,019.18	166.42	31.160	
15,000.00	7,630.00	5,042.00	5,042.00	110.72	87.04	-58.57	-6,863.97	5,764.61	5,153.76	4,985.29	168.46	30.593	
15,100.00	7,630.00	5,042.00	5,042.00	112.38	87.04	-58.57	-6,863.97	5,764.61	5,123.67	4,953.14	170.52	30.047	
15,200.00	7,630.00	5,042.00	5,042.00	114.04	87.04	-58.57	-6,863.97	5,764.61	5,095.37	4,922.77	172.60	29.522	
15,300.00	7,630.00	5,042.00	5,042.00	115.71	87.04	-58.57	-6,863.97	5,764.61	5,068.88	4,894.20	174.68	29.018	
15,400.00	7,630.00	5,042.00	5,042.00	117.37	87.04	-58.57	-6,863.97	5,764.61	5,044.23	4,867.46	176.77	28.535	
15,500.00	7,630.00	5,042.00	5,042.00	119.04	87.04	-58.57	-6,863.97	5,764.61	5,021.46	4,842.60	178.86	28.074	
15,600.00	7,630.00	5,042.00	5,042.00	120.71	87.04	-58.57	-6,863.97	5,764.61	5,000.58	4,819.63	180.96	27.634	
15,700.00	7,630.00	5,042.00	5,042.00	122.39	87.04	-58.57	-6,863.97	5,764.61	4,981.63	4,798.58	183.05	27.215	
15,800.00	7,630.00	5,042.00	5,042.00	124.06	87.04	-58.57	-6,863.97	5,764.61	4,964.61	4,779.48	185.13	26.817	
15,900.00	7,630.00	5,042.00	5,042.00	125.74	87.04	-58.57	-6,863.97	5,764.61	4,949.56	4,762.36	187.21	26.439	
16,000.00	7,630.00	5,042.00	5,042.00	127.42	87.04	-58.57	-6,863.97	5,764.61	4,936.49	4,747.22	189.27	26.082	
16,100.00	7,630.00	5,042.00	5,042.00	129.10	87.04	-58.57	-6,863.97	5,764.61	4,925.42	4,734.10	191.31	25.745	
16,200.00	7,630.00	5,042.00	5,042.00	130.79	87.04	-58.57	-6,863.97	5,764.61	4,916.35	4,723.01	193.34	25.428	
16,300.00	7,630.00	5,042.00	5,042.00	132.48	87.04	-58.57	-6,863.97	5,764.61	4,909.31	4,713.96	195.35	25.131	
16,400.00	7,630.00	5,042.00	5,042.00	134.17	87.04	-58.57	-6,863.97	5,764.61	4,904.29	4,706.96	197.33	24.854	
16,500.00	7,630.00	5,042.00	5,042.00	135.86	87.04	-58.57	-6,863.97	5,764.61	4,901.31	4,702.03	199.28	24.596	
16,596.12	7,630.00	5,042.00	5,042.00	137.48	87.04	-58.57	-6,863.97	5,764.61	4,900.37	4,699.24	201.12	24.365	CC
16,600.00	7,630.00	5,042.00	5,042.00	137.55	87.04	-58.57	-6,863.97	5,764.61	4,900.37	4,699.17	201.20	24.356	
16,700.00	7,630.00	5,042.00	5,042.00	139.24	87.04	-58.57	-6,863.97	5,764.61	4,901.47	4,698.39	203.08	24.135	ES
16,800.00	7,630.00	5,042.00	5,042.00	140.94	87.04	-58.57	-6,863.97	5,764.61	4,904.61	4,699.67	204.93	23.933	
16,900.00	7,630.00	5,042.00	5,042.00	142.64	87.04	-58.57	-6,863.97	5,764.61	4,909.78	4,703.04	206.74	23.748	
17,000.00	7,630.00	5,042.00	5,042.00	144.34	87.04	-58.57	-6,863.97	5,764.61	4,916.98	4,708.47	208.51	23.581	
17,100.00	7,630.00	5,042.00	5,042.00	146.04	87.04	-58.57	-6,863.97	5,764.61	4,926.20	4,715.97	210.24	23.432	
17,200.00	7,630.00	5,042.00	5,042.00	147.74	87.04	-58.57	-6,863.97	5,764.61	4,937.44	4,725.52	211.92	23.299	
17,300.00	7,630.00	5,042.00	5,042.00	149.44	87.04	-58.57	-6,863.97	5,764.61	4,950.66	4,737.11	213.55	23.183	
17,400.00	7,630.00	5,042.00	5,042.00	151.15	87.04	-58.57	-6,863.97	5,764.61	4,965.87	4,750.73	215.13	23.083	
17,500.00	7,630.00	5,042.00	5,042.00	152.86	87.04	-58.57	-6,863.97	5,764.61	4,983.03	4,766.36	216.67	22.998	
17,600.00	7,630.00	5,042.00	5,042.00	154.56	87.04	-58.57	-6,863.97	5,764.61	5,002.14	4,783.98	218.15	22.930	
17,700.00	7,630.00	5,042.00	5,042.00	156.27	87.04	-58.57	-6,863.97	5,764.61	5,023.16	4,803.58	219.58	22.876	
17,800.00	7,630.00	5,042.00	5,042.00	157.98	87.04	-58.57	-6,863.97	5,764.61	5,046.08	4,825.12	220.96	22.837	
17,900.00	7,630.00	5,042.00	5,042.00	159.70	87.04	-58.57	-6,863.97	5,764.61	5,070.87	4,848.58	222.29	22.812	
18,000.00	7,630.00	5,042.00	5,042.00	161.41	87.04	-58.57	-6,863.97	5,764.61	5,097.50	4,873.94	223.56	22.802	SF
18,100.00	7,630.00	5,042.00	5,042.00	163.12	87.04	-58.57	-6,863.97	5,764.61	5,125.94	4,901.16	224.78	22.805	
18,154.00	7,630.00	5,042.00	5,042.00	164.05	87.04	-58.57	-6,863.97	5,764.61	5,142.04	4,916.63	225.41	22.812	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,300.00	7,630.00	5,020.00	5,020.00	41.94	86.69	-58.39	-8,182.70	5,762.11	9,917.07	9,793.46	123.61	80.228	
9,400.00	7,630.00	5,020.00	5,020.00	41.59	86.69	-58.39	-8,182.70	5,762.11	9,830.32	9,707.08	123.24	79.766	
9,500.00	7,630.00	5,020.00	5,020.00	41.26	86.69	-58.39	-8,182.70	5,762.11	9,743.83	9,620.96	122.88	79.297	
9,600.00	7,630.00	5,020.00	5,020.00	40.96	86.69	-58.39	-8,182.70	5,762.11	9,657.60	9,535.08	122.53	78.820	
9,700.00	7,630.00	5,020.00	5,020.00	40.68	86.69	-58.39	-8,182.70	5,762.11	9,571.64	9,449.45	122.19	78.334	
9,800.00	7,630.00	5,020.00	5,020.00	40.42	86.69	-58.39	-8,182.70	5,762.11	9,485.96	9,364.09	121.87	77.839	
9,900.00	7,630.00	5,020.00	5,020.00	40.17	86.69	-58.39	-8,182.70	5,762.11	9,400.55	9,278.99	121.56	77.334	
10,000.00	7,630.00	5,020.00	5,020.00	39.96	86.69	-58.39	-8,182.70	5,762.11	9,315.44	9,194.17	121.27	76.817	
10,100.00	7,630.00	5,020.00	5,020.00	40.05	86.69	-58.39	-8,182.70	5,762.11	9,230.63	9,109.63	121.00	76.289	
10,200.00	7,630.00	5,020.00	5,020.00	40.95	86.69	-58.39	-8,182.70	5,762.11	9,146.12	9,025.38	120.74	75.748	
10,300.00	7,630.00	5,020.00	5,020.00	41.94	86.69	-58.39	-8,182.70	5,762.11	9,061.93	8,941.41	120.51	75.194	
10,400.00	7,630.00	5,020.00	5,020.00	42.98	86.69	-58.39	-8,182.70	5,762.11	8,978.06	8,857.75	120.31	74.626	
10,500.00	7,630.00	5,020.00	5,020.00	44.06	86.69	-58.39	-8,182.70	5,762.11	8,894.53	8,774.40	120.13	74.043	
10,600.00	7,630.00	5,020.00	5,020.00	45.17	86.69	-58.39	-8,182.70	5,762.11	8,811.33	8,691.36	119.97	73.445	
10,700.00	7,630.00	5,020.00	5,020.00	46.32	86.69	-58.39	-8,182.70	5,762.11	8,728.50	8,608.65	119.85	72.830	
10,800.00	7,630.00	5,020.00	5,020.00	47.50	86.69	-58.39	-8,182.70	5,762.11	8,646.02	8,526.27	119.75	72.198	
10,900.00	7,630.00	5,020.00	5,020.00	48.70	86.69	-58.39	-8,182.70	5,762.11	8,563.92	8,444.22	119.69	71.548	
11,000.00	7,630.00	5,020.00	5,020.00	49.94	86.69	-58.39	-8,182.70	5,762.11	8,482.20	8,362.53	119.67	70.881	
11,100.00	7,630.00	5,020.00	5,020.00	51.20	86.69	-58.39	-8,182.70	5,762.11	8,400.88	8,281.20	119.68	70.194	
11,200.00	7,630.00	5,020.00	5,020.00	52.48	86.69	-58.39	-8,182.70	5,762.11	8,319.96	8,200.23	119.73	69.489	
11,300.00	7,630.00	5,020.00	5,020.00	53.79	86.69	-58.39	-8,182.70	5,762.11	8,239.47	8,119.65	119.82	68.765	
11,400.00	7,630.00	5,020.00	5,020.00	55.12	86.69	-58.39	-8,182.70	5,762.11	8,159.40	8,039.45	119.95	68.021	
11,500.00	7,630.00	5,020.00	5,020.00	56.46	86.69	-58.39	-8,182.70	5,762.11	8,079.78	7,959.65	120.13	67.258	
11,600.00	7,630.00	5,020.00	5,020.00	57.83	86.69	-58.39	-8,182.70	5,762.11	8,000.62	7,880.27	120.35	66.476	
11,700.00	7,630.00	5,020.00	5,020.00	59.22	86.69	-58.39	-8,182.70	5,762.11	7,921.93	7,801.31	120.62	65.675	
11,800.00	7,630.00	5,020.00	5,020.00	60.62	86.69	-58.39	-8,182.70	5,762.11	7,843.72	7,722.78	120.94	64.856	
11,900.00	7,630.00	5,020.00	5,020.00	62.04	86.69	-58.39	-8,182.70	5,762.11	7,766.02	7,644.71	121.31	64.020	
12,000.00	7,630.00	5,020.00	5,020.00	63.48	86.69	-58.39	-8,182.70	5,762.11	7,688.83	7,567.10	121.72	63.166	
12,100.00	7,630.00	5,020.00	5,020.00	64.93	86.69	-58.39	-8,182.70	5,762.11	7,612.17	7,489.97	122.19	62.296	
12,200.00	7,630.00	5,020.00	5,020.00	66.39	86.69	-58.39	-8,182.70	5,762.11	7,536.05	7,413.34	122.71	61.411	
12,300.00	7,630.00	5,020.00	5,020.00	67.86	86.69	-58.39	-8,182.70	5,762.11	7,460.50	7,337.22	123.29	60.513	
12,400.00	7,630.00	5,020.00	5,020.00	69.35	86.69	-58.39	-8,182.70	5,762.11	7,385.54	7,261.62	123.92	59.601	
12,500.00	7,630.00	5,020.00	5,020.00	70.85	86.69	-58.39	-8,182.70	5,762.11	7,311.17	7,186.57	124.60	58.679	
12,600.00	7,630.00	5,020.00	5,020.00	72.36	86.69	-58.39	-8,182.70	5,762.11	7,237.42	7,112.09	125.33	57.746	
12,700.00	7,630.00	5,020.00	5,020.00	73.88	86.69	-58.39	-8,182.70	5,762.11	7,164.30	7,038.18	126.12	56.805	
12,800.00	7,630.00	5,020.00	5,020.00	75.41	86.69	-58.39	-8,182.70	5,762.11	7,091.85	6,964.88	126.96	55.857	
12,900.00	7,630.00	5,020.00	5,020.00	76.95	86.69	-58.39	-8,182.70	5,762.11	7,020.07	6,892.20	127.86	54.903	
13,000.00	7,630.00	5,020.00	5,020.00	78.49	86.69	-58.39	-8,182.70	5,762.11	6,948.98	6,820.17	128.81	53.946	
13,100.00	7,630.00	5,020.00	5,020.00	80.05	86.69	-58.39	-8,182.70	5,762.11	6,878.62	6,748.80	129.82	52.986	
13,200.00	7,630.00	5,020.00	5,020.00	81.61	86.69	-58.39	-8,182.70	5,762.11	6,808.99	6,678.12	130.88	52.026	
13,300.00	7,630.00	5,020.00	5,020.00	83.18	86.69	-58.39	-8,182.70	5,762.11	6,740.14	6,608.15	131.99	51.066	
13,400.00	7,630.00	5,020.00	5,020.00	84.76	86.69	-58.39	-8,182.70	5,762.11	6,672.07	6,538.91	133.15	50.108	
13,500.00	7,630.00	5,020.00	5,020.00	86.34	86.69	-58.39	-8,182.70	5,762.11	6,604.81	6,470.44	134.37	49.154	
13,600.00	7,630.00	5,020.00	5,020.00	87.94	86.69	-58.39	-8,182.70	5,762.11	6,538.39	6,402.75	135.64	48.205	
13,700.00	7,630.00	5,020.00	5,020.00	89.53	86.69	-58.39	-8,182.70	5,762.11	6,472.83	6,335.88	136.96	47.262	
13,800.00	7,630.00	5,020.00	5,020.00	91.13	86.69	-58.39	-8,182.70	5,762.11	6,408.17	6,269.84	138.32	46.327	
13,900.00	7,630.00	5,020.00	5,020.00	92.74	86.69	-58.39	-8,182.70	5,762.11	6,344.42	6,204.67	139.74	45.401	
14,000.00	7,630.00	5,020.00	5,020.00	94.35	86.69	-58.39	-8,182.70	5,762.11	6,281.61	6,140.40	141.21	44.485	
14,100.00	7,630.00	5,020.00	5,020.00	95.97	86.69	-58.39	-8,182.70	5,762.11	6,219.78	6,077.06	142.72	43.579	
14,200.00	7,630.00	5,020.00	5,020.00	97.60	86.69	-58.39	-8,182.70	5,762.11	6,158.95	6,014.67	144.28	42.686	
14,300.00	7,630.00	5,020.00	5,020.00	99.22	86.69	-58.39	-8,182.70	5,762.11	6,099.16	5,953.27	145.89	41.806	
14,400.00	7,630.00	5,020.00	5,020.00	100.85	86.69	-58.39	-8,182.70	5,762.11	6,040.43	5,892.88	147.55	40.939	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,500.00	7,630.00	5,020.00	5,020.00	102.49	86.69	-58.39	-8,182.70	5,762.11	5,982.79	5,833.55	149.24	40.088	
14,600.00	7,630.00	5,020.00	5,020.00	104.13	86.69	-58.39	-8,182.70	5,762.11	5,926.28	5,775.30	150.98	39.251	
14,700.00	7,630.00	5,020.00	5,020.00	105.77	86.69	-58.39	-8,182.70	5,762.11	5,870.93	5,718.17	152.77	38.431	
14,800.00	7,630.00	5,020.00	5,020.00	107.42	86.69	-58.39	-8,182.70	5,762.11	5,816.78	5,662.19	154.59	37.628	
14,900.00	7,630.00	5,020.00	5,020.00	109.07	86.69	-58.39	-8,182.70	5,762.11	5,763.85	5,607.40	156.45	36.841	
15,000.00	7,630.00	5,020.00	5,020.00	110.72	86.69	-58.39	-8,182.70	5,762.11	5,712.18	5,553.83	158.35	36.073	
15,100.00	7,630.00	5,020.00	5,020.00	112.38	86.69	-58.39	-8,182.70	5,762.11	5,661.80	5,501.51	160.29	35.323	
15,200.00	7,630.00	5,020.00	5,020.00	114.04	86.69	-58.39	-8,182.70	5,762.11	5,612.75	5,450.50	162.26	34.591	
15,300.00	7,630.00	5,020.00	5,020.00	115.71	86.69	-58.39	-8,182.70	5,762.11	5,565.07	5,400.81	164.26	33.879	
15,400.00	7,630.00	5,020.00	5,020.00	117.37	86.69	-58.39	-8,182.70	5,762.11	5,518.79	5,352.49	166.30	33.185	
15,500.00	7,630.00	5,020.00	5,020.00	119.04	86.69	-58.39	-8,182.70	5,762.11	5,473.95	5,305.58	168.37	32.512	
15,600.00	7,630.00	5,020.00	5,020.00	120.71	86.69	-58.39	-8,182.70	5,762.11	5,430.57	5,260.11	170.46	31.858	
15,700.00	7,630.00	5,020.00	5,020.00	122.39	86.69	-58.39	-8,182.70	5,762.11	5,388.71	5,216.13	172.58	31.224	
15,800.00	7,630.00	5,020.00	5,020.00	124.06	86.69	-58.39	-8,182.70	5,762.11	5,348.38	5,173.66	174.72	30.610	
15,900.00	7,630.00	5,020.00	5,020.00	125.74	86.69	-58.39	-8,182.70	5,762.11	5,309.64	5,132.75	176.89	30.017	
16,000.00	7,630.00	5,020.00	5,020.00	127.42	86.69	-58.39	-8,182.70	5,762.11	5,272.50	5,093.43	179.07	29.444	
16,100.00	7,630.00	5,020.00	5,020.00	129.10	86.69	-58.39	-8,182.70	5,762.11	5,237.01	5,055.74	181.27	28.891	
16,200.00	7,630.00	5,020.00	5,020.00	130.79	86.69	-58.39	-8,182.70	5,762.11	5,203.20	5,019.72	183.48	28.359	
16,300.00	7,630.00	5,020.00	5,020.00	132.48	86.69	-58.39	-8,182.70	5,762.11	5,171.11	4,985.41	185.70	27.847	
16,400.00	7,630.00	5,020.00	5,020.00	134.17	86.69	-58.39	-8,182.70	5,762.11	5,140.76	4,952.83	187.93	27.355	
16,500.00	7,630.00	5,020.00	5,020.00	135.86	86.69	-58.39	-8,182.70	5,762.11	5,112.18	4,922.02	190.16	26.883	
16,600.00	7,630.00	5,020.00	5,020.00	137.55	86.69	-58.39	-8,182.70	5,762.11	5,085.41	4,893.02	192.40	26.432	
16,700.00	7,630.00	5,020.00	5,020.00	139.24	86.69	-58.39	-8,182.70	5,762.11	5,060.48	4,865.85	194.63	26.001	
16,800.00	7,630.00	5,020.00	5,020.00	140.94	86.69	-58.39	-8,182.70	5,762.11	5,037.41	4,840.55	196.86	25.589	
16,900.00	7,630.00	5,020.00	5,020.00	142.64	86.69	-58.39	-8,182.70	5,762.11	5,016.23	4,817.15	199.08	25.197	
17,000.00	7,630.00	5,020.00	5,020.00	144.34	86.69	-58.39	-8,182.70	5,762.11	4,996.96	4,795.67	201.28	24.825	
17,100.00	7,630.00	5,020.00	5,020.00	146.04	86.69	-58.39	-8,182.70	5,762.11	4,979.62	4,776.14	203.48	24.473	
17,200.00	7,630.00	5,020.00	5,020.00	147.74	86.69	-58.39	-8,182.70	5,762.11	4,964.23	4,758.58	205.65	24.139	
17,300.00	7,630.00	5,020.00	5,020.00	149.44	86.69	-58.39	-8,182.70	5,762.11	4,950.82	4,743.02	207.80	23.824	
17,400.00	7,630.00	5,020.00	5,020.00	151.15	86.69	-58.39	-8,182.70	5,762.11	4,939.40	4,729.47	209.93	23.529	
17,500.00	7,630.00	5,020.00	5,020.00	152.86	86.69	-58.39	-8,182.70	5,762.11	4,929.98	4,717.95	212.03	23.251	
17,600.00	7,630.00	5,020.00	5,020.00	154.56	86.69	-58.39	-8,182.70	5,762.11	4,922.58	4,708.48	214.10	22.992	
17,700.00	7,630.00	5,020.00	5,020.00	156.27	86.69	-58.39	-8,182.70	5,762.11	4,917.19	4,701.06	216.13	22.751	
17,800.00	7,630.00	5,020.00	5,020.00	157.98	86.69	-58.39	-8,182.70	5,762.11	4,913.84	4,695.71	218.13	22.527	
17,900.00	7,630.00	5,020.00	5,020.00	159.70	86.69	-58.39	-8,182.70	5,762.11	4,912.52	4,692.43	220.09	22.321	
17,914.85	7,630.00	5,020.00	5,020.00	159.95	86.69	-58.39	-8,182.70	5,762.11	4,912.50	4,692.12	220.37	22.292	CC
18,000.00	7,630.00	5,020.00	5,020.00	161.41	86.69	-58.39	-8,182.70	5,762.11	4,913.23	4,691.23	222.00	22.132	ES
18,100.00	7,630.00	5,020.00	5,020.00	163.12	86.69	-58.39	-8,182.70	5,762.11	4,915.98	4,692.12	223.87	21.959	
18,154.00	7,630.00	5,020.00	5,020.00	164.05	86.69	-58.39	-8,182.70	5,762.11	4,918.31	4,693.46	224.86	21.873	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	161.53	-5,566.26	1,859.07	5,868.59				
100.00	100.00	69.00	69.00	0.13	0.56	161.53	-5,566.26	1,859.07	5,868.51	5,867.81	0.69	8,450.988	
200.00	200.00	169.00	169.00	0.49	2.02	161.53	-5,566.26	1,859.07	5,868.51	5,866.00	2.51	2,339.210	
300.00	300.00	269.00	269.00	0.85	3.76	161.53	-5,566.26	1,859.07	5,868.51	5,863.89	4.61	1,272.289	
400.00	400.00	369.00	369.00	1.21	5.51	161.53	-5,566.26	1,859.07	5,868.51	5,861.79	6.72	873.763	
500.00	500.00	469.00	469.00	1.57	7.25	161.53	-5,566.26	1,859.07	5,868.51	5,859.69	8.82	665.352	
600.00	600.00	569.00	569.00	1.93	9.00	161.53	-5,566.26	1,859.07	5,868.51	5,857.58	10.92	537.214	
700.00	700.00	669.00	669.00	2.29	10.74	161.53	-5,566.26	1,859.07	5,868.51	5,855.48	13.03	450.462	
800.00	800.00	769.00	769.00	2.64	12.49	161.53	-5,566.26	1,859.07	5,868.51	5,853.37	15.13	387.832	
900.00	900.00	869.00	869.00	3.00	14.23	161.53	-5,566.26	1,859.07	5,868.51	5,851.27	17.24	340.492	
1,000.00	1,000.00	969.00	969.00	3.36	15.98	161.53	-5,566.26	1,859.07	5,868.51	5,849.17	19.34	303.452	
1,100.00	1,100.00	1,069.00	1,069.00	3.72	17.72	161.53	-5,566.26	1,859.07	5,868.51	5,847.06	21.44	273.680	
1,200.00	1,200.00	1,169.00	1,169.00	4.08	19.47	161.53	-5,566.26	1,859.07	5,868.51	5,844.96	23.55	249.228	
1,300.00	1,300.00	1,269.00	1,269.00	4.44	21.21	161.53	-5,566.26	1,859.07	5,868.51	5,842.86	25.65	228.787	
1,400.00	1,400.00	1,369.00	1,369.00	4.79	22.96	161.53	-5,566.26	1,859.07	5,868.51	5,840.75	27.75	211.444	
1,500.00	1,499.98	1,468.98	1,468.98	5.15	24.70	123.72	-5,566.26	1,859.07	5,869.47	5,839.62	29.86	196.592	
1,600.00	1,599.84	1,568.84	1,568.84	5.51	26.45	123.72	-5,566.26	1,859.07	5,872.38	5,840.43	31.96	183.770	
1,700.00	1,699.45	1,668.45	1,668.45	5.87	28.19	123.71	-5,566.26	1,859.07	5,877.23	5,843.18	34.05	172.595	
1,800.00	1,798.70	1,767.70	1,767.70	6.23	29.92	123.69	-5,566.26	1,859.07	5,884.03	5,847.88	36.15	162.779	
1,900.00	1,897.47	1,866.47	1,866.47	6.60	31.64	123.67	-5,566.26	1,859.07	5,892.78	5,854.54	38.24	154.096	
2,000.00	1,995.62	1,964.62	1,964.62	6.99	33.36	123.64	-5,566.26	1,859.07	5,903.49	5,863.16	40.33	146.365	
2,100.00	2,093.06	2,062.06	2,062.06	7.39	35.06	123.61	-5,566.26	1,859.07	5,916.17	5,873.75	42.43	139.441	
2,200.00	2,189.64	2,158.64	2,158.64	7.82	36.74	123.57	-5,566.26	1,859.07	5,930.84	5,886.32	44.52	133.207	
2,300.00	2,285.27	2,254.27	2,254.27	8.28	38.41	123.51	-5,566.26	1,859.07	5,947.50	5,900.87	46.62	127.568	
2,400.00	2,379.82	2,348.82	2,348.82	8.77	40.06	123.45	-5,566.26	1,859.07	5,966.16	5,917.43	48.72	122.446	
2,500.00	2,473.17	2,442.17	2,442.17	9.31	41.69	123.37	-5,566.26	1,859.07	5,986.84	5,936.00	50.83	117.775	
2,600.00	2,565.21	2,534.21	2,534.21	9.88	43.30	123.27	-5,566.26	1,859.07	6,009.55	5,956.60	52.95	113.503	
2,660.67	2,620.37	2,589.37	2,589.37	10.25	44.26	123.21	-5,566.26	1,859.07	6,024.32	5,970.09	54.23	111.087	
2,700.00	2,655.96	2,624.96	2,624.96	10.50	44.88	123.33	-5,566.26	1,859.07	6,034.15	5,979.09	55.06	109.583	
2,800.00	2,746.43	2,715.43	2,715.43	11.15	46.46	123.64	-5,566.26	1,859.07	6,059.30	6,002.10	57.20	105.938	
2,900.00	2,836.90	2,805.90	2,805.90	11.82	48.04	123.96	-5,566.26	1,859.07	6,084.64	6,025.30	59.34	102.535	
3,000.00	2,927.37	2,903.63	2,896.37	12.50	49.74	124.27	-5,566.26	1,859.07	6,110.17	6,048.54	61.63	99.151	
3,100.00	3,017.85	2,986.85	2,986.85	13.21	51.20	124.58	-5,566.26	1,859.07	6,135.89	6,072.23	63.66	96.379	
3,200.00	3,108.32	3,077.32	3,077.32	13.92	52.78	124.88	-5,566.26	1,859.07	6,161.80	6,095.96	65.84	93.592	
3,300.00	3,198.79	3,167.79	3,167.79	14.64	54.35	125.18	-5,566.26	1,859.07	6,187.89	6,119.87	68.02	90.977	
3,400.00	3,289.27	3,258.27	3,258.27	15.38	55.93	125.49	-5,566.26	1,859.07	6,214.17	6,143.97	70.20	88.522	
3,500.00	3,379.74	3,348.74	3,348.74	16.12	57.51	125.78	-5,566.26	1,859.07	6,240.62	6,168.24	72.39	86.213	
3,600.00	3,470.21	3,439.21	3,439.21	16.87	59.09	126.08	-5,566.26	1,859.07	6,267.25	6,192.68	74.58	84.040	
3,700.00	3,560.68	3,529.68	3,529.68	17.62	60.67	126.38	-5,566.26	1,859.07	6,294.06	6,217.30	76.77	81.990	
3,800.00	3,651.16	3,620.16	3,620.16	18.39	62.25	126.67	-5,566.26	1,859.07	6,321.04	6,242.09	78.96	80.055	
3,900.00	3,741.63	3,710.63	3,710.63	19.15	63.83	126.96	-5,566.26	1,859.07	6,348.20	6,267.05	81.15	78.225	
4,000.00	3,832.10	3,801.10	3,801.10	19.92	65.41	127.25	-5,566.26	1,859.07	6,375.52	6,292.17	83.35	76.494	
4,100.00	3,922.57	3,908.43	3,891.57	20.69	67.28	127.53	-5,566.26	1,859.07	6,403.01	6,317.17	85.83	74.597	
4,200.00	4,013.05	3,982.05	3,982.05	21.47	68.57	127.81	-5,566.26	1,859.07	6,430.66	6,342.93	87.73	73.297	
4,300.00	4,103.52	4,072.52	4,072.52	22.25	70.15	128.10	-5,566.26	1,859.07	6,458.48	6,368.55	89.93	71.819	
4,400.00	4,193.99	4,162.99	4,162.99	23.03	71.72	128.37	-5,566.26	1,859.07	6,486.46	6,394.34	92.12	70.414	
4,500.00	4,284.47	4,253.47	4,253.47	23.81	73.30	128.65	-5,566.26	1,859.07	6,514.59	6,420.28	94.31	69.076	
4,600.00	4,374.94	4,343.94	4,343.94	24.60	74.88	128.93	-5,566.26	1,859.07	6,542.88	6,446.38	96.50	67.802	
4,700.00	4,465.41	4,434.41	4,434.41	25.39	76.46	129.20	-5,566.26	1,859.07	6,571.33	6,472.64	98.69	66.586	
4,800.00	4,555.88	4,524.88	4,524.88	26.18	78.04	129.47	-5,566.26	1,859.07	6,599.93	6,499.05	100.88	65.426	
4,900.00	4,646.36	4,615.36	4,615.36	26.97	79.62	129.74	-5,566.26	1,859.07	6,628.68	6,525.61	103.06	64.318	
5,000.00	4,736.83	4,705.83	4,705.83	27.76	81.20	130.00	-5,566.26	1,859.07	6,657.57	6,552.33	105.25	63.257	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,827.30	4,803.70	4,796.30	28.55	82.91	130.27	-5,566.26	1,859.07	6,686.62	6,579.06	107.56	62.168	
5,200.00	4,917.77	4,886.77	4,886.77	29.35	84.36	130.53	-5,566.26	1,859.07	6,715.81	6,606.20	109.61	61.271	
5,300.00	5,008.25	4,977.25	4,977.25	30.15	85.94	130.79	-5,566.26	1,859.07	6,745.14	6,633.35	111.79	60.340	
5,400.00	5,098.72	5,067.72	5,067.72	30.94	87.51	131.05	-5,566.26	1,859.07	6,774.61	6,660.65	113.96	59.446	
5,500.00	5,189.19	5,125.00	5,125.00	31.74	88.51	131.21	-5,566.26	1,859.07	6,804.30	6,688.76	115.54	58.891	
5,600.00	5,279.67	5,125.00	5,125.00	32.54	88.51	131.21	-5,566.26	1,859.07	6,835.09	6,719.01	116.08	58.885	
5,700.00	5,370.14	5,125.00	5,125.00	33.34	88.51	131.21	-5,566.26	1,859.07	6,867.19	6,750.60	116.59	58.902	
5,800.00	5,460.61	5,125.00	5,125.00	34.14	88.51	131.21	-5,566.26	1,859.07	6,900.59	6,783.52	117.07	58.942	
5,900.00	5,551.08	5,125.00	5,125.00	34.94	88.51	131.21	-5,566.26	1,859.07	6,935.28	6,817.74	117.54	59.004	
6,000.00	5,641.56	5,125.00	5,125.00	35.75	88.51	131.21	-5,566.26	1,859.07	6,971.23	6,853.25	117.98	59.087	
6,100.00	5,732.03	5,125.00	5,125.00	36.55	88.51	131.21	-5,566.26	1,859.07	7,008.42	6,890.01	118.40	59.191	
6,200.00	5,822.50	5,125.00	5,125.00	37.35	88.51	131.21	-5,566.26	1,859.07	7,046.83	6,928.03	118.80	59.315	
6,300.00	5,912.97	5,125.00	5,125.00	38.16	88.51	131.21	-5,566.26	1,859.07	7,086.45	6,967.26	119.18	59.459	
6,400.00	6,003.45	5,125.00	5,125.00	38.96	88.51	131.21	-5,566.26	1,859.07	7,127.25	7,007.71	119.54	59.622	
6,500.00	6,093.92	5,125.00	5,125.00	39.77	88.51	131.21	-5,566.26	1,859.07	7,169.21	7,049.33	119.88	59.804	
6,600.00	6,184.39	5,125.00	5,125.00	40.57	88.51	131.21	-5,566.26	1,859.07	7,212.31	7,092.11	120.20	60.004	
6,700.00	6,274.87	5,125.00	5,125.00	41.38	88.51	131.21	-5,566.26	1,859.07	7,256.54	7,136.04	120.50	60.222	
6,800.00	6,365.34	5,125.00	5,125.00	42.18	88.51	131.21	-5,566.26	1,859.07	7,301.86	7,181.09	120.78	60.456	
6,900.00	6,455.81	5,125.00	5,125.00	42.99	88.51	131.21	-5,566.26	1,859.07	7,348.27	7,227.23	121.04	60.708	
7,000.00	6,546.28	5,125.00	5,125.00	43.80	88.51	131.21	-5,566.26	1,859.07	7,395.74	7,274.45	121.29	60.975	
7,100.00	6,636.76	5,125.00	5,125.00	44.61	88.51	131.21	-5,566.26	1,859.07	7,444.26	7,322.73	121.52	61.259	
7,200.00	6,727.23	5,125.00	5,125.00	45.41	88.51	131.21	-5,566.26	1,859.07	7,493.79	7,372.05	121.74	61.558	
7,300.00	6,817.70	5,125.00	5,125.00	46.22	88.51	131.21	-5,566.26	1,859.07	7,544.32	7,422.38	121.94	61.871	
7,383.79	6,893.51	5,125.00	5,125.00	46.90	88.51	131.21	-5,566.26	1,859.07	7,587.41	7,465.32	122.09	62.145	
7,400.00	6,908.25	5,125.00	5,125.00	47.03	88.51	129.00	-5,566.26	1,859.07	7,595.64	7,473.52	122.12	62.199	
7,450.00	6,954.52	5,125.00	5,125.00	47.40	88.51	120.40	-5,566.26	1,859.07	7,618.65	7,496.46	122.19	62.349	
7,500.00	7,001.74	5,125.00	5,125.00	47.72	88.51	108.53	-5,566.26	1,859.07	7,638.03	7,515.77	122.25	62.477	
7,550.00	7,049.55	5,125.00	5,125.00	47.99	88.51	93.29	-5,566.26	1,859.07	7,653.64	7,531.35	122.29	62.584	
7,600.00	7,097.58	5,125.00	5,125.00	48.21	88.51	76.20	-5,566.26	1,859.07	7,665.39	7,543.08	122.31	62.672	
7,650.00	7,145.48	5,125.00	5,125.00	48.37	88.51	60.19	-5,566.26	1,859.07	7,673.22	7,550.92	122.30	62.742	
7,700.00	7,192.88	5,125.00	5,125.00	48.48	88.51	47.27	-5,566.26	1,859.07	7,677.07	7,554.81	122.26	62.793	
7,750.00	7,239.41	5,125.00	5,125.00	48.54	88.51	37.60	-5,566.26	1,859.07	7,676.92	7,554.72	122.20	62.824	
7,800.00	7,284.72	5,125.00	5,125.00	48.56	88.51	30.49	-5,566.26	1,859.07	7,672.77	7,550.66	122.11	62.835	
7,850.00	7,328.47	5,125.00	5,125.00	48.54	88.51	25.20	-5,566.26	1,859.07	7,664.64	7,542.64	122.00	62.825	
7,900.00	7,370.32	5,125.00	5,125.00	48.47	88.51	21.15	-5,566.26	1,859.07	7,652.59	7,530.72	121.87	62.793	
7,950.00	7,409.96	5,125.00	5,125.00	48.37	88.51	17.97	-5,566.26	1,859.07	7,636.69	7,514.97	121.72	62.738	
8,000.00	7,447.08	5,125.00	5,125.00	48.24	88.51	15.39	-5,566.26	1,859.07	7,617.04	7,495.48	121.56	62.660	
8,050.00	7,481.41	5,125.00	5,125.00	48.07	88.51	13.22	-5,566.26	1,859.07	7,593.75	7,472.37	121.39	62.558	
8,100.00	7,512.67	5,125.00	5,125.00	47.87	88.51	11.33	-5,566.26	1,859.07	7,566.98	7,445.77	121.20	62.432	
8,150.00	7,540.64	5,125.00	5,125.00	47.65	88.51	9.61	-5,566.26	1,859.07	7,536.88	7,415.87	121.01	62.282	
8,200.00	7,565.09	5,125.00	5,125.00	47.40	88.51	7.97	-5,566.26	1,859.07	7,503.66	7,382.84	120.82	62.108	
8,250.00	7,585.85	5,125.00	5,125.00	47.14	88.51	6.32	-5,566.26	1,859.07	7,467.51	7,346.89	120.62	61.909	
8,300.00	7,602.75	5,125.00	5,125.00	46.86	88.51	4.54	-5,566.26	1,859.07	7,428.69	7,308.26	120.43	61.686	
8,350.00	7,615.67	5,125.00	5,125.00	46.58	88.51	2.50	-5,566.26	1,859.07	7,387.44	7,267.20	120.24	61.439	
8,400.00	7,624.51	5,125.00	5,125.00	46.28	88.51	-0.03	-5,566.26	1,859.07	7,344.04	7,223.97	120.06	61.169	
8,450.00	7,629.19	5,125.00	5,125.00	45.98	88.51	-3.43	-5,566.26	1,859.07	7,298.78	7,178.88	119.90	60.876	
8,481.00	7,630.00	5,125.00	5,125.00	45.79	88.51	-6.27	-5,566.26	1,859.07	7,269.92	7,150.12	119.80	60.684	
8,500.00	7,630.00	5,125.00	5,125.00	45.68	88.51	-6.27	-5,566.26	1,859.07	7,252.07	7,132.33	119.74	60.564	
8,600.00	7,630.00	5,125.00	5,125.00	45.11	88.51	-6.27	-5,566.26	1,859.07	7,158.23	7,038.80	119.43	59.936	
8,700.00	7,630.00	5,125.00	5,125.00	44.56	88.51	-6.27	-5,566.26	1,859.07	7,064.55	6,945.44	119.11	59.310	
8,800.00	7,630.00	5,125.00	5,125.00	44.05	88.51	-6.27	-5,566.26	1,859.07	6,971.05	6,852.27	118.79	58.685	
8,900.00	7,630.00	5,125.00	5,125.00	43.57	88.51	-6.27	-5,566.26	1,859.07	6,877.74	6,759.28	118.45	58.063	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,000.00	7,630.00	5,125.00	5,125.00	43.12	88.51	-6.27	-5,566.26	1,859.07	6,784.61	6,666.50	118.11	57.442	
9,100.00	7,630.00	5,125.00	5,125.00	42.70	88.51	-6.27	-5,566.26	1,859.07	6,691.68	6,573.92	117.76	56.823	
9,200.00	7,630.00	5,125.00	5,125.00	42.31	88.51	-6.27	-5,566.26	1,859.07	6,598.96	6,481.55	117.41	56.206	
9,300.00	7,630.00	5,125.00	5,125.00	41.94	88.51	-6.27	-5,566.26	1,859.07	6,506.46	6,389.41	117.04	55.591	
9,400.00	7,630.00	5,125.00	5,125.00	41.59	88.51	-6.27	-5,566.26	1,859.07	6,414.18	6,297.51	116.67	54.978	
9,500.00	7,630.00	5,125.00	5,125.00	41.26	88.51	-6.27	-5,566.26	1,859.07	6,322.13	6,205.84	116.29	54.367	
9,600.00	7,630.00	5,125.00	5,125.00	40.96	88.51	-6.27	-5,566.26	1,859.07	6,230.33	6,114.43	115.90	53.758	
9,700.00	7,630.00	5,125.00	5,125.00	40.68	88.51	-6.27	-5,566.26	1,859.07	6,138.79	6,023.29	115.50	53.151	
9,800.00	7,630.00	5,125.00	5,125.00	40.42	88.51	-6.27	-5,566.26	1,859.07	6,047.51	5,932.42	115.09	52.547	
9,900.00	7,630.00	5,125.00	5,125.00	40.17	88.51	-6.27	-5,566.26	1,859.07	5,956.51	5,841.84	114.67	51.945	
10,000.00	7,630.00	5,125.00	5,125.00	39.96	88.51	-6.27	-5,566.26	1,859.07	5,865.81	5,751.57	114.24	51.346	
10,100.00	7,630.00	5,125.00	5,125.00	40.05	88.51	-6.27	-5,566.26	1,859.07	5,775.41	5,661.61	113.80	50.749	
10,200.00	7,630.00	5,125.00	5,125.00	40.95	88.51	-6.27	-5,566.26	1,859.07	5,685.34	5,571.98	113.36	50.155	
10,300.00	7,630.00	5,125.00	5,125.00	41.94	88.51	-6.27	-5,566.26	1,859.07	5,595.60	5,482.70	112.90	49.563	
10,400.00	7,630.00	5,125.00	5,125.00	42.98	88.51	-6.27	-5,566.26	1,859.07	5,506.22	5,393.79	112.43	48.974	
10,500.00	7,630.00	5,125.00	5,125.00	44.06	88.51	-6.27	-5,566.26	1,859.07	5,417.20	5,305.25	111.95	48.388	
10,600.00	7,630.00	5,125.00	5,125.00	45.17	88.51	-6.27	-5,566.26	1,859.07	5,328.58	5,217.12	111.47	47.805	
10,700.00	7,630.00	5,125.00	5,125.00	46.32	88.51	-6.27	-5,566.26	1,859.07	5,240.37	5,129.40	110.97	47.224	
10,800.00	7,630.00	5,125.00	5,125.00	47.50	88.51	-6.27	-5,566.26	1,859.07	5,152.59	5,042.12	110.46	46.646	
10,900.00	7,630.00	5,125.00	5,125.00	48.70	88.51	-6.27	-5,566.26	1,859.07	5,065.26	4,955.31	109.94	46.071	
11,000.00	7,630.00	5,125.00	5,125.00	49.94	88.51	-6.27	-5,566.26	1,859.07	4,978.40	4,868.98	109.42	45.499	
11,100.00	7,630.00	5,125.00	5,125.00	51.20	88.51	-6.27	-5,566.26	1,859.07	4,892.05	4,783.17	108.88	44.930	
11,200.00	7,630.00	5,125.00	5,125.00	52.48	88.51	-6.27	-5,566.26	1,859.07	4,806.23	4,697.89	108.34	44.363	
11,300.00	7,630.00	5,125.00	5,125.00	53.79	88.51	-6.27	-5,566.26	1,859.07	4,720.97	4,613.18	107.78	43.800	
11,400.00	7,630.00	5,125.00	5,125.00	55.12	88.51	-6.27	-5,566.26	1,859.07	4,636.29	4,529.07	107.22	43.239	
11,500.00	7,630.00	5,125.00	5,125.00	56.46	88.51	-6.27	-5,566.26	1,859.07	4,552.24	4,445.58	106.66	42.681	
11,600.00	7,630.00	5,125.00	5,125.00	57.83	88.51	-6.27	-5,566.26	1,859.07	4,468.84	4,362.76	106.08	42.127	
11,700.00	7,630.00	5,125.00	5,125.00	59.22	88.51	-6.27	-5,566.26	1,859.07	4,386.14	4,280.64	105.50	41.575	
11,800.00	7,630.00	5,125.00	5,125.00	60.62	88.51	-6.27	-5,566.26	1,859.07	4,304.17	4,199.26	104.91	41.025	
11,900.00	7,630.00	5,125.00	5,125.00	62.04	88.51	-6.27	-5,566.26	1,859.07	4,222.98	4,118.66	104.32	40.479	
12,000.00	7,630.00	5,125.00	5,125.00	63.48	88.51	-6.27	-5,566.26	1,859.07	4,142.62	4,038.88	103.73	39.936	
12,100.00	7,630.00	5,125.00	5,125.00	64.93	88.51	-6.27	-5,566.26	1,859.07	4,063.12	3,959.98	103.14	39.396	
12,200.00	7,630.00	5,125.00	5,125.00	66.39	88.51	-6.27	-5,566.26	1,859.07	3,984.55	3,882.01	102.54	38.859	
12,300.00	7,630.00	5,125.00	5,125.00	67.86	88.51	-6.27	-5,566.26	1,859.07	3,906.96	3,805.01	101.94	38.326	
12,400.00	7,630.00	5,125.00	5,125.00	69.35	88.51	-6.27	-5,566.26	1,859.07	3,830.40	3,729.06	101.34	37.796	
12,500.00	7,630.00	5,125.00	5,125.00	70.85	88.51	-6.27	-5,566.26	1,859.07	3,754.95	3,654.20	100.75	37.271	
12,600.00	7,630.00	5,125.00	5,125.00	72.36	88.51	-6.27	-5,566.26	1,859.07	3,680.67	3,580.52	100.15	36.751	
12,700.00	7,630.00	5,125.00	5,125.00	73.88	88.51	-6.27	-5,566.26	1,859.07	3,607.63	3,508.07	99.56	36.237	
12,800.00	7,630.00	5,125.00	5,125.00	75.41	88.51	-6.27	-5,566.26	1,859.07	3,535.91	3,436.95	98.97	35.729	
12,900.00	7,630.00	5,125.00	5,125.00	76.95	88.51	-6.27	-5,566.26	1,859.07	3,465.60	3,367.22	98.38	35.228	
13,000.00	7,630.00	5,125.00	5,125.00	78.49	88.51	-6.27	-5,566.26	1,859.07	3,396.77	3,298.98	97.79	34.737	
13,100.00	7,630.00	5,125.00	5,125.00	80.05	88.51	-6.27	-5,566.26	1,859.07	3,329.52	3,232.33	97.20	34.256	
13,200.00	7,630.00	5,125.00	5,125.00	81.61	88.51	-6.27	-5,566.26	1,859.07	3,263.95	3,167.35	96.61	33.786	
13,300.00	7,630.00	5,125.00	5,125.00	83.18	88.51	-6.27	-5,566.26	1,859.07	3,200.17	3,104.15	96.01	33.331	
13,400.00	7,630.00	5,125.00	5,125.00	84.76	88.51	-6.27	-5,566.26	1,859.07	3,138.27	3,042.86	95.41	32.891	
13,500.00	7,630.00	5,125.00	5,125.00	86.34	88.51	-6.27	-5,566.26	1,859.07	3,078.38	2,983.57	94.81	32.470	
13,600.00	7,630.00	5,125.00	5,125.00	87.94	88.51	-6.27	-5,566.26	1,859.07	3,020.61	2,926.42	94.19	32.070	
13,700.00	7,630.00	5,125.00	5,125.00	89.53	88.51	-6.27	-5,566.26	1,859.07	2,965.09	2,871.54	93.56	31.692	
13,800.00	7,630.00	5,125.00	5,125.00	91.13	88.51	-6.27	-5,566.26	1,859.07	2,911.95	2,819.04	92.91	31.341	
13,900.00	7,630.00	5,125.00	5,125.00	92.74	88.51	-6.27	-5,566.26	1,859.07	2,861.32	2,769.07	92.25	31.018	
14,000.00	7,630.00	5,125.00	5,125.00	94.35	88.51	-6.27	-5,566.26	1,859.07	2,813.33	2,721.77	91.56	30.727	
14,100.00	7,630.00	5,125.00	5,125.00	95.97	88.51	-6.27	-5,566.26	1,859.07	2,768.12	2,677.27	90.85	30.469	

Anticollision Report

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,630.00	5,125.00	5,125.00	97.60	88.51	-6.27	-5,566.26	1,859.07	2,725.83	2,635.71	90.12	30.246	
14,300.00	7,630.00	5,125.00	5,125.00	99.22	88.51	-6.27	-5,566.26	1,859.07	2,686.60	2,597.23	89.38	30.060	
14,400.00	7,630.00	5,125.00	5,125.00	100.85	88.51	-6.27	-5,566.26	1,859.07	2,650.57	2,561.95	88.62	29.909	
14,500.00	7,630.00	5,125.00	5,125.00	102.49	88.51	-6.27	-5,566.26	1,859.07	2,617.86	2,529.99	87.87	29.794	
14,600.00	7,630.00	5,125.00	5,125.00	104.13	88.51	-6.27	-5,566.26	1,859.07	2,588.61	2,501.47	87.14	29.708	
14,700.00	7,630.00	5,125.00	5,125.00	105.77	88.51	-6.27	-5,566.26	1,859.07	2,562.92	2,476.46	86.45	29.645	
14,800.00	7,630.00	5,125.00	5,125.00	107.42	88.51	-6.27	-5,566.26	1,859.07	2,540.91	2,455.04	85.87	29.591	
14,900.00	7,630.00	5,125.00	5,125.00	109.07	88.51	-6.27	-5,566.26	1,859.07	2,522.68	2,437.24	85.44	29.527	
15,000.00	7,630.00	5,125.00	5,125.00	110.72	88.51	-6.27	-5,566.26	1,859.07	2,508.30	2,423.06	85.24	29.426	
15,100.00	7,630.00	5,125.00	5,125.00	112.38	88.51	-6.27	-5,566.26	1,859.07	2,497.85	2,412.47	85.38	29.256	
15,200.00	7,630.00	5,125.00	5,125.00	114.04	88.51	-6.27	-5,566.26	1,859.07	2,491.37	2,405.41	85.96	28.983	
15,300.00	7,630.00	5,125.00	5,125.00	115.71	88.51	-6.27	-5,566.26	1,859.07	2,488.90	2,401.83	87.07	28.585	
15,311.61	7,630.00	5,125.00	5,125.00	115.90	88.51	-6.27	-5,566.26	1,859.07	2,488.87	2,401.64	87.24	28.530	CC, ES
15,400.00	7,630.00	5,125.00	5,125.00	117.37	88.51	-6.27	-5,566.26	1,859.07	2,490.44	2,401.69	88.75	28.062	
15,500.00	7,630.00	5,125.00	5,125.00	119.04	88.51	-6.27	-5,566.26	1,859.07	2,495.99	2,405.04	90.95	27.443	
15,600.00	7,630.00	5,125.00	5,125.00	120.71	88.51	-6.27	-5,566.26	1,859.07	2,505.52	2,411.94	93.59	26.772	
15,700.00	7,630.00	5,125.00	5,125.00	122.39	88.51	-6.27	-5,566.26	1,859.07	2,518.99	2,422.46	96.53	26.094	
15,800.00	7,630.00	5,125.00	5,125.00	124.06	88.51	-6.27	-5,566.26	1,859.07	2,536.34	2,436.67	99.67	25.447	
15,900.00	7,630.00	5,125.00	5,125.00	125.74	88.51	-6.27	-5,566.26	1,859.07	2,557.48	2,454.58	102.90	24.855	
16,000.00	7,630.00	5,125.00	5,125.00	127.42	88.51	-6.27	-5,566.26	1,859.07	2,582.32	2,476.18	106.14	24.330	
16,100.00	7,630.00	5,125.00	5,125.00	129.10	88.51	-6.27	-5,566.26	1,859.07	2,610.75	2,501.42	109.33	23.879	
16,200.00	7,630.00	5,125.00	5,125.00	130.79	88.51	-6.27	-5,566.26	1,859.07	2,642.67	2,530.23	112.44	23.503	
16,300.00	7,630.00	5,125.00	5,125.00	132.48	88.51	-6.27	-5,566.26	1,859.07	2,677.95	2,562.52	115.43	23.200	
16,400.00	7,630.00	5,125.00	5,125.00	134.17	88.51	-6.27	-5,566.26	1,859.07	2,716.44	2,598.16	118.29	22.965	
16,500.00	7,630.00	5,125.00	5,125.00	135.86	88.51	-6.27	-5,566.26	1,859.07	2,758.03	2,637.04	120.99	22.795	
16,600.00	7,630.00	5,125.00	5,125.00	137.55	88.51	-6.27	-5,566.26	1,859.07	2,802.57	2,679.03	123.55	22.684	
16,700.00	7,630.00	5,125.00	5,125.00	139.24	88.51	-6.27	-5,566.26	1,859.07	2,849.93	2,723.99	125.94	22.629	
16,800.00	7,630.00	5,125.00	5,125.00	140.94	88.51	-6.27	-5,566.26	1,859.07	2,899.96	2,771.78	128.18	22.624	SF
16,900.00	7,630.00	5,125.00	5,125.00	142.64	88.51	-6.27	-5,566.26	1,859.07	2,952.53	2,822.27	130.27	22.666	
17,000.00	7,630.00	5,125.00	5,125.00	144.34	88.51	-6.27	-5,566.26	1,859.07	3,007.51	2,875.31	132.20	22.750	
17,100.00	7,630.00	5,125.00	5,125.00	146.04	88.51	-6.27	-5,566.26	1,859.07	3,064.77	2,930.78	133.99	22.872	
17,200.00	7,630.00	5,125.00	5,125.00	147.74	88.51	-6.27	-5,566.26	1,859.07	3,124.18	2,988.53	135.65	23.031	
17,300.00	7,630.00	5,125.00	5,125.00	149.44	88.51	-6.27	-5,566.26	1,859.07	3,185.62	3,048.44	137.18	23.222	
17,400.00	7,630.00	5,125.00	5,125.00	151.15	88.51	-6.27	-5,566.26	1,859.07	3,248.98	3,110.39	138.59	23.444	
17,500.00	7,630.00	5,125.00	5,125.00	152.86	88.51	-6.27	-5,566.26	1,859.07	3,314.14	3,174.26	139.88	23.693	
17,600.00	7,630.00	5,125.00	5,125.00	154.56	88.51	-6.27	-5,566.26	1,859.07	3,381.01	3,239.94	141.07	23.967	
17,700.00	7,630.00	5,125.00	5,125.00	156.27	88.51	-6.27	-5,566.26	1,859.07	3,449.47	3,307.32	142.16	24.265	
17,800.00	7,630.00	5,125.00	5,125.00	157.98	88.51	-6.27	-5,566.26	1,859.07	3,519.45	3,376.30	143.16	24.585	
17,900.00	7,630.00	5,125.00	5,125.00	159.70	88.51	-6.27	-5,566.26	1,859.07	3,590.85	3,446.78	144.07	24.924	
18,000.00	7,630.00	5,125.00	5,125.00	161.41	88.51	-6.27	-5,566.26	1,859.07	3,663.59	3,518.69	144.91	25.283	
18,100.00	7,630.00	5,125.00	5,125.00	163.12	88.51	-6.27	-5,566.26	1,859.07	3,737.59	3,591.92	145.67	25.658	
18,154.00	7,630.00	5,125.00	5,125.00	164.05	88.51	-6.27	-5,566.26	1,859.07	3,778.05	3,632.00	146.06	25.867	

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	150.11	-5,537.71	3,183.22	6,387.49				
100.00	100.00	69.00	69.00	0.13	0.56	150.11	-5,537.71	3,183.22	6,387.42	6,386.72	0.69	9,198.249	
200.00	200.00	169.00	169.00	0.49	2.02	150.11	-5,537.71	3,183.22	6,387.42	6,384.91	2.51	2,546.050	
300.00	300.00	269.00	269.00	0.85	3.76	150.11	-5,537.71	3,183.22	6,387.42	6,382.80	4.61	1,384.789	
400.00	400.00	369.00	369.00	1.21	5.51	150.11	-5,537.71	3,183.22	6,387.42	6,380.70	6.72	951.024	
500.00	500.00	469.00	469.00	1.57	7.25	150.11	-5,537.71	3,183.22	6,387.42	6,378.60	8.82	724.184	
600.00	600.00	569.00	569.00	1.93	9.00	150.11	-5,537.71	3,183.22	6,387.42	6,376.49	10.92	584.716	
700.00	700.00	669.00	669.00	2.29	10.74	150.11	-5,537.71	3,183.22	6,387.42	6,374.39	13.03	490.293	
800.00	800.00	769.00	769.00	2.64	12.49	150.11	-5,537.71	3,183.22	6,387.42	6,372.28	15.13	422.125	
900.00	900.00	869.00	869.00	3.00	14.23	150.11	-5,537.71	3,183.22	6,387.42	6,370.18	17.24	370.599	
1,000.00	1,000.00	969.00	969.00	3.36	15.98	150.11	-5,537.71	3,183.22	6,387.42	6,368.08	19.34	330.284	
1,100.00	1,100.00	1,069.00	1,069.00	3.72	17.72	150.11	-5,537.71	3,183.22	6,387.42	6,365.97	21.44	297.879	
1,200.00	1,200.00	1,169.00	1,169.00	4.08	19.47	150.11	-5,537.71	3,183.22	6,387.42	6,363.87	23.55	271.265	
1,300.00	1,300.00	1,269.00	1,269.00	4.44	21.21	150.11	-5,537.71	3,183.22	6,387.42	6,361.77	25.65	249.017	
1,400.00	1,400.00	1,369.00	1,369.00	4.79	22.96	150.11	-5,537.71	3,183.22	6,387.42	6,359.66	27.75	230.141	
1,500.00	1,499.98	1,468.98	1,468.98	5.15	24.70	112.30	-5,537.71	3,183.22	6,388.08	6,358.22	29.86	213.964	
1,600.00	1,599.84	1,568.84	1,568.84	5.51	26.45	112.31	-5,537.71	3,183.22	6,390.07	6,358.11	31.95	199.974	
1,700.00	1,699.45	1,668.45	1,668.45	5.87	28.19	112.32	-5,537.71	3,183.22	6,393.39	6,359.34	34.05	187.757	
1,800.00	1,798.70	1,767.70	1,767.70	6.23	29.92	112.34	-5,537.71	3,183.22	6,398.05	6,361.90	36.15	177.000	
1,900.00	1,897.47	1,866.47	1,866.47	6.60	31.64	112.35	-5,537.71	3,183.22	6,404.06	6,365.82	38.24	167.457	
2,000.00	1,995.62	1,964.62	1,964.62	6.99	33.36	112.37	-5,537.71	3,183.22	6,411.43	6,371.09	40.34	158.933	
2,100.00	2,093.06	2,062.06	2,062.06	7.39	35.06	112.39	-5,537.71	3,183.22	6,420.19	6,377.75	42.44	151.270	
2,200.00	2,189.64	2,158.64	2,158.64	7.82	36.74	112.41	-5,537.71	3,183.22	6,430.35	6,385.80	44.55	144.344	
2,300.00	2,285.27	2,254.27	2,254.27	8.28	38.41	112.42	-5,537.71	3,183.22	6,441.93	6,395.27	46.66	138.050	
2,400.00	2,379.82	2,348.82	2,348.82	8.77	40.06	112.44	-5,537.71	3,183.22	6,454.96	6,406.17	48.79	132.306	
2,500.00	2,473.17	2,442.17	2,442.17	9.31	41.69	112.44	-5,537.71	3,183.22	6,469.46	6,418.53	50.92	127.042	
2,600.00	2,565.21	2,534.21	2,534.21	9.88	43.30	112.44	-5,537.71	3,183.22	6,485.45	6,432.38	53.07	122.201	
2,660.67	2,620.37	2,589.37	2,589.37	10.25	44.26	112.43	-5,537.71	3,183.22	6,495.90	6,441.52	54.38	119.451	
2,700.00	2,655.96	2,624.96	2,624.96	10.50	44.88	112.56	-5,537.71	3,183.22	6,502.88	6,447.64	55.23	117.736	
2,800.00	2,746.43	2,715.43	2,715.43	11.15	46.46	112.88	-5,537.71	3,183.22	6,520.77	6,463.35	57.41	113.579	
2,900.00	2,836.90	2,805.90	2,805.90	11.82	48.04	113.19	-5,537.71	3,183.22	6,538.89	6,479.28	59.61	109.699	
3,000.00	2,927.37	2,903.63	2,896.37	12.50	49.74	113.51	-5,537.71	3,183.22	6,557.23	6,495.29	61.94	105.859	
3,100.00	3,017.85	2,986.85	2,986.85	13.21	51.20	113.82	-5,537.71	3,183.22	6,575.80	6,511.77	64.04	102.688	
3,200.00	3,108.32	3,077.32	3,077.32	13.92	52.78	114.13	-5,537.71	3,183.22	6,594.60	6,528.33	66.27	99.518	
3,300.00	3,198.79	3,167.79	3,167.79	14.64	54.35	114.45	-5,537.71	3,183.22	6,613.61	6,545.11	68.50	96.548	
3,400.00	3,289.27	3,258.27	3,258.27	15.38	55.93	114.75	-5,537.71	3,183.22	6,632.85	6,562.11	70.74	93.760	
3,500.00	3,379.74	3,348.74	3,348.74	16.12	57.51	115.06	-5,537.71	3,183.22	6,652.30	6,579.31	72.99	91.141	
3,600.00	3,470.21	3,439.21	3,439.21	16.87	59.09	115.37	-5,537.71	3,183.22	6,671.97	6,596.73	75.24	88.678	
3,700.00	3,560.68	3,529.68	3,529.68	17.62	60.67	115.67	-5,537.71	3,183.22	6,691.85	6,614.36	77.49	86.357	
3,800.00	3,651.16	3,620.16	3,620.16	18.39	62.25	115.97	-5,537.71	3,183.22	6,711.94	6,632.19	79.75	84.167	
3,900.00	3,741.63	3,710.63	3,710.63	19.15	63.83	116.28	-5,537.71	3,183.22	6,732.24	6,650.24	82.00	82.099	
4,000.00	3,832.10	3,801.10	3,801.10	19.92	65.41	116.58	-5,537.71	3,183.22	6,752.75	6,668.49	84.26	80.144	
4,100.00	3,922.57	3,908.43	3,891.57	20.69	67.28	116.87	-5,537.71	3,183.22	6,773.46	6,686.66	86.81	78.027	
4,200.00	4,013.05	3,982.05	3,982.05	21.47	68.57	117.17	-5,537.71	3,183.22	6,794.38	6,705.61	88.77	76.537	
4,300.00	4,103.52	4,072.52	4,072.52	22.25	70.15	117.46	-5,537.71	3,183.22	6,815.50	6,724.47	91.03	74.871	
4,400.00	4,193.99	4,162.99	4,162.99	23.03	71.72	117.76	-5,537.71	3,183.22	6,836.82	6,743.54	93.29	73.289	
4,500.00	4,284.47	4,253.47	4,253.47	23.81	73.30	118.05	-5,537.71	3,183.22	6,858.34	6,762.80	95.54	71.784	
4,600.00	4,374.94	4,343.94	4,343.94	24.60	74.88	118.34	-5,537.71	3,183.22	6,880.06	6,782.26	97.80	70.350	
4,700.00	4,465.41	4,434.41	4,434.41	25.39	76.46	118.63	-5,537.71	3,183.22	6,901.97	6,801.92	100.05	68.985	
4,800.00	4,555.88	4,524.88	4,524.88	26.18	78.04	118.92	-5,537.71	3,183.22	6,924.07	6,821.77	102.30	67.682	
4,900.00	4,646.36	4,615.36	4,615.36	26.97	79.62	119.20	-5,537.71	3,183.22	6,946.37	6,841.81	104.55	66.438	
5,000.00	4,736.83	4,705.83	4,705.83	27.76	81.20	119.49	-5,537.71	3,183.22	6,968.85	6,862.05	106.80	65.249	

Anticollision Report

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,827.30	4,803.70	4,796.30	28.55	82.91	119.77	-5,537.71	3,183.22	6,991.52	6,882.34	109.18	64.037	
5,200.00	4,917.77	4,886.77	4,886.77	29.35	84.36	120.05	-5,537.71	3,183.22	7,014.38	6,903.08	111.30	63.024	
5,300.00	5,008.25	4,977.25	4,977.25	30.15	85.94	120.33	-5,537.71	3,183.22	7,037.42	6,923.88	113.54	61.982	
5,400.00	5,098.72	5,067.72	5,067.72	30.94	87.51	120.61	-5,537.71	3,183.22	7,060.64	6,944.86	115.78	60.982	
5,500.00	5,189.19	5,148.00	5,148.00	31.74	88.92	120.85	-5,537.71	3,183.22	7,084.05	6,966.21	117.84	60.115	
5,600.00	5,279.67	5,148.00	5,148.00	32.54	88.92	120.85	-5,537.71	3,183.22	7,108.33	6,989.87	118.46	60.007	
5,700.00	5,370.14	5,148.00	5,148.00	33.34	88.92	120.85	-5,537.71	3,183.22	7,133.94	7,014.88	119.05	59.923	
5,800.00	5,460.61	5,148.00	5,148.00	34.14	88.92	120.85	-5,537.71	3,183.22	7,160.85	7,041.22	119.63	59.861	
5,900.00	5,551.08	5,148.00	5,148.00	34.94	88.92	120.85	-5,537.71	3,183.22	7,189.04	7,068.87	120.18	59.821	
6,000.00	5,641.56	5,148.00	5,148.00	35.75	88.92	120.85	-5,537.71	3,183.22	7,218.52	7,097.81	120.71	59.803	
6,100.00	5,732.03	5,148.00	5,148.00	36.55	88.92	120.85	-5,537.71	3,183.22	7,249.25	7,128.04	121.21	59.806	
6,200.00	5,822.50	5,148.00	5,148.00	37.35	88.92	120.85	-5,537.71	3,183.22	7,281.23	7,159.53	121.70	59.829	
6,300.00	5,912.97	5,148.00	5,148.00	38.16	88.92	120.85	-5,537.71	3,183.22	7,314.44	7,192.27	122.17	59.873	
6,400.00	6,003.45	5,148.00	5,148.00	38.96	88.92	120.85	-5,537.71	3,183.22	7,348.86	7,226.24	122.61	59.936	
6,500.00	6,093.92	5,148.00	5,148.00	39.77	88.92	120.85	-5,537.71	3,183.22	7,384.47	7,261.43	123.04	60.018	
6,600.00	6,184.39	5,148.00	5,148.00	40.57	88.92	120.85	-5,537.71	3,183.22	7,421.25	7,297.81	123.44	60.119	
6,700.00	6,274.87	5,148.00	5,148.00	41.38	88.92	120.85	-5,537.71	3,183.22	7,459.20	7,335.37	123.83	60.238	
6,800.00	6,365.34	5,148.00	5,148.00	42.18	88.92	120.85	-5,537.71	3,183.22	7,498.29	7,374.09	124.19	60.375	
6,900.00	6,455.81	5,148.00	5,148.00	42.99	88.92	120.85	-5,537.71	3,183.22	7,538.50	7,413.96	124.54	60.529	
7,000.00	6,546.28	5,148.00	5,148.00	43.80	88.92	120.85	-5,537.71	3,183.22	7,579.82	7,454.95	124.87	60.700	
7,100.00	6,636.76	5,148.00	5,148.00	44.61	88.92	120.85	-5,537.71	3,183.22	7,622.23	7,497.04	125.19	60.888	
7,200.00	6,727.23	5,148.00	5,148.00	45.41	88.92	120.85	-5,537.71	3,183.22	7,665.70	7,540.22	125.48	61.091	
7,300.00	6,817.70	5,148.00	5,148.00	46.22	88.92	120.85	-5,537.71	3,183.22	7,710.23	7,584.47	125.76	61.310	
7,383.79	6,893.51	5,148.00	5,148.00	46.90	88.92	120.85	-5,537.71	3,183.22	7,748.34	7,622.36	125.98	61.505	
7,400.00	6,908.25	5,148.00	5,148.00	47.03	88.92	118.76	-5,537.71	3,183.22	7,755.60	7,629.58	126.02	61.543	
7,450.00	6,954.52	5,148.00	5,148.00	47.40	88.92	110.47	-5,537.71	3,183.22	7,775.68	7,649.56	126.13	61.649	
7,500.00	7,001.74	5,148.00	5,148.00	47.72	88.92	98.86	-5,537.71	3,183.22	7,792.18	7,665.97	126.21	61.737	
7,550.00	7,049.55	5,148.00	5,148.00	47.99	88.92	83.79	-5,537.71	3,183.22	7,805.00	7,678.72	126.28	61.809	
7,600.00	7,097.58	5,148.00	5,148.00	48.21	88.92	66.81	-5,537.71	3,183.22	7,814.04	7,687.74	126.30	61.867	
7,650.00	7,145.48	5,148.00	5,148.00	48.37	88.92	50.85	-5,537.71	3,183.22	7,819.26	7,692.96	126.30	61.909	
7,700.00	7,192.88	5,148.00	5,148.00	48.48	88.92	37.92	-5,537.71	3,183.22	7,820.63	7,694.36	126.27	61.937	
7,750.00	7,239.41	5,148.00	5,148.00	48.54	88.92	28.18	-5,537.71	3,183.22	7,818.13	7,691.93	126.20	61.950	
7,800.00	7,284.72	5,148.00	5,148.00	48.56	88.92	20.94	-5,537.71	3,183.22	7,811.79	7,685.68	126.11	61.945	
7,850.00	7,328.47	5,148.00	5,148.00	48.54	88.92	15.45	-5,537.71	3,183.22	7,801.63	7,675.64	125.99	61.923	
7,900.00	7,370.32	5,148.00	5,148.00	48.47	88.92	11.14	-5,537.71	3,183.22	7,787.73	7,661.88	125.85	61.883	
7,950.00	7,409.96	5,148.00	5,148.00	48.37	88.92	7.60	-5,537.71	3,183.22	7,770.17	7,644.49	125.68	61.823	
8,000.00	7,447.08	5,148.00	5,148.00	48.24	88.92	4.58	-5,537.71	3,183.22	7,749.06	7,623.55	125.50	61.745	
8,050.00	7,481.41	5,148.00	5,148.00	48.07	88.92	1.85	-5,537.71	3,183.22	7,724.52	7,599.22	125.30	61.646	
8,100.00	7,512.67	5,148.00	5,148.00	47.87	88.92	-0.73	-5,537.71	3,183.22	7,696.73	7,571.63	125.09	61.528	
8,150.00	7,540.64	5,148.00	5,148.00	47.65	88.92	-3.29	-5,537.71	3,183.22	7,665.85	7,540.97	124.87	61.389	
8,200.00	7,565.09	5,148.00	5,148.00	47.40	88.92	-5.98	-5,537.71	3,183.22	7,632.08	7,507.43	124.65	61.230	
8,250.00	7,585.85	5,148.00	5,148.00	47.14	88.92	-8.94	-5,537.71	3,183.22	7,595.64	7,471.22	124.42	61.050	
8,300.00	7,602.75	5,148.00	5,148.00	46.86	88.92	-12.35	-5,537.71	3,183.22	7,556.77	7,432.59	124.19	60.851	
8,350.00	7,615.67	5,148.00	5,148.00	46.58	88.92	-16.43	-5,537.71	3,183.22	7,515.74	7,391.78	123.96	60.631	
8,400.00	7,624.51	5,148.00	5,148.00	46.28	88.92	-21.52	-5,537.71	3,183.22	7,472.83	7,349.09	123.74	60.393	
8,450.00	7,629.19	5,148.00	5,148.00	45.98	88.92	-28.05	-5,537.71	3,183.22	7,428.32	7,304.79	123.53	60.135	
8,481.00	7,630.00	5,148.00	5,148.00	45.79	88.92	-33.07	-5,537.71	3,183.22	7,400.06	7,276.66	123.40	59.967	
8,500.00	7,630.00	5,148.00	5,148.00	45.68	88.92	-33.07	-5,537.71	3,183.22	7,382.61	7,259.28	123.33	59.862	
8,600.00	7,630.00	5,148.00	5,148.00	45.11	88.92	-33.07	-5,537.71	3,183.22	7,290.90	7,167.98	122.92	59.312	
8,700.00	7,630.00	5,148.00	5,148.00	44.56	88.92	-33.07	-5,537.71	3,183.22	7,199.41	7,076.90	122.52	58.763	
8,800.00	7,630.00	5,148.00	5,148.00	44.05	88.92	-33.07	-5,537.71	3,183.22	7,108.15	6,986.05	122.10	58.215	
8,900.00	7,630.00	5,148.00	5,148.00	43.57	88.92	-33.07	-5,537.71	3,183.22	7,017.13	6,895.45	121.68	57.668	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,000.00	7,630.00	5,148.00	5,148.00	43.12	88.92	-33.07	-5,537.71	3,183.22	6,926.35	6,805.10	121.26	57.122	
9,100.00	7,630.00	5,148.00	5,148.00	42.70	88.92	-33.07	-5,537.71	3,183.22	6,835.84	6,715.01	120.83	56.576	
9,200.00	7,630.00	5,148.00	5,148.00	42.31	88.92	-33.07	-5,537.71	3,183.22	6,745.59	6,625.20	120.39	56.031	
9,300.00	7,630.00	5,148.00	5,148.00	41.94	88.92	-33.07	-5,537.71	3,183.22	6,655.62	6,535.67	119.95	55.487	
9,400.00	7,630.00	5,148.00	5,148.00	41.59	88.92	-33.07	-5,537.71	3,183.22	6,565.94	6,446.43	119.50	54.943	
9,500.00	7,630.00	5,148.00	5,148.00	41.26	88.92	-33.07	-5,537.71	3,183.22	6,476.56	6,357.50	119.05	54.400	
9,600.00	7,630.00	5,148.00	5,148.00	40.96	88.92	-33.07	-5,537.71	3,183.22	6,387.49	6,268.89	118.60	53.856	
9,700.00	7,630.00	5,148.00	5,148.00	40.68	88.92	-33.07	-5,537.71	3,183.22	6,298.76	6,180.61	118.15	53.313	
9,800.00	7,630.00	5,148.00	5,148.00	40.42	88.92	-33.07	-5,537.71	3,183.22	6,210.37	6,092.68	117.69	52.769	
9,900.00	7,630.00	5,148.00	5,148.00	40.17	88.92	-33.07	-5,537.71	3,183.22	6,122.33	6,005.10	117.23	52.225	
10,000.00	7,630.00	5,148.00	5,148.00	39.96	88.92	-33.07	-5,537.71	3,183.22	6,034.67	5,917.90	116.77	51.680	
10,100.00	7,630.00	5,148.00	5,148.00	40.05	88.92	-33.07	-5,537.71	3,183.22	5,947.39	5,831.08	116.31	51.134	
10,200.00	7,630.00	5,148.00	5,148.00	40.95	88.92	-33.07	-5,537.71	3,183.22	5,860.53	5,744.67	115.85	50.586	
10,300.00	7,630.00	5,148.00	5,148.00	41.94	88.92	-33.07	-5,537.71	3,183.22	5,774.08	5,658.69	115.40	50.036	
10,400.00	7,630.00	5,148.00	5,148.00	42.98	88.92	-33.07	-5,537.71	3,183.22	5,688.09	5,573.14	114.95	49.485	
10,500.00	7,630.00	5,148.00	5,148.00	44.06	88.92	-33.07	-5,537.71	3,183.22	5,602.55	5,488.05	114.50	48.930	
10,600.00	7,630.00	5,148.00	5,148.00	45.17	88.92	-33.07	-5,537.71	3,183.22	5,517.51	5,403.45	114.06	48.373	
10,700.00	7,630.00	5,148.00	5,148.00	46.32	88.92	-33.07	-5,537.71	3,183.22	5,432.97	5,319.34	113.63	47.812	
10,800.00	7,630.00	5,148.00	5,148.00	47.50	88.92	-33.07	-5,537.71	3,183.22	5,348.97	5,235.75	113.21	47.246	
10,900.00	7,630.00	5,148.00	5,148.00	48.70	88.92	-33.07	-5,537.71	3,183.22	5,265.52	5,152.72	112.81	46.676	
11,000.00	7,630.00	5,148.00	5,148.00	49.94	88.92	-33.07	-5,537.71	3,183.22	5,182.67	5,070.25	112.42	46.101	
11,100.00	7,630.00	5,148.00	5,148.00	51.20	88.92	-33.07	-5,537.71	3,183.22	5,100.42	4,988.37	112.05	45.520	
11,200.00	7,630.00	5,148.00	5,148.00	52.48	88.92	-33.07	-5,537.71	3,183.22	5,018.82	4,907.13	111.70	44.932	
11,300.00	7,630.00	5,148.00	5,148.00	53.79	88.92	-33.07	-5,537.71	3,183.22	4,937.90	4,826.53	111.37	44.338	
11,400.00	7,630.00	5,148.00	5,148.00	55.12	88.92	-33.07	-5,537.71	3,183.22	4,857.69	4,746.62	111.07	43.736	
11,500.00	7,630.00	5,148.00	5,148.00	56.46	88.92	-33.07	-5,537.71	3,183.22	4,778.23	4,667.43	110.80	43.126	
11,600.00	7,630.00	5,148.00	5,148.00	57.83	88.92	-33.07	-5,537.71	3,183.22	4,699.55	4,588.99	110.56	42.507	
11,700.00	7,630.00	5,148.00	5,148.00	59.22	88.92	-33.07	-5,537.71	3,183.22	4,621.69	4,511.33	110.35	41.880	
11,800.00	7,630.00	5,148.00	5,148.00	60.62	88.92	-33.07	-5,537.71	3,183.22	4,544.70	4,434.51	110.19	41.244	
11,900.00	7,630.00	5,148.00	5,148.00	62.04	88.92	-33.07	-5,537.71	3,183.22	4,468.62	4,358.56	110.07	40.600	
12,000.00	7,630.00	5,148.00	5,148.00	63.48	88.92	-33.07	-5,537.71	3,183.22	4,393.50	4,283.52	109.99	39.946	
12,100.00	7,630.00	5,148.00	5,148.00	64.93	88.92	-33.07	-5,537.71	3,183.22	4,319.39	4,209.44	109.95	39.284	
12,200.00	7,630.00	5,148.00	5,148.00	66.39	88.92	-33.07	-5,537.71	3,183.22	4,246.34	4,136.37	109.97	38.614	
12,300.00	7,630.00	5,148.00	5,148.00	67.86	88.92	-33.07	-5,537.71	3,183.22	4,174.41	4,064.37	110.04	37.937	
12,400.00	7,630.00	5,148.00	5,148.00	69.35	88.92	-33.07	-5,537.71	3,183.22	4,103.65	3,993.50	110.16	37.253	
12,500.00	7,630.00	5,148.00	5,148.00	70.85	88.92	-33.07	-5,537.71	3,183.22	4,034.14	3,923.80	110.33	36.563	
12,600.00	7,630.00	5,148.00	5,148.00	72.36	88.92	-33.07	-5,537.71	3,183.22	3,965.92	3,855.36	110.57	35.869	
12,700.00	7,630.00	5,148.00	5,148.00	73.88	88.92	-33.07	-5,537.71	3,183.22	3,899.08	3,788.22	110.86	35.172	
12,800.00	7,630.00	5,148.00	5,148.00	75.41	88.92	-33.07	-5,537.71	3,183.22	3,833.68	3,722.48	111.20	34.474	
12,900.00	7,630.00	5,148.00	5,148.00	76.95	88.92	-33.07	-5,537.71	3,183.22	3,769.80	3,658.19	111.61	33.776	
13,000.00	7,630.00	5,148.00	5,148.00	78.49	88.92	-33.07	-5,537.71	3,183.22	3,707.52	3,595.44	112.08	33.080	
13,100.00	7,630.00	5,148.00	5,148.00	80.05	88.92	-33.07	-5,537.71	3,183.22	3,646.91	3,534.31	112.60	32.388	
13,200.00	7,630.00	5,148.00	5,148.00	81.61	88.92	-33.07	-5,537.71	3,183.22	3,588.07	3,474.89	113.18	31.702	
13,300.00	7,630.00	5,148.00	5,148.00	83.18	88.92	-33.07	-5,537.71	3,183.22	3,531.08	3,417.26	113.82	31.023	
13,400.00	7,630.00	5,148.00	5,148.00	84.76	88.92	-33.07	-5,537.71	3,183.22	3,476.03	3,361.51	114.52	30.353	
13,500.00	7,630.00	5,148.00	5,148.00	86.34	88.92	-33.07	-5,537.71	3,183.22	3,423.02	3,307.75	115.27	29.695	
13,600.00	7,630.00	5,148.00	5,148.00	87.94	88.92	-33.07	-5,537.71	3,183.22	3,372.15	3,256.06	116.09	29.049	
13,700.00	7,630.00	5,148.00	5,148.00	89.53	88.92	-33.07	-5,537.71	3,183.22	3,323.50	3,206.55	116.95	28.418	
13,800.00	7,630.00	5,148.00	5,148.00	91.13	88.92	-33.07	-5,537.71	3,183.22	3,277.18	3,159.31	117.87	27.803	
13,900.00	7,630.00	5,148.00	5,148.00	92.74	88.92	-33.07	-5,537.71	3,183.22	3,233.30	3,114.45	118.85	27.205	
14,000.00	7,630.00	5,148.00	5,148.00	94.35	88.92	-33.07	-5,537.71	3,183.22	3,191.94	3,072.06	119.88	26.626	
14,100.00	7,630.00	5,148.00	5,148.00	95.97	88.92	-33.07	-5,537.71	3,183.22	3,153.22	3,032.25	120.97	26.066	

Anticollision Report

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,630.00	5,148.00	5,148.00	97.60	88.92	-33.07	-5,537.71	3,183.22	3,117.22	2,995.11	122.11	25.528	
14,300.00	7,630.00	5,148.00	5,148.00	99.22	88.92	-33.07	-5,537.71	3,183.22	3,084.05	2,960.74	123.31	25.010	
14,400.00	7,630.00	5,148.00	5,148.00	100.85	88.92	-33.07	-5,537.71	3,183.22	3,053.79	2,929.22	124.57	24.515	
14,500.00	7,630.00	5,148.00	5,148.00	102.49	88.92	-33.07	-5,537.71	3,183.22	3,026.54	2,900.65	125.89	24.042	
14,600.00	7,630.00	5,148.00	5,148.00	104.13	88.92	-33.07	-5,537.71	3,183.22	3,002.37	2,875.10	127.26	23.592	
14,700.00	7,630.00	5,148.00	5,148.00	105.77	88.92	-33.07	-5,537.71	3,183.22	2,981.36	2,852.65	128.70	23.165	
14,800.00	7,630.00	5,148.00	5,148.00	107.42	88.92	-33.07	-5,537.71	3,183.22	2,963.57	2,833.37	130.20	22.761	
14,900.00	7,630.00	5,148.00	5,148.00	109.07	88.92	-33.07	-5,537.71	3,183.22	2,949.08	2,817.31	131.76	22.381	
15,000.00	7,630.00	5,148.00	5,148.00	110.72	88.92	-33.07	-5,537.71	3,183.22	2,937.91	2,804.52	133.39	22.025	
15,100.00	7,630.00	5,148.00	5,148.00	112.38	88.92	-33.07	-5,537.71	3,183.22	2,930.12	2,795.05	135.07	21.693	
15,200.00	7,630.00	5,148.00	5,148.00	114.04	88.92	-33.07	-5,537.71	3,183.22	2,925.73	2,788.92	136.81	21.385	
15,278.59	7,630.00	5,148.00	5,148.00	115.35	88.92	-33.07	-5,537.71	3,183.22	2,924.67	2,786.46	138.21	21.161	CC
15,300.00	7,630.00	5,148.00	5,148.00	115.71	88.92	-33.07	-5,537.71	3,183.22	2,924.75	2,786.15	138.60	21.103	ES
15,400.00	7,630.00	5,148.00	5,148.00	117.37	88.92	-33.07	-5,537.71	3,183.22	2,927.19	2,786.77	140.43	20.845	
15,500.00	7,630.00	5,148.00	5,148.00	119.04	88.92	-33.07	-5,537.71	3,183.22	2,933.04	2,790.75	142.29	20.613	
15,600.00	7,630.00	5,148.00	5,148.00	120.71	88.92	-33.07	-5,537.71	3,183.22	2,942.28	2,798.10	144.18	20.407	
15,700.00	7,630.00	5,148.00	5,148.00	122.39	88.92	-33.07	-5,537.71	3,183.22	2,954.88	2,808.80	146.08	20.228	
15,800.00	7,630.00	5,148.00	5,148.00	124.06	88.92	-33.07	-5,537.71	3,183.22	2,970.79	2,822.81	147.98	20.075	
15,900.00	7,630.00	5,148.00	5,148.00	125.74	88.92	-33.07	-5,537.71	3,183.22	2,989.96	2,840.09	149.87	19.950	
16,000.00	7,630.00	5,148.00	5,148.00	127.42	88.92	-33.07	-5,537.71	3,183.22	3,012.33	2,860.60	151.74	19.852	
16,100.00	7,630.00	5,148.00	5,148.00	129.10	88.92	-33.07	-5,537.71	3,183.22	3,037.83	2,884.26	153.57	19.781	
16,200.00	7,630.00	5,148.00	5,148.00	130.79	88.92	-33.07	-5,537.71	3,183.22	3,066.39	2,911.03	155.36	19.738	
16,300.00	7,630.00	5,148.00	5,148.00	132.48	88.92	-33.07	-5,537.71	3,183.22	3,097.90	2,940.81	157.09	19.721	SF
16,400.00	7,630.00	5,148.00	5,148.00	134.17	88.92	-33.07	-5,537.71	3,183.22	3,132.30	2,973.54	158.76	19.730	
16,500.00	7,630.00	5,148.00	5,148.00	135.86	88.92	-33.07	-5,537.71	3,183.22	3,169.47	3,009.12	160.36	19.765	
16,600.00	7,630.00	5,148.00	5,148.00	137.55	88.92	-33.07	-5,537.71	3,183.22	3,209.34	3,047.45	161.88	19.825	
16,700.00	7,630.00	5,148.00	5,148.00	139.24	88.92	-33.07	-5,537.71	3,183.22	3,251.79	3,088.46	163.33	19.909	
16,800.00	7,630.00	5,148.00	5,148.00	140.94	88.92	-33.07	-5,537.71	3,183.22	3,296.73	3,132.03	164.70	20.017	
16,900.00	7,630.00	5,148.00	5,148.00	142.64	88.92	-33.07	-5,537.71	3,183.22	3,344.05	3,178.07	165.99	20.147	
17,000.00	7,630.00	5,148.00	5,148.00	144.34	88.92	-33.07	-5,537.71	3,183.22	3,393.67	3,226.48	167.19	20.298	
17,100.00	7,630.00	5,148.00	5,148.00	146.04	88.92	-33.07	-5,537.71	3,183.22	3,445.47	3,277.16	168.31	20.471	
17,200.00	7,630.00	5,148.00	5,148.00	147.74	88.92	-33.07	-5,537.71	3,183.22	3,499.36	3,330.01	169.35	20.663	
17,300.00	7,630.00	5,148.00	5,148.00	149.44	88.92	-33.07	-5,537.71	3,183.22	3,555.25	3,384.93	170.32	20.874	
17,400.00	7,630.00	5,148.00	5,148.00	151.15	88.92	-33.07	-5,537.71	3,183.22	3,613.05	3,441.84	171.21	21.103	
17,500.00	7,630.00	5,148.00	5,148.00	152.86	88.92	-33.07	-5,537.71	3,183.22	3,672.65	3,500.63	172.03	21.349	
17,600.00	7,630.00	5,148.00	5,148.00	154.56	88.92	-33.07	-5,537.71	3,183.22	3,733.99	3,561.21	172.78	21.612	
17,700.00	7,630.00	5,148.00	5,148.00	156.27	88.92	-33.07	-5,537.71	3,183.22	3,796.97	3,623.51	173.46	21.889	
17,800.00	7,630.00	5,148.00	5,148.00	157.98	88.92	-33.07	-5,537.71	3,183.22	3,861.51	3,687.42	174.08	22.182	
17,900.00	7,630.00	5,148.00	5,148.00	159.70	88.92	-33.07	-5,537.71	3,183.22	3,927.53	3,752.89	174.65	22.488	
18,000.00	7,630.00	5,148.00	5,148.00	161.41	88.92	-33.07	-5,537.71	3,183.22	3,994.97	3,819.82	175.16	22.808	
18,100.00	7,630.00	5,148.00	5,148.00	163.12	88.92	-33.07	-5,537.71	3,183.22	4,063.75	3,888.14	175.62	23.140	
18,154.00	7,630.00	5,148.00	5,148.00	164.05	88.92	-33.07	-5,537.71	3,183.22	4,101.43	3,925.59	175.84	23.324	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	146.94	-6,842.76	4,454.67	8,165.04				
100.00	100.00	76.00	76.00	0.13	0.63	146.94	-6,842.76	4,454.67	8,165.01	8,164.24	0.76	N/A	
200.00	200.00	176.00	176.00	0.49	2.16	146.94	-6,842.76	4,454.67	8,165.01	8,162.36	2.65	3,083.019	
300.00	300.00	276.00	276.00	0.85	3.90	146.94	-6,842.76	4,454.67	8,165.01	8,160.26	4.75	1,718.160	
400.00	400.00	376.00	376.00	1.21	5.65	146.94	-6,842.76	4,454.67	8,165.01	8,158.15	6.86	1,190.932	
500.00	500.00	476.00	476.00	1.57	7.39	146.94	-6,842.76	4,454.67	8,165.01	8,156.05	8.96	911.295	
600.00	600.00	576.00	576.00	1.93	9.14	146.94	-6,842.76	4,454.67	8,165.01	8,153.95	11.06	738.008	
700.00	700.00	676.00	676.00	2.29	10.88	146.94	-6,842.76	4,454.67	8,165.01	8,151.84	13.17	620.093	
800.00	800.00	776.00	776.00	2.64	12.63	146.94	-6,842.76	4,454.67	8,165.01	8,149.74	15.27	534.668	
900.00	900.00	876.00	876.00	3.00	14.37	146.94	-6,842.76	4,454.67	8,165.01	8,147.63	17.37	469.929	
1,000.00	1,000.00	976.00	976.00	3.36	16.12	146.94	-6,842.76	4,454.67	8,165.01	8,145.53	19.48	419.174	
1,100.00	1,100.00	1,076.00	1,076.00	3.72	17.86	146.94	-6,842.76	4,454.67	8,165.01	8,143.43	21.58	378.315	
1,200.00	1,200.00	1,176.00	1,176.00	4.08	19.61	146.94	-6,842.76	4,454.67	8,165.01	8,141.32	23.69	344.713	
1,300.00	1,300.00	1,276.00	1,276.00	4.44	21.35	146.94	-6,842.76	4,454.67	8,165.01	8,139.22	25.79	316.594	
1,400.00	1,400.00	1,376.00	1,376.00	4.79	23.10	146.94	-6,842.76	4,454.67	8,165.01	8,137.12	27.89	292.716	
1,500.00	1,499.98	1,475.98	1,475.98	5.15	24.84	109.13	-6,842.76	4,454.67	8,165.58	8,135.59	30.00	272.227	
1,600.00	1,599.84	1,575.84	1,575.84	5.51	26.59	109.13	-6,842.76	4,454.67	8,167.30	8,135.20	32.09	254.481	
1,700.00	1,699.45	1,675.45	1,675.45	5.87	28.33	109.14	-6,842.76	4,454.67	8,170.17	8,135.97	34.19	238.958	
1,800.00	1,798.70	1,774.70	1,774.70	6.23	30.06	109.14	-6,842.76	4,454.67	8,174.19	8,137.90	36.29	225.267	
1,900.00	1,897.47	1,873.47	1,873.47	6.60	31.78	109.14	-6,842.76	4,454.67	8,179.37	8,140.99	38.38	213.099	
2,000.00	1,995.62	1,971.62	1,971.62	6.99	33.50	109.15	-6,842.76	4,454.67	8,185.74	8,145.26	40.48	202.210	
2,100.00	2,093.06	2,069.06	2,069.06	7.39	35.20	109.15	-6,842.76	4,454.67	8,193.29	8,150.71	42.58	192.402	
2,200.00	2,189.64	2,165.64	2,165.64	7.82	36.88	109.15	-6,842.76	4,454.67	8,202.05	8,157.35	44.69	183.516	
2,300.00	2,285.27	2,261.27	2,261.27	8.28	38.55	109.14	-6,842.76	4,454.67	8,212.02	8,165.21	46.81	175.424	
2,400.00	2,379.82	2,355.82	2,355.82	8.77	40.20	109.14	-6,842.76	4,454.67	8,223.24	8,174.30	48.94	168.019	
2,500.00	2,473.17	2,449.17	2,449.17	9.31	41.83	109.12	-6,842.76	4,454.67	8,235.73	8,184.64	51.09	161.216	
2,600.00	2,565.21	2,541.21	2,541.21	9.88	43.44	109.10	-6,842.76	4,454.67	8,249.49	8,196.25	53.24	154.942	
2,660.67	2,620.37	2,603.63	2,596.37	10.25	44.53	109.08	-6,842.76	4,454.67	8,258.48	8,203.79	54.69	151.019	
2,700.00	2,655.96	2,631.96	2,631.96	10.50	45.02	109.18	-6,842.76	4,454.67	8,264.47	8,209.06	55.41	149.138	
2,800.00	2,746.43	2,722.43	2,722.43	11.15	46.60	109.43	-6,842.76	4,454.67	8,279.85	8,222.25	57.61	143.729	
2,900.00	2,836.90	2,812.90	2,812.90	11.82	48.18	109.69	-6,842.76	4,454.67	8,295.42	8,235.61	59.82	138.678	
3,000.00	2,927.37	2,903.37	2,903.37	12.50	49.76	109.94	-6,842.76	4,454.67	8,311.18	8,249.14	62.04	133.959	
3,100.00	3,017.85	3,006.15	2,993.85	13.21	51.55	110.19	-6,842.76	4,454.67	8,327.13	8,262.64	64.49	129.114	
3,200.00	3,108.32	3,084.32	3,084.32	13.92	52.92	110.44	-6,842.76	4,454.67	8,343.27	8,276.74	66.53	125.413	
3,300.00	3,198.79	3,174.79	3,174.79	14.64	54.49	110.69	-6,842.76	4,454.67	8,359.59	8,290.81	68.78	121.539	
3,400.00	3,289.27	3,265.27	3,265.27	15.38	56.07	110.94	-6,842.76	4,454.67	8,376.09	8,305.05	71.04	117.902	
3,500.00	3,379.74	3,355.74	3,355.74	16.12	57.65	111.19	-6,842.76	4,454.67	8,392.78	8,319.47	73.31	114.484	
3,600.00	3,470.21	3,446.21	3,446.21	16.87	59.23	111.44	-6,842.76	4,454.67	8,409.65	8,334.07	75.58	111.266	
3,700.00	3,560.68	3,536.68	3,536.68	17.62	60.81	111.69	-6,842.76	4,454.67	8,426.71	8,348.85	77.86	108.234	
3,800.00	3,651.16	3,627.16	3,627.16	18.39	62.39	111.94	-6,842.76	4,454.67	8,443.94	8,363.81	80.13	105.372	
3,900.00	3,741.63	3,717.63	3,717.63	19.15	63.97	112.18	-6,842.76	4,454.67	8,461.35	8,378.94	82.41	102.668	
4,000.00	3,832.10	3,808.10	3,808.10	19.92	65.55	112.43	-6,842.76	4,454.67	8,478.95	8,394.25	84.70	100.109	
4,100.00	3,922.57	3,901.43	3,898.57	20.69	67.18	112.67	-6,842.76	4,454.67	8,496.71	8,409.68	87.03	97.629	
4,200.00	4,013.05	3,989.05	3,989.05	21.47	68.71	112.91	-6,842.76	4,454.67	8,514.66	8,425.39	89.27	95.386	
4,300.00	4,103.52	4,079.52	4,079.52	22.25	70.28	113.16	-6,842.76	4,454.67	8,532.78	8,441.23	91.55	93.203	
4,400.00	4,193.99	4,169.99	4,169.99	23.03	71.86	113.40	-6,842.76	4,454.67	8,551.07	8,457.24	93.84	91.128	
4,500.00	4,284.47	4,260.47	4,260.47	23.81	73.44	113.64	-6,842.76	4,454.67	8,569.54	8,473.42	96.12	89.154	
4,600.00	4,374.94	4,350.94	4,350.94	24.60	75.02	113.88	-6,842.76	4,454.67	8,588.18	8,489.77	98.41	87.273	
4,700.00	4,465.41	4,441.41	4,441.41	25.39	76.60	114.12	-6,842.76	4,454.67	8,606.99	8,506.29	100.69	85.479	
4,800.00	4,555.88	4,531.88	4,531.88	26.18	78.18	114.36	-6,842.76	4,454.67	8,625.96	8,522.99	102.98	83.767	
4,900.00	4,646.36	4,622.36	4,622.36	26.97	79.76	114.59	-6,842.76	4,454.67	8,645.11	8,539.85	105.26	82.132	
5,000.00	4,736.83	4,712.83	4,712.83	27.76	81.34	114.83	-6,842.76	4,454.67	8,664.42	8,556.88	107.54	80.568	

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,827.30	4,803.30	4,803.30	28.55	82.92	115.06	-6,842.76	4,454.67	8,683.90	8,574.08	109.82	79.072	
5,200.00	4,917.77	4,906.23	4,893.77	29.35	84.71	115.30	-6,842.76	4,454.67	8,703.55	8,591.22	112.32	77.488	
5,300.00	5,008.25	4,984.25	4,984.25	30.15	86.08	115.53	-6,842.76	4,454.67	8,723.35	8,608.97	114.38	76.264	
5,400.00	5,098.72	5,050.00	5,050.00	30.94	87.22	115.70	-6,842.76	4,454.67	8,743.36	8,627.13	116.22	75.228	
5,500.00	5,189.19	5,050.00	5,050.00	31.74	87.22	115.70	-6,842.76	4,454.67	8,764.21	8,647.32	116.89	74.977	
5,600.00	5,279.67	5,050.00	5,050.00	32.54	87.22	115.70	-6,842.76	4,454.67	8,786.16	8,668.61	117.55	74.747	
5,700.00	5,370.14	5,050.00	5,050.00	33.34	87.22	115.70	-6,842.76	4,454.67	8,809.18	8,690.99	118.19	74.537	
5,800.00	5,460.61	5,050.00	5,050.00	34.14	87.22	115.70	-6,842.76	4,454.67	8,833.28	8,714.47	118.81	74.348	
5,900.00	5,551.08	5,050.00	5,050.00	34.94	87.22	115.70	-6,842.76	4,454.67	8,858.43	8,739.02	119.42	74.179	
6,000.00	5,641.56	5,050.00	5,050.00	35.75	87.22	115.70	-6,842.76	4,454.67	8,884.65	8,764.63	120.01	74.030	
6,100.00	5,732.03	5,050.00	5,050.00	36.55	87.22	115.70	-6,842.76	4,454.67	8,911.91	8,791.31	120.59	73.900	
6,200.00	5,822.50	5,050.00	5,050.00	37.35	87.22	115.70	-6,842.76	4,454.67	8,940.20	8,819.04	121.16	73.788	
6,300.00	5,912.97	5,050.00	5,050.00	38.16	87.22	115.70	-6,842.76	4,454.67	8,969.52	8,847.81	121.71	73.695	
6,400.00	6,003.45	5,050.00	5,050.00	38.96	87.22	115.70	-6,842.76	4,454.67	8,999.86	8,877.61	122.25	73.620	
6,500.00	6,093.92	5,050.00	5,050.00	39.77	87.22	115.70	-6,842.76	4,454.67	9,031.20	8,908.43	122.77	73.562	
6,600.00	6,184.39	5,050.00	5,050.00	40.57	87.22	115.70	-6,842.76	4,454.67	9,063.53	8,940.25	123.28	73.521	
6,700.00	6,274.87	5,050.00	5,050.00	41.38	87.22	115.70	-6,842.76	4,454.67	9,096.85	8,973.08	123.77	73.497	
6,800.00	6,365.34	5,050.00	5,050.00	42.18	87.22	115.70	-6,842.76	4,454.67	9,131.15	9,006.90	124.25	73.490	
6,900.00	6,455.81	5,050.00	5,050.00	42.99	87.22	115.70	-6,842.76	4,454.67	9,166.40	9,041.69	124.72	73.498	
7,000.00	6,546.28	5,050.00	5,050.00	43.80	87.22	115.70	-6,842.76	4,454.67	9,202.61	9,077.44	125.17	73.522	
7,100.00	6,636.76	5,050.00	5,050.00	44.61	87.22	115.70	-6,842.76	4,454.67	9,239.76	9,114.15	125.61	73.561	
7,200.00	6,727.23	5,050.00	5,050.00	45.41	87.22	115.70	-6,842.76	4,454.67	9,277.84	9,151.80	126.03	73.615	
7,300.00	6,817.70	5,050.00	5,050.00	46.22	87.22	115.70	-6,842.76	4,454.67	9,316.83	9,190.39	126.44	73.683	
7,383.79	6,893.51	5,050.00	5,050.00	46.90	87.22	115.70	-6,842.76	4,454.67	9,350.20	9,223.42	126.78	73.752	
7,400.00	6,908.25	5,050.00	5,050.00	47.03	87.22	113.63	-6,842.76	4,454.67	9,356.54	9,229.70	126.84	73.765	
7,450.00	6,954.52	5,050.00	5,050.00	47.40	87.22	105.39	-6,842.76	4,454.67	9,373.77	9,246.75	127.02	73.798	
7,500.00	7,001.74	5,050.00	5,050.00	47.72	87.22	93.79	-6,842.76	4,454.67	9,387.42	9,260.25	127.17	73.817	
7,550.00	7,049.55	5,050.00	5,050.00	47.99	87.22	78.71	-6,842.76	4,454.67	9,397.40	9,270.11	127.30	73.823	
7,600.00	7,097.58	5,050.00	5,050.00	48.21	87.22	61.71	-6,842.76	4,454.67	9,403.65	9,276.26	127.39	73.820	
7,650.00	7,145.48	5,050.00	5,050.00	48.37	87.22	45.69	-6,842.76	4,454.67	9,406.13	9,278.68	127.44	73.806	
7,700.00	7,192.88	5,050.00	5,050.00	48.48	87.22	32.67	-6,842.76	4,454.67	9,404.82	9,277.35	127.47	73.784	
7,750.00	7,239.41	5,050.00	5,050.00	48.54	87.22	22.81	-6,842.76	4,454.67	9,399.73	9,272.27	127.45	73.750	
7,800.00	7,284.72	5,050.00	5,050.00	48.56	87.22	15.42	-6,842.76	4,454.67	9,390.89	9,263.47	127.41	73.703	
7,850.00	7,328.47	5,050.00	5,050.00	48.54	87.22	9.73	-6,842.76	4,454.67	9,378.36	9,251.01	127.35	73.644	
7,900.00	7,370.32	5,050.00	5,050.00	48.47	87.22	5.18	-6,842.76	4,454.67	9,362.22	9,234.97	127.25	73.571	
7,950.00	7,409.96	5,050.00	5,050.00	48.37	87.22	1.35	-6,842.76	4,454.67	9,342.58	9,215.44	127.14	73.485	
8,000.00	7,447.08	5,050.00	5,050.00	48.24	87.22	-2.03	-6,842.76	4,454.67	9,319.56	9,192.56	127.00	73.383	
8,050.00	7,481.41	5,050.00	5,050.00	48.07	87.22	-5.18	-6,842.76	4,454.67	9,293.31	9,166.47	126.84	73.268	
8,100.00	7,512.67	5,050.00	5,050.00	47.87	87.22	-8.27	-6,842.76	4,454.67	9,264.01	9,137.34	126.67	73.137	
8,150.00	7,540.64	5,050.00	5,050.00	47.65	87.22	-11.46	-6,842.76	4,454.67	9,231.85	9,105.37	126.48	72.991	
8,200.00	7,565.09	5,050.00	5,050.00	47.40	87.22	-14.89	-6,842.76	4,454.67	9,197.05	9,070.77	126.28	72.831	
8,250.00	7,585.85	5,050.00	5,050.00	47.14	87.22	-18.75	-6,842.76	4,454.67	9,159.84	9,033.77	126.07	72.655	
8,300.00	7,602.75	5,050.00	5,050.00	46.86	87.22	-23.21	-6,842.76	4,454.67	9,120.48	8,994.62	125.86	72.464	
8,350.00	7,615.67	5,050.00	5,050.00	46.58	87.22	-28.52	-6,842.76	4,454.67	9,079.25	8,953.60	125.65	72.259	
8,400.00	7,624.51	5,050.00	5,050.00	46.28	87.22	-34.94	-6,842.76	4,454.67	9,036.43	8,911.00	125.44	72.040	
8,450.00	7,629.19	5,050.00	5,050.00	45.98	87.22	-42.73	-6,842.76	4,454.67	8,992.33	8,867.10	125.23	71.807	
8,481.00	7,630.00	5,050.00	5,050.00	45.79	87.22	-48.33	-6,842.76	4,454.67	8,964.48	8,839.38	125.10	71.657	
8,500.00	7,630.00	5,050.00	5,050.00	45.68	87.22	-48.33	-6,842.76	4,454.67	8,947.33	8,822.30	125.03	71.563	
8,600.00	7,630.00	5,050.00	5,050.00	45.11	87.22	-48.33	-6,842.76	4,454.67	8,857.13	8,732.51	124.62	71.072	
8,700.00	7,630.00	5,050.00	5,050.00	44.56	87.22	-48.33	-6,842.76	4,454.67	8,767.15	8,642.93	124.22	70.580	
8,800.00	7,630.00	5,050.00	5,050.00	44.05	87.22	-48.33	-6,842.76	4,454.67	8,677.39	8,553.58	123.81	70.086	
8,900.00	7,630.00	5,050.00	5,050.00	43.57	87.22	-48.33	-6,842.76	4,454.67	8,587.85	8,464.44	123.41	69.590	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,000.00	7,630.00	5,050.00	5,050.00	43.12	87.22	-48.33	-6,842.76	4,454.67	8,498.55	8,375.55	123.00	69.093	
9,100.00	7,630.00	5,050.00	5,050.00	42.70	87.22	-48.33	-6,842.76	4,454.67	8,409.48	8,286.89	122.60	68.593	
9,200.00	7,630.00	5,050.00	5,050.00	42.31	87.22	-48.33	-6,842.76	4,454.67	8,320.67	8,198.47	122.20	68.091	
9,300.00	7,630.00	5,050.00	5,050.00	41.94	87.22	-48.33	-6,842.76	4,454.67	8,232.11	8,110.31	121.80	67.586	
9,400.00	7,630.00	5,050.00	5,050.00	41.59	87.22	-48.33	-6,842.76	4,454.67	8,143.82	8,022.41	121.41	67.078	
9,500.00	7,630.00	5,050.00	5,050.00	41.26	87.22	-48.33	-6,842.76	4,454.67	8,055.80	7,934.78	121.02	66.566	
9,600.00	7,630.00	5,050.00	5,050.00	40.96	87.22	-48.33	-6,842.76	4,454.67	7,968.07	7,847.43	120.64	66.050	
9,700.00	7,630.00	5,050.00	5,050.00	40.68	87.22	-48.33	-6,842.76	4,454.67	7,880.62	7,760.36	120.26	65.530	
9,800.00	7,630.00	5,050.00	5,050.00	40.42	87.22	-48.33	-6,842.76	4,454.67	7,793.48	7,673.59	119.89	65.004	
9,900.00	7,630.00	5,050.00	5,050.00	40.17	87.22	-48.33	-6,842.76	4,454.67	7,706.65	7,587.12	119.53	64.473	
10,000.00	7,630.00	5,050.00	5,050.00	39.96	87.22	-48.33	-6,842.76	4,454.67	7,620.15	7,500.96	119.18	63.936	
10,100.00	7,630.00	5,050.00	5,050.00	40.05	87.22	-48.33	-6,842.76	4,454.67	7,533.97	7,415.13	118.85	63.392	
10,200.00	7,630.00	5,050.00	5,050.00	40.95	87.22	-48.33	-6,842.76	4,454.67	7,448.15	7,329.62	118.52	62.841	
10,300.00	7,630.00	5,050.00	5,050.00	41.94	87.22	-48.33	-6,842.76	4,454.67	7,362.68	7,244.46	118.22	62.281	
10,400.00	7,630.00	5,050.00	5,050.00	42.98	87.22	-48.33	-6,842.76	4,454.67	7,277.58	7,159.65	117.93	61.713	
10,500.00	7,630.00	5,050.00	5,050.00	44.06	87.22	-48.33	-6,842.76	4,454.67	7,192.87	7,075.21	117.65	61.136	
10,600.00	7,630.00	5,050.00	5,050.00	45.17	87.22	-48.33	-6,842.76	4,454.67	7,108.55	6,991.14	117.40	60.548	
10,700.00	7,630.00	5,050.00	5,050.00	46.32	87.22	-48.33	-6,842.76	4,454.67	7,024.64	6,907.47	117.17	59.950	
10,800.00	7,630.00	5,050.00	5,050.00	47.50	87.22	-48.33	-6,842.76	4,454.67	6,941.16	6,824.19	116.97	59.341	
10,900.00	7,630.00	5,050.00	5,050.00	48.70	87.22	-48.33	-6,842.76	4,454.67	6,858.12	6,741.33	116.80	58.719	
11,000.00	7,630.00	5,050.00	5,050.00	49.94	87.22	-48.33	-6,842.76	4,454.67	6,775.54	6,658.89	116.65	58.085	
11,100.00	7,630.00	5,050.00	5,050.00	51.20	87.22	-48.33	-6,842.76	4,454.67	6,693.44	6,576.90	116.54	57.437	
11,200.00	7,630.00	5,050.00	5,050.00	52.48	87.22	-48.33	-6,842.76	4,454.67	6,611.83	6,495.37	116.46	56.776	
11,300.00	7,630.00	5,050.00	5,050.00	53.79	87.22	-48.33	-6,842.76	4,454.67	6,530.73	6,414.31	116.41	56.100	
11,400.00	7,630.00	5,050.00	5,050.00	55.12	87.22	-48.33	-6,842.76	4,454.67	6,450.16	6,333.75	116.41	55.410	
11,500.00	7,630.00	5,050.00	5,050.00	56.46	87.22	-48.33	-6,842.76	4,454.67	6,370.14	6,253.69	116.45	54.705	
11,600.00	7,630.00	5,050.00	5,050.00	57.83	87.22	-48.33	-6,842.76	4,454.67	6,290.69	6,174.16	116.53	53.985	
11,700.00	7,630.00	5,050.00	5,050.00	59.22	87.22	-48.33	-6,842.76	4,454.67	6,211.84	6,095.18	116.65	53.250	
11,800.00	7,630.00	5,050.00	5,050.00	60.62	87.22	-48.33	-6,842.76	4,454.67	6,133.60	6,016.77	116.83	52.500	
11,900.00	7,630.00	5,050.00	5,050.00	62.04	87.22	-48.33	-6,842.76	4,454.67	6,056.00	5,938.95	117.06	51.736	
12,000.00	7,630.00	5,050.00	5,050.00	63.48	87.22	-48.33	-6,842.76	4,454.67	5,979.07	5,861.74	117.33	50.958	
12,100.00	7,630.00	5,050.00	5,050.00	64.93	87.22	-48.33	-6,842.76	4,454.67	5,902.83	5,785.17	117.66	50.167	
12,200.00	7,630.00	5,050.00	5,050.00	66.39	87.22	-48.33	-6,842.76	4,454.67	5,827.31	5,709.26	118.05	49.363	
12,300.00	7,630.00	5,050.00	5,050.00	67.86	87.22	-48.33	-6,842.76	4,454.67	5,752.54	5,634.05	118.49	48.547	
12,400.00	7,630.00	5,050.00	5,050.00	69.35	87.22	-48.33	-6,842.76	4,454.67	5,678.54	5,559.55	119.00	47.721	
12,500.00	7,630.00	5,050.00	5,050.00	70.85	87.22	-48.33	-6,842.76	4,454.67	5,605.35	5,485.80	119.56	46.885	
12,600.00	7,630.00	5,050.00	5,050.00	72.36	87.22	-48.33	-6,842.76	4,454.67	5,533.00	5,412.83	120.18	46.041	
12,700.00	7,630.00	5,050.00	5,050.00	73.88	87.22	-48.33	-6,842.76	4,454.67	5,461.53	5,340.67	120.86	45.191	
12,800.00	7,630.00	5,050.00	5,050.00	75.41	87.22	-48.33	-6,842.76	4,454.67	5,390.96	5,269.36	121.60	44.335	
12,900.00	7,630.00	5,050.00	5,050.00	76.95	87.22	-48.33	-6,842.76	4,454.67	5,321.33	5,198.93	122.40	43.476	
13,000.00	7,630.00	5,050.00	5,050.00	78.49	87.22	-48.33	-6,842.76	4,454.67	5,252.68	5,129.42	123.26	42.614	
13,100.00	7,630.00	5,050.00	5,050.00	80.05	87.22	-48.33	-6,842.76	4,454.67	5,185.06	5,060.87	124.19	41.753	
13,200.00	7,630.00	5,050.00	5,050.00	81.61	87.22	-48.33	-6,842.76	4,454.67	5,118.49	4,993.32	125.17	40.892	
13,300.00	7,630.00	5,050.00	5,050.00	83.18	87.22	-48.33	-6,842.76	4,454.67	5,053.03	4,926.81	126.22	40.035	
13,400.00	7,630.00	5,050.00	5,050.00	84.76	87.22	-48.33	-6,842.76	4,454.67	4,988.71	4,861.39	127.32	39.182	
13,500.00	7,630.00	5,050.00	5,050.00	86.34	87.22	-48.33	-6,842.76	4,454.67	4,925.58	4,797.09	128.49	38.335	
13,600.00	7,630.00	5,050.00	5,050.00	87.94	87.22	-48.33	-6,842.76	4,454.67	4,863.69	4,733.98	129.71	37.497	
13,700.00	7,630.00	5,050.00	5,050.00	89.53	87.22	-48.33	-6,842.76	4,454.67	4,803.08	4,672.09	130.99	36.667	
13,800.00	7,630.00	5,050.00	5,050.00	91.13	87.22	-48.33	-6,842.76	4,454.67	4,743.81	4,611.48	132.33	35.848	
13,900.00	7,630.00	5,050.00	5,050.00	92.74	87.22	-48.33	-6,842.76	4,454.67	4,685.92	4,552.20	133.72	35.042	
14,000.00	7,630.00	5,050.00	5,050.00	94.35	87.22	-48.33	-6,842.76	4,454.67	4,629.47	4,494.30	135.17	34.249	
14,100.00	7,630.00	5,050.00	5,050.00	95.97	87.22	-48.33	-6,842.76	4,454.67	4,574.51	4,437.84	136.67	33.471	

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,630.00	5,050.00	5,050.00	97.60	87.22	-48.33	-6,842.76	4,454.67	4,521.09	4,382.87	138.22	32.708	
14,300.00	7,630.00	5,050.00	5,050.00	99.22	87.22	-48.33	-6,842.76	4,454.67	4,469.27	4,329.45	139.83	31.963	
14,400.00	7,630.00	5,050.00	5,050.00	100.85	87.22	-48.33	-6,842.76	4,454.67	4,419.11	4,277.63	141.48	31.236	
14,500.00	7,630.00	5,050.00	5,050.00	102.49	87.22	-48.33	-6,842.76	4,454.67	4,370.66	4,227.49	143.17	30.527	
14,600.00	7,630.00	5,050.00	5,050.00	104.13	87.22	-48.33	-6,842.76	4,454.67	4,323.98	4,179.07	144.91	29.839	
14,700.00	7,630.00	5,050.00	5,050.00	105.77	87.22	-48.33	-6,842.76	4,454.67	4,279.13	4,132.44	146.69	29.171	
14,800.00	7,630.00	5,050.00	5,050.00	107.42	87.22	-48.33	-6,842.76	4,454.67	4,236.16	4,087.65	148.51	28.524	
14,900.00	7,630.00	5,050.00	5,050.00	109.07	87.22	-48.33	-6,842.76	4,454.67	4,195.14	4,044.77	150.37	27.899	
15,000.00	7,630.00	5,050.00	5,050.00	110.72	87.22	-48.33	-6,842.76	4,454.67	4,156.12	4,003.86	152.26	27.297	
15,100.00	7,630.00	5,050.00	5,050.00	112.38	87.22	-48.33	-6,842.76	4,454.67	4,119.16	3,964.98	154.18	26.717	
15,200.00	7,630.00	5,050.00	5,050.00	114.04	87.22	-48.33	-6,842.76	4,454.67	4,084.31	3,928.19	156.12	26.161	
15,300.00	7,630.00	5,050.00	5,050.00	115.71	87.22	-48.33	-6,842.76	4,454.67	4,051.64	3,893.54	158.10	25.628	
15,400.00	7,630.00	5,050.00	5,050.00	117.37	87.22	-48.33	-6,842.76	4,454.67	4,021.18	3,861.09	160.09	25.119	
15,500.00	7,630.00	5,050.00	5,050.00	119.04	87.22	-48.33	-6,842.76	4,454.67	3,993.00	3,830.90	162.09	24.634	
15,600.00	7,630.00	5,050.00	5,050.00	120.71	87.22	-48.33	-6,842.76	4,454.67	3,967.13	3,803.02	164.11	24.173	
15,700.00	7,630.00	5,050.00	5,050.00	122.39	87.22	-48.33	-6,842.76	4,454.67	3,943.64	3,777.50	166.14	23.736	
15,800.00	7,630.00	5,050.00	5,050.00	124.06	87.22	-48.33	-6,842.76	4,454.67	3,922.55	3,754.38	168.18	23.324	
15,900.00	7,630.00	5,050.00	5,050.00	125.74	87.22	-48.33	-6,842.76	4,454.67	3,903.92	3,733.71	170.21	22.936	
16,000.00	7,630.00	5,050.00	5,050.00	127.42	87.22	-48.33	-6,842.76	4,454.67	3,887.76	3,715.52	172.24	22.572	
16,100.00	7,630.00	5,050.00	5,050.00	129.10	87.22	-48.33	-6,842.76	4,454.67	3,874.12	3,699.87	174.26	22.232	
16,200.00	7,630.00	5,050.00	5,050.00	130.79	87.22	-48.33	-6,842.76	4,454.67	3,863.02	3,686.76	176.26	21.916	
16,300.00	7,630.00	5,050.00	5,050.00	132.48	87.22	-48.33	-6,842.76	4,454.67	3,854.49	3,676.24	178.25	21.624	
16,400.00	7,630.00	5,050.00	5,050.00	134.17	87.22	-48.33	-6,842.76	4,454.67	3,848.54	3,668.32	180.22	21.355	
16,500.00	7,630.00	5,050.00	5,050.00	135.86	87.22	-48.33	-6,842.76	4,454.67	3,845.17	3,663.02	182.15	21.109	
16,579.33	7,630.00	5,050.00	5,050.00	137.20	87.22	-48.33	-6,842.76	4,454.67	3,844.36	3,660.69	183.67	20.931	CC
16,600.00	7,630.00	5,050.00	5,050.00	137.55	87.22	-48.33	-6,842.76	4,454.67	3,844.41	3,660.35	184.06	20.887	
16,700.00	7,630.00	5,050.00	5,050.00	139.24	87.22	-48.33	-6,842.76	4,454.67	3,846.25	3,660.32	185.93	20.686	ES
16,800.00	7,630.00	5,050.00	5,050.00	140.94	87.22	-48.33	-6,842.76	4,454.67	3,850.68	3,662.92	187.76	20.508	
16,900.00	7,630.00	5,050.00	5,050.00	142.64	87.22	-48.33	-6,842.76	4,454.67	3,857.71	3,668.16	189.55	20.352	
17,000.00	7,630.00	5,050.00	5,050.00	144.34	87.22	-48.33	-6,842.76	4,454.67	3,867.30	3,676.02	191.28	20.218	
17,100.00	7,630.00	5,050.00	5,050.00	146.04	87.22	-48.33	-6,842.76	4,454.67	3,879.45	3,686.48	192.97	20.104	
17,200.00	7,630.00	5,050.00	5,050.00	147.74	87.22	-48.33	-6,842.76	4,454.67	3,894.14	3,699.54	194.60	20.011	
17,300.00	7,630.00	5,050.00	5,050.00	149.44	87.22	-48.33	-6,842.76	4,454.67	3,911.32	3,715.15	196.18	19.938	
17,400.00	7,630.00	5,050.00	5,050.00	151.15	87.22	-48.33	-6,842.76	4,454.67	3,930.98	3,733.29	197.69	19.885	
17,500.00	7,630.00	5,050.00	5,050.00	152.86	87.22	-48.33	-6,842.76	4,454.67	3,953.06	3,753.92	199.14	19.851	
17,600.00	7,630.00	5,050.00	5,050.00	154.56	87.22	-48.33	-6,842.76	4,454.67	3,977.54	3,777.01	200.53	19.835	SF
17,700.00	7,630.00	5,050.00	5,050.00	156.27	87.22	-48.33	-6,842.76	4,454.67	4,004.37	3,802.52	201.85	19.838	
17,800.00	7,630.00	5,050.00	5,050.00	157.98	87.22	-48.33	-6,842.76	4,454.67	4,033.50	3,830.39	203.11	19.859	
17,900.00	7,630.00	5,050.00	5,050.00	159.70	87.22	-48.33	-6,842.76	4,454.67	4,064.88	3,860.58	204.29	19.897	
18,000.00	7,630.00	5,050.00	5,050.00	161.41	87.22	-48.33	-6,842.76	4,454.67	4,098.46	3,893.04	205.42	19.952	
18,100.00	7,630.00	5,050.00	5,050.00	163.12	87.22	-48.33	-6,842.76	4,454.67	4,134.19	3,927.72	206.47	20.023	
18,154.00	7,630.00	5,050.00	5,050.00	164.05	87.22	-48.33	-6,842.76	4,454.67	4,154.36	3,947.34	207.01	20.068	

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	151.50	-8,182.97	4,442.59	9,311.21				
100.00	100.00	67.00	67.00	0.13	0.56	151.50	-8,182.97	4,442.59	9,311.15	9,310.46	0.69	N/A	
200.00	200.00	167.00	167.00	0.49	2.00	151.50	-8,182.97	4,442.59	9,311.15	9,308.66	2.49	3,737.466	
300.00	300.00	267.00	267.00	0.85	3.74	151.50	-8,182.97	4,442.59	9,311.15	9,306.56	4.60	2,026.321	
400.00	400.00	367.00	367.00	1.21	5.49	151.50	-8,182.97	4,442.59	9,311.15	9,304.46	6.70	1,389.952	
500.00	500.00	467.00	467.00	1.57	7.23	151.50	-8,182.97	4,442.59	9,311.15	9,302.35	8.80	1,057.761	
600.00	600.00	567.00	567.00	1.93	8.98	151.50	-8,182.97	4,442.59	9,311.15	9,300.25	10.91	853.725	
700.00	700.00	667.00	667.00	2.29	10.73	151.50	-8,182.97	4,442.59	9,311.15	9,298.14	13.01	715.675	
800.00	800.00	767.00	767.00	2.64	12.47	151.50	-8,182.97	4,442.59	9,311.15	9,296.04	15.11	616.057	
900.00	900.00	867.00	867.00	3.00	14.22	151.50	-8,182.97	4,442.59	9,311.15	9,293.94	17.22	540.783	
1,000.00	1,000.00	967.00	967.00	3.36	15.96	151.50	-8,182.97	4,442.59	9,311.15	9,291.83	19.32	481.901	
1,100.00	1,100.00	1,067.00	1,067.00	3.72	17.71	151.50	-8,182.97	4,442.59	9,311.15	9,289.73	21.43	434.583	
1,200.00	1,200.00	1,167.00	1,167.00	4.08	19.45	151.50	-8,182.97	4,442.59	9,311.15	9,287.63	23.53	395.726	
1,300.00	1,300.00	1,267.00	1,267.00	4.44	21.20	151.50	-8,182.97	4,442.59	9,311.15	9,285.52	25.63	363.247	
1,400.00	1,400.00	1,367.00	1,367.00	4.79	22.94	151.50	-8,182.97	4,442.59	9,311.15	9,283.42	27.74	335.695	
1,500.00	1,499.98	1,466.98	1,466.98	5.15	24.69	113.69	-8,182.97	4,442.59	9,311.86	9,282.02	29.84	312.075	
1,600.00	1,599.84	1,566.84	1,566.84	5.51	26.43	113.68	-8,182.97	4,442.59	9,313.96	9,282.02	31.94	291.635	
1,700.00	1,699.45	1,666.45	1,666.45	5.87	28.17	113.67	-8,182.97	4,442.59	9,317.47	9,283.44	34.03	273.769	
1,800.00	1,798.70	1,765.70	1,765.70	6.23	29.90	113.65	-8,182.97	4,442.59	9,322.39	9,286.26	36.13	258.025	
1,900.00	1,897.47	1,864.47	1,864.47	6.60	31.62	113.62	-8,182.97	4,442.59	9,328.73	9,290.50	38.23	244.045	
2,000.00	1,995.62	1,962.62	1,962.62	6.99	33.34	113.58	-8,182.97	4,442.59	9,336.49	9,296.17	40.32	231.545	
2,100.00	2,093.06	2,060.06	2,060.06	7.39	35.04	113.53	-8,182.97	4,442.59	9,345.68	9,303.25	42.42	220.296	
2,200.00	2,189.64	2,156.64	2,156.64	7.82	36.72	113.48	-8,182.97	4,442.59	9,356.31	9,311.78	44.53	210.115	
2,300.00	2,285.27	2,252.27	2,252.27	8.28	38.39	113.41	-8,182.97	4,442.59	9,368.38	9,321.74	46.64	200.853	
2,400.00	2,379.82	2,346.82	2,346.82	8.77	40.04	113.34	-8,182.97	4,442.59	9,381.92	9,333.15	48.77	192.386	
2,500.00	2,473.17	2,440.17	2,440.17	9.31	41.67	113.25	-8,182.97	4,442.59	9,396.93	9,346.03	50.90	184.614	
2,600.00	2,565.21	2,532.21	2,532.21	9.88	43.28	113.15	-8,182.97	4,442.59	9,413.42	9,360.37	53.05	177.453	
2,660.67	2,620.37	2,587.37	2,587.37	10.25	44.24	113.08	-8,182.97	4,442.59	9,424.16	9,369.80	54.36	173.379	
2,700.00	2,655.96	2,622.96	2,622.96	10.50	44.86	113.16	-8,182.97	4,442.59	9,431.31	9,376.10	55.21	170.835	
2,800.00	2,746.43	2,713.43	2,713.43	11.15	46.44	113.38	-8,182.97	4,442.59	9,449.59	9,392.21	57.39	164.668	
2,900.00	2,836.90	2,803.90	2,803.90	11.82	48.02	113.60	-8,182.97	4,442.59	9,468.04	9,408.46	59.58	158.909	
3,000.00	2,927.37	2,905.63	2,894.37	12.50	49.80	113.81	-8,182.97	4,442.59	9,486.64	9,424.65	61.99	153.041	
3,100.00	3,017.85	2,984.85	2,984.85	13.21	51.18	114.03	-8,182.97	4,442.59	9,505.39	9,441.38	64.01	148.492	
3,200.00	3,108.32	3,075.32	3,075.32	13.92	52.76	114.25	-8,182.97	4,442.59	9,524.30	9,458.06	66.24	143.776	
3,300.00	3,198.79	3,165.79	3,165.79	14.64	54.34	114.46	-8,182.97	4,442.59	9,543.36	9,474.88	68.48	139.354	
3,400.00	3,289.27	3,256.27	3,256.27	15.38	55.92	114.68	-8,182.97	4,442.59	9,562.58	9,491.85	70.73	135.201	
3,500.00	3,379.74	3,346.74	3,346.74	16.12	57.50	114.89	-8,182.97	4,442.59	9,581.94	9,508.96	72.98	131.296	
3,600.00	3,470.21	3,437.21	3,437.21	16.87	59.07	115.10	-8,182.97	4,442.59	9,601.45	9,526.22	75.24	127.619	
3,700.00	3,560.68	3,527.68	3,527.68	17.62	60.65	115.31	-8,182.97	4,442.59	9,621.12	9,543.62	77.49	124.152	
3,800.00	3,651.16	3,618.16	3,618.16	18.39	62.23	115.53	-8,182.97	4,442.59	9,640.93	9,561.17	79.76	120.879	
3,900.00	3,741.63	3,708.63	3,708.63	19.15	63.81	115.74	-8,182.97	4,442.59	9,660.88	9,578.86	82.02	117.784	
4,000.00	3,832.10	3,800.90	3,799.10	19.92	65.42	115.95	-8,182.97	4,442.59	9,680.99	9,596.67	84.32	114.813	
4,100.00	3,922.57	3,889.57	3,889.57	20.69	66.97	116.16	-8,182.97	4,442.59	9,701.24	9,614.68	86.56	112.080	
4,200.00	4,013.05	3,980.05	3,980.05	21.47	68.55	116.36	-8,182.97	4,442.59	9,721.63	9,632.81	88.83	109.447	
4,300.00	4,103.52	4,070.52	4,070.52	22.25	70.13	116.57	-8,182.97	4,442.59	9,742.17	9,651.07	91.10	106.945	
4,400.00	4,193.99	4,160.99	4,160.99	23.03	71.71	116.78	-8,182.97	4,442.59	9,762.85	9,669.48	93.37	104.566	
4,500.00	4,284.47	4,251.47	4,251.47	23.81	73.29	116.98	-8,182.97	4,442.59	9,783.67	9,688.04	95.64	102.301	
4,600.00	4,374.94	4,341.94	4,341.94	24.60	74.86	117.19	-8,182.97	4,442.59	9,804.64	9,706.73	97.91	100.143	
4,700.00	4,465.41	4,432.41	4,432.41	25.39	76.44	117.39	-8,182.97	4,442.59	9,825.74	9,725.56	100.18	98.084	
4,800.00	4,555.88	4,522.88	4,522.88	26.18	78.02	117.60	-8,182.97	4,442.59	9,846.98	9,744.53	102.45	96.119	
4,900.00	4,646.36	4,613.36	4,613.36	26.97	79.60	117.80	-8,182.97	4,442.59	9,868.36	9,763.65	104.72	94.240	
5,000.00	4,736.83	4,703.83	4,703.83	27.76	81.18	118.00	-8,182.97	4,442.59	9,889.88	9,782.89	106.98	92.443	

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

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

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,827.30	4,805.70	4,794.30	28.55	82.96	118.20	-8,182.97	4,442.59	9,911.53	9,802.08	109.45	90.557	
5,200.00	4,917.77	4,884.77	4,884.77	29.35	84.34	118.40	-8,182.97	4,442.59	9,933.32	9,821.80	111.52	89.073	
5,300.00	5,008.25	4,975.25	4,975.25	30.15	85.92	118.60	-8,182.97	4,442.59	9,955.25	9,841.46	113.78	87.492	
5,400.00	5,098.72	5,048.00	5,048.00	30.94	87.19	118.77	-8,182.97	4,442.59	9,977.32	9,861.58	115.74	86.207	
8,700.00	7,630.00	5,048.00	5,048.00	44.56	87.19	-48.33	-8,182.97	4,442.59	9,985.02	9,859.95	125.07	79.834	
8,800.00	7,630.00	5,048.00	5,048.00	44.05	87.19	-48.33	-8,182.97	4,442.59	9,892.76	9,768.04	124.73	79.316	
8,900.00	7,630.00	5,048.00	5,048.00	43.57	87.19	-48.33	-8,182.97	4,442.59	9,800.65	9,676.27	124.38	78.796	
9,000.00	7,630.00	5,048.00	5,048.00	43.12	87.19	-48.33	-8,182.97	4,442.59	9,708.70	9,584.67	124.04	78.274	
9,100.00	7,630.00	5,048.00	5,048.00	42.70	87.19	-48.33	-8,182.97	4,442.59	9,616.91	9,493.22	123.69	77.750	
9,200.00	7,630.00	5,048.00	5,048.00	42.31	87.19	-48.33	-8,182.97	4,442.59	9,525.29	9,401.94	123.35	77.223	
9,300.00	7,630.00	5,048.00	5,048.00	41.94	87.19	-48.33	-8,182.97	4,442.59	9,433.83	9,310.82	123.01	76.694	
9,400.00	7,630.00	5,048.00	5,048.00	41.59	87.19	-48.33	-8,182.97	4,442.59	9,342.55	9,219.88	122.67	76.162	
9,500.00	7,630.00	5,048.00	5,048.00	41.26	87.19	-48.33	-8,182.97	4,442.59	9,251.45	9,129.12	122.33	75.627	
9,600.00	7,630.00	5,048.00	5,048.00	40.96	87.19	-48.33	-8,182.97	4,442.59	9,160.54	9,038.54	122.00	75.088	
9,700.00	7,630.00	5,048.00	5,048.00	40.68	87.19	-48.33	-8,182.97	4,442.59	9,069.81	8,948.14	121.67	74.545	
9,800.00	7,630.00	5,048.00	5,048.00	40.42	87.19	-48.33	-8,182.97	4,442.59	8,979.29	8,857.94	121.34	73.998	
9,900.00	7,630.00	5,048.00	5,048.00	40.17	87.19	-48.33	-8,182.97	4,442.59	8,888.96	8,767.94	121.03	73.447	
10,000.00	7,630.00	5,048.00	5,048.00	39.96	87.19	-48.33	-8,182.97	4,442.59	8,798.85	8,678.14	120.71	72.890	
10,100.00	7,630.00	5,048.00	5,048.00	40.05	87.19	-48.33	-8,182.97	4,442.59	8,708.95	8,588.54	120.41	72.329	
10,200.00	7,630.00	5,048.00	5,048.00	40.95	87.19	-48.33	-8,182.97	4,442.59	8,619.28	8,499.17	120.11	71.761	
10,300.00	7,630.00	5,048.00	5,048.00	41.94	87.19	-48.33	-8,182.97	4,442.59	8,529.83	8,410.01	119.82	71.187	
10,400.00	7,630.00	5,048.00	5,048.00	42.98	87.19	-48.33	-8,182.97	4,442.59	8,440.62	8,321.08	119.55	70.606	
10,500.00	7,630.00	5,048.00	5,048.00	44.06	87.19	-48.33	-8,182.97	4,442.59	8,351.66	8,232.38	119.28	70.018	
10,600.00	7,630.00	5,048.00	5,048.00	45.17	87.19	-48.33	-8,182.97	4,442.59	8,262.95	8,143.92	119.02	69.422	
10,700.00	7,630.00	5,048.00	5,048.00	46.32	87.19	-48.33	-8,182.97	4,442.59	8,174.49	8,055.71	118.78	68.818	
10,800.00	7,630.00	5,048.00	5,048.00	47.50	87.19	-48.33	-8,182.97	4,442.59	8,086.31	7,967.75	118.56	68.205	
10,900.00	7,630.00	5,048.00	5,048.00	48.70	87.19	-48.33	-8,182.97	4,442.59	7,998.41	7,880.06	118.35	67.582	
11,000.00	7,630.00	5,048.00	5,048.00	49.94	87.19	-48.33	-8,182.97	4,442.59	7,910.79	7,792.63	118.16	66.950	
11,100.00	7,630.00	5,048.00	5,048.00	51.20	87.19	-48.33	-8,182.97	4,442.59	7,823.47	7,705.48	117.99	66.307	
11,200.00	7,630.00	5,048.00	5,048.00	52.48	87.19	-48.33	-8,182.97	4,442.59	7,736.46	7,618.62	117.84	65.652	
11,300.00	7,630.00	5,048.00	5,048.00	53.79	87.19	-48.33	-8,182.97	4,442.59	7,649.76	7,532.05	117.71	64.986	
11,400.00	7,630.00	5,048.00	5,048.00	55.12	87.19	-48.33	-8,182.97	4,442.59	7,563.39	7,445.78	117.61	64.308	
11,500.00	7,630.00	5,048.00	5,048.00	56.46	87.19	-48.33	-8,182.97	4,442.59	7,477.37	7,359.83	117.54	63.617	
11,600.00	7,630.00	5,048.00	5,048.00	57.83	87.19	-48.33	-8,182.97	4,442.59	7,391.69	7,274.20	117.49	62.914	
11,700.00	7,630.00	5,048.00	5,048.00	59.22	87.19	-48.33	-8,182.97	4,442.59	7,306.38	7,188.91	117.47	62.196	
11,800.00	7,630.00	5,048.00	5,048.00	60.62	87.19	-48.33	-8,182.97	4,442.59	7,221.45	7,103.96	117.49	61.466	
11,900.00	7,630.00	5,048.00	5,048.00	62.04	87.19	-48.33	-8,182.97	4,442.59	7,136.90	7,019.36	117.54	60.721	
12,000.00	7,630.00	5,048.00	5,048.00	63.48	87.19	-48.33	-8,182.97	4,442.59	7,052.76	6,935.14	117.62	59.962	
12,100.00	7,630.00	5,048.00	5,048.00	64.93	87.19	-48.33	-8,182.97	4,442.59	6,969.04	6,851.30	117.74	59.189	
12,200.00	7,630.00	5,048.00	5,048.00	66.39	87.19	-48.33	-8,182.97	4,442.59	6,885.75	6,767.85	117.90	58.401	
12,300.00	7,630.00	5,048.00	5,048.00	67.86	87.19	-48.33	-8,182.97	4,442.59	6,802.92	6,684.81	118.11	57.600	
12,400.00	7,630.00	5,048.00	5,048.00	69.35	87.19	-48.33	-8,182.97	4,442.59	6,720.55	6,602.20	118.35	56.785	
12,500.00	7,630.00	5,048.00	5,048.00	70.85	87.19	-48.33	-8,182.97	4,442.59	6,638.66	6,520.02	118.64	55.957	
12,600.00	7,630.00	5,048.00	5,048.00	72.36	87.19	-48.33	-8,182.97	4,442.59	6,557.28	6,438.31	118.97	55.116	
12,700.00	7,630.00	5,048.00	5,048.00	73.88	87.19	-48.33	-8,182.97	4,442.59	6,476.42	6,357.07	119.35	54.262	
12,800.00	7,630.00	5,048.00	5,048.00	75.41	87.19	-48.33	-8,182.97	4,442.59	6,396.10	6,276.32	119.78	53.397	
12,900.00	7,630.00	5,048.00	5,048.00	76.95	87.19	-48.33	-8,182.97	4,442.59	6,316.34	6,196.08	120.26	52.521	
13,000.00	7,630.00	5,048.00	5,048.00	78.49	87.19	-48.33	-8,182.97	4,442.59	6,237.17	6,116.38	120.79	51.636	
13,100.00	7,630.00	5,048.00	5,048.00	80.05	87.19	-48.33	-8,182.97	4,442.59	6,158.60	6,037.23	121.37	50.742	
13,200.00	7,630.00	5,048.00	5,048.00	81.61	87.19	-48.33	-8,182.97	4,442.59	6,080.66	5,958.66	122.00	49.840	
13,300.00	7,630.00	5,048.00	5,048.00	83.18	87.19	-48.33	-8,182.97	4,442.59	6,003.38	5,880.69	122.69	48.931	
13,400.00	7,630.00	5,048.00	5,048.00	84.76	87.19	-48.33	-8,182.97	4,442.59	5,926.77	5,803.34	123.43	48.018	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
13,500.00	7,630.00	5,048.00	5,048.00	86.34	87.19	-48.33	-8,182.97	4,442.59	5,850.87	5,726.65	124.22	47.100	
13,600.00	7,630.00	5,048.00	5,048.00	87.94	87.19	-48.33	-8,182.97	4,442.59	5,775.71	5,650.64	125.07	46.180	
13,700.00	7,630.00	5,048.00	5,048.00	89.53	87.19	-48.33	-8,182.97	4,442.59	5,701.30	5,575.33	125.97	45.259	
13,800.00	7,630.00	5,048.00	5,048.00	91.13	87.19	-48.33	-8,182.97	4,442.59	5,627.69	5,500.77	126.93	44.338	
13,900.00	7,630.00	5,048.00	5,048.00	92.74	87.19	-48.33	-8,182.97	4,442.59	5,554.91	5,426.97	127.94	43.418	
14,000.00	7,630.00	5,048.00	5,048.00	94.35	87.19	-48.33	-8,182.97	4,442.59	5,482.98	5,353.98	129.01	42.501	
14,100.00	7,630.00	5,048.00	5,048.00	95.97	87.19	-48.33	-8,182.97	4,442.59	5,411.95	5,281.82	130.13	41.589	
14,200.00	7,630.00	5,048.00	5,048.00	97.60	87.19	-48.33	-8,182.97	4,442.59	5,341.84	5,210.53	131.31	40.682	
14,300.00	7,630.00	5,048.00	5,048.00	99.22	87.19	-48.33	-8,182.97	4,442.59	5,272.70	5,140.16	132.54	39.782	
14,400.00	7,630.00	5,048.00	5,048.00	100.85	87.19	-48.33	-8,182.97	4,442.59	5,204.56	5,070.73	133.83	38.890	
14,500.00	7,630.00	5,048.00	5,048.00	102.49	87.19	-48.33	-8,182.97	4,442.59	5,137.46	5,002.30	135.17	38.008	
14,600.00	7,630.00	5,048.00	5,048.00	104.13	87.19	-48.33	-8,182.97	4,442.59	5,071.45	4,934.89	136.56	37.136	
14,700.00	7,630.00	5,048.00	5,048.00	105.77	87.19	-48.33	-8,182.97	4,442.59	5,006.57	4,868.55	138.01	36.276	
14,800.00	7,630.00	5,048.00	5,048.00	107.42	87.19	-48.33	-8,182.97	4,442.59	4,942.85	4,803.34	139.51	35.430	
14,900.00	7,630.00	5,048.00	5,048.00	109.07	87.19	-48.33	-8,182.97	4,442.59	4,880.36	4,739.29	141.06	34.597	
15,000.00	7,630.00	5,048.00	5,048.00	110.72	87.19	-48.33	-8,182.97	4,442.59	4,819.12	4,676.46	142.67	33.779	
15,100.00	7,630.00	5,048.00	5,048.00	112.38	87.19	-48.33	-8,182.97	4,442.59	4,759.21	4,614.89	144.32	32.977	
15,200.00	7,630.00	5,048.00	5,048.00	114.04	87.19	-48.33	-8,182.97	4,442.59	4,700.65	4,554.63	146.02	32.191	
15,300.00	7,630.00	5,048.00	5,048.00	115.71	87.19	-48.33	-8,182.97	4,442.59	4,643.51	4,495.74	147.77	31.423	
15,400.00	7,630.00	5,048.00	5,048.00	117.37	87.19	-48.33	-8,182.97	4,442.59	4,587.84	4,438.27	149.57	30.674	
15,500.00	7,630.00	5,048.00	5,048.00	119.04	87.19	-48.33	-8,182.97	4,442.59	4,533.69	4,382.29	151.41	29.943	
15,600.00	7,630.00	5,048.00	5,048.00	120.71	87.19	-48.33	-8,182.97	4,442.59	4,481.12	4,327.83	153.29	29.233	
15,700.00	7,630.00	5,048.00	5,048.00	122.39	87.19	-48.33	-8,182.97	4,442.59	4,430.19	4,274.97	155.22	28.542	
15,800.00	7,630.00	5,048.00	5,048.00	124.06	87.19	-48.33	-8,182.97	4,442.59	4,380.94	4,223.76	157.18	27.872	
15,900.00	7,630.00	5,048.00	5,048.00	125.74	87.19	-48.33	-8,182.97	4,442.59	4,333.44	4,174.26	159.18	27.224	
16,000.00	7,630.00	5,048.00	5,048.00	127.42	87.19	-48.33	-8,182.97	4,442.59	4,287.75	4,126.54	161.21	26.597	
16,100.00	7,630.00	5,048.00	5,048.00	129.10	87.19	-48.33	-8,182.97	4,442.59	4,243.92	4,080.65	163.28	25.992	
16,200.00	7,630.00	5,048.00	5,048.00	130.79	87.19	-48.33	-8,182.97	4,442.59	4,202.02	4,036.65	165.37	25.410	
16,300.00	7,630.00	5,048.00	5,048.00	132.48	87.19	-48.33	-8,182.97	4,442.59	4,162.10	3,994.61	167.49	24.850	
16,400.00	7,630.00	5,048.00	5,048.00	134.17	87.19	-48.33	-8,182.97	4,442.59	4,124.21	3,954.58	169.63	24.313	
16,500.00	7,630.00	5,048.00	5,048.00	135.86	87.19	-48.33	-8,182.97	4,442.59	4,088.43	3,916.63	171.79	23.799	
16,600.00	7,630.00	5,048.00	5,048.00	137.55	87.19	-48.33	-8,182.97	4,442.59	4,054.79	3,880.82	173.97	23.308	
16,700.00	7,630.00	5,048.00	5,048.00	139.24	87.19	-48.33	-8,182.97	4,442.59	4,023.36	3,847.20	176.15	22.840	
16,800.00	7,630.00	5,048.00	5,048.00	140.94	87.19	-48.33	-8,182.97	4,442.59	3,994.18	3,815.84	178.34	22.396	
16,900.00	7,630.00	5,048.00	5,048.00	142.64	87.19	-48.33	-8,182.97	4,442.59	3,967.31	3,786.77	180.54	21.975	
17,000.00	7,630.00	5,048.00	5,048.00	144.34	87.19	-48.33	-8,182.97	4,442.59	3,942.80	3,760.07	182.73	21.577	
17,100.00	7,630.00	5,048.00	5,048.00	146.04	87.19	-48.33	-8,182.97	4,442.59	3,920.68	3,735.76	184.92	21.203	
17,200.00	7,630.00	5,048.00	5,048.00	147.74	87.19	-48.33	-8,182.97	4,442.59	3,901.00	3,713.91	187.09	20.851	
17,300.00	7,630.00	5,048.00	5,048.00	149.44	87.19	-48.33	-8,182.97	4,442.59	3,883.80	3,694.55	189.25	20.522	
17,400.00	7,630.00	5,048.00	5,048.00	151.15	87.19	-48.33	-8,182.97	4,442.59	3,869.11	3,677.72	191.38	20.216	
17,500.00	7,630.00	5,048.00	5,048.00	152.86	87.19	-48.33	-8,182.97	4,442.59	3,856.95	3,663.45	193.50	19.933	
17,600.00	7,630.00	5,048.00	5,048.00	154.56	87.19	-48.33	-8,182.97	4,442.59	3,847.36	3,651.78	195.58	19.672	
17,700.00	7,630.00	5,048.00	5,048.00	156.27	87.19	-48.33	-8,182.97	4,442.59	3,840.34	3,642.72	197.62	19.433	
17,800.00	7,630.00	5,048.00	5,048.00	157.98	87.19	-48.33	-8,182.97	4,442.59	3,835.92	3,636.30	199.63	19.215	
17,900.00	7,630.00	5,048.00	5,048.00	159.70	87.19	-48.33	-8,182.97	4,442.59	3,834.11	3,632.52	201.59	19.020	
17,919.58	7,630.00	5,048.00	5,048.00	160.03	87.19	-48.33	-8,182.97	4,442.59	3,834.06	3,632.09	201.97	18.984	CC
18,000.00	7,630.00	5,048.00	5,048.00	161.41	87.19	-48.33	-8,182.97	4,442.59	3,834.90	3,631.40	203.50	18.845	ES
18,100.00	7,630.00	5,048.00	5,048.00	163.12	87.19	-48.33	-8,182.97	4,442.59	3,838.30	3,632.95	205.36	18.691	
18,154.00	7,630.00	5,048.00	5,048.00	164.05	87.19	-48.33	-8,182.97	4,442.59	3,841.22	3,634.88	206.34	18.616	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	141.70	-4,069.62	3,213.84	5,185.63				
100.00	100.00	109.65	109.65	0.13	0.19	141.70	-4,069.59	3,213.51	5,185.43	5,185.10	0.33	N/A	
200.00	200.00	234.24	234.24	0.49	0.41	141.71	-4,069.46	3,212.36	5,184.77	5,183.87	0.91	5,728.211	
300.00	300.00	358.82	358.79	0.85	0.63	141.73	-4,069.23	3,210.37	5,183.64	5,182.16	1.48	3,496.402	
400.00	400.00	483.35	483.30	1.21	0.85	141.75	-4,068.92	3,207.55	5,182.04	5,179.98	2.06	2,515.688	
500.00	500.00	607.85	607.74	1.57	1.07	141.78	-4,068.51	3,203.90	5,179.97	5,177.33	2.64	1,964.241	
600.00	600.00	661.62	661.50	1.93	1.37	141.79	-4,068.26	3,202.97	5,178.33	5,175.04	3.30	1,570.843	
700.00	700.00	732.00	731.88	2.29	1.62	141.79	-4,067.68	3,202.64	5,177.34	5,173.44	3.90	1,328.069	
800.00	800.00	790.74	790.60	2.64	1.81	141.77	-4,066.90	3,203.39	5,177.01	5,172.55	4.45	1,162.246	
810.02	810.02	798.16	798.02	2.68	1.84	141.77	-4,066.78	3,203.54	5,177.00	5,172.49	4.52	1,146.577	
900.00	900.00	867.96	867.79	3.00	2.07	141.74	-4,065.38	3,205.56	5,177.19	5,172.12	5.07	1,020.399	
1,000.00	1,000.00	1,057.50	1,056.93	3.36	2.73	141.61	-4,057.43	3,214.53	5,176.94	5,170.85	6.09	849.616	
1,100.00	1,100.00	1,130.63	1,129.81	3.72	3.00	141.55	-4,053.06	3,218.62	5,175.77	5,169.06	6.71	770.810	
1,200.00	1,200.00	1,190.63	1,189.57	4.08	3.21	141.49	-4,049.50	3,222.69	5,175.35	5,168.05	7.29	709.782	
1,300.00	1,300.00	1,346.29	1,344.22	4.44	3.80	141.29	-4,038.02	3,236.09	5,175.04	5,166.80	8.23	628.515	
1,400.00	1,400.00	1,468.22	1,464.80	4.79	4.28	141.09	-4,025.50	3,249.07	5,173.68	5,164.61	9.07	570.356	
1,500.00	1,499.98	1,543.03	1,538.47	5.15	4.59	103.17	-4,016.63	3,258.62	5,172.87	5,163.13	9.74	531.312	
1,512.21	1,512.19	1,551.00	1,546.30	5.19	4.62	103.16	-4,015.66	3,259.69	5,172.85	5,163.04	9.81	527.176	
1,600.00	1,599.84	1,587.85	1,582.51	5.51	4.78	103.09	-4,011.23	3,264.92	5,173.59	5,163.31	10.28	503.208	
1,700.00	1,699.45	1,639.00	1,632.67	5.87	4.99	102.98	-4,005.26	3,272.92	5,176.26	5,165.41	10.86	476.761	
1,800.00	1,798.70	1,718.48	1,710.38	6.23	5.35	102.82	-3,995.68	3,286.56	5,180.46	5,168.89	11.57	447.625	
1,900.00	1,897.47	1,900.00	2,048.01	6.60	6.19	102.54	-3,946.84	3,340.73	5,182.62	5,169.83	12.78	405.428	
2,000.00	1,995.62	2,128.57	2,111.42	6.99	7.24	102.51	-3,937.43	3,348.90	5,183.74	5,169.52	14.22	364.531	
2,100.00	2,093.06	2,163.00	2,145.27	7.39	7.39	102.47	-3,932.90	3,353.30	5,186.78	5,171.99	14.78	350.847	
2,200.00	2,189.64	2,230.14	2,211.31	7.82	7.69	102.43	-3,924.67	3,362.13	5,191.45	5,175.94	15.51	334.616	
2,300.00	2,285.27	2,301.83	2,281.83	8.28	8.02	102.39	-3,916.28	3,372.00	5,197.64	5,181.34	16.30	318.958	
2,400.00	2,379.82	2,381.71	2,360.31	8.77	8.39	102.37	-3,906.89	3,383.55	5,204.99	5,187.85	17.15	303.519	
2,500.00	2,473.17	2,466.19	2,443.32	9.31	8.77	102.36	-3,897.22	3,395.88	5,213.47	5,195.41	18.06	288.666	
2,600.00	2,565.21	2,602.98	2,577.67	9.88	9.41	102.49	-3,881.25	3,416.01	5,222.73	5,203.47	19.26	271.161	
2,660.67	2,620.37	2,638.01	2,612.01	10.25	9.57	102.46	-3,876.85	3,421.40	5,228.54	5,208.75	19.79	264.213	
2,700.00	2,655.96	2,662.37	2,635.88	10.50	9.69	102.52	-3,873.84	3,425.21	5,232.54	5,212.39	20.15	259.730	
2,800.00	2,746.43	2,771.15	2,742.38	11.15	10.21	102.78	-3,860.26	3,442.70	5,242.96	5,221.66	21.30	246.138	
2,900.00	2,836.90	2,848.87	2,818.56	11.82	10.58	102.98	-3,850.76	3,454.81	5,253.37	5,231.05	22.32	235.367	
3,000.00	2,927.37	2,936.34	2,904.54	12.50	10.98	103.21	-3,841.06	3,467.60	5,264.17	5,240.78	23.39	225.032	
3,100.00	3,017.85	3,052.41	3,018.54	13.21	11.53	103.51	-3,827.87	3,484.93	5,275.07	5,250.45	24.62	214.264	
3,200.00	3,108.32	3,170.38	3,134.24	13.92	12.09	103.80	-3,813.19	3,502.71	5,285.24	5,259.37	25.87	204.269	
3,300.00	3,198.79	3,210.00	3,173.13	14.64	12.27	103.90	-3,808.46	3,508.61	5,296.05	5,269.30	26.76	197.942	
3,400.00	3,289.27	3,272.86	3,234.83	15.38	12.57	104.06	-3,801.35	3,518.32	5,307.71	5,279.95	27.76	191.230	
3,500.00	3,379.74	3,317.72	3,278.83	16.12	12.78	104.17	-3,796.61	3,525.69	5,320.46	5,291.79	28.67	185.570	
3,600.00	3,470.21	3,362.02	3,322.28	16.87	12.99	104.28	-3,792.31	3,533.17	5,334.26	5,304.67	29.59	180.300	
3,700.00	3,560.68	3,415.16	3,374.41	17.62	13.24	104.41	-3,787.64	3,542.35	5,349.05	5,318.50	30.54	175.123	
3,800.00	3,651.16	3,481.72	3,439.73	18.39	13.55	104.58	-3,782.26	3,553.93	5,364.58	5,333.01	31.57	169.916	
3,900.00	3,741.63	3,871.00	3,823.00	19.15	15.33	105.62	-3,744.15	3,609.61	5,375.15	5,340.99	34.16	157.355	
4,000.00	3,832.10	3,943.28	3,894.37	19.92	15.65	105.82	-3,736.74	3,618.29	5,386.19	5,350.97	35.21	152.968	
4,100.00	3,922.57	4,041.26	3,991.07	20.69	16.09	106.09	-3,726.57	3,630.39	5,397.46	5,361.08	36.38	148.348	
4,200.00	4,013.05	4,106.25	4,055.15	21.47	16.38	106.27	-3,719.67	3,638.72	5,408.99	5,371.58	37.41	144.598	
4,300.00	4,103.52	4,146.69	4,094.99	22.25	16.56	106.37	-3,715.57	3,644.32	5,421.53	5,383.21	38.32	141.497	
4,400.00	4,193.99	4,255.51	4,201.93	23.03	17.07	106.64	-3,704.37	3,661.08	5,434.90	5,395.33	39.57	137.353	
4,500.00	4,284.47	4,334.45	4,279.51	23.81	17.44	106.84	-3,696.07	3,673.07	5,448.06	5,407.38	40.67	133.950	
4,600.00	4,374.94	4,408.00	4,352.12	24.60	17.77	107.04	-3,689.62	3,682.82	5,461.68	5,419.95	41.73	130.882	
4,700.00	4,465.41	4,514.62	4,457.81	25.39	18.21	107.36	-3,682.08	3,694.59	5,475.62	5,432.71	42.91	127.593	
4,800.00	4,555.88	4,677.70	4,620.31	26.18	18.81	107.92	-3,673.60	3,705.12	5,488.77	5,444.50	44.27	123.994	

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

Offset Design SEC 26-T1N-R68W - EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 548-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,646.36	4,798.00	4,740.46	26.97	19.22	108.38	-3,668.86	3,708.71	5,501.44	5,456.03	45.40	121.167	
5,000.00	4,736.83	4,898.68	4,841.10	27.76	19.53	108.79	-3,666.36	3,709.03	5,514.18	5,467.74	46.44	118.741	
5,100.00	4,827.30	5,058.12	5,000.46	28.55	19.98	109.48	-3,663.88	3,704.79	5,526.49	5,478.88	47.61	116.079	
5,200.00	4,917.77	5,157.95	5,100.20	29.35	20.25	109.93	-3,662.33	3,700.88	5,538.52	5,489.92	48.60	113.962	
5,300.00	5,008.25	5,272.03	5,214.16	30.15	20.57	110.43	-3,660.39	3,695.89	5,550.53	5,500.91	49.63	111.847	
5,400.00	5,098.72	5,305.00	5,247.09	30.94	20.66	110.58	-3,659.76	3,694.36	5,562.94	5,512.52	50.43	110.319	
5,500.00	5,189.19	5,383.21	5,325.22	31.74	20.88	110.92	-3,658.51	3,691.32	5,575.97	5,524.61	51.36	108.577	
5,600.00	5,279.67	5,429.13	5,371.12	32.54	21.01	111.12	-3,658.01	3,690.12	5,590.19	5,538.01	52.18	107.124	
5,700.00	5,370.14	5,480.00	5,421.99	33.34	21.16	111.33	-3,657.65	3,689.29	5,605.43	5,552.41	53.02	105.718	
5,800.00	5,460.61	5,552.47	5,494.45	34.14	21.37	111.63	-3,657.34	3,688.52	5,621.44	5,567.51	53.93	104.235	
5,900.00	5,551.08	5,633.37	5,575.35	34.94	21.61	111.97	-3,657.08	3,687.76	5,637.88	5,583.02	54.86	102.765	
6,000.00	5,641.56	5,724.32	5,666.30	35.75	21.88	112.34	-3,656.88	3,686.93	5,654.69	5,598.87	55.82	101.294	
6,100.00	5,732.03	5,818.83	5,760.80	36.55	22.16	112.73	-3,656.68	3,685.91	5,671.72	5,614.93	56.80	99.862	
6,200.00	5,822.50	5,922.34	5,864.30	37.35	22.47	113.16	-3,656.43	3,684.54	5,688.90	5,631.10	57.79	98.434	
6,300.00	5,912.97	6,026.86	5,968.80	38.16	22.78	113.59	-3,656.04	3,682.85	5,706.12	5,647.32	58.79	97.054	
6,400.00	6,003.45	6,130.67	6,072.59	38.96	23.09	114.02	-3,655.51	3,680.88	5,723.40	5,663.61	59.79	95.728	
6,500.00	6,093.92	6,224.95	6,166.86	39.77	23.38	114.40	-3,654.95	3,678.84	5,740.77	5,680.03	60.75	94.502	
6,600.00	6,184.39	6,311.12	6,253.00	40.57	23.64	114.76	-3,654.53	3,676.85	5,758.46	5,696.78	61.68	93.365	
6,700.00	6,274.87	6,403.82	6,345.68	41.38	23.92	115.13	-3,654.14	3,674.66	5,776.45	5,713.83	62.63	92.237	
6,800.00	6,365.34	6,503.14	6,444.97	42.18	24.22	115.53	-3,653.47	3,672.57	5,794.60	5,731.00	63.60	91.114	
6,900.00	6,455.81	6,591.61	6,533.42	42.99	24.50	115.89	-3,652.65	3,670.97	5,812.93	5,748.40	64.53	90.076	
7,000.00	6,546.28	6,676.55	6,618.35	43.80	24.76	116.22	-3,651.82	3,669.73	5,831.60	5,766.14	65.46	89.091	
7,100.00	6,636.76	6,757.44	6,699.22	44.61	25.02	116.53	-3,650.99	3,668.87	5,850.63	5,784.26	66.37	88.155	
7,200.00	6,727.23	6,836.83	6,778.62	45.41	25.28	116.83	-3,650.11	3,668.56	5,870.07	5,802.79	67.27	87.257	
7,300.00	6,817.70	6,915.84	6,857.61	46.22	25.54	117.13	-3,649.20	3,668.72	5,889.92	5,821.74	68.18	86.393	
7,383.79	6,893.51	6,981.43	6,923.20	46.90	25.75	117.37	-3,648.54	3,668.95	5,906.87	5,837.94	68.93	85.694	
7,400.00	6,908.25	6,994.17	6,935.94	47.03	25.79	115.18	-3,648.42	3,669.00	5,909.98	5,840.90	69.07	85.560	
7,450.00	6,954.52	7,034.15	6,975.92	47.40	25.93	106.61	-3,648.08	3,669.16	5,916.98	5,847.47	69.51	85.123	
7,500.00	7,001.74	7,075.74	7,017.51	47.72	26.06	94.71	-3,647.78	3,669.35	5,920.04	5,850.11	69.93	84.654	
7,550.00	7,049.55	7,118.41	7,060.18	47.99	26.20	79.33	-3,647.50	3,669.54	5,919.13	5,848.80	70.33	84.160	
7,600.00	7,097.58	7,161.26	7,103.02	48.21	26.34	62.02	-3,647.27	3,669.72	5,914.24	5,843.54	70.70	83.650	
7,650.00	7,145.48	7,203.96	7,145.72	48.37	26.48	45.68	-3,647.09	3,669.90	5,905.39	5,834.35	71.04	83.127	
7,700.00	7,192.88	7,261.14	7,202.91	48.48	26.67	32.32	-3,646.86	3,670.09	5,892.61	5,821.21	71.40	82.527	
7,750.00	7,239.41	7,333.05	7,274.81	48.54	26.90	22.10	-3,646.40	3,670.10	5,875.82	5,804.03	71.79	81.847	
7,800.00	7,284.72	7,402.91	7,344.67	48.56	27.13	14.25	-3,645.75	3,669.83	5,855.10	5,782.96	72.14	81.162	
7,850.00	7,328.47	7,477.17	7,418.92	48.54	27.37	8.00	-3,644.80	3,669.22	5,830.61	5,758.14	72.48	80.447	
7,900.00	7,370.32	7,547.60	7,489.33	48.47	27.60	2.72	-3,643.65	3,668.28	5,802.53	5,729.76	72.77	79.735	
7,950.00	7,409.96	7,950.00	7,503.80	48.37	28.92	-2.04	-3,643.33	3,667.98	5,771.16	5,697.06	74.11	77.876	
8,000.00	7,447.08	7,607.42	7,549.14	48.24	27.80	-6.61	-3,642.55	3,667.35	5,736.95	5,663.96	72.99	78.597	
8,050.00	7,481.41	7,625.91	7,567.63	48.07	27.86	-11.26	-3,642.26	3,667.15	5,700.18	5,627.16	73.03	78.058	
8,100.00	7,512.67	7,642.80	7,584.51	47.87	27.91	-16.28	-3,642.02	3,667.02	5,661.12	5,588.08	73.03	77.515	
8,150.00	7,540.64	7,657.93	7,599.64	47.65	27.96	-21.99	-3,641.82	3,666.95	5,620.03	5,547.01	73.01	76.972	
8,200.00	7,565.09	7,671.19	7,612.90	47.40	28.01	-28.72	-3,641.67	3,666.91	5,577.22	5,504.25	72.97	76.430	
8,250.00	7,585.85	7,682.46	7,624.16	47.14	28.04	-36.84	-3,641.55	3,666.91	5,533.00	5,460.10	72.91	75.891	
8,300.00	7,602.75	7,691.62	7,633.33	46.86	28.07	-46.65	-3,641.46	3,666.92	5,487.71	5,414.89	72.82	75.358	
8,350.00	7,615.67	7,698.60	7,640.31	46.58	28.10	-58.17	-3,641.40	3,666.93	5,441.68	5,368.97	72.72	74.833	
8,400.00	7,624.51	7,703.33	7,645.04	46.28	28.11	-70.83	-3,641.36	3,666.95	5,395.27	5,322.68	72.60	74.318	
8,450.00	7,629.19	7,705.74	7,647.45	45.98	28.12	-83.50	-3,641.34	3,666.96	5,348.84	5,276.38	72.46	73.817	
8,481.00	7,630.00	7,706.06	7,647.76	45.79	28.12	-90.82	-3,641.34	3,666.96	5,320.19	5,247.82	72.37	73.513	
8,500.00	7,630.00	7,705.97	7,647.68	45.68	28.12	-90.82	-3,641.34	3,666.96	5,302.70	5,230.39	72.31	73.329	
8,600.00	7,630.00	7,705.53	7,647.23	45.11	28.12	-90.81	-3,641.35	3,666.96	5,210.81	5,138.79	72.01	72.359	
8,700.00	7,630.00	7,705.08	7,646.78	44.56	28.12	-90.80	-3,641.35	3,666.96	5,119.22	5,047.51	71.71	71.387	

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

Offset Design SEC 26-T1N-R68W - EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 548-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,800.00	7,630.00	7,704.62	7,646.33	44.05	28.12	-90.78	-3,641.35	3,666.95	5,027.95	4,956.54	71.41	70.413	
8,900.00	7,630.00	7,704.16	7,645.87	43.57	28.12	-90.77	-3,641.36	3,666.95	4,937.02	4,865.92	71.10	69.436	
9,000.00	7,630.00	7,703.70	7,645.41	43.12	28.11	-90.76	-3,641.36	3,666.95	4,846.45	4,775.65	70.80	68.456	
9,100.00	7,630.00	7,703.23	7,644.94	42.70	28.11	-90.74	-3,641.36	3,666.95	4,756.25	4,685.76	70.49	67.473	
9,200.00	7,630.00	7,702.76	7,644.46	42.31	28.11	-90.73	-3,641.37	3,666.95	4,666.45	4,596.27	70.19	66.485	
9,300.00	7,630.00	7,702.28	7,643.99	41.94	28.11	-90.72	-3,641.37	3,666.95	4,577.08	4,507.19	69.89	65.492	
9,400.00	7,630.00	7,701.79	7,643.50	41.59	28.11	-90.70	-3,641.38	3,666.94	4,488.15	4,418.56	69.59	64.492	
9,500.00	7,630.00	7,701.31	7,643.01	41.26	28.11	-90.69	-3,641.38	3,666.94	4,399.71	4,330.40	69.30	63.484	
9,600.00	7,630.00	7,700.81	7,642.52	40.96	28.10	-90.68	-3,641.38	3,666.94	4,311.76	4,242.74	69.02	62.468	
9,700.00	7,630.00	7,700.31	7,642.02	40.68	28.10	-90.66	-3,641.39	3,666.94	4,224.35	4,155.60	68.75	61.442	
9,800.00	7,630.00	7,699.81	7,641.52	40.42	28.10	-90.65	-3,641.39	3,666.94	4,137.51	4,069.02	68.50	60.403	
9,900.00	7,630.00	7,699.30	7,641.01	40.17	28.10	-90.64	-3,641.40	3,666.94	4,051.28	3,983.02	68.26	59.351	
10,000.00	7,630.00	7,698.78	7,640.49	39.96	28.10	-90.62	-3,641.40	3,666.93	3,965.70	3,897.66	68.04	58.283	
10,100.00	7,630.00	7,698.26	7,639.97	40.05	28.10	-90.61	-3,641.41	3,666.93	3,880.80	3,812.95	67.85	57.198	
10,200.00	7,630.00	7,697.74	7,639.45	40.95	28.09	-90.59	-3,641.41	3,666.93	3,796.64	3,728.96	67.69	56.092	
10,300.00	7,630.00	7,697.21	7,638.91	41.94	28.09	-90.58	-3,641.42	3,666.93	3,713.27	3,645.71	67.56	54.965	
10,400.00	7,630.00	7,696.67	7,638.38	42.98	28.09	-90.56	-3,641.42	3,666.93	3,630.73	3,563.26	67.47	53.813	
10,500.00	7,630.00	7,696.12	7,637.83	44.06	28.09	-90.55	-3,641.42	3,666.93	3,549.10	3,481.67	67.43	52.634	
10,600.00	7,630.00	7,695.57	7,637.28	45.17	28.09	-90.53	-3,641.43	3,666.93	3,468.42	3,400.98	67.44	51.426	
10,700.00	7,630.00	7,695.02	7,636.73	46.32	28.09	-90.52	-3,641.43	3,666.92	3,388.78	3,321.26	67.52	50.187	
10,800.00	7,630.00	7,694.46	7,636.16	47.50	28.08	-90.50	-3,641.44	3,666.92	3,310.24	3,242.57	67.67	48.916	
10,900.00	7,630.00	7,693.89	7,635.60	48.70	28.08	-90.49	-3,641.44	3,666.92	3,232.88	3,164.98	67.90	47.612	
11,000.00	7,630.00	7,693.31	7,635.02	49.94	28.08	-90.47	-3,641.45	3,666.92	3,156.80	3,088.58	68.22	46.275	
11,100.00	7,630.00	7,692.73	7,634.44	51.20	28.08	-90.45	-3,641.45	3,666.92	3,082.09	3,013.45	68.64	44.905	
11,200.00	7,630.00	7,692.14	7,633.85	52.48	28.08	-90.44	-3,641.46	3,666.92	3,008.84	2,939.68	69.16	43.504	
11,300.00	7,630.00	7,691.55	7,633.26	53.79	28.07	-90.42	-3,641.47	3,666.92	2,937.17	2,867.36	69.81	42.076	
11,400.00	7,630.00	7,690.95	7,632.66	55.12	28.07	-90.41	-3,641.47	3,666.92	2,867.20	2,796.62	70.58	40.625	
11,500.00	7,630.00	7,690.34	7,632.05	56.46	28.07	-90.39	-3,641.48	3,666.91	2,799.05	2,727.57	71.48	39.157	
11,600.00	7,630.00	7,689.72	7,631.43	57.83	28.07	-90.37	-3,641.48	3,666.91	2,732.86	2,660.33	72.53	37.679	
11,700.00	7,630.00	7,689.10	7,630.81	59.22	28.07	-90.35	-3,641.49	3,666.91	2,668.78	2,595.05	73.73	36.199	
11,800.00	7,630.00	7,688.47	7,630.18	60.62	28.06	-90.34	-3,641.49	3,666.91	2,606.96	2,531.89	75.07	34.726	
11,900.00	7,630.00	7,687.83	7,629.54	62.04	28.06	-90.32	-3,641.50	3,666.91	2,547.56	2,470.99	76.57	33.271	
12,000.00	7,630.00	7,687.19	7,628.89	63.48	28.06	-90.30	-3,641.51	3,666.91	2,490.77	2,412.55	78.22	31.842	
12,100.00	7,630.00	7,686.53	7,628.24	64.93	28.06	-90.28	-3,641.51	3,666.91	2,436.76	2,356.73	80.02	30.451	
12,200.00	7,630.00	7,685.87	7,627.58	66.39	28.06	-90.26	-3,641.52	3,666.91	2,385.71	2,303.75	81.96	29.107	
12,300.00	7,630.00	7,685.20	7,626.91	67.86	28.05	-90.25	-3,641.53	3,666.91	2,337.83	2,253.80	84.04	27.819	
12,400.00	7,630.00	7,684.52	7,626.23	69.35	28.05	-90.23	-3,641.53	3,666.91	2,293.32	2,207.08	86.24	26.594	
12,500.00	7,630.00	7,683.84	7,625.55	70.85	28.05	-90.21	-3,641.54	3,666.91	2,252.37	2,163.83	88.54	25.440	
12,600.00	7,630.00	7,683.14	7,624.85	72.36	28.05	-90.19	-3,641.55	3,666.91	2,215.17	2,124.25	90.93	24.362	
12,700.00	7,630.00	7,682.44	7,624.15	73.88	28.04	-90.17	-3,641.55	3,666.91	2,181.93	2,088.55	93.38	23.365	
12,800.00	7,630.00	7,681.73	7,623.44	75.41	28.04	-90.15	-3,641.56	3,666.91	2,152.83	2,056.94	95.88	22.453	
12,900.00	7,630.00	7,681.01	7,622.72	76.95	28.04	-90.13	-3,641.57	3,666.91	2,128.03	2,029.63	98.40	21.626	
13,000.00	7,630.00	7,680.28	7,621.99	78.49	28.04	-90.11	-3,641.57	3,666.91	2,107.69	2,006.78	100.91	20.887	
13,100.00	7,630.00	7,679.54	7,621.25	80.05	28.03	-90.09	-3,641.58	3,666.91	2,091.93	1,988.55	103.38	20.235	
13,200.00	7,630.00	7,678.79	7,620.50	81.61	28.03	-90.07	-3,641.59	3,666.91	2,080.87	1,975.08	105.79	19.670	
13,300.00	7,630.00	7,678.03	7,619.74	83.18	28.03	-90.05	-3,641.60	3,666.91	2,074.57	1,966.46	108.11	19.189	
13,380.86	7,630.00	7,677.41	7,619.12	84.46	28.03	-90.03	-3,641.60	3,666.91	2,072.99	1,963.09	109.91	18.862	CC
13,400.00	7,630.00	7,677.26	7,618.97	84.76	28.03	-90.03	-3,641.61	3,666.91	2,073.08	1,962.76	110.32	18.792	ES
13,500.00	7,630.00	7,676.48	7,618.19	86.34	28.02	-90.01	-3,641.61	3,666.91	2,076.41	1,964.02	112.39	18.475	
13,600.00	7,630.00	7,675.69	7,617.40	87.94	28.02	-89.98	-3,641.62	3,666.91	2,084.54	1,970.22	114.32	18.234	
13,700.00	7,630.00	7,674.89	7,616.60	89.53	28.02	-89.96	-3,641.63	3,666.91	2,097.41	1,981.33	116.08	18.068	
13,800.00	7,630.00	7,674.08	7,615.79	91.13	28.02	-89.94	-3,641.64	3,666.91	2,114.94	1,997.26	117.68	17.972	

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

Offset Design SEC 26-T1N-R68W - EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 548-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	7,630.00	7,673.26	7,614.97	92.74	28.01	-89.92	-3,641.65	3,666.91	2,137.00	2,017.91	119.10	17.944	SF
14,000.00	7,630.00	7,672.43	7,614.14	94.35	28.01	-89.89	-3,641.66	3,666.91	2,163.47	2,043.13	120.34	17.978	
14,100.00	7,630.00	7,671.58	7,613.29	95.97	28.01	-89.87	-3,641.67	3,666.91	2,194.18	2,072.77	121.41	18.073	
14,200.00	7,630.00	7,670.73	7,612.44	97.60	28.01	-89.85	-3,641.67	3,666.91	2,228.95	2,106.64	122.31	18.223	
14,300.00	7,630.00	7,669.86	7,611.57	99.22	28.00	-89.82	-3,641.68	3,666.92	2,267.61	2,144.55	123.06	18.427	
14,400.00	7,630.00	7,668.98	7,610.69	100.85	28.00	-89.80	-3,641.69	3,666.92	2,309.95	2,186.29	123.66	18.680	
14,500.00	7,630.00	7,668.08	7,609.79	102.49	28.00	-89.77	-3,641.70	3,666.92	2,355.77	2,231.65	124.13	18.979	
14,600.00	7,630.00	7,667.18	7,608.89	104.13	27.99	-89.75	-3,641.71	3,666.92	2,404.88	2,280.42	124.47	19.322	
14,700.00	7,630.00	7,666.26	7,607.97	105.77	27.99	-89.72	-3,641.72	3,666.92	2,457.09	2,332.39	124.69	19.705	
14,800.00	7,630.00	7,665.33	7,607.04	107.42	27.99	-89.70	-3,641.74	3,666.93	2,512.19	2,387.36	124.82	20.126	
14,900.00	7,630.00	7,664.39	7,606.10	109.07	27.99	-89.67	-3,641.75	3,666.93	2,570.00	2,445.13	124.87	20.582	
15,000.00	7,630.00	7,663.43	7,605.14	110.72	27.98	-89.64	-3,641.76	3,666.93	2,630.34	2,505.51	124.83	21.071	
15,100.00	7,630.00	7,662.45	7,604.16	112.38	27.98	-89.62	-3,641.77	3,666.93	2,693.04	2,568.31	124.73	21.591	
15,200.00	7,630.00	7,661.47	7,603.18	114.04	27.98	-89.59	-3,641.78	3,666.94	2,757.95	2,633.37	124.57	22.139	
15,300.00	7,630.00	7,660.46	7,602.17	115.71	27.97	-89.56	-3,641.79	3,666.94	2,824.90	2,700.53	124.37	22.714	
15,400.00	7,630.00	7,659.45	7,601.16	117.37	27.97	-89.53	-3,641.80	3,666.94	2,893.76	2,769.64	124.12	23.314	
15,500.00	7,630.00	7,658.41	7,600.12	119.04	27.97	-89.51	-3,641.82	3,666.95	2,964.39	2,840.55	123.84	23.937	
15,600.00	7,630.00	7,657.37	7,599.08	120.71	27.96	-89.48	-3,641.83	3,666.95	3,036.68	2,913.15	123.53	24.582	
15,700.00	7,630.00	7,656.30	7,598.01	122.39	27.96	-89.45	-3,641.84	3,666.95	3,110.50	2,987.29	123.20	25.247	
15,800.00	7,630.00	7,655.22	7,596.93	124.06	27.96	-89.42	-3,641.86	3,666.96	3,185.75	3,062.89	122.86	25.931	
15,900.00	7,630.00	7,654.12	7,595.83	125.74	27.95	-89.39	-3,641.87	3,666.96	3,262.32	3,139.83	122.50	26.632	
16,000.00	7,630.00	7,653.01	7,594.72	127.42	27.95	-89.36	-3,641.88	3,666.97	3,340.14	3,218.01	122.13	27.350	
16,100.00	7,630.00	7,651.87	7,593.58	129.10	27.94	-89.33	-3,641.90	3,666.97	3,419.11	3,297.36	121.75	28.083	
16,200.00	7,630.00	7,650.72	7,592.43	130.79	27.94	-89.29	-3,641.91	3,666.98	3,499.15	3,377.79	121.37	28.831	
16,300.00	7,630.00	7,649.55	7,591.26	132.48	27.94	-89.26	-3,641.93	3,666.99	3,580.20	3,459.22	120.98	29.593	
16,400.00	7,630.00	7,648.36	7,590.07	134.17	27.93	-89.23	-3,641.94	3,666.99	3,662.18	3,541.59	120.60	30.367	
16,500.00	7,630.00	7,647.15	7,588.87	135.86	27.93	-89.19	-3,641.96	3,667.00	3,745.04	3,624.83	120.22	31.153	
16,600.00	7,630.00	7,645.93	7,587.64	137.55	27.92	-89.16	-3,641.97	3,667.01	3,828.72	3,708.89	119.84	31.950	
16,700.00	7,630.00	7,644.68	7,586.39	139.24	27.92	-89.13	-3,641.99	3,667.01	3,913.17	3,793.71	119.46	32.757	
16,800.00	7,630.00	7,643.41	7,585.12	140.94	27.92	-89.09	-3,642.01	3,667.02	3,998.33	3,879.24	119.09	33.574	
16,900.00	7,630.00	7,642.11	7,583.83	142.64	27.91	-89.06	-3,642.03	3,667.03	4,084.16	3,965.44	118.72	34.401	
17,000.00	7,630.00	7,640.80	7,582.51	144.34	27.91	-89.02	-3,642.04	3,667.04	4,170.62	4,052.26	118.36	35.236	
17,100.00	7,630.00	7,639.46	7,581.18	146.04	27.90	-88.98	-3,642.06	3,667.05	4,257.68	4,139.67	118.01	36.080	
17,200.00	7,630.00	7,638.10	7,579.82	147.74	27.90	-88.94	-3,642.08	3,667.06	4,345.29	4,227.63	117.66	36.931	
17,300.00	7,630.00	7,636.72	7,578.43	149.44	27.89	-88.91	-3,642.10	3,667.06	4,433.43	4,316.11	117.32	37.789	
17,400.00	7,630.00	7,635.31	7,577.02	151.15	27.89	-88.87	-3,642.12	3,667.08	4,522.06	4,405.07	116.99	38.654	
17,500.00	7,630.00	7,633.88	7,575.59	152.86	27.89	-88.83	-3,642.14	3,667.09	4,611.16	4,494.49	116.66	39.525	
17,600.00	7,630.00	7,632.42	7,574.13	154.56	27.88	-88.79	-3,642.16	3,667.10	4,700.69	4,584.34	116.35	40.403	
17,700.00	7,630.00	7,630.93	7,572.65	156.27	27.88	-88.75	-3,642.18	3,667.11	4,790.64	4,674.60	116.04	41.286	
17,800.00	7,630.00	7,629.42	7,571.13	157.98	27.87	-88.70	-3,642.20	3,667.12	4,880.97	4,765.24	115.73	42.174	
17,900.00	7,630.00	7,627.88	7,569.59	159.70	27.87	-88.66	-3,642.23	3,667.14	4,971.68	4,856.24	115.44	43.068	
18,000.00	7,630.00	7,626.31	7,568.02	161.41	27.86	-88.62	-3,642.25	3,667.15	5,062.74	4,947.59	115.15	43.966	
18,100.00	7,630.00	7,624.71	7,566.42	163.12	27.86	-88.57	-3,642.27	3,667.16	5,154.12	5,039.25	114.87	44.869	
18,154.00	7,630.00	7,623.83	7,565.55	164.05	27.85	-88.55	-3,642.29	3,667.17	5,203.61	5,088.89	114.72	45.358	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	29.73	29.73	0.00	0.05	162.95	-7,122.43	2,184.44	7,449.89				
100.00	100.00	151.56	151.56	0.13	0.38	162.94	-7,121.86	2,185.16	7,449.61	7,449.09	0.51	N/A	
200.00	200.00	231.98	231.98	0.49	0.66	162.95	-7,121.80	2,184.53	7,449.31	7,448.16	1.15	6,454.115	
234.99	234.99	257.00	256.99	0.62	0.75	162.95	-7,121.86	2,184.26	7,449.29	7,447.92	1.37	5,448.963	
300.00	300.00	292.54	292.52	0.85	0.87	162.95	-7,122.07	2,183.79	7,449.41	7,447.69	1.73	4,316.430	
400.00	400.00	349.00	348.97	1.21	1.07	162.96	-7,122.80	2,182.81	7,450.12	7,447.84	2.28	3,262.067	
500.00	500.00	412.07	412.01	1.57	1.30	162.98	-7,124.08	2,181.38	7,451.38	7,448.51	2.87	2,598.825	
600.00	600.00	482.70	482.58	1.93	1.55	163.00	-7,126.02	2,179.12	7,453.06	7,449.58	3.48	2,141.753	
700.00	700.00	898.00	894.54	2.29	3.18	163.37	-7,141.26	2,132.52	7,454.87	7,449.40	5.46	1,364.766	
800.00	800.00	950.42	945.87	2.64	3.42	163.45	-7,143.19	2,122.05	7,452.76	7,446.70	6.06	1,230.083	
900.00	900.00	1,018.97	1,012.82	3.00	3.73	163.57	-7,146.61	2,107.72	7,451.50	7,444.76	6.73	1,106.411	
1,000.00	1,000.00	1,073.20	1,065.51	3.36	4.00	163.67	-7,149.70	2,095.29	7,450.53	7,443.17	7.36	1,012.364	
1,065.60	1,065.60	1,096.00	1,087.60	3.60	4.11	163.71	-7,151.21	2,089.83	7,450.32	7,442.61	7.71	966.590	
1,100.00	1,100.00	1,096.00	1,087.60	3.72	4.11	163.71	-7,151.21	2,089.83	7,450.40	7,442.57	7.83	951.378	
1,200.00	1,200.00	1,135.56	1,125.86	4.08	4.32	163.79	-7,154.22	2,080.28	7,451.15	7,442.76	8.39	887.719	
1,300.00	1,300.00	1,183.00	1,171.73	4.44	4.56	163.88	-7,158.54	2,068.96	7,453.04	7,444.04	9.00	828.440	
1,400.00	1,400.00	1,183.00	1,171.73	4.79	4.56	163.88	-7,158.54	2,068.96	7,455.73	7,446.37	9.35	797.194	
1,500.00	1,499.98	1,243.35	1,229.84	5.15	4.89	126.13	-7,164.95	2,053.99	7,460.30	7,450.26	10.04	743.331	
1,600.00	1,599.84	1,271.00	1,256.32	5.51	5.04	126.08	-7,168.17	2,046.70	7,467.72	7,457.18	10.54	708.518	
1,700.00	1,699.45	1,327.53	1,310.32	5.87	5.37	126.06	-7,175.22	2,031.55	7,477.91	7,466.69	11.22	666.540	
1,800.00	1,798.70	1,395.33	1,375.04	6.23	5.77	126.06	-7,184.27	2,013.45	7,490.98	7,479.01	11.97	625.789	
1,900.00	1,897.47	1,489.53	1,464.94	6.60	6.33	126.11	-7,196.65	1,988.22	7,506.14	7,493.25	12.89	582.269	
2,000.00	1,995.62	1,532.00	1,505.42	6.99	6.58	125.96	-7,202.37	1,976.72	7,523.87	7,510.35	13.51	556.757	
2,100.00	2,093.06	1,590.70	1,561.25	7.39	6.95	125.83	-7,210.63	1,960.57	7,544.27	7,530.02	14.25	529.284	
2,200.00	2,189.64	1,635.47	1,603.70	7.82	7.23	125.62	-7,217.28	1,948.02	7,567.45	7,552.53	14.92	507.133	
2,300.00	2,285.27	1,682.40	1,648.19	8.28	7.52	125.38	-7,224.47	1,934.89	7,593.34	7,577.72	15.62	486.044	
2,400.00	2,379.82	1,745.45	1,707.96	8.77	7.92	125.17	-7,234.36	1,917.45	7,621.86	7,605.42	16.44	463.522	
2,500.00	2,473.17	2,253.47	2,193.61	9.31	11.06	126.88	-7,297.64	1,782.94	7,649.74	7,629.71	20.02	382.032	
2,600.00	2,565.21	2,288.99	2,227.76	9.88	11.27	126.55	-7,301.15	1,773.80	7,678.71	7,658.00	20.71	370.761	
2,660.67	2,620.37	2,318.00	2,255.58	10.25	11.44	126.36	-7,304.20	1,766.19	7,697.67	7,676.49	21.18	363.373	
2,700.00	2,655.96	2,327.60	2,264.78	10.50	11.50	126.41	-7,305.24	1,763.65	7,710.34	7,688.90	21.44	359.638	
2,800.00	2,746.43	2,800.00	2,387.39	11.15	14.35	126.99	-7,318.69	1,730.52	7,742.82	7,718.05	24.77	312.591	
2,900.00	2,836.90	2,900.00	2,570.81	11.82	14.88	127.85	-7,335.72	1,682.83	7,774.35	7,748.50	25.84	300.828	
3,000.00	2,927.37	2,702.27	2,625.40	12.50	13.73	128.10	-7,340.49	1,668.40	7,806.04	7,780.81	25.23	309.396	
3,100.00	3,017.85	2,755.00	2,676.15	13.21	14.05	128.33	-7,345.42	1,654.95	7,838.67	7,812.59	26.08	300.567	
3,200.00	3,108.32	2,778.55	2,698.82	13.92	14.18	128.44	-7,347.72	1,649.02	7,871.94	7,845.18	26.76	294.210	
3,300.00	3,198.79	2,897.83	2,814.02	14.64	14.88	128.95	-7,358.77	1,620.14	7,905.48	7,877.49	27.99	282.429	
3,400.00	3,289.27	3,117.89	3,027.36	15.38	16.11	129.88	-7,376.63	1,569.21	7,938.82	7,909.04	29.78	266.606	
3,500.00	3,379.74	3,151.74	3,060.08	16.12	16.31	130.02	-7,379.24	1,560.99	7,971.78	7,941.26	30.52	261.171	
3,600.00	3,470.21	3,191.00	3,097.98	16.87	16.53	130.19	-7,382.41	1,551.21	8,005.40	7,974.11	31.30	255.784	
3,700.00	3,560.68	3,240.44	3,145.61	17.62	16.83	130.40	-7,386.65	1,538.63	8,039.70	8,007.56	32.14	250.161	
3,800.00	3,651.16	3,278.00	3,181.73	18.39	17.05	130.56	-7,390.05	1,528.94	8,074.68	8,041.77	32.91	245.390	
3,900.00	3,741.63	3,278.00	3,181.73	19.15	17.05	130.56	-7,390.05	1,528.94	8,110.58	8,077.14	33.44	242.514	
4,000.00	3,832.10	3,329.46	3,231.21	19.92	17.36	130.78	-7,395.15	1,515.72	8,147.04	8,112.75	34.29	237.590	
4,100.00	3,922.57	3,366.00	3,266.33	20.69	17.58	130.94	-7,399.19	1,506.50	8,184.50	8,149.46	35.04	233.556	
4,200.00	4,013.05	3,554.31	3,447.08	21.47	18.73	131.74	-7,418.95	1,457.52	8,221.97	8,185.25	36.73	223.863	
4,300.00	4,103.52	3,540.00	3,433.36	22.25	18.65	131.68	-7,417.53	1,461.34	8,259.66	8,222.49	37.16	222.245	
4,400.00	4,193.99	3,590.51	3,481.67	23.03	18.97	131.89	-7,422.89	1,447.62	8,297.88	8,259.87	38.01	218.326	
4,500.00	4,284.47	3,628.00	3,517.37	23.81	19.21	132.06	-7,427.32	1,437.08	8,337.08	8,298.32	38.76	215.091	
4,600.00	4,374.94	4,576.78	4,449.82	24.60	23.32	135.11	-7,480.74	1,306.33	8,373.20	8,329.66	43.54	192.305	
4,700.00	4,465.41	4,758.66	4,631.68	25.39	23.75	135.51	-7,478.69	1,305.67	8,403.81	8,359.24	44.58	188.532	
4,800.00	4,555.88	4,942.03	4,815.01	26.18	24.18	135.90	-7,474.56	1,305.22	8,433.49	8,387.88	45.61	184.919	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 74-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,646.36	5,078.88	4,951.80	26.97	24.51	136.19	-7,470.38	1,304.61	8,462.53	8,416.00	46.53	181.891	
5,000.00	4,736.83	5,163.80	5,036.66	27.76	24.71	136.36	-7,467.52	1,304.26	8,491.37	8,444.06	47.31	179.488	
5,100.00	4,827.30	5,231.86	5,104.69	28.55	24.87	136.50	-7,465.39	1,304.14	8,520.54	8,472.49	48.05	177.336	
5,200.00	4,917.77	5,286.00	5,158.81	29.35	25.00	136.61	-7,463.82	1,304.15	8,550.07	8,501.32	48.75	175.396	
5,300.00	5,008.25	5,286.00	5,158.81	30.15	25.00	136.61	-7,463.82	1,304.15	8,580.43	8,531.13	49.30	174.059	
5,400.00	5,098.72	5,360.85	5,233.64	30.94	25.21	136.77	-7,462.30	1,303.78	8,610.96	8,560.90	50.06	172.001	
5,500.00	5,189.19	5,394.37	5,267.16	31.74	25.30	136.84	-7,462.00	1,303.33	8,642.46	8,591.76	50.70	170.452	
5,600.00	5,279.67	5,461.00	5,333.77	32.54	25.48	136.99	-7,462.07	1,301.90	8,674.82	8,623.38	51.44	168.642	
5,700.00	5,370.14	5,461.00	5,333.77	33.34	25.48	136.99	-7,462.07	1,301.90	8,707.53	8,655.56	51.97	167.556	
5,800.00	5,460.61	5,521.40	5,394.15	34.14	25.65	137.12	-7,462.63	1,300.46	8,740.94	8,688.26	52.69	165.907	
5,900.00	5,551.08	5,582.67	5,455.40	34.94	25.83	137.25	-7,463.39	1,299.36	8,774.75	8,721.34	53.40	164.307	
6,000.00	5,641.56	5,688.03	5,560.75	35.75	26.12	137.47	-7,464.94	1,298.26	8,808.91	8,754.65	54.26	162.340	
6,100.00	5,732.03	5,931.35	5,804.06	36.55	26.80	137.95	-7,465.46	1,297.05	8,841.85	8,786.29	55.56	159.146	
6,200.00	5,822.50	6,116.05	5,988.74	37.35	27.30	138.32	-7,463.49	1,295.51	8,873.88	8,817.22	56.66	156.618	
6,300.00	5,912.97	6,227.05	6,099.72	38.16	27.60	138.54	-7,461.47	1,295.62	8,905.30	8,847.77	57.53	154.796	
6,400.00	6,003.45	6,314.47	6,187.13	38.96	27.84	138.71	-7,459.88	1,295.12	8,936.81	8,878.48	58.32	153.227	
6,500.00	6,093.92	6,412.55	6,285.18	39.77	28.11	138.90	-7,458.09	1,294.13	8,968.39	8,909.23	59.16	151.603	
6,600.00	6,184.39	6,513.97	6,386.59	40.57	28.40	139.09	-7,456.13	1,293.35	8,999.96	8,939.95	60.00	149.994	
6,700.00	6,274.87	6,574.76	6,447.36	41.38	28.56	139.21	-7,455.03	1,293.09	9,031.71	8,971.00	60.71	148.767	
6,800.00	6,365.34	6,637.45	6,510.05	42.18	28.73	139.32	-7,454.08	1,293.07	9,063.83	9,002.41	61.42	147.564	
6,900.00	6,455.81	6,710.10	6,582.69	42.99	28.93	139.46	-7,453.20	1,293.35	9,096.30	9,034.13	62.16	146.325	
7,000.00	6,546.28	6,809.23	6,681.81	43.80	29.19	139.64	-7,452.02	1,293.84	9,128.85	9,065.86	62.99	144.933	
7,100.00	6,636.76	6,918.40	6,790.97	44.61	29.49	139.83	-7,450.58	1,294.39	9,161.37	9,097.53	63.84	143.500	
7,200.00	6,727.23	7,037.29	6,909.85	45.41	29.81	140.04	-7,448.68	1,294.77	9,193.71	9,128.97	64.73	142.030	
7,300.00	6,817.70	7,106.76	6,979.30	46.22	30.00	140.17	-7,447.56	1,294.90	9,226.09	9,160.63	65.46	140.936	
7,383.79	6,893.51	7,166.63	7,039.17	46.90	30.17	140.27	-7,446.71	1,294.99	9,253.43	9,187.35	66.08	140.033	
7,400.00	6,908.25	7,178.26	7,050.80	47.03	30.20	137.94	-7,446.55	1,295.01	9,258.53	9,192.33	66.20	139.859	
7,450.00	6,954.52	7,220.03	7,092.56	47.40	30.32	129.03	-7,446.03	1,295.07	9,271.51	9,204.93	66.58	139.247	
7,500.00	7,001.74	7,282.85	7,155.38	47.72	30.49	116.98	-7,445.20	1,295.28	9,280.22	9,213.19	67.03	138.447	
7,550.00	7,049.55	7,346.51	7,219.03	47.99	30.67	101.61	-7,444.25	1,295.68	9,284.54	9,217.07	67.47	137.606	
7,600.00	7,097.58	7,410.49	7,283.00	48.21	30.85	84.48	-7,443.18	1,296.28	9,284.45	9,216.55	67.90	136.738	
7,650.00	7,145.48	7,435.98	7,308.49	48.37	30.92	68.43	-7,442.81	1,296.46	9,280.08	9,211.90	68.18	136.110	
7,700.00	7,192.88	7,472.83	7,345.33	48.48	31.02	55.53	-7,442.28	1,296.73	9,271.45	9,202.97	68.48	135.391	
7,750.00	7,239.41	7,508.95	7,381.45	48.54	31.12	45.96	-7,441.80	1,296.95	9,258.63	9,189.87	68.75	134.663	
7,800.00	7,284.72	7,544.09	7,416.58	48.56	31.22	39.01	-7,441.36	1,297.14	9,241.72	9,172.71	69.01	133.925	
7,850.00	7,328.47	7,584.42	7,456.91	48.54	31.33	33.95	-7,440.90	1,297.31	9,220.83	9,151.57	69.26	133.134	
7,900.00	7,370.32	7,626.29	7,498.78	48.47	31.45	30.23	-7,440.42	1,297.49	9,196.08	9,126.58	69.50	132.315	
7,950.00	7,409.96	7,665.89	7,538.38	48.37	31.56	27.47	-7,439.97	1,297.66	9,167.66	9,097.94	69.72	131.494	
8,000.00	7,447.08	7,702.91	7,575.39	48.24	31.67	25.41	-7,439.54	1,297.81	9,135.77	9,065.86	69.91	130.672	
8,050.00	7,481.41	7,737.07	7,609.55	48.07	31.76	23.89	-7,439.15	1,297.94	9,100.67	9,030.59	70.08	129.852	
8,100.00	7,512.67	7,762.22	7,634.70	47.87	31.83	22.81	-7,438.87	1,298.07	9,062.63	8,992.41	70.21	129.074	
8,150.00	7,540.64	7,785.58	7,658.06	47.65	31.90	22.12	-7,438.62	1,298.22	9,021.92	8,951.60	70.32	128.291	
8,200.00	7,565.09	7,805.99	7,678.46	47.40	31.96	21.83	-7,438.41	1,298.38	8,978.87	8,908.45	70.42	127.510	
8,250.00	7,585.85	7,823.27	7,695.75	47.14	32.01	21.99	-7,438.24	1,298.53	8,933.79	8,863.29	70.49	126.735	
8,300.00	7,602.75	7,837.30	7,709.77	46.86	32.04	22.78	-7,438.11	1,298.66	8,887.01	8,816.46	70.55	125.965	
8,350.00	7,615.67	7,847.94	7,720.41	46.58	32.07	24.70	-7,438.01	1,298.77	8,838.88	8,768.29	70.60	125.204	
8,400.00	7,624.51	7,855.12	7,727.59	46.28	32.09	29.47	-7,437.95	1,298.84	8,789.78	8,719.15	70.63	124.454	
8,450.00	7,629.19	7,858.75	7,731.22	45.98	32.10	47.82	-7,437.92	1,298.88	8,740.06	8,669.41	70.65	123.717	
8,481.00	7,630.00	7,859.21	7,731.68	45.79	32.11	105.77	-7,437.91	1,298.89	8,709.09	8,638.44	70.65	123.267	
8,500.00	7,630.00	7,859.06	7,731.53	45.68	32.11	105.74	-7,437.92	1,298.89	8,690.10	8,619.45	70.66	122.993	
8,600.00	7,630.00	7,858.31	7,730.78	45.11	32.10	105.60	-7,437.92	1,298.88	8,590.16	8,519.49	70.67	121.553	
8,700.00	7,630.00	7,857.56	7,730.03	44.56	32.10	105.46	-7,437.93	1,298.87	8,490.22	8,419.53	70.69	120.112	

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

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,800.00	7,630.00	7,856.80	7,729.27	44.05	32.10	105.31	-7,437.94	1,298.86	8,390.28	8,319.58	70.70	118.669	
8,900.00	7,630.00	7,856.04	7,728.51	43.57	32.10	105.17	-7,437.94	1,298.85	8,290.34	8,219.62	70.72	117.224	
9,000.00	7,630.00	7,855.27	7,727.74	43.12	32.10	105.02	-7,437.95	1,298.85	8,190.40	8,119.66	70.74	115.778	
9,100.00	7,630.00	7,854.51	7,726.98	42.70	32.09	104.88	-7,437.96	1,298.84	8,090.47	8,019.71	70.76	114.331	
9,200.00	7,630.00	7,853.74	7,726.21	42.31	32.09	104.73	-7,437.96	1,298.83	7,990.53	7,919.75	70.79	112.883	
9,300.00	7,630.00	7,852.97	7,725.44	41.94	32.09	104.58	-7,437.97	1,298.82	7,890.60	7,819.79	70.81	111.433	
9,400.00	7,630.00	7,852.19	7,724.66	41.59	32.09	104.44	-7,437.98	1,298.81	7,790.67	7,719.84	70.84	109.982	
9,500.00	7,630.00	7,851.41	7,723.89	41.26	32.08	104.29	-7,437.98	1,298.80	7,690.74	7,619.88	70.86	108.530	
9,600.00	7,630.00	7,850.63	7,723.10	40.96	32.08	104.14	-7,437.99	1,298.80	7,590.81	7,519.92	70.89	107.076	
9,700.00	7,630.00	7,849.85	7,722.32	40.68	32.08	103.99	-7,438.00	1,298.79	7,490.89	7,419.97	70.92	105.622	
9,800.00	7,630.00	7,849.06	7,721.53	40.42	32.08	103.84	-7,438.00	1,298.78	7,390.97	7,320.01	70.95	104.167	
9,900.00	7,630.00	7,848.27	7,720.74	40.17	32.08	103.69	-7,438.01	1,298.77	7,291.04	7,220.06	70.99	102.710	
10,000.00	7,630.00	7,847.48	7,719.95	39.96	32.07	103.53	-7,438.02	1,298.76	7,191.12	7,120.10	71.02	101.253	
10,100.00	7,630.00	7,846.69	7,719.16	40.05	32.07	103.38	-7,438.03	1,298.75	7,091.21	7,020.15	71.06	99.794	
10,200.00	7,630.00	7,845.89	7,718.36	40.95	32.07	103.23	-7,438.03	1,298.75	6,991.29	6,920.20	71.10	98.335	
10,300.00	7,630.00	7,845.09	7,717.56	41.94	32.07	103.07	-7,438.04	1,298.74	6,891.38	6,820.24	71.14	96.875	
10,400.00	7,630.00	7,844.28	7,716.75	42.98	32.06	102.92	-7,438.05	1,298.73	6,791.47	6,720.29	71.18	95.414	
10,500.00	7,630.00	7,843.47	7,715.94	44.06	32.06	102.76	-7,438.05	1,298.72	6,691.56	6,620.34	71.22	93.952	
10,600.00	7,630.00	7,842.66	7,715.13	45.17	32.06	102.60	-7,438.06	1,298.71	6,591.66	6,520.39	71.27	92.490	
10,700.00	7,630.00	7,841.85	7,714.32	46.32	32.06	102.45	-7,438.07	1,298.70	6,491.75	6,420.44	71.32	91.027	
10,800.00	7,630.00	7,841.03	7,713.50	47.50	32.06	102.29	-7,438.08	1,298.70	6,391.85	6,320.49	71.37	89.563	
10,900.00	7,630.00	7,840.21	7,712.68	48.70	32.05	102.13	-7,438.08	1,298.69	6,291.96	6,220.54	71.42	88.098	
11,000.00	7,630.00	7,839.39	7,711.86	49.94	32.05	101.97	-7,438.09	1,298.68	6,192.07	6,120.59	71.47	86.634	
11,100.00	7,630.00	7,838.56	7,711.03	51.20	32.05	101.81	-7,438.10	1,298.67	6,092.18	6,020.64	71.53	85.168	
11,200.00	7,630.00	7,837.73	7,710.20	52.48	32.05	101.65	-7,438.11	1,298.66	5,992.29	5,920.70	71.59	83.702	
11,300.00	7,630.00	7,836.90	7,709.37	53.79	32.04	101.48	-7,438.12	1,298.65	5,892.41	5,820.76	71.65	82.236	
11,400.00	7,630.00	7,836.06	7,708.53	55.12	32.04	101.32	-7,438.12	1,298.65	5,792.53	5,720.81	71.72	80.769	
11,500.00	7,630.00	7,835.22	7,707.69	56.46	32.04	101.16	-7,438.13	1,298.64	5,692.66	5,620.87	71.78	79.302	
11,600.00	7,630.00	7,834.38	7,706.85	57.83	32.04	100.99	-7,438.14	1,298.63	5,592.79	5,520.93	71.85	77.835	
11,700.00	7,630.00	7,833.53	7,706.01	59.22	32.03	100.82	-7,438.15	1,298.62	5,492.92	5,420.99	71.93	76.367	
11,800.00	7,630.00	7,832.68	7,705.16	60.62	32.03	100.66	-7,438.15	1,298.61	5,393.06	5,321.06	72.00	74.899	
11,900.00	7,630.00	7,831.83	7,704.30	62.04	32.03	100.49	-7,438.16	1,298.61	5,293.20	5,221.12	72.08	73.431	
12,000.00	7,630.00	7,830.98	7,703.45	63.48	32.03	100.32	-7,438.17	1,298.60	5,193.35	5,121.19	72.17	71.963	
12,100.00	7,630.00	7,830.12	7,702.59	64.93	32.02	100.15	-7,438.18	1,298.59	5,093.51	5,021.26	72.25	70.494	
12,200.00	7,630.00	7,829.25	7,701.73	66.39	32.02	99.98	-7,438.19	1,298.58	4,993.67	4,921.33	72.34	69.026	
12,300.00	7,630.00	7,828.39	7,700.86	67.86	32.02	99.81	-7,438.19	1,298.57	4,893.84	4,821.40	72.44	67.558	
12,400.00	7,630.00	7,827.52	7,699.99	69.35	32.02	99.64	-7,438.20	1,298.56	4,794.02	4,721.48	72.54	66.089	
12,500.00	7,630.00	7,826.64	7,699.12	70.85	32.01	99.47	-7,438.21	1,298.56	4,694.20	4,621.56	72.64	64.621	
12,600.00	7,630.00	7,825.77	7,698.24	72.36	32.01	99.30	-7,438.22	1,298.55	4,594.39	4,521.64	72.75	63.152	
12,700.00	7,630.00	7,824.89	7,697.36	73.88	32.01	99.12	-7,438.23	1,298.54	4,494.59	4,421.72	72.86	61.684	
12,800.00	7,630.00	7,824.00	7,696.48	75.41	32.01	98.95	-7,438.24	1,298.53	4,394.79	4,321.81	72.98	60.216	
12,900.00	7,630.00	7,823.12	7,695.59	76.95	32.00	98.77	-7,438.24	1,298.52	4,295.01	4,221.90	73.11	58.748	
13,000.00	7,630.00	7,822.23	7,694.70	78.49	32.00	98.59	-7,438.25	1,298.52	4,195.24	4,122.00	73.24	57.281	
13,100.00	7,630.00	7,821.33	7,693.80	80.05	32.00	98.42	-7,438.26	1,298.51	4,095.48	4,022.10	73.38	55.813	
13,200.00	7,630.00	7,820.43	7,692.91	81.61	32.00	98.24	-7,438.27	1,298.50	3,995.73	3,922.20	73.52	54.346	
13,300.00	7,630.00	7,819.53	7,692.00	83.18	31.99	98.06	-7,438.28	1,298.49	3,895.99	3,822.31	73.68	52.880	
13,400.00	7,630.00	7,818.63	7,691.10	84.76	31.99	97.88	-7,438.29	1,298.48	3,796.26	3,722.43	73.84	51.413	
13,500.00	7,630.00	7,817.72	7,690.19	86.34	31.99	97.70	-7,438.30	1,298.48	3,696.55	3,622.55	74.01	49.948	
13,600.00	7,630.00	7,816.80	7,689.28	87.94	31.99	97.51	-7,438.31	1,298.47	3,596.86	3,522.67	74.19	48.482	
13,700.00	7,630.00	7,815.89	7,688.36	89.53	31.98	97.33	-7,438.31	1,298.46	3,497.18	3,422.80	74.38	47.017	
13,800.00	7,630.00	7,814.97	7,687.44	91.13	31.98	97.15	-7,438.32	1,298.45	3,397.53	3,322.94	74.58	45.553	
13,900.00	7,630.00	7,814.04	7,686.52	92.74	31.98	96.96	-7,438.33	1,298.44	3,297.89	3,223.09	74.80	44.089	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,000.00	7,630.00	7,813.12	7,685.59	94.35	31.98	96.78	-7,438.34	1,298.44	3,198.27	3,123.24	75.03	42.626	
14,100.00	7,630.00	7,812.19	7,684.66	95.97	31.97	96.59	-7,438.35	1,298.43	3,098.68	3,023.41	75.28	41.164	
14,200.00	7,630.00	7,811.25	7,683.72	97.60	31.97	96.40	-7,438.36	1,298.42	2,999.12	2,923.58	75.54	39.702	
14,300.00	7,630.00	7,810.31	7,682.79	99.22	31.97	96.22	-7,438.37	1,298.41	2,899.58	2,823.76	75.82	38.241	
14,400.00	7,630.00	7,809.37	7,681.84	100.85	31.97	96.03	-7,438.38	1,298.40	2,800.08	2,723.96	76.13	36.782	
14,500.00	7,630.00	7,808.42	7,680.90	102.49	31.96	95.84	-7,438.39	1,298.40	2,700.62	2,624.16	76.46	35.323	
14,600.00	7,630.00	7,807.47	7,679.94	104.13	31.96	95.65	-7,438.40	1,298.39	2,601.20	2,524.38	76.81	33.865	
14,700.00	7,630.00	7,806.52	7,678.99	105.77	31.96	95.45	-7,438.41	1,298.38	2,501.82	2,424.62	77.20	32.408	
14,800.00	7,630.00	7,805.56	7,678.03	107.42	31.96	95.26	-7,438.42	1,298.37	2,402.49	2,324.87	77.62	30.953	
14,900.00	7,630.00	7,804.59	7,677.07	109.07	31.95	95.07	-7,438.43	1,298.36	2,303.22	2,225.14	78.08	29.499	
15,000.00	7,630.00	7,803.63	7,676.10	110.72	31.95	94.87	-7,438.43	1,298.36	2,204.02	2,125.43	78.58	28.047	
15,100.00	7,630.00	7,802.66	7,675.13	112.38	31.95	94.68	-7,438.44	1,298.35	2,104.89	2,025.75	79.14	26.597	
15,200.00	7,630.00	7,801.68	7,674.16	114.04	31.94	94.48	-7,438.45	1,298.34	2,005.85	1,926.09	79.76	25.149	
15,300.00	7,630.00	7,800.70	7,673.18	115.71	31.94	94.28	-7,438.46	1,298.33	1,906.90	1,826.45	80.45	23.704	
15,400.00	7,630.00	7,799.72	7,672.19	117.37	31.94	94.09	-7,438.47	1,298.33	1,808.07	1,726.86	81.22	22.262	
15,500.00	7,630.00	7,798.73	7,671.21	119.04	31.94	93.89	-7,438.48	1,298.32	1,709.38	1,627.29	82.09	20.823	
15,600.00	7,630.00	7,797.74	7,670.22	120.71	31.93	93.69	-7,438.49	1,298.31	1,610.85	1,527.77	83.08	19.390	
15,700.00	7,630.00	7,796.75	7,669.22	122.39	31.93	93.49	-7,438.50	1,298.30	1,512.51	1,428.30	84.21	17.961	
15,800.00	7,630.00	7,795.75	7,668.22	124.06	31.93	93.28	-7,438.51	1,298.30	1,414.41	1,328.89	85.51	16.540	
15,900.00	7,630.00	7,794.74	7,667.22	125.74	31.93	93.08	-7,438.52	1,298.29	1,316.58	1,229.55	87.03	15.128	
16,000.00	7,630.00	7,793.73	7,666.21	127.42	31.92	92.88	-7,438.53	1,298.28	1,219.11	1,130.30	88.82	13.726	
16,100.00	7,630.00	7,792.72	7,665.20	129.10	31.92	92.67	-7,438.54	1,298.27	1,122.09	1,031.15	90.94	12.339	
16,200.00	7,630.00	7,791.70	7,664.18	130.79	31.92	92.47	-7,438.56	1,298.26	1,025.63	932.14	93.49	10.971	
16,300.00	7,630.00	7,790.68	7,663.16	132.48	31.91	92.26	-7,438.57	1,298.26	929.92	833.33	96.60	9.627	
16,400.00	7,630.00	7,789.66	7,662.13	134.17	31.91	92.05	-7,438.58	1,298.25	835.22	734.78	100.45	8.315	
16,500.00	7,630.00	7,788.63	7,661.10	135.86	31.91	91.84	-7,438.59	1,298.24	741.91	636.63	105.28	7.047	
16,600.00	7,630.00	7,787.59	7,660.07	137.55	31.91	91.63	-7,438.60	1,298.23	650.59	539.13	111.45	5.837	
16,700.00	7,630.00	7,786.55	7,659.03	139.24	31.90	91.42	-7,438.61	1,298.23	562.22	442.79	119.44	4.707	
16,800.00	7,630.00	7,785.51	7,657.98	140.94	31.90	91.21	-7,438.62	1,298.22	478.46	348.65	129.81	3.686	
16,900.00	7,630.00	7,784.46	7,656.94	142.64	31.90	91.00	-7,438.63	1,298.21	402.18	259.18	143.01	2.812	
17,000.00	7,630.00	7,783.41	7,655.88	144.34	31.89	90.79	-7,438.64	1,298.21	338.49	180.15	158.34	2.138	
17,100.00	7,630.00	7,782.35	7,654.83	146.04	31.89	90.57	-7,438.65	1,298.20	295.63	124.10	171.53	1.723	
17,185.90	7,630.00	7,781.44	7,653.91	147.50	31.89	90.39	-7,438.66	1,298.19	282.88	108.37	174.51	1.621	CC, ES, SF
17,200.00	7,630.00	7,781.29	7,653.76	147.74	31.89	90.36	-7,438.66	1,298.19	283.23	109.33	173.90	1.629	
17,300.00	7,630.00	7,780.22	7,652.70	149.44	31.88	90.14	-7,438.67	1,298.18	305.02	143.40	161.61	1.887	
17,400.00	7,630.00	7,779.15	7,651.62	151.15	31.88	89.92	-7,438.69	1,298.18	354.76	212.29	142.46	2.490	
17,500.00	7,630.00	7,778.07	7,650.55	152.86	31.88	89.71	-7,438.70	1,298.17	422.69	298.11	124.58	3.393	
17,600.00	7,630.00	7,776.99	7,649.47	154.56	31.88	89.49	-7,438.71	1,298.16	501.47	390.90	110.58	4.535	
17,700.00	7,630.00	7,775.91	7,648.38	156.27	31.87	89.27	-7,438.72	1,298.16	586.76	486.54	100.22	5.855	
17,800.00	7,630.00	7,774.81	7,647.29	157.98	31.87	89.05	-7,438.73	1,298.15	676.09	583.43	92.65	7.297	
17,900.00	7,630.00	7,773.72	7,646.20	159.70	31.87	88.82	-7,438.74	1,298.14	768.05	680.93	87.11	8.817	
18,000.00	7,630.00	7,772.62	7,645.10	161.41	31.86	88.60	-7,438.75	1,298.13	861.80	778.77	83.02	10.380	
18,100.00	7,630.00	7,771.51	7,643.99	163.12	31.86	88.38	-7,438.77	1,298.13	956.82	876.83	79.98	11.963	
18,154.00	7,630.00	7,770.91	7,643.39	164.05	31.86	88.26	-7,438.77	1,298.12	1,008.53	929.86	78.67	12.820	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	69.91	69.91	0.00	0.11	162.99	-7,136.98	2,183.79	7,463.76				
100.00	100.00	124.97	124.96	0.13	0.29	162.99	-7,137.04	2,182.88	7,463.39	7,462.97	0.43	N/A	
106.12	106.12	128.13	128.12	0.16	0.31	162.99	-7,137.05	2,182.83	7,463.39	7,462.93	0.46	N/A	
200.00	200.00	187.98	187.96	0.49	0.52	163.00	-7,137.55	2,181.87	7,463.66	7,462.65	1.01	7,372.190	
300.00	300.00	296.18	296.07	0.85	0.91	163.03	-7,139.17	2,178.07	7,464.07	7,462.30	1.76	4,230.109	
400.00	400.00	374.75	374.46	1.21	1.21	163.07	-7,140.97	2,173.12	7,464.46	7,462.04	2.42	3,090.230	
500.00	500.00	440.00	439.46	1.57	1.45	163.12	-7,143.30	2,167.87	7,465.47	7,462.45	3.02	2,470.593	
600.00	600.00	440.00	439.46	1.93	1.45	163.12	-7,143.30	2,167.87	7,467.25	7,463.87	3.38	2,208.882	
700.00	700.00	484.34	483.56	2.29	1.63	163.15	-7,145.63	2,163.80	7,469.86	7,465.95	3.91	1,908.810	
800.00	800.00	533.00	531.84	2.64	1.82	163.20	-7,149.17	2,158.92	7,473.67	7,469.21	4.46	1,674.676	
900.00	900.00	533.00	531.84	3.00	1.82	163.20	-7,149.17	2,158.92	7,478.22	7,473.41	4.82	1,551.520	
1,000.00	1,000.00	579.27	577.65	3.36	2.02	163.24	-7,153.30	2,153.93	7,483.76	7,478.39	5.37	1,394.629	
1,100.00	1,100.00	625.00	622.85	3.72	2.21	163.29	-7,157.90	2,148.70	7,490.10	7,484.19	5.91	1,267.389	
1,200.00	1,200.00	657.82	655.23	4.08	2.35	163.33	-7,161.53	2,144.72	7,497.24	7,490.84	6.41	1,170.407	
1,300.00	1,300.00	717.00	713.42	4.44	2.61	163.40	-7,168.87	2,136.88	7,505.29	7,498.28	7.02	1,069.843	
1,400.00	1,400.00	717.00	713.42	4.79	2.61	163.40	-7,168.87	2,136.88	7,514.06	7,506.69	7.37	1,019.966	
1,500.00	1,499.98	759.18	754.72	5.15	2.81	125.48	-7,174.83	2,130.72	7,524.76	7,516.85	7.91	951.095	
1,600.00	1,599.84	809.00	803.25	5.51	3.05	125.35	-7,182.79	2,122.75	7,538.55	7,530.06	8.49	887.821	
1,700.00	1,699.45	809.00	803.25	5.87	3.05	125.08	-7,182.79	2,122.75	7,555.07	7,546.24	8.84	854.835	
1,800.00	1,798.70	809.00	803.25	6.23	3.05	124.74	-7,182.79	2,122.75	7,574.85	7,565.67	9.19	824.604	
1,900.00	1,897.47	858.31	851.02	6.60	3.31	124.49	-7,191.71	2,114.41	7,597.15	7,587.37	9.78	776.653	
2,000.00	1,995.62	898.00	889.29	6.99	3.51	124.17	-7,199.70	2,107.59	7,622.67	7,612.33	10.34	737.401	
2,100.00	2,093.06	898.00	889.29	7.39	3.51	123.69	-7,199.70	2,107.59	7,650.85	7,640.15	10.70	714.862	
2,200.00	2,189.64	898.00	889.29	7.82	3.51	123.14	-7,199.70	2,107.59	7,682.08	7,671.00	11.08	693.393	
2,300.00	2,285.27	955.73	944.74	8.28	3.84	122.74	-7,212.29	2,097.58	7,715.60	7,703.83	11.77	655.315	
2,400.00	2,379.82	1,011.00	997.61	8.77	4.14	122.31	-7,225.20	2,087.98	7,752.10	7,739.63	12.47	621.654	
2,500.00	2,473.17	1,011.00	997.61	9.31	4.14	121.59	-7,225.20	2,087.98	7,790.83	7,777.93	12.90	604.081	
2,600.00	2,565.21	1,011.00	997.61	9.88	4.14	120.81	-7,225.20	2,087.98	7,832.31	7,818.96	13.35	586.905	
2,660.67	2,620.37	1,043.98	1,029.06	10.25	4.34	120.46	-7,233.31	2,082.28	7,858.54	7,844.74	13.81	569.191	
2,700.00	2,655.96	1,052.63	1,037.31	10.50	4.39	120.50	-7,235.48	2,080.80	7,875.96	7,861.92	14.04	561.009	
2,800.00	2,746.43	1,100.00	1,082.35	11.15	4.67	120.72	-7,247.77	2,072.81	7,920.93	7,906.16	14.78	535.973	
2,900.00	2,836.90	1,100.00	1,082.35	11.82	4.67	120.72	-7,247.77	2,072.81	7,966.44	7,951.17	15.27	521.759	
3,000.00	2,927.37	1,100.00	1,082.35	12.50	4.67	120.72	-7,247.77	2,072.81	8,012.94	7,997.18	15.76	508.290	
3,100.00	3,017.85	1,144.27	1,124.35	13.21	4.93	120.93	-7,259.76	2,065.57	8,060.05	8,043.54	16.51	488.270	
3,200.00	3,108.32	1,187.00	1,164.81	13.92	5.19	121.12	-7,271.74	2,058.85	8,108.04	8,090.79	17.25	470.099	
3,300.00	3,198.79	1,187.00	1,164.81	14.64	5.19	121.12	-7,271.74	2,058.85	8,156.64	8,138.88	17.75	459.463	
3,400.00	3,289.27	1,216.11	1,192.31	15.38	5.38	121.26	-7,280.15	2,054.31	8,206.01	8,187.59	18.42	445.464	
3,500.00	3,379.74	1,239.55	1,214.38	16.12	5.52	121.36	-7,287.08	2,050.56	8,256.10	8,237.04	19.06	433.208	
3,600.00	3,470.21	1,275.00	1,247.66	16.87	5.75	121.53	-7,297.83	2,044.75	8,306.92	8,287.16	19.76	420.344	
3,700.00	3,560.68	1,275.00	1,247.66	17.62	5.75	121.53	-7,297.83	2,044.75	8,358.40	8,338.14	20.26	412.500	
3,800.00	3,651.16	1,326.16	1,295.53	18.39	6.08	121.76	-7,313.74	2,036.24	8,410.45	8,389.39	21.06	399.395	
3,900.00	3,741.63	1,362.00	1,329.01	19.15	6.32	121.93	-7,325.06	2,030.31	8,463.10	8,441.33	21.76	388.889	
4,000.00	3,832.10	1,414.70	1,378.17	19.92	6.68	122.17	-7,341.88	2,021.43	8,516.23	8,493.67	22.57	377.387	
4,100.00	3,922.57	1,449.00	1,410.10	20.69	6.91	122.33	-7,352.89	2,015.48	8,569.80	8,546.55	23.26	368.463	
4,200.00	4,013.05	1,479.63	1,438.55	21.47	7.12	122.47	-7,362.86	2,010.07	8,623.95	8,600.02	23.93	360.410	
4,300.00	4,103.52	1,501.79	1,459.08	22.25	7.28	122.57	-7,370.21	2,006.13	8,678.74	8,654.20	24.54	353.622	
4,400.00	4,193.99	1,537.00	1,491.60	23.03	7.53	122.73	-7,382.12	1,999.78	8,734.20	8,708.96	25.23	346.154	
4,500.00	4,284.47	1,537.00	1,491.60	23.81	7.53	122.73	-7,382.12	1,999.78	8,790.22	8,764.52	25.70	342.010	
4,600.00	4,374.94	1,537.00	1,491.60	24.60	7.53	122.73	-7,382.12	1,999.78	8,847.02	8,820.86	26.17	338.115	
4,700.00	4,465.41	1,577.03	1,528.40	25.39	7.82	122.92	-7,396.09	1,992.48	8,904.23	8,877.35	26.88	331.305	
4,800.00	4,555.88	1,593.46	1,543.44	26.18	7.94	122.99	-7,401.97	1,989.45	8,962.18	8,934.74	27.43	326.688	
4,900.00	4,646.36	1,624.00	1,571.29	26.97	8.17	123.14	-7,413.14	1,983.79	9,020.79	8,992.72	28.07	321.315	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,736.83	1,624.00	1,571.29	27.76	8.17	123.14	-7,413.14	1,983.79	9,079.92	9,051.41	28.52	318.395	
5,100.00	4,827.30	1,624.00	1,571.29	28.55	8.17	123.14	-7,413.14	1,983.79	9,139.77	9,110.81	28.96	315.651	
5,200.00	4,917.77	1,670.53	1,613.55	29.35	8.53	123.35	-7,430.59	1,975.15	9,199.96	9,170.28	29.69	309.898	
5,300.00	5,008.25	1,711.00	1,650.17	30.15	8.84	123.54	-7,446.11	1,967.68	9,260.85	9,230.47	30.38	304.878	
5,400.00	5,098.72	1,718.18	1,656.66	30.94	8.89	123.57	-7,448.89	1,966.36	9,322.14	9,291.30	30.84	302.229	
5,500.00	5,189.19	1,771.35	1,704.63	31.74	9.31	123.81	-7,469.54	1,956.37	9,383.87	9,352.26	31.61	296.864	
5,600.00	5,279.67	2,200.09	2,093.86	32.54	12.67	125.72	-7,629.17	1,873.93	9,445.28	9,410.44	34.84	271.138	
5,700.00	5,370.14	2,235.00	2,125.78	33.34	12.94	125.87	-7,641.53	1,867.09	9,505.08	9,469.60	35.48	267.915	
5,800.00	5,460.61	2,235.00	2,125.78	34.14	12.94	125.87	-7,641.53	1,867.09	9,565.46	9,529.57	35.89	266.544	
5,900.00	5,551.08	2,270.53	2,158.17	34.94	13.23	126.02	-7,654.32	1,860.05	9,626.23	9,589.70	36.53	263.535	
6,000.00	5,641.56	2,286.26	2,172.45	35.75	13.35	126.09	-7,660.10	1,856.88	9,687.63	9,650.60	37.03	261.610	
6,100.00	5,732.03	2,322.00	2,204.76	36.55	13.64	126.25	-7,673.52	1,849.55	9,749.65	9,711.98	37.66	258.868	
6,200.00	5,822.50	2,322.00	2,204.76	37.35	13.64	126.25	-7,673.52	1,849.55	9,812.03	9,773.97	38.05	257.861	
6,300.00	5,912.97	6,300.00	2,268.82	38.16	45.98	126.55	-7,700.35	1,835.19	9,874.77	9,813.67	61.10	161.614	
6,400.00	6,003.45	2,668.32	2,518.83	38.96	16.42	127.70	-7,801.76	1,779.95	9,937.02	9,895.88	41.13	241.575	
6,500.00	6,093.92	2,671.00	2,521.27	39.77	16.44	127.71	-7,802.72	1,779.43	9,998.98	9,957.45	41.53	240.753	
8,481.00	7,630.00	8,354.21	7,983.40	45.79	43.42	132.01	-8,720.36	1,208.79	9,999.16	9,926.32	72.84	137.268	
8,500.00	7,630.00	8,353.96	7,983.14	45.68	43.42	131.99	-8,720.36	1,208.78	9,980.19	9,907.34	72.85	137.000	
8,600.00	7,630.00	8,352.62	7,981.80	45.11	43.41	131.87	-8,720.41	1,208.77	9,880.31	9,807.44	72.87	135.591	
8,700.00	7,630.00	8,351.26	7,980.45	44.56	43.41	131.75	-8,720.45	1,208.75	9,780.44	9,707.54	72.89	134.180	
8,800.00	7,630.00	8,349.89	7,979.08	44.05	43.41	131.63	-8,720.50	1,208.74	9,680.56	9,607.65	72.91	132.767	
8,900.00	7,630.00	8,348.50	7,977.69	43.57	43.41	131.51	-8,720.54	1,208.72	9,580.69	9,507.76	72.94	131.353	
9,000.00	7,630.00	8,347.09	7,976.28	43.12	43.40	131.38	-8,720.59	1,208.70	9,480.83	9,407.86	72.96	129.937	
9,100.00	7,630.00	8,345.66	7,974.86	42.70	43.40	131.26	-8,720.64	1,208.69	9,380.96	9,307.97	72.99	128.520	
9,200.00	7,630.00	8,344.22	7,973.41	42.31	43.40	131.13	-8,720.69	1,208.67	9,281.10	9,208.08	73.02	127.102	
9,300.00	7,630.00	8,342.76	7,971.95	41.94	43.40	131.00	-8,720.74	1,208.66	9,181.24	9,108.19	73.05	125.682	
9,400.00	7,630.00	8,341.28	7,970.47	41.59	43.39	130.87	-8,720.79	1,208.64	9,081.38	9,008.30	73.08	124.261	
9,500.00	7,630.00	8,339.78	7,968.97	41.26	43.39	130.73	-8,720.84	1,208.62	8,981.53	8,908.41	73.12	122.839	
9,600.00	7,630.00	8,338.26	7,967.46	40.96	43.39	130.59	-8,720.90	1,208.61	8,881.67	8,808.52	73.15	121.416	
9,700.00	7,630.00	8,336.72	7,965.92	40.68	43.38	130.45	-8,720.95	1,208.59	8,781.83	8,708.64	73.19	119.992	
9,800.00	7,630.00	8,335.16	7,964.36	40.42	43.38	130.31	-8,721.00	1,208.57	8,681.98	8,608.75	73.22	118.566	
9,900.00	7,630.00	8,333.58	7,962.78	40.17	43.38	130.17	-8,721.06	1,208.56	8,582.13	8,508.87	73.26	117.140	
10,000.00	7,630.00	8,331.98	7,961.18	39.96	43.38	130.02	-8,721.12	1,208.54	8,482.29	8,408.99	73.30	115.712	
10,100.00	7,630.00	8,330.35	7,959.56	40.05	43.37	129.87	-8,721.18	1,208.53	8,382.46	8,309.11	73.35	114.284	
10,200.00	7,630.00	8,328.71	7,957.91	40.95	43.37	129.72	-8,721.24	1,208.51	8,282.62	8,209.23	73.39	112.855	
10,300.00	7,630.00	8,327.04	7,956.25	41.94	43.37	129.56	-8,721.30	1,208.49	8,182.79	8,109.35	73.44	111.425	
10,400.00	7,630.00	8,325.35	7,954.56	42.98	43.36	129.41	-8,721.36	1,208.48	8,082.96	8,009.48	73.49	109.994	
10,500.00	7,630.00	8,323.64	7,952.85	44.06	43.36	129.25	-8,721.42	1,208.46	7,983.14	7,909.60	73.54	108.562	
10,600.00	7,630.00	8,321.90	7,951.11	45.17	43.36	129.08	-8,721.49	1,208.45	7,883.32	7,809.73	73.59	107.129	
10,700.00	7,630.00	8,320.14	7,949.35	46.32	43.35	128.92	-8,721.56	1,208.43	7,783.50	7,709.86	73.64	105.696	
10,800.00	7,630.00	8,318.35	7,947.56	47.50	43.35	128.75	-8,721.62	1,208.41	7,683.69	7,609.99	73.70	104.262	
10,900.00	7,630.00	8,316.54	7,945.75	48.70	43.35	128.57	-8,721.69	1,208.40	7,583.88	7,510.13	73.75	102.828	
11,000.00	7,630.00	8,314.70	7,943.92	49.94	43.34	128.40	-8,721.76	1,208.38	7,484.07	7,410.26	73.81	101.393	
11,100.00	7,630.00	8,312.84	7,942.05	51.20	43.34	128.22	-8,721.84	1,208.37	7,384.27	7,310.40	73.87	99.957	
11,200.00	7,630.00	8,310.94	7,940.16	52.48	43.34	128.03	-8,721.91	1,208.35	7,284.48	7,210.54	73.94	98.521	
11,300.00	7,630.00	8,309.03	7,938.24	53.79	43.33	127.85	-8,721.98	1,208.34	7,184.69	7,110.68	74.00	97.085	
11,400.00	7,630.00	8,307.08	7,936.30	55.12	43.33	127.66	-8,722.06	1,208.32	7,084.90	7,010.83	74.07	95.648	
11,500.00	7,630.00	8,305.10	7,934.32	56.46	43.33	127.46	-8,722.14	1,208.30	6,985.12	6,910.98	74.14	94.211	
11,600.00	7,630.00	8,303.09	7,932.32	57.83	43.32	127.27	-8,722.22	1,208.29	6,885.34	6,811.13	74.22	92.774	
11,700.00	7,630.00	8,301.06	7,930.28	59.22	43.32	127.06	-8,722.30	1,208.27	6,785.57	6,711.28	74.29	91.336	
11,800.00	7,630.00	8,298.99	7,928.22	60.62	43.32	126.86	-8,722.39	1,208.26	6,685.81	6,611.44	74.37	89.898	
11,900.00	7,630.00	8,296.89	7,926.12	62.04	43.31	126.65	-8,722.47	1,208.24	6,586.05	6,511.59	74.45	88.460	

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,000.00	7,630.00	8,294.76	7,923.99	63.48	43.31	126.43	-8,722.56	1,208.23	6,486.29	6,411.76	74.54	87.022	
12,100.00	7,630.00	8,292.59	7,921.83	64.93	43.30	126.21	-8,722.65	1,208.21	6,386.55	6,311.92	74.62	85.584	
12,200.00	7,630.00	12,200.00	7,904.09	66.39	50.50	124.37	-8,723.51	1,208.10	6,286.93	6,202.19	84.74	74.190	
12,300.00	7,630.00	12,300.00	7,900.10	67.86	50.69	123.94	-8,723.67	1,208.08	6,187.19	6,102.10	85.09	72.709	
12,400.00	7,630.00	12,400.00	7,896.11	69.35	50.88	123.51	-8,723.83	1,208.07	6,087.45	6,002.00	85.45	71.238	
12,500.00	7,630.00	12,500.00	7,892.12	70.85	51.07	123.08	-8,723.99	1,208.05	5,987.72	5,901.91	85.81	69.777	
12,600.00	7,630.00	12,600.00	7,888.13	72.36	51.26	122.64	-8,724.15	1,208.04	5,887.99	5,801.82	86.18	68.325	
12,700.00	7,630.00	12,700.00	7,884.13	73.88	51.45	122.19	-8,724.31	1,208.02	5,788.27	5,701.73	86.54	66.882	
12,800.00	7,630.00	12,800.00	7,880.14	75.41	51.64	121.75	-8,724.47	1,208.00	5,688.56	5,601.64	86.92	65.448	
12,900.00	7,630.00	12,900.00	7,876.15	76.95	51.83	121.30	-8,724.63	1,207.99	5,588.85	5,501.56	87.29	64.024	
13,000.00	7,630.00	13,000.00	7,872.16	78.49	52.02	120.84	-8,724.79	1,207.97	5,489.16	5,401.48	87.67	62.609	
13,100.00	7,630.00	8,289.98	7,919.21	80.05	43.30	125.94	-8,722.65	1,208.16	5,389.45	5,313.67	75.79	71.113	
13,200.00	7,630.00	8,281.40	7,910.65	81.61	43.28	125.06	-8,723.07	1,208.12	5,289.81	5,213.92	75.89	69.704	
13,300.00	7,630.00	8,273.07	7,902.32	83.18	43.27	124.18	-8,723.48	1,208.09	5,190.18	5,114.18	76.00	68.294	
13,400.00	7,630.00	8,264.96	7,894.22	84.76	43.25	123.31	-8,723.87	1,208.06	5,090.55	5,014.44	76.11	66.884	
13,500.00	7,630.00	8,257.06	7,886.33	86.34	43.24	122.44	-8,724.24	1,208.03	4,990.93	4,914.70	76.23	65.472	
13,600.00	7,630.00	8,249.37	7,878.65	87.94	43.23	121.58	-8,724.59	1,208.00	4,891.32	4,814.97	76.36	64.060	
13,700.00	7,630.00	8,241.89	7,871.17	89.53	43.21	120.73	-8,724.94	1,207.97	4,791.72	4,715.23	76.49	62.647	
13,800.00	7,630.00	8,234.59	7,863.88	91.13	43.20	119.88	-8,725.27	1,207.94	4,692.12	4,615.50	76.63	61.234	
13,900.00	7,630.00	8,227.48	7,856.78	92.74	43.19	119.04	-8,725.59	1,207.91	4,592.54	4,515.77	76.77	59.820	
14,000.00	7,630.00	8,220.55	7,849.86	94.35	43.17	118.21	-8,725.89	1,207.89	4,492.97	4,416.04	76.93	58.405	
14,100.00	7,630.00	8,213.79	7,843.10	95.97	43.16	117.39	-8,726.19	1,207.86	4,393.41	4,316.32	77.09	56.990	
14,200.00	7,630.00	8,207.19	7,836.51	97.60	43.15	116.57	-8,726.47	1,207.84	4,293.87	4,216.60	77.26	55.574	
14,300.00	7,630.00	8,200.76	7,830.08	99.22	43.14	115.77	-8,726.74	1,207.81	4,194.34	4,116.89	77.45	54.159	
14,400.00	7,630.00	8,194.47	7,823.80	100.85	43.13	114.97	-8,727.01	1,207.79	4,094.82	4,017.19	77.64	52.742	
14,500.00	7,630.00	8,188.34	7,817.67	102.49	43.12	114.18	-8,727.26	1,207.76	3,995.33	3,917.49	77.84	51.326	
14,600.00	7,630.00	8,182.34	7,811.69	104.13	43.11	113.40	-8,727.51	1,207.74	3,895.85	3,817.79	78.06	49.910	
14,700.00	7,630.00	8,176.49	7,805.84	105.77	43.10	112.63	-8,727.75	1,207.71	3,796.40	3,718.11	78.29	48.493	
14,800.00	7,630.00	8,170.77	7,800.12	107.42	43.09	111.87	-8,727.98	1,207.69	3,696.96	3,618.43	78.53	47.076	
14,900.00	7,630.00	8,165.18	7,794.53	109.07	43.08	111.12	-8,728.20	1,207.67	3,597.56	3,518.77	78.79	45.659	
15,000.00	7,630.00	8,159.71	7,789.07	110.72	43.07	110.38	-8,728.41	1,207.65	3,498.18	3,419.11	79.07	44.243	
15,100.00	7,630.00	8,154.36	7,783.72	112.38	43.06	109.64	-8,728.62	1,207.63	3,398.83	3,319.47	79.36	42.826	
15,200.00	7,630.00	8,149.13	7,778.50	114.04	43.05	108.92	-8,728.82	1,207.61	3,299.51	3,219.83	79.68	41.410	
15,300.00	7,630.00	8,144.01	7,773.38	115.71	43.04	108.20	-8,729.01	1,207.59	3,200.23	3,120.22	80.02	39.994	
15,400.00	7,630.00	8,139.00	7,768.38	117.37	43.03	107.50	-8,729.20	1,207.57	3,100.99	3,020.61	80.38	38.579	
15,500.00	7,630.00	8,134.10	7,763.47	119.04	43.02	106.80	-8,729.38	1,207.55	3,001.80	2,921.03	80.77	37.164	
15,600.00	7,630.00	8,129.29	7,758.68	120.71	43.01	106.12	-8,729.56	1,207.53	2,902.65	2,821.46	81.19	35.750	
15,700.00	7,630.00	8,124.59	7,753.98	122.39	43.00	105.44	-8,729.73	1,207.51	2,803.56	2,721.91	81.65	34.337	
15,800.00	7,630.00	8,119.99	7,749.37	124.06	42.99	104.77	-8,729.90	1,207.49	2,704.53	2,622.39	82.14	32.925	
15,900.00	7,630.00	8,117.20	7,746.59	125.74	42.99	104.37	-8,729.99	1,207.52	2,605.56	2,522.86	82.70	31.507	
16,000.00	7,630.00	8,112.49	7,741.89	127.42	42.98	103.68	-8,730.16	1,207.49	2,506.67	2,423.39	83.28	30.099	
16,100.00	7,630.00	8,107.89	7,737.29	129.10	42.98	103.01	-8,730.32	1,207.46	2,407.87	2,323.95	83.92	28.693	
16,200.00	7,630.00	8,103.40	7,732.79	130.79	42.97	102.34	-8,730.48	1,207.44	2,309.17	2,224.55	84.62	27.288	
16,300.00	7,630.00	8,099.00	7,728.40	132.48	42.96	101.69	-8,730.63	1,207.41	2,210.58	2,125.18	85.39	25.887	
16,400.00	7,630.00	8,094.70	7,724.10	134.17	42.95	101.05	-8,730.78	1,207.39	2,112.11	2,025.86	86.25	24.488	
16,500.00	7,630.00	8,090.49	7,719.89	135.86	42.94	100.42	-8,730.92	1,207.37	2,013.78	1,926.58	87.20	23.093	
16,600.00	7,630.00	8,086.37	7,715.78	137.55	42.93	99.80	-8,731.06	1,207.36	1,915.62	1,827.35	88.27	21.702	
16,700.00	7,630.00	8,082.34	7,711.75	139.24	42.93	99.19	-8,731.19	1,207.34	1,817.66	1,728.19	89.46	20.317	
16,800.00	7,630.00	8,078.39	7,707.80	140.94	42.92	98.59	-8,731.32	1,207.32	1,719.92	1,629.11	90.81	18.939	
16,900.00	7,630.00	8,074.52	7,703.94	142.64	42.91	98.00	-8,731.44	1,207.31	1,622.45	1,530.10	92.35	17.569	
17,000.00	7,630.00	8,070.73	7,700.15	144.34	42.90	97.43	-8,731.56	1,207.30	1,525.29	1,431.20	94.10	16.210	
17,100.00	7,630.00	8,067.02	7,696.44	146.04	42.90	96.86	-8,731.68	1,207.29	1,428.53	1,332.41	96.12	14.862	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 74-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,200.00	7,630.00	8,063.39	7,692.81	147.74	42.89	96.30	-8,731.79	1,207.28	1,332.23	1,233.77	98.46	13.531	
17,300.00	7,630.00	8,059.82	7,689.25	149.44	42.88	95.76	-8,731.90	1,207.27	1,236.51	1,135.31	101.20	12.218	
17,400.00	7,630.00	8,056.33	7,685.75	151.15	42.88	95.22	-8,732.01	1,207.26	1,141.51	1,037.07	104.44	10.929	
17,500.00	7,630.00	8,052.91	7,682.33	152.86	42.87	94.69	-8,732.12	1,207.25	1,047.44	939.13	108.31	9.671	
17,600.00	7,630.00	8,049.55	7,678.97	154.56	42.86	94.18	-8,732.22	1,207.25	954.56	841.59	112.97	8.449	
17,700.00	7,630.00	8,046.25	7,675.68	156.27	42.86	93.67	-8,732.31	1,207.24	863.27	744.61	118.66	7.275	
17,800.00	7,630.00	8,043.02	7,672.45	157.98	42.85	93.17	-8,732.41	1,207.23	774.11	648.45	125.67	6.160	
17,900.00	7,630.00	8,039.85	7,669.28	159.70	42.85	92.68	-8,732.50	1,207.23	687.93	553.55	134.38	5.119	
18,000.00	7,630.00	8,036.73	7,666.17	161.41	42.84	92.20	-8,732.59	1,207.23	606.00	460.75	145.25	4.172	
18,100.00	7,630.00	8,033.68	7,663.11	163.12	42.83	91.72	-8,732.68	1,207.22	530.28	371.61	158.67	3.342	
18,154.00	7,630.00	8,032.05	7,661.48	164.05	42.83	91.47	-8,732.73	1,207.22	492.99	326.01	166.99	2.952	CC, ES, SF

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	41.06	41.06	0.00	0.06	163.03	-7,154.82	2,183.85	7,480.71				
100.00	100.00	114.27	114.27	0.13	0.25	163.02	-7,154.59	2,183.97	7,480.50	7,480.12	0.38	N/A	
200.00	200.00	166.00	166.00	0.49	0.43	163.03	-7,154.94	2,183.64	7,480.95	7,480.03	0.92	8,113.253	
300.00	300.00	211.56	211.55	0.85	0.59	163.03	-7,155.65	2,183.10	7,482.08	7,480.64	1.44	5,191.239	
400.00	400.00	257.00	256.97	1.21	0.75	163.04	-7,156.71	2,182.44	7,483.90	7,481.94	1.96	3,819.514	
500.00	500.00	299.57	299.50	1.57	0.90	163.05	-7,158.11	2,181.55	7,486.47	7,484.00	2.47	3,029.617	
600.00	600.00	349.00	348.86	1.93	1.08	163.07	-7,160.38	2,179.99	7,489.86	7,486.85	3.01	2,491.025	
700.00	700.00	379.87	379.66	2.29	1.20	163.08	-7,162.13	2,178.75	7,494.01	7,490.54	3.48	2,154.630	
800.00	800.00	440.00	439.57	2.64	1.42	163.11	-7,166.26	2,175.81	7,499.05	7,494.99	4.06	1,848.373	
900.00	900.00	440.00	439.57	3.00	1.42	163.11	-7,166.26	2,175.81	7,504.81	7,500.40	4.41	1,700.222	
1,000.00	1,000.00	487.69	487.02	3.36	1.61	163.14	-7,170.25	2,173.22	7,511.43	7,506.48	4.95	1,517.610	
1,100.00	1,100.00	533.00	532.05	3.72	1.78	163.17	-7,174.65	2,170.79	7,519.04	7,513.56	5.48	1,373.111	
1,200.00	1,200.00	533.00	532.05	4.08	1.78	163.17	-7,174.65	2,170.79	7,527.55	7,521.72	5.83	1,291.211	
1,300.00	1,300.00	593.61	592.17	4.44	2.03	163.21	-7,181.46	2,167.14	7,536.74	7,530.32	6.42	1,174.236	
1,400.00	1,400.00	625.00	623.23	4.79	2.16	163.23	-7,185.39	2,164.92	7,546.84	7,539.95	6.89	1,094.944	
1,500.00	1,499.98	678.68	676.23	5.15	2.39	125.28	-7,192.70	2,160.55	7,558.66	7,551.20	7.46	1,013.146	
1,600.00	1,599.84	717.00	713.96	5.51	2.55	125.09	-7,198.33	2,156.98	7,573.22	7,565.26	7.96	950.829	
1,700.00	1,699.45	755.79	752.07	5.87	2.73	124.87	-7,204.43	2,153.01	7,590.55	7,582.07	8.48	895.229	
1,800.00	1,798.70	809.00	804.14	6.23	2.98	124.64	-7,213.56	2,147.05	7,610.77	7,601.71	9.06	840.302	
1,900.00	1,897.47	809.00	804.14	6.60	2.98	124.25	-7,213.56	2,147.05	7,633.65	7,624.24	9.41	811.320	
2,000.00	1,995.62	853.98	848.00	6.99	3.20	123.92	-7,221.94	2,141.58	7,659.29	7,649.32	9.97	768.097	
2,100.00	2,093.06	898.00	890.75	7.39	3.42	123.56	-7,230.71	2,135.87	7,687.70	7,677.16	10.54	729.409	
2,200.00	2,189.64	898.00	890.75	7.82	3.42	123.01	-7,230.71	2,135.87	7,718.78	7,707.87	10.92	707.018	
2,300.00	2,285.27	931.90	923.57	8.28	3.60	122.52	-7,237.91	2,131.37	7,752.52	7,741.05	11.47	675.795	
2,400.00	2,379.82	952.45	943.42	8.77	3.71	121.93	-7,242.49	2,128.66	7,788.96	7,776.98	11.98	650.193	
2,500.00	2,473.17	986.00	975.76	9.31	3.88	121.34	-7,250.31	2,124.29	7,828.05	7,815.48	12.57	622.799	
2,600.00	2,565.21	986.00	975.76	9.88	3.88	120.55	-7,250.31	2,124.29	7,869.57	7,856.56	13.02	604.465	
2,660.67	2,620.37	1,008.17	997.08	10.25	4.01	120.14	-7,255.67	2,121.48	7,895.97	7,882.55	13.41	588.726	
2,700.00	2,655.96	1,017.73	1,006.28	10.50	4.06	120.18	-7,258.02	2,120.29	7,913.42	7,899.78	13.65	579.912	
2,800.00	2,746.43	1,036.00	1,023.83	11.15	4.16	120.26	-7,262.56	2,118.08	7,958.36	7,944.14	14.22	559.665	
2,900.00	2,836.90	1,036.00	1,023.83	11.82	4.16	120.26	-7,262.56	2,118.08	8,004.24	7,989.52	14.71	544.076	
3,000.00	2,927.37	1,088.16	1,073.93	12.50	4.45	120.49	-7,275.90	2,112.37	8,050.54	8,035.08	15.46	520.601	
3,100.00	3,017.85	1,143.00	1,126.55	13.21	4.76	120.71	-7,290.53	2,107.40	8,097.97	8,081.73	16.24	498.624	
3,200.00	3,108.32	1,143.00	1,126.55	13.92	4.76	120.71	-7,290.53	2,107.40	8,145.74	8,129.00	16.75	486.379	
3,300.00	3,198.79	1,178.95	1,161.01	14.64	4.96	120.86	-7,300.34	2,104.53	8,194.36	8,176.93	17.43	470.070	
3,400.00	3,289.27	1,240.33	1,219.84	15.38	5.31	121.10	-7,317.19	2,099.76	8,243.42	8,225.17	18.24	451.822	
3,500.00	3,379.74	1,411.57	1,384.16	16.12	6.29	121.78	-7,363.49	2,086.35	8,292.49	8,272.88	19.61	422.968	
3,600.00	3,470.21	1,520.97	1,489.36	16.87	6.92	122.20	-7,392.07	2,077.15	8,340.85	8,320.18	20.67	403.599	
3,700.00	3,560.68	1,568.41	1,534.92	17.62	7.19	122.39	-7,404.57	2,072.89	8,389.58	8,368.16	21.42	391.690	
3,800.00	3,651.16	1,625.68	1,589.84	18.39	7.53	122.62	-7,419.87	2,067.45	8,438.75	8,416.53	22.22	379.711	
3,900.00	3,741.63	1,697.36	1,658.48	19.15	7.96	122.90	-7,439.21	2,060.19	8,488.28	8,465.17	23.10	367.380	
4,000.00	3,832.10	1,783.08	1,740.54	19.92	8.47	123.24	-7,462.28	2,051.14	8,537.93	8,513.87	24.06	354.854	
4,100.00	3,922.57	1,856.27	1,810.58	20.69	8.91	123.52	-7,482.00	2,043.25	8,587.81	8,562.86	24.95	344.198	
4,200.00	4,013.05	1,946.13	1,896.63	21.47	9.45	123.87	-7,506.10	2,033.73	8,637.84	8,611.92	25.93	333.172	
4,300.00	4,103.52	1,989.90	1,938.54	22.25	9.72	124.04	-7,517.89	2,029.32	8,688.20	8,661.55	26.66	325.949	
4,400.00	4,193.99	2,213.47	2,153.46	23.03	11.03	124.86	-7,575.76	2,008.32	8,737.74	8,709.43	28.31	308.615	
4,500.00	4,284.47	4,500.00	2,256.27	23.81	24.80	125.27	-7,603.29	1,995.03	8,787.40	8,747.64	39.77	220.964	
4,600.00	4,374.94	2,411.25	2,343.13	24.60	12.21	125.61	-7,625.98	1,983.49	8,836.70	8,806.34	30.36	291.065	
4,700.00	4,465.41	2,453.00	2,383.19	25.39	12.46	125.77	-7,636.59	1,978.39	8,886.52	8,855.44	31.08	285.967	
4,800.00	4,555.88	4,800.00	2,535.26	26.18	26.10	126.34	-7,676.07	1,961.12	8,936.45	8,894.06	42.39	210.828	
4,900.00	4,646.36	2,669.31	2,591.36	26.97	13.73	126.54	-7,690.20	1,954.37	8,985.93	8,952.74	33.19	270.742	
5,000.00	4,736.83	2,714.00	2,634.25	27.76	14.00	126.71	-7,701.51	1,948.87	9,036.18	9,002.27	33.91	266.466	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,827.30	2,720.04	2,640.03	28.55	14.03	126.73	-7,703.07	1,948.12	9,086.90	9,052.48	34.42	263.985	
5,200.00	4,917.77	5,200.00	2,777.77	29.35	28.71	127.24	-7,739.47	1,931.35	9,137.75	9,091.34	46.41	196.909	
5,300.00	5,008.25	2,976.00	2,886.09	30.15	15.55	127.63	-7,767.06	1,918.56	9,188.05	9,151.32	36.73	250.125	
5,400.00	5,098.72	3,017.55	2,926.12	30.94	15.79	127.77	-7,777.25	1,914.02	9,238.77	9,201.35	37.42	246.882	
5,500.00	5,189.19	3,064.00	2,970.81	31.74	16.06	127.92	-7,789.02	1,909.42	9,290.18	9,252.05	38.13	243.628	
5,600.00	5,279.67	3,080.79	2,986.95	32.54	16.16	127.98	-7,793.34	1,907.85	9,342.02	9,303.34	38.68	241.515	
5,700.00	5,370.14	3,153.55	3,056.94	33.34	16.59	128.22	-7,812.09	1,901.07	9,394.23	9,354.71	39.52	237.697	
5,800.00	5,460.61	3,226.74	3,127.26	34.14	17.03	128.46	-7,831.00	1,893.78	9,446.63	9,406.26	40.37	234.029	
5,900.00	5,551.08	3,289.31	3,187.31	34.94	17.40	128.66	-7,847.24	1,887.06	9,499.24	9,458.09	41.15	230.841	
6,000.00	5,641.56	3,348.32	3,243.93	35.75	17.76	128.86	-7,862.65	1,880.75	9,552.13	9,510.22	41.91	227.900	
6,100.00	5,732.03	3,404.90	3,298.20	36.55	18.10	129.04	-7,877.51	1,874.90	9,605.32	9,562.66	42.66	225.158	
6,200.00	5,822.50	3,635.95	3,520.47	37.35	19.46	129.77	-7,936.40	1,852.37	9,657.98	9,613.65	44.34	217.832	
6,300.00	5,912.97	3,675.00	3,558.11	38.16	19.68	129.89	-7,946.17	1,848.77	9,710.52	9,665.54	44.98	215.877	
6,400.00	6,003.45	3,715.01	3,596.65	38.96	19.92	130.01	-7,956.33	1,845.17	9,763.48	9,717.86	45.63	213.981	
6,500.00	6,093.92	3,784.06	3,663.13	39.77	20.32	130.22	-7,973.98	1,839.18	9,816.77	9,770.35	46.43	211.454	
6,600.00	6,184.39	3,873.53	3,749.40	40.57	20.84	130.48	-7,996.60	1,832.12	9,869.99	9,822.67	47.33	208.548	
6,700.00	6,274.87	3,911.21	3,785.71	41.38	21.06	130.59	-8,006.23	1,829.08	9,923.57	9,875.62	47.95	206.953	
6,800.00	6,365.34	6,689.29	6,521.55	42.18	32.23	137.04	-8,338.79	1,689.17	9,958.27	9,898.28	59.99	165.998	
6,900.00	6,455.81	6,771.44	6,603.69	42.99	32.41	137.18	-8,337.69	1,689.83	9,989.60	9,928.82	60.78	164.370	
8,050.00	7,481.41	7,537.50	7,369.68	48.07	34.24	19.87	-8,334.86	1,698.43	9,993.46	9,925.48	67.98	147.008	
8,100.00	7,512.67	7,557.32	7,389.49	47.87	34.29	18.32	-8,335.13	1,698.78	9,955.81	9,887.72	68.09	146.224	
8,150.00	7,540.64	7,575.17	7,407.34	47.65	34.34	17.02	-8,335.40	1,699.10	9,915.48	9,847.30	68.17	145.443	
8,200.00	7,565.09	7,603.00	7,435.16	47.40	34.41	15.91	-8,335.85	1,699.64	9,872.77	9,804.48	68.29	144.582	
8,250.00	7,585.85	7,605.15	7,437.31	47.14	34.42	14.81	-8,335.89	1,699.68	9,827.96	9,759.66	68.30	143.893	
8,300.00	7,602.75	7,622.22	7,454.38	46.86	34.47	13.71	-8,336.18	1,700.02	9,781.41	9,713.05	68.36	143.088	
8,350.00	7,615.67	7,635.48	7,467.63	46.58	34.50	12.31	-8,336.41	1,700.28	9,733.46	9,665.06	68.40	142.302	
8,400.00	7,624.51	7,644.83	7,476.97	46.28	34.53	9.84	-8,336.57	1,700.47	9,684.46	9,616.04	68.42	141.537	
8,450.00	7,629.19	7,650.18	7,482.32	45.98	34.54	1.82	-8,336.67	1,700.58	9,634.79	9,566.36	68.43	140.795	
8,481.00	7,630.00	7,651.47	7,483.61	45.79	34.55	-36.05	-8,336.69	1,700.61	9,603.82	9,535.39	68.43	140.346	
8,500.00	7,630.00	7,651.78	7,483.93	45.68	34.55	-36.10	-8,336.69	1,700.61	9,584.83	9,516.40	68.43	140.075	
8,600.00	7,630.00	7,653.44	7,485.59	45.11	34.55	-36.38	-8,336.72	1,700.65	9,484.85	9,416.44	68.41	138.647	
8,700.00	7,630.00	7,655.11	7,487.25	44.56	34.56	-36.67	-8,336.75	1,700.68	9,384.88	9,316.48	68.39	137.217	
8,800.00	7,630.00	7,656.77	7,488.91	44.05	34.56	-36.95	-8,336.78	1,700.71	9,284.90	9,216.52	68.38	135.786	
8,900.00	7,630.00	7,658.43	7,490.57	43.57	34.57	-37.24	-8,336.81	1,700.75	9,184.92	9,116.56	68.36	134.353	
9,000.00	7,630.00	7,660.10	7,492.24	43.12	34.57	-37.54	-8,336.84	1,700.78	9,084.95	9,016.60	68.35	132.918	
9,100.00	7,630.00	7,661.76	7,493.90	42.70	34.57	-37.83	-8,336.87	1,700.81	8,984.97	8,916.64	68.34	131.483	
9,200.00	7,630.00	7,663.43	7,495.57	42.31	34.58	-38.14	-8,336.90	1,700.85	8,885.00	8,816.68	68.32	130.045	
9,300.00	7,630.00	7,665.10	7,497.24	41.94	34.58	-38.44	-8,336.92	1,700.88	8,785.02	8,716.71	68.31	128.607	
9,400.00	7,630.00	7,666.77	7,498.91	41.59	34.59	-38.75	-8,336.95	1,700.92	8,685.05	8,616.75	68.30	127.167	
9,500.00	7,630.00	7,668.44	7,500.58	41.26	34.59	-39.07	-8,336.98	1,700.95	8,585.07	8,516.79	68.28	125.725	
9,600.00	7,630.00	7,670.12	7,502.25	40.96	34.60	-39.39	-8,337.01	1,700.98	8,485.10	8,416.83	68.27	124.283	
9,700.00	7,630.00	7,671.79	7,503.93	40.68	34.60	-39.71	-8,337.04	1,701.02	8,385.13	8,316.87	68.26	122.839	
9,800.00	7,630.00	7,673.47	7,505.60	40.42	34.61	-40.04	-8,337.07	1,701.05	8,285.15	8,216.90	68.25	121.394	
9,900.00	7,630.00	7,675.14	7,507.28	40.17	34.61	-40.38	-8,337.10	1,701.09	8,185.18	8,116.94	68.24	119.948	
10,000.00	7,630.00	7,676.82	7,508.96	39.96	34.62	-40.71	-8,337.13	1,701.12	8,085.21	8,016.98	68.23	118.501	
10,100.00	7,630.00	7,678.50	7,510.64	40.05	34.62	-41.06	-8,337.16	1,701.16	7,985.23	7,917.02	68.22	117.052	
10,200.00	7,630.00	7,680.18	7,512.32	40.95	34.63	-41.40	-8,337.19	1,701.19	7,885.26	7,817.05	68.21	115.603	
10,300.00	7,630.00	7,681.87	7,514.00	41.94	34.63	-41.76	-8,337.22	1,701.23	7,785.29	7,717.09	68.20	114.153	
10,400.00	7,630.00	7,683.55	7,515.68	42.98	34.63	-42.11	-8,337.25	1,701.26	7,685.32	7,617.13	68.19	112.702	
10,500.00	7,630.00	7,685.24	7,517.37	44.06	34.64	-42.48	-8,337.28	1,701.29	7,585.35	7,517.16	68.18	111.249	
10,600.00	7,630.00	7,686.92	7,519.05	45.17	34.64	-42.84	-8,337.31	1,701.33	7,485.38	7,417.20	68.18	109.796	
10,700.00	7,630.00	7,688.61	7,520.74	46.32	34.65	-43.22	-8,337.33	1,701.36	7,385.41	7,317.24	68.17	108.342	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
10,800.00	7,630.00	7,690.30	7,522.43	47.50	34.65	-43.60	-8,337.36	1,701.40	7,285.44	7,217.28	68.16	106.888	
10,900.00	7,630.00	7,691.99	7,524.12	48.70	34.66	-43.98	-8,337.39	1,701.43	7,185.47	7,117.31	68.15	105.432	
11,000.00	7,630.00	7,693.68	7,525.81	49.94	34.66	-44.37	-8,337.42	1,701.47	7,085.50	7,017.35	68.15	103.976	
11,100.00	7,630.00	7,695.38	7,527.50	51.20	34.67	-44.76	-8,337.45	1,701.50	6,985.53	6,917.39	68.14	102.520	
11,200.00	7,630.00	7,697.07	7,529.20	52.48	34.67	-45.17	-8,337.48	1,701.54	6,885.56	6,817.43	68.13	101.062	
11,300.00	7,630.00	7,698.77	7,530.89	53.79	34.68	-45.57	-8,337.51	1,701.57	6,785.59	6,717.47	68.13	99.604	
11,400.00	7,630.00	7,700.47	7,532.59	55.12	34.68	-45.98	-8,337.54	1,701.61	6,685.63	6,617.51	68.12	98.146	
11,500.00	7,630.00	7,702.16	7,534.29	56.46	34.69	-46.40	-8,337.57	1,701.64	6,585.66	6,517.55	68.11	96.687	
11,600.00	7,630.00	7,703.86	7,535.99	57.83	34.69	-46.83	-8,337.60	1,701.68	6,485.69	6,417.59	68.11	95.227	
11,700.00	7,630.00	7,705.57	7,537.69	59.22	34.70	-47.26	-8,337.63	1,701.71	6,385.73	6,317.63	68.10	93.767	
11,800.00	7,630.00	7,707.27	7,539.39	60.62	34.70	-47.69	-8,337.66	1,701.75	6,285.76	6,217.67	68.10	92.307	
11,900.00	7,630.00	7,708.97	7,541.10	62.04	34.70	-48.14	-8,337.69	1,701.79	6,185.80	6,117.71	68.09	90.846	
12,000.00	7,630.00	7,710.68	7,542.80	63.48	34.71	-48.58	-8,337.72	1,701.82	6,085.83	6,017.75	68.09	89.385	
12,100.00	7,630.00	7,712.39	7,544.51	64.93	34.71	-49.04	-8,337.75	1,701.86	5,985.87	5,917.79	68.08	87.924	
12,200.00	7,630.00	7,714.10	7,546.22	66.39	34.72	-49.50	-8,337.78	1,701.89	5,885.91	5,817.83	68.07	86.462	
12,300.00	7,630.00	7,715.81	7,547.93	67.86	34.72	-49.97	-8,337.81	1,701.93	5,785.95	5,717.88	68.07	85.001	
12,400.00	7,630.00	7,717.52	7,549.64	69.35	34.73	-50.45	-8,337.84	1,701.96	5,685.99	5,617.92	68.06	83.539	
12,500.00	7,630.00	7,719.23	7,551.35	70.85	34.73	-50.93	-8,337.87	1,702.00	5,586.03	5,517.97	68.06	82.077	
12,600.00	7,630.00	7,720.94	7,553.06	72.36	34.74	-51.42	-8,337.90	1,702.04	5,486.07	5,418.02	68.05	80.615	
12,700.00	7,630.00	7,722.66	7,554.78	73.88	34.74	-51.91	-8,337.93	1,702.07	5,386.11	5,318.06	68.05	79.153	
12,800.00	7,630.00	7,724.38	7,556.49	75.41	34.75	-52.41	-8,337.96	1,702.11	5,286.16	5,218.11	68.04	77.691	
12,900.00	7,630.00	7,726.10	7,558.21	76.95	34.75	-52.92	-8,337.99	1,702.14	5,186.20	5,118.16	68.03	76.229	
13,000.00	7,630.00	7,727.82	7,559.93	78.49	34.76	-53.44	-8,338.02	1,702.18	5,086.25	5,018.22	68.03	74.767	
13,100.00	7,630.00	7,729.54	7,561.65	80.05	34.76	-53.96	-8,338.05	1,702.22	4,986.29	4,918.27	68.02	73.305	
13,200.00	7,630.00	7,731.26	7,563.37	81.61	34.77	-54.49	-8,338.08	1,702.25	4,886.34	4,818.33	68.01	71.843	
13,300.00	7,630.00	7,732.98	7,565.10	83.18	34.77	-55.03	-8,338.12	1,702.29	4,786.39	4,718.38	68.01	70.381	
13,400.00	7,630.00	7,734.71	7,566.82	84.76	34.78	-55.58	-8,338.15	1,702.32	4,686.44	4,618.44	68.00	68.920	
13,500.00	7,630.00	7,736.44	7,568.55	86.34	34.78	-56.13	-8,338.18	1,702.36	4,586.49	4,518.50	67.99	67.459	
13,600.00	7,630.00	7,738.16	7,570.27	87.94	34.78	-56.69	-8,338.21	1,702.40	4,486.55	4,418.57	67.98	65.998	
13,700.00	7,630.00	7,739.89	7,572.00	89.53	34.79	-57.26	-8,338.24	1,702.43	4,386.60	4,318.63	67.97	64.537	
13,800.00	7,630.00	7,741.62	7,573.73	91.13	34.79	-57.83	-8,338.27	1,702.47	4,286.66	4,218.70	67.96	63.077	
13,900.00	7,630.00	7,743.36	7,575.47	92.74	34.80	-58.42	-8,338.30	1,702.51	4,186.72	4,118.77	67.95	61.617	
14,000.00	7,630.00	7,745.09	7,577.20	94.35	34.80	-59.01	-8,338.33	1,702.54	4,086.78	4,018.85	67.93	60.157	
14,100.00	7,630.00	7,746.83	7,578.93	95.97	34.81	-59.60	-8,338.36	1,702.58	3,986.85	3,918.93	67.92	58.698	
14,200.00	7,630.00	7,748.56	7,580.67	97.60	34.81	-60.21	-8,338.39	1,702.62	3,886.91	3,819.01	67.91	57.239	
14,300.00	7,630.00	7,750.30	7,582.41	99.22	34.82	-60.82	-8,338.42	1,702.65	3,786.98	3,719.09	67.89	55.781	
14,400.00	7,630.00	7,752.04	7,584.15	100.85	34.82	-61.44	-8,338.45	1,702.69	3,687.06	3,619.18	67.87	54.323	
14,500.00	7,630.00	7,753.78	7,585.89	102.49	34.83	-62.07	-8,338.48	1,702.73	3,587.13	3,519.28	67.85	52.866	
14,600.00	7,630.00	7,755.52	7,587.63	104.13	34.83	-62.70	-8,338.52	1,702.76	3,487.21	3,419.38	67.83	51.409	
14,700.00	7,630.00	7,757.27	7,589.37	105.77	34.84	-63.35	-8,338.55	1,702.80	3,387.29	3,319.48	67.81	49.953	
14,800.00	7,630.00	7,759.01	7,591.12	107.42	34.84	-64.00	-8,338.58	1,702.84	3,287.38	3,219.60	67.79	48.497	
14,900.00	7,630.00	7,760.76	7,592.86	109.07	34.85	-64.65	-8,338.61	1,702.88	3,187.47	3,119.71	67.76	47.042	
15,000.00	7,630.00	7,762.51	7,594.61	110.72	34.85	-65.32	-8,338.64	1,702.91	3,087.57	3,019.84	67.73	45.587	
15,100.00	7,630.00	7,764.26	7,596.36	112.38	34.86	-65.99	-8,338.67	1,702.95	2,987.67	2,919.97	67.70	44.133	
15,200.00	7,630.00	7,766.01	7,598.11	114.04	34.86	-66.67	-8,338.70	1,702.99	2,887.78	2,820.12	67.66	42.679	
15,300.00	7,630.00	7,767.76	7,599.86	115.71	34.87	-67.36	-8,338.73	1,703.02	2,787.89	2,720.27	67.63	41.226	
15,400.00	7,630.00	7,769.51	7,601.61	117.37	34.87	-68.05	-8,338.76	1,703.06	2,688.02	2,620.43	67.58	39.773	
15,500.00	7,630.00	7,771.27	7,603.37	119.04	34.88	-68.75	-8,338.80	1,703.10	2,588.15	2,520.61	67.54	38.320	
15,600.00	7,630.00	7,773.03	7,605.12	120.71	34.88	-69.46	-8,338.83	1,703.14	2,488.29	2,420.79	67.49	36.868	
15,700.00	7,630.00	7,774.78	7,606.88	122.39	34.89	-70.18	-8,338.86	1,703.17	2,388.43	2,320.99	67.44	35.416	
15,800.00	7,630.00	7,776.54	7,608.64	124.06	34.89	-70.90	-8,338.89	1,703.21	2,288.60	2,221.21	67.38	33.964	
15,900.00	7,630.00	7,778.42	7,610.51	125.74	34.90	-71.67	-8,338.92	1,703.25	2,188.77	2,121.45	67.32	32.511	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,000.00	7,630.00	7,780.78	7,612.88	127.42	34.90	-72.66	-8,338.96	1,703.30	2,088.96	2,021.69	67.27	31.055	
16,100.00	7,630.00	7,783.08	7,615.17	129.10	34.91	-73.62	-8,339.00	1,703.35	1,989.17	1,921.96	67.20	29.599	
16,200.00	7,630.00	7,785.30	7,617.39	130.79	34.91	-74.57	-8,339.04	1,703.40	1,889.39	1,822.26	67.14	28.142	
16,300.00	7,630.00	7,787.46	7,619.55	132.48	34.92	-75.49	-8,339.08	1,703.44	1,789.64	1,722.58	67.07	26.685	
16,400.00	7,630.00	7,789.55	7,621.64	134.17	34.92	-76.40	-8,339.11	1,703.49	1,689.92	1,622.93	66.99	25.226	
16,500.00	7,630.00	7,791.58	7,623.68	135.86	34.93	-77.28	-8,339.15	1,703.53	1,590.23	1,523.31	66.92	23.765	
16,600.00	7,630.00	7,793.56	7,625.65	137.55	34.94	-78.15	-8,339.18	1,703.57	1,490.58	1,423.74	66.84	22.301	
16,700.00	7,630.00	7,795.48	7,627.57	139.24	34.94	-78.99	-8,339.21	1,703.61	1,390.97	1,324.21	66.77	20.833	
16,800.00	7,630.00	7,797.35	7,629.44	140.94	34.95	-79.82	-8,339.24	1,703.65	1,291.43	1,224.72	66.71	19.359	
16,900.00	7,630.00	7,799.16	7,631.25	142.64	34.95	-80.62	-8,339.27	1,703.69	1,191.96	1,125.28	66.67	17.877	
17,000.00	7,630.00	7,800.93	7,633.02	144.34	34.95	-81.41	-8,339.29	1,703.72	1,092.58	1,025.90	66.68	16.385	
17,100.00	7,630.00	7,802.65	7,634.74	146.04	34.96	-82.18	-8,339.32	1,703.76	993.33	926.56	66.77	14.878	
17,200.00	7,630.00	7,804.32	7,636.41	147.74	34.96	-82.93	-8,339.35	1,703.79	894.24	827.26	66.98	13.350	
17,300.00	7,630.00	7,805.95	7,638.04	149.44	34.97	-83.67	-8,339.37	1,703.83	795.37	727.94	67.43	11.795	
17,400.00	7,630.00	7,807.54	7,639.63	151.15	34.97	-84.38	-8,339.39	1,703.86	696.83	628.53	68.30	10.203	
17,500.00	7,630.00	7,809.09	7,641.18	152.86	34.98	-85.09	-8,339.41	1,703.89	598.76	528.84	69.92	8.564	
17,600.00	7,630.00	7,810.60	7,642.69	154.56	34.98	-85.77	-8,339.44	1,703.92	501.45	428.47	72.98	6.871	
17,700.00	7,630.00	7,812.08	7,644.16	156.27	34.98	-86.44	-8,339.46	1,703.95	405.45	326.60	78.85	5.142	
17,800.00	7,630.00	7,813.51	7,645.60	157.98	34.99	-87.09	-8,339.48	1,703.98	311.97	221.52	90.45	3.449	
17,900.00	7,630.00	7,814.91	7,647.00	159.70	34.99	-87.73	-8,339.50	1,704.01	224.18	110.10	114.08	1.965	
18,000.00	7,630.00	7,816.28	7,648.37	161.41	35.00	-88.35	-8,339.51	1,704.03	152.26	-7.37	159.63	0.954	Level 1
18,085.40	7,630.00	7,817.43	7,649.51	162.87	35.00	-88.87	-8,339.53	1,704.06	126.06	-70.05	196.11	0.643	Level 1, CC, ES, SF
18,100.00	7,630.00	7,817.62	7,649.70	163.12	35.00	-88.96	-8,339.53	1,704.06	126.90	-69.88	196.78	0.645	Level 1
18,154.00	7,630.00	7,818.33	7,650.41	164.05	35.00	-89.28	-8,339.54	1,704.07	143.52	-40.29	183.81	0.781	Level 1

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 134-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	20.18	20.18	0.00	0.03	162.87	-7,111.54	2,191.94	7,441.68				
100.00	100.00	111.92	111.92	0.13	0.18	162.87	-7,111.52	2,192.25	7,441.76	7,441.44	0.32	N/A	
200.00	200.00	182.95	182.93	0.49	0.40	162.86	-7,111.36	2,193.43	7,442.05	7,441.17	0.89	8,391.090	
300.00	300.00	226.00	225.93	0.85	0.56	162.84	-7,111.04	2,195.49	7,442.87	7,441.46	1.40	5,310.880	
400.00	400.00	262.85	262.69	1.21	0.70	162.82	-7,110.82	2,198.06	7,444.50	7,442.60	1.90	3,920.566	
500.00	500.00	318.00	317.60	1.57	0.91	162.79	-7,111.01	2,203.21	7,447.31	7,444.85	2.46	3,022.049	
600.00	600.00	318.00	317.60	1.93	0.91	162.79	-7,111.01	2,203.21	7,450.72	7,447.90	2.82	2,638.886	
700.00	700.00	385.10	384.28	2.29	1.16	162.73	-7,111.70	2,210.68	7,455.03	7,451.59	3.44	2,165.251	
800.00	800.00	923.96	911.80	2.64	3.70	161.92	-7,086.96	2,313.21	7,455.47	7,449.14	6.33	1,177.680	
900.00	900.00	978.73	964.50	3.00	4.01	161.81	-7,081.83	2,327.19	7,454.52	7,447.53	7.00	1,065.187	
960.78	960.78	1,006.04	990.75	3.22	4.16	161.75	-7,079.38	2,334.34	7,454.32	7,446.95	7.37	1,011.149	
1,000.00	1,000.00	1,027.00	1,010.88	3.36	4.28	161.71	-7,077.56	2,339.90	7,454.34	7,446.70	7.63	976.667	
1,100.00	1,100.00	1,097.96	1,079.08	3.72	4.69	161.56	-7,071.65	2,358.59	7,454.73	7,446.33	8.40	887.477	
1,200.00	1,200.00	1,190.49	1,168.27	4.08	5.22	161.37	-7,064.40	2,382.12	7,455.41	7,446.13	9.29	802.906	
1,300.00	1,300.00	1,253.33	1,228.82	4.44	5.59	161.24	-7,059.55	2,398.20	7,456.36	7,446.35	10.01	744.821	
1,400.00	1,400.00	1,338.30	1,310.04	4.79	6.10	161.05	-7,052.69	2,422.19	7,457.88	7,447.00	10.88	685.537	
1,500.00	1,499.98	1,443.13	1,410.52	5.15	6.73	122.98	-7,044.25	2,450.86	7,460.21	7,448.34	11.87	628.607	
1,600.00	1,599.84	1,501.24	1,466.29	5.51	7.08	122.80	-7,039.78	2,466.57	7,464.80	7,452.23	12.57	593.791	
1,700.00	1,699.45	1,557.00	1,519.79	5.87	7.42	122.59	-7,035.87	2,481.79	7,471.97	7,458.71	13.26	563.373	
1,800.00	1,798.70	1,673.13	1,631.11	6.23	8.13	122.27	-7,027.76	2,513.85	7,481.26	7,466.93	14.33	522.070	
1,900.00	1,897.47	1,787.74	1,740.74	6.60	8.83	121.94	-7,019.14	2,546.13	7,492.12	7,476.71	15.40	486.364	
2,000.00	1,995.62	1,926.76	1,874.05	6.99	9.68	121.59	-7,008.53	2,584.12	7,504.44	7,487.81	16.63	451.261	
2,100.00	2,093.06	2,031.50	1,974.63	7.39	10.31	121.28	-7,000.47	2,612.19	7,518.37	7,500.72	17.65	425.884	
2,200.00	2,189.64	2,136.12	2,075.15	7.82	10.94	120.97	-6,992.26	2,640.01	7,533.88	7,515.19	18.69	403.035	
2,300.00	2,285.27	2,198.48	2,135.08	8.28	11.32	120.65	-6,987.50	2,656.57	7,551.38	7,531.88	19.50	387.263	
2,400.00	2,379.82	2,255.00	2,189.34	8.77	11.66	120.30	-6,983.50	2,671.89	7,571.25	7,550.95	20.30	373.049	
2,500.00	2,473.17	2,500.00	2,350.83	9.31	13.19	119.95	-6,970.26	2,719.37	7,592.50	7,570.19	22.31	340.310	
2,600.00	2,565.21	2,470.98	2,396.04	9.88	13.00	119.56	-6,966.58	2,732.16	7,615.29	7,592.65	22.64	336.325	
2,660.67	2,620.37	2,490.19	2,414.44	10.25	13.12	119.30	-6,965.20	2,737.50	7,630.35	7,607.27	23.09	330.497	
2,700.00	2,655.96	2,517.00	2,440.09	10.50	13.29	119.32	-6,963.40	2,745.10	7,640.52	7,617.05	23.47	325.539	
2,800.00	2,746.43	2,542.62	2,464.59	11.15	13.44	119.34	-6,961.79	2,752.43	7,666.77	7,642.58	24.19	316.949	
2,900.00	2,836.90	2,604.00	2,523.36	11.82	13.83	119.38	-6,958.40	2,769.81	7,693.72	7,668.57	25.15	305.920	
3,000.00	2,927.37	2,666.09	2,582.73	12.50	14.22	119.42	-6,955.15	2,787.70	7,721.12	7,694.98	26.13	295.465	
3,100.00	3,017.85	2,797.07	2,707.90	13.21	15.04	119.51	-6,948.06	2,825.58	7,748.47	7,720.90	27.57	281.030	
3,200.00	3,108.32	2,897.63	2,804.19	13.92	15.67	119.58	-6,942.33	2,854.01	7,775.34	7,746.53	28.82	269.814	
3,300.00	3,198.79	2,953.00	2,857.17	14.64	16.01	119.62	-6,939.36	2,869.83	7,802.62	7,772.84	29.78	261.989	
3,400.00	3,289.27	3,175.33	3,069.69	15.38	17.42	119.76	-6,925.48	2,933.62	7,828.88	7,797.03	31.86	245.759	
3,500.00	3,379.74	3,266.03	3,156.29	16.12	17.99	119.81	-6,919.41	2,959.87	7,855.09	7,822.02	33.07	237.500	
3,600.00	3,470.21	3,525.91	3,407.85	16.87	19.45	120.06	-6,903.40	3,022.82	7,880.51	7,845.27	35.23	223.665	
3,700.00	3,560.68	3,655.85	3,535.30	17.62	20.08	120.23	-6,896.03	3,046.95	7,904.35	7,867.82	36.53	216.372	
3,800.00	3,651.16	3,759.76	3,637.87	18.39	20.53	120.40	-6,891.11	3,062.83	7,928.06	7,890.42	37.64	210.608	
3,900.00	3,741.63	3,900.00	3,778.34	19.15	21.08	120.66	-6,885.25	3,079.94	7,951.33	7,912.47	38.87	204.578	
4,000.00	3,832.10	4,022.10	3,898.42	19.92	21.51	120.90	-6,880.77	3,091.30	7,974.26	7,934.29	39.97	199.500	
4,100.00	3,922.57	4,125.50	4,001.46	20.69	21.85	121.12	-6,877.38	3,099.09	7,997.12	7,956.13	40.98	195.133	
4,200.00	4,013.05	4,226.84	4,102.56	21.47	22.17	121.34	-6,874.49	3,105.45	8,020.09	7,978.11	41.97	191.075	
4,300.00	4,103.52	4,338.88	4,214.40	22.25	22.51	121.59	-6,871.30	3,111.51	8,042.91	7,999.92	42.99	187.090	
4,400.00	4,193.99	4,462.05	4,337.37	23.03	22.89	121.87	-6,867.67	3,117.48	8,065.59	8,021.56	44.04	183.159	
4,500.00	4,284.47	4,583.16	4,458.30	23.81	23.25	122.15	-6,863.77	3,122.87	8,088.04	8,042.97	45.07	179.441	
4,600.00	4,374.94	4,684.99	4,559.99	24.60	23.55	122.38	-6,860.40	3,126.86	8,110.37	8,064.32	46.05	176.139	
4,700.00	4,465.41	4,780.58	4,655.48	25.39	23.83	122.60	-6,857.31	3,130.19	8,132.77	8,085.77	46.99	173.057	
4,800.00	4,555.88	4,983.59	4,858.24	26.18	24.42	123.07	-6,849.56	3,136.41	8,154.68	8,106.41	48.27	168.939	
4,900.00	4,646.36	5,072.86	4,947.40	26.97	24.68	123.28	-6,845.76	3,138.62	8,176.13	8,126.94	49.19	166.208	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,736.83	5,136.00	5,010.47	27.76	24.86	123.42	-6,843.11	3,139.87	8,197.69	8,147.65	50.04	163.838	
5,100.00	4,827.30	5,194.09	5,068.51	28.55	25.02	123.56	-6,840.94	3,140.87	8,219.73	8,168.88	50.86	161.629	
5,200.00	4,917.77	5,236.16	5,110.55	29.35	25.14	123.66	-6,839.70	3,141.56	8,242.49	8,190.87	51.62	159.661	
5,300.00	5,008.25	5,310.00	5,184.37	30.15	25.35	123.84	-6,838.18	3,142.69	8,266.07	8,213.59	52.49	157.491	
5,400.00	5,098.72	5,310.00	5,184.37	30.94	25.35	123.84	-6,838.18	3,142.69	8,290.07	8,236.95	53.12	156.066	
5,500.00	5,189.19	5,362.66	5,237.03	31.74	25.49	123.96	-6,837.60	3,143.49	8,314.85	8,260.94	53.90	154.254	
5,600.00	5,279.67	5,405.19	5,279.54	32.54	25.61	124.07	-6,837.40	3,144.15	8,340.30	8,285.64	54.65	152.603	
5,700.00	5,370.14	5,485.00	5,359.35	33.34	25.82	124.26	-6,837.72	3,145.45	8,366.58	8,311.07	55.52	150.708	
5,800.00	5,460.61	5,495.50	5,369.84	34.14	25.85	124.28	-6,837.82	3,145.62	8,393.16	8,337.00	56.16	149.463	
5,900.00	5,551.08	5,589.28	5,463.61	34.94	26.10	124.51	-6,838.75	3,146.94	8,420.22	8,363.18	57.05	147.604	
6,000.00	5,641.56	5,915.48	5,789.78	35.75	26.98	125.30	-6,837.40	3,149.34	8,445.76	8,387.11	58.65	143.999	
6,100.00	5,732.03	5,993.96	5,868.25	36.55	27.19	125.48	-6,836.15	3,149.75	8,470.60	8,411.09	59.51	142.345	
6,200.00	5,822.50	6,086.00	5,960.28	37.35	27.45	125.70	-6,834.77	3,150.18	8,495.65	8,435.24	60.40	140.646	
6,300.00	5,912.97	6,181.24	6,055.50	38.16	27.72	125.92	-6,833.32	3,150.53	8,520.78	8,459.47	61.31	138.981	
6,400.00	6,003.45	6,296.72	6,170.96	38.96	28.04	126.19	-6,831.40	3,150.80	8,545.88	8,483.61	62.28	137.228	
6,500.00	6,093.92	6,408.86	6,283.09	39.77	28.35	126.46	-6,829.27	3,150.88	8,570.86	8,507.63	63.23	135.551	
6,600.00	6,184.39	6,516.91	6,391.11	40.57	28.66	126.71	-6,826.97	3,150.98	8,595.77	8,531.60	64.17	133.951	
6,700.00	6,274.87	6,627.98	6,502.15	41.38	28.98	126.96	-6,824.33	3,151.22	8,620.61	8,555.49	65.13	132.367	
6,800.00	6,365.34	6,739.93	6,614.06	42.18	29.30	127.22	-6,821.33	3,151.77	8,645.36	8,579.28	66.08	130.823	
6,900.00	6,455.81	6,808.82	6,682.93	42.99	29.51	127.37	-6,819.56	3,152.11	8,670.30	8,603.39	66.91	129.586	
7,000.00	6,546.28	6,882.00	6,756.08	43.80	29.72	127.53	-6,817.76	3,152.48	8,695.48	8,627.74	67.74	128.365	
7,100.00	6,636.76	6,956.59	6,830.66	44.61	29.94	127.70	-6,816.08	3,152.82	8,720.96	8,652.39	68.58	127.173	
7,200.00	6,727.23	7,026.21	6,900.26	45.41	30.15	127.86	-6,814.71	3,153.08	8,746.78	8,677.39	69.39	126.051	
7,300.00	6,817.70	7,099.95	6,973.99	46.22	30.36	128.02	-6,813.44	3,153.33	8,772.94	8,702.72	70.22	124.937	
7,383.79	6,893.51	7,164.40	7,038.43	46.90	30.56	128.16	-6,812.42	3,153.63	8,795.06	8,724.14	70.92	124.014	
7,400.00	6,908.25	7,176.93	7,050.96	47.03	30.59	125.92	-6,812.23	3,153.69	8,799.14	8,728.09	71.05	123.836	
7,450.00	6,954.52	7,216.22	7,090.24	47.40	30.71	117.23	-6,811.65	3,153.93	8,809.01	8,737.55	71.47	123.261	
7,500.00	7,001.74	7,257.33	7,131.35	47.72	30.83	105.28	-6,811.07	3,154.20	8,814.72	8,742.85	71.87	122.646	
7,550.00	7,049.55	7,299.51	7,173.53	47.99	30.96	89.92	-6,810.51	3,154.46	8,816.22	8,743.95	72.26	122.001	
7,600.00	7,097.58	7,341.83	7,215.84	48.21	31.09	72.71	-6,809.97	3,154.71	8,813.48	8,740.85	72.63	121.343	
7,650.00	7,145.48	7,383.98	7,257.98	48.37	31.21	56.54	-6,809.47	3,154.94	8,806.53	8,733.55	72.97	120.679	
7,700.00	7,192.88	7,430.43	7,304.43	48.48	31.35	43.42	-6,808.95	3,155.19	8,795.40	8,722.10	73.31	119.982	
7,750.00	7,239.41	7,481.28	7,355.28	48.54	31.51	33.52	-6,808.35	3,155.49	8,780.15	8,706.52	73.63	119.252	
7,800.00	7,284.72	7,530.74	7,404.73	48.56	31.66	26.12	-6,807.73	3,155.83	8,760.87	8,686.95	73.92	118.521	
7,850.00	7,328.47	7,578.42	7,452.41	48.54	31.80	20.46	-6,807.11	3,156.20	8,737.70	8,663.52	74.18	117.790	
7,900.00	7,370.32	7,616.49	7,490.47	48.47	31.92	15.95	-6,806.60	3,156.50	8,710.85	8,636.46	74.39	117.101	
7,950.00	7,409.96	7,652.25	7,526.23	48.37	32.03	12.17	-6,806.15	3,156.80	8,680.53	8,605.97	74.57	116.415	
8,000.00	7,447.08	7,685.71	7,559.68	48.24	32.13	8.82	-6,805.73	3,157.07	8,646.97	8,572.26	74.72	115.732	
8,050.00	7,481.41	7,716.60	7,590.57	48.07	32.22	5.64	-6,805.36	3,157.32	8,610.42	8,535.58	74.84	115.055	
8,100.00	7,512.67	7,744.69	7,618.66	47.87	32.31	2.40	-6,805.03	3,157.55	8,571.14	8,496.21	74.93	114.385	
8,150.00	7,540.64	7,770.02	7,643.99	47.65	32.39	-1.17	-6,804.75	3,157.75	8,529.45	8,454.45	75.00	113.723	
8,200.00	7,565.09	7,792.27	7,666.23	47.40	32.46	-5.46	-6,804.50	3,157.95	8,485.64	8,410.59	75.05	113.070	
8,250.00	7,585.85	7,811.07	7,685.04	47.14	32.52	-11.07	-6,804.29	3,158.12	8,440.06	8,364.99	75.07	112.431	
8,300.00	7,602.75	7,826.29	7,700.25	46.86	32.56	-19.03	-6,804.12	3,158.26	8,393.04	8,317.97	75.07	111.807	
8,350.00	7,615.67	7,837.81	7,711.77	46.58	32.60	-31.25	-6,803.99	3,158.37	8,344.95	8,269.90	75.04	111.200	
8,400.00	7,624.51	7,845.53	7,719.49	46.28	32.62	-50.42	-6,803.91	3,158.45	8,296.15	8,221.15	75.00	110.612	
8,450.00	7,629.19	7,849.38	7,723.34	45.98	32.63	-76.47	-6,803.87	3,158.49	8,247.02	8,172.08	74.94	110.045	
8,481.00	7,630.00	7,849.82	7,723.78	45.79	32.64	-92.61	-6,803.86	3,158.49	8,216.56	8,141.66	74.90	109.705	
8,500.00	7,630.00	7,849.63	7,723.59	45.68	32.64	-92.60	-6,803.87	3,158.49	8,197.91	8,123.05	74.87	109.499	
8,600.00	7,630.00	7,848.62	7,722.58	45.11	32.63	-92.57	-6,803.88	3,158.48	8,099.80	8,025.09	74.71	108.414	
8,700.00	7,630.00	7,847.61	7,721.57	44.56	32.63	-92.53	-6,803.89	3,158.47	8,001.74	7,927.19	74.55	107.327	
8,800.00	7,630.00	7,846.60	7,720.56	44.05	32.63	-92.49	-6,803.90	3,158.46	7,903.73	7,829.33	74.40	106.237	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
8,900.00	7,630.00	7,845.59	7,719.55	43.57	32.62	-92.46	-6,803.91	3,158.45	7,805.76	7,731.52	74.24	105.145	
9,000.00	7,630.00	7,844.58	7,718.53	43.12	32.62	-92.42	-6,803.92	3,158.44	7,707.85	7,633.77	74.08	104.050	
9,100.00	7,630.00	7,843.56	7,717.52	42.70	32.62	-92.38	-6,803.93	3,158.43	7,609.99	7,536.07	73.92	102.952	
9,200.00	7,630.00	7,842.55	7,716.51	42.31	32.61	-92.34	-6,803.94	3,158.42	7,512.19	7,438.43	73.76	101.852	
9,300.00	7,630.00	7,841.53	7,715.49	41.94	32.61	-92.31	-6,803.95	3,158.41	7,414.44	7,340.85	73.59	100.748	
9,400.00	7,630.00	7,840.51	7,714.47	41.59	32.61	-92.27	-6,803.97	3,158.40	7,316.76	7,243.33	73.43	99.641	
9,500.00	7,630.00	7,839.50	7,713.45	41.26	32.60	-92.23	-6,803.98	3,158.39	7,219.14	7,145.87	73.27	98.530	
9,600.00	7,630.00	7,838.48	7,712.43	40.96	32.60	-92.20	-6,803.99	3,158.38	7,121.59	7,048.48	73.10	97.416	
9,700.00	7,630.00	7,837.46	7,711.41	40.68	32.60	-92.16	-6,804.00	3,158.37	7,024.10	6,951.16	72.94	96.298	
9,800.00	7,630.00	7,836.43	7,710.39	40.42	32.59	-92.12	-6,804.01	3,158.36	6,926.69	6,853.91	72.78	95.176	
9,900.00	7,630.00	7,835.41	7,709.37	40.17	32.59	-92.09	-6,804.02	3,158.35	6,829.35	6,756.74	72.61	94.050	
10,000.00	7,630.00	7,834.39	7,708.35	39.96	32.59	-92.05	-6,804.03	3,158.34	6,732.09	6,659.64	72.45	92.919	
10,100.00	7,630.00	7,833.36	7,707.32	40.05	32.58	-92.01	-6,804.04	3,158.33	6,634.91	6,562.62	72.29	91.783	
10,200.00	7,630.00	7,832.34	7,706.30	40.95	32.58	-91.97	-6,804.05	3,158.32	6,537.82	6,465.69	72.13	90.641	
10,300.00	7,630.00	7,831.31	7,705.27	41.94	32.58	-91.94	-6,804.07	3,158.31	6,440.81	6,368.84	71.97	89.494	
10,400.00	7,630.00	7,830.28	7,704.24	42.98	32.58	-91.90	-6,804.08	3,158.30	6,343.90	6,272.09	71.81	88.341	
10,500.00	7,630.00	7,829.25	7,703.21	44.06	32.57	-91.86	-6,804.09	3,158.29	6,247.08	6,175.43	71.66	87.181	
10,600.00	7,630.00	7,828.22	7,702.18	45.17	32.57	-91.82	-6,804.10	3,158.28	6,150.37	6,078.87	71.50	86.015	
10,700.00	7,630.00	7,827.19	7,701.15	46.32	32.57	-91.79	-6,804.11	3,158.27	6,053.76	5,982.41	71.35	84.841	
10,800.00	7,630.00	7,826.16	7,700.12	47.50	32.56	-91.75	-6,804.12	3,158.26	5,957.27	5,886.06	71.21	83.658	
10,900.00	7,630.00	7,825.13	7,699.09	48.70	32.56	-91.71	-6,804.13	3,158.25	5,860.89	5,789.82	71.07	82.468	
11,000.00	7,630.00	7,824.09	7,698.05	49.94	32.56	-91.67	-6,804.14	3,158.24	5,764.63	5,693.70	70.93	81.267	
11,100.00	7,630.00	7,823.06	7,697.02	51.20	32.55	-91.64	-6,804.16	3,158.23	5,668.51	5,597.70	70.81	80.057	
11,200.00	7,630.00	7,822.02	7,695.98	52.48	32.55	-91.60	-6,804.17	3,158.22	5,572.52	5,501.83	70.68	78.837	
11,300.00	7,630.00	7,820.98	7,694.95	53.79	32.55	-91.56	-6,804.18	3,158.21	5,476.67	5,406.10	70.57	77.604	
11,400.00	7,630.00	7,819.95	7,693.91	55.12	32.54	-91.52	-6,804.19	3,158.20	5,380.97	5,310.50	70.47	76.360	
11,500.00	7,630.00	7,818.91	7,692.87	56.46	32.54	-91.49	-6,804.20	3,158.19	5,285.44	5,215.06	70.38	75.102	
11,600.00	7,630.00	7,817.87	7,691.83	57.83	32.54	-91.45	-6,804.21	3,158.18	5,190.07	5,119.77	70.30	73.830	
11,700.00	7,630.00	7,816.82	7,690.79	59.22	32.53	-91.41	-6,804.22	3,158.17	5,094.88	5,024.65	70.23	72.544	
11,800.00	7,630.00	7,815.78	7,689.74	60.62	32.53	-91.37	-6,804.24	3,158.16	4,999.87	4,929.69	70.18	71.241	
11,900.00	7,630.00	7,814.74	7,688.70	62.04	32.53	-91.33	-6,804.25	3,158.15	4,905.07	4,834.92	70.15	69.921	
12,000.00	7,630.00	7,813.69	7,687.65	63.48	32.52	-91.30	-6,804.26	3,158.14	4,810.47	4,740.33	70.14	68.583	
12,100.00	7,630.00	7,812.65	7,686.61	64.93	32.52	-91.26	-6,804.27	3,158.13	4,716.10	4,645.95	70.15	67.225	
12,200.00	7,630.00	7,811.60	7,685.56	66.39	32.52	-91.22	-6,804.28	3,158.12	4,621.96	4,551.77	70.19	65.847	
12,300.00	7,630.00	7,810.55	7,684.51	67.86	32.51	-91.18	-6,804.29	3,158.11	4,528.08	4,457.82	70.26	64.448	
12,400.00	7,630.00	7,809.50	7,683.46	69.35	32.51	-91.14	-6,804.31	3,158.10	4,434.46	4,364.10	70.36	63.027	
12,500.00	7,630.00	7,808.45	7,682.41	70.85	32.51	-91.11	-6,804.32	3,158.09	4,341.13	4,270.64	70.49	61.582	
12,600.00	7,630.00	7,807.40	7,681.36	72.36	32.50	-91.07	-6,804.33	3,158.08	4,248.10	4,177.43	70.67	60.113	
12,700.00	7,630.00	7,806.35	7,680.31	73.88	32.50	-91.03	-6,804.34	3,158.07	4,155.39	4,084.51	70.89	58.619	
12,800.00	7,630.00	7,805.29	7,679.25	75.41	32.50	-90.99	-6,804.35	3,158.06	4,063.03	3,991.88	71.16	57.101	
12,900.00	7,630.00	7,804.24	7,678.20	76.95	32.49	-90.95	-6,804.36	3,158.05	3,971.04	3,899.56	71.48	55.556	
13,000.00	7,630.00	7,803.18	7,677.14	78.49	32.49	-90.91	-6,804.38	3,158.04	3,879.45	3,807.59	71.86	53.987	
13,100.00	7,630.00	7,802.12	7,676.09	80.05	32.49	-90.88	-6,804.39	3,158.03	3,788.28	3,715.97	72.31	52.393	
13,200.00	7,630.00	7,801.06	7,675.03	81.61	32.48	-90.84	-6,804.40	3,158.03	3,697.56	3,624.74	72.82	50.774	
13,300.00	7,630.00	7,800.00	7,673.97	83.18	32.48	-90.80	-6,804.41	3,158.02	3,607.34	3,533.92	73.42	49.133	
13,400.00	7,630.00	7,798.94	7,672.91	84.76	32.48	-90.76	-6,804.42	3,158.01	3,517.64	3,443.54	74.10	47.471	
13,500.00	7,630.00	7,797.88	7,671.85	86.34	32.47	-90.72	-6,804.43	3,158.00	3,428.52	3,353.64	74.88	45.790	
13,600.00	7,630.00	7,796.82	7,670.78	87.94	32.47	-90.68	-6,804.45	3,157.99	3,340.01	3,264.26	75.75	44.093	
13,700.00	7,630.00	7,795.76	7,669.72	89.53	32.47	-90.64	-6,804.46	3,157.98	3,252.16	3,175.43	76.73	42.384	
13,800.00	7,630.00	7,794.69	7,668.65	91.13	32.46	-90.61	-6,804.47	3,157.97	3,165.04	3,087.21	77.83	40.666	
13,900.00	7,630.00	7,793.62	7,667.59	92.74	32.46	-90.57	-6,804.48	3,157.96	3,078.70	2,999.65	79.05	38.944	
14,000.00	7,630.00	7,792.56	7,666.52	94.35	32.46	-90.53	-6,804.49	3,157.95	2,993.21	2,912.80	80.41	37.224	

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 134-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	7,791.49	7,665.45	95.97	32.46	-90.49	-6,804.51	3,157.94	2,908.65	2,826.74	81.91	35.510	
14,200.00	7,630.00	7,790.42	7,664.38	97.60	32.45	-90.45	-6,804.52	3,157.93	2,825.09	2,741.53	83.56	33.808	
14,300.00	7,630.00	7,789.35	7,663.31	99.22	32.45	-90.41	-6,804.53	3,157.92	2,742.63	2,657.26	85.38	32.124	
14,400.00	7,630.00	7,788.28	7,662.24	100.85	32.45	-90.37	-6,804.54	3,157.91	2,661.38	2,574.02	87.36	30.465	
14,500.00	7,630.00	7,787.20	7,661.17	102.49	32.44	-90.33	-6,804.55	3,157.90	2,581.44	2,491.92	89.52	28.837	
14,600.00	7,630.00	7,786.13	7,660.09	104.13	32.44	-90.29	-6,804.57	3,157.89	2,502.94	2,411.08	91.87	27.246	
14,700.00	7,630.00	7,785.05	7,659.02	105.77	32.44	-90.26	-6,804.58	3,157.88	2,426.03	2,331.62	94.41	25.698	
14,800.00	7,630.00	7,783.98	7,657.94	107.42	32.43	-90.22	-6,804.59	3,157.87	2,350.85	2,253.71	97.15	24.199	
14,900.00	7,630.00	7,782.90	7,656.86	109.07	32.43	-90.18	-6,804.60	3,157.86	2,277.59	2,177.49	100.09	22.754	
15,000.00	7,630.00	7,781.82	7,655.78	110.72	32.43	-90.14	-6,804.61	3,157.85	2,206.42	2,103.17	103.25	21.370	
15,100.00	7,630.00	7,780.74	7,654.70	112.38	32.42	-90.10	-6,804.63	3,157.85	2,137.56	2,030.95	106.61	20.050	
15,200.00	7,630.00	7,779.66	7,653.62	114.04	32.42	-90.06	-6,804.64	3,157.84	2,071.24	1,961.06	110.18	18.799	
15,300.00	7,630.00	7,778.58	7,652.54	115.71	32.42	-90.02	-6,804.65	3,157.83	2,007.72	1,893.77	113.95	17.620	
15,400.00	7,630.00	7,777.49	7,651.46	117.37	32.41	-89.98	-6,804.66	3,157.82	1,947.26	1,829.36	117.90	16.517	
15,500.00	7,630.00	7,776.41	7,650.37	119.04	32.41	-89.94	-6,804.67	3,157.81	1,890.16	1,768.14	122.01	15.491	
15,600.00	7,630.00	7,775.32	7,649.29	120.71	32.40	-89.90	-6,804.69	3,157.80	1,836.72	1,710.46	126.27	14.546	
15,700.00	7,630.00	7,774.24	7,648.20	122.39	32.40	-89.86	-6,804.70	3,157.79	1,787.30	1,656.67	130.62	13.683	
15,800.00	7,630.00	7,773.15	7,647.11	124.06	32.40	-89.82	-6,804.71	3,157.78	1,742.21	1,607.17	135.04	12.901	
15,900.00	7,630.00	7,772.06	7,646.02	125.74	32.39	-89.78	-6,804.72	3,157.77	1,701.81	1,562.35	139.46	12.203	
16,000.00	7,630.00	7,771.44	7,645.41	127.42	32.39	-89.76	-6,804.73	3,157.76	1,666.44	1,522.61	143.82	11.587	
16,100.00	7,630.00	7,770.33	7,644.30	129.10	32.39	-89.72	-6,804.74	3,157.75	1,636.42	1,488.36	148.06	11.052	
16,200.00	7,630.00	7,769.21	7,643.18	130.79	32.39	-89.68	-6,804.76	3,157.74	1,612.06	1,459.95	152.11	10.598	
16,300.00	7,630.00	7,768.09	7,642.06	132.48	32.38	-89.64	-6,804.77	3,157.74	1,593.61	1,437.73	155.88	10.223	
16,400.00	7,630.00	7,766.97	7,640.94	134.17	32.38	-89.60	-6,804.78	3,157.73	1,581.28	1,421.97	159.31	9.926	
16,500.00	7,630.00	7,765.85	7,639.81	135.86	32.38	-89.56	-6,804.79	3,157.72	1,575.21	1,412.86	162.35	9.703	
16,545.76	7,630.00	7,765.33	7,639.30	136.63	32.37	-89.54	-6,804.80	3,157.71	1,574.55	1,410.95	163.59	9.625	CC
16,600.00	7,630.00	7,764.72	7,638.69	137.55	32.37	-89.52	-6,804.81	3,157.71	1,575.48	1,410.54	164.94	9.552	ES
16,700.00	7,630.00	7,763.59	7,637.56	139.24	32.37	-89.47	-6,804.82	3,157.70	1,582.08	1,415.02	167.06	9.470	
16,800.00	7,630.00	7,762.46	7,636.42	140.94	32.36	-89.43	-6,804.83	3,157.69	1,594.94	1,426.25	168.69	9.455	SF
16,900.00	7,630.00	7,761.32	7,635.29	142.64	32.36	-89.39	-6,804.84	3,157.68	1,613.90	1,444.07	169.83	9.503	
17,000.00	7,630.00	7,760.18	7,634.15	144.34	32.36	-89.35	-6,804.86	3,157.67	1,638.75	1,468.24	170.51	9.611	
17,100.00	7,630.00	7,759.04	7,633.01	146.04	32.35	-89.31	-6,804.87	3,157.66	1,669.23	1,498.48	170.75	9.776	
17,200.00	7,630.00	7,757.90	7,631.86	147.74	32.35	-89.27	-6,804.88	3,157.65	1,705.04	1,534.43	170.61	9.994	
17,300.00	7,630.00	7,756.75	7,630.72	149.44	32.35	-89.23	-6,804.90	3,157.64	1,745.85	1,575.73	170.12	10.262	
17,400.00	7,630.00	7,755.60	7,629.57	151.15	32.34	-89.18	-6,804.91	3,157.63	1,791.32	1,621.98	169.34	10.578	
17,500.00	7,630.00	7,754.45	7,628.42	152.86	32.34	-89.14	-6,804.92	3,157.62	1,841.10	1,672.79	168.32	10.938	
17,600.00	7,630.00	7,753.29	7,627.26	154.56	32.34	-89.10	-6,804.94	3,157.62	1,894.86	1,727.76	167.10	11.340	
17,700.00	7,630.00	7,752.14	7,626.10	156.27	32.33	-89.06	-6,804.95	3,157.61	1,952.25	1,786.53	165.73	11.780	
17,800.00	7,630.00	7,750.98	7,624.94	157.98	32.33	-89.02	-6,804.96	3,157.60	2,012.99	1,848.75	164.24	12.256	
17,900.00	7,630.00	7,749.81	7,623.78	159.70	32.33	-88.97	-6,804.98	3,157.59	2,076.76	1,914.08	162.68	12.766	
18,000.00	7,630.00	7,748.65	7,622.62	161.41	32.32	-88.93	-6,804.99	3,157.58	2,143.30	1,982.24	161.06	13.308	
18,100.00	7,630.00	7,747.48	7,621.45	163.12	32.32	-88.89	-6,805.00	3,157.57	2,212.36	2,052.95	159.41	13.878	
18,154.00	7,630.00	7,746.85	7,620.81	164.05	32.32	-88.87	-6,805.01	3,157.56	2,250.63	2,092.11	158.52	14.198	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	162.97	-7,147.60	2,189.97	7,475.61				
100.00	100.00	42.58	42.58	0.13	0.08	162.96	-7,147.70	2,190.43	7,476.22	7,476.02	0.20	N/A	
200.00	200.00	81.90	81.88	0.49	0.17	162.95	-7,147.95	2,191.66	7,477.72	7,477.08	0.63	N/A	
300.00	300.00	159.68	159.59	0.85	0.43	162.93	-7,148.70	2,194.55	7,479.73	7,478.46	1.27	5,870.438	
400.00	400.00	227.00	226.87	1.21	0.67	162.92	-7,149.57	2,197.06	7,482.08	7,480.20	1.88	3,987.809	
500.00	500.00	278.76	278.58	1.57	0.86	162.91	-7,150.50	2,199.08	7,484.98	7,482.56	2.42	3,089.970	
600.00	600.00	318.00	317.77	1.93	1.00	162.90	-7,151.45	2,200.71	7,488.59	7,485.67	2.92	2,562.101	
700.00	700.00	372.75	372.43	2.29	1.21	162.88	-7,153.03	2,203.49	7,492.89	7,489.41	3.48	2,152.385	
800.00	800.00	410.00	409.58	2.64	1.35	162.86	-7,154.23	2,205.86	7,497.92	7,493.95	3.98	1,886.239	
900.00	900.00	410.00	409.58	3.00	1.35	162.86	-7,154.23	2,205.86	7,504.09	7,499.76	4.33	1,732.126	
1,000.00	1,000.00	455.75	455.17	3.36	1.52	162.84	-7,156.27	2,209.13	7,510.91	7,506.05	4.86	1,546.077	
1,100.00	1,100.00	502.00	501.18	3.72	1.70	162.83	-7,159.39	2,212.66	7,519.19	7,513.81	5.38	1,396.463	
1,200.00	1,200.00	502.00	501.18	4.08	1.70	162.83	-7,159.39	2,212.66	7,528.11	7,522.37	5.74	1,311.924	
1,300.00	1,300.00	502.00	501.18	4.44	1.70	162.83	-7,159.39	2,212.66	7,538.34	7,532.25	6.09	1,237.644	
1,400.00	1,400.00	548.81	547.65	4.79	1.89	162.81	-7,163.42	2,216.63	7,549.34	7,542.72	6.62	1,140.548	
1,500.00	1,499.98	594.00	592.40	5.15	2.08	124.77	-7,167.92	2,221.01	7,562.48	7,555.34	7.14	1,059.389	
1,600.00	1,599.84	594.00	592.40	5.51	2.08	124.50	-7,167.92	2,221.01	7,578.37	7,570.89	7.49	1,012.470	
1,700.00	1,699.45	636.35	634.22	5.87	2.26	124.19	-7,172.55	2,225.72	7,597.14	7,589.15	8.00	949.852	
1,800.00	1,798.70	686.00	683.12	6.23	2.47	123.83	-7,178.29	2,232.18	7,618.75	7,610.21	8.54	891.983	
1,900.00	1,897.47	716.37	712.95	6.60	2.61	123.42	-7,181.90	2,236.58	7,642.91	7,633.89	9.02	847.454	
2,000.00	1,995.62	778.00	773.35	6.99	2.90	122.98	-7,189.11	2,246.47	7,669.47	7,659.84	9.63	796.293	
2,100.00	2,093.06	809.04	803.70	7.39	3.05	122.48	-7,192.82	2,251.84	7,698.48	7,688.35	10.13	759.745	
2,200.00	2,189.64	855.00	848.53	7.82	3.27	121.96	-7,198.74	2,260.07	7,730.14	7,719.42	10.71	721.698	
2,300.00	2,285.27	855.00	848.53	8.28	3.27	121.34	-7,198.74	2,260.07	7,764.26	7,753.15	11.11	699.128	
2,400.00	2,379.82	906.38	898.50	8.77	3.54	120.72	-7,205.85	2,269.64	7,800.76	7,789.01	11.75	663.843	
2,500.00	2,473.17	942.00	933.07	9.31	3.72	120.04	-7,211.05	2,276.49	7,839.65	7,827.31	12.34	635.079	
2,600.00	2,565.21	942.00	933.07	9.88	3.72	119.25	-7,211.05	2,276.49	7,881.00	7,868.20	12.80	615.641	
2,660.67	2,620.37	986.59	976.24	10.25	3.96	118.83	-7,217.95	2,285.25	7,906.96	7,893.66	13.30	594.619	
2,700.00	2,655.96	997.54	986.82	10.50	4.02	118.85	-7,219.72	2,287.43	7,924.20	7,910.66	13.54	585.246	
2,800.00	2,746.43	1,036.00	1,023.95	11.15	4.23	118.93	-7,226.18	2,295.13	7,968.57	7,954.35	14.22	560.421	
2,900.00	2,836.90	1,065.07	1,051.97	11.82	4.39	118.98	-7,231.25	2,300.99	8,013.56	7,998.70	14.86	539.144	
3,000.00	2,927.37	3,000.00	1,152.21	12.50	15.40	119.19	-7,249.63	2,321.63	8,058.88	8,034.65	24.22	332.690	
3,100.00	3,017.85	1,237.86	1,218.61	13.21	5.36	119.32	-7,261.60	2,335.11	8,103.97	8,087.22	16.75	483.931	
3,200.00	3,108.32	1,289.00	1,267.78	13.92	5.66	119.41	-7,270.86	2,345.67	8,149.79	8,132.26	17.53	464.891	
3,300.00	3,198.79	1,289.00	1,267.78	14.64	5.66	119.41	-7,270.86	2,345.67	8,196.09	8,178.03	18.06	453.790	
3,400.00	3,289.27	1,351.74	1,327.93	15.38	6.03	119.53	-7,282.63	2,359.11	8,242.95	8,224.03	18.92	435.658	
3,500.00	3,379.74	1,406.24	1,380.09	16.12	6.36	119.62	-7,293.04	2,370.94	8,290.21	8,270.47	19.74	419.907	
3,600.00	3,470.21	1,463.00	1,434.36	16.87	6.70	119.72	-7,304.05	2,383.45	8,337.83	8,317.25	20.58	405.101	
3,700.00	3,560.68	1,493.19	1,463.18	17.62	6.89	119.78	-7,310.03	2,390.18	8,385.92	8,364.64	21.28	394.043	
3,800.00	3,651.16	1,523.59	1,492.14	18.39	7.08	119.83	-7,316.24	2,397.00	8,434.62	8,412.64	21.98	383.701	
3,900.00	3,741.63	1,550.00	1,517.26	19.15	7.25	119.87	-7,321.79	2,402.97	8,483.92	8,461.26	22.66	374.404	
4,000.00	3,832.10	1,599.00	1,563.79	19.92	7.56	119.96	-7,332.31	2,414.19	8,533.71	8,510.25	23.47	363.656	
4,100.00	3,922.57	1,638.00	1,600.74	20.69	7.82	120.02	-7,340.81	2,423.30	8,583.96	8,559.75	24.22	354.476	
4,200.00	4,013.05	1,668.55	1,629.62	21.47	8.02	120.07	-7,347.63	2,430.54	8,634.74	8,609.82	24.92	346.523	
4,300.00	4,103.52	1,696.07	1,655.59	22.25	8.20	120.11	-7,353.93	2,437.14	8,686.11	8,660.51	25.60	339.294	
4,400.00	4,193.99	2,204.40	2,137.98	23.03	11.53	120.91	-7,461.41	2,555.68	8,736.55	8,707.43	29.12	300.043	
4,500.00	4,284.47	2,249.00	2,180.65	23.81	11.81	120.99	-7,469.88	2,565.51	8,784.28	8,754.36	29.91	293.644	
4,600.00	4,374.94	2,295.65	2,225.19	24.60	12.11	121.06	-7,478.89	2,576.06	8,832.43	8,801.71	30.73	287.447	
4,700.00	4,465.41	2,336.00	2,263.60	25.39	12.36	121.12	-7,486.86	2,585.51	8,881.12	8,849.62	31.50	281.934	
4,800.00	4,555.88	2,598.00	2,513.95	26.18	14.02	121.52	-7,538.07	2,643.24	8,929.73	8,896.16	33.57	265.982	
4,900.00	4,646.36	2,652.75	2,566.52	26.97	14.36	121.61	-7,548.20	2,654.69	8,976.97	8,942.54	34.43	260.743	
5,000.00	4,736.83	2,685.00	2,597.41	27.76	14.55	121.66	-7,554.37	2,661.61	9,024.82	8,989.67	35.15	256.739	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,827.30	2,731.13	2,641.49	28.55	14.85	121.72	-7,563.36	2,671.84	9,073.16	9,037.20	35.96	252.309	
5,200.00	4,917.77	2,919.04	2,820.49	29.35	16.06	121.98	-7,598.93	2,716.58	9,121.66	9,084.01	37.65	242.282	
5,300.00	5,008.25	2,987.85	2,886.12	30.15	16.51	122.07	-7,611.37	2,733.09	9,169.28	9,130.67	38.61	237.502	
5,400.00	5,098.72	3,035.00	2,931.12	30.94	16.81	122.13	-7,620.18	2,744.04	9,217.27	9,177.85	39.43	233.772	
5,500.00	5,189.19	3,067.70	2,962.32	31.74	17.02	122.17	-7,626.48	2,751.56	9,265.73	9,225.58	40.16	230.744	
5,600.00	5,279.67	3,122.00	3,014.01	32.54	17.37	122.25	-7,637.33	2,764.18	9,314.79	9,273.77	41.02	227.105	
5,700.00	5,370.14	3,122.00	3,014.01	33.34	17.37	122.25	-7,637.33	2,764.18	9,364.23	9,322.70	41.53	225.482	
5,800.00	5,460.61	3,162.87	3,052.82	34.14	17.64	122.30	-7,645.83	2,773.74	9,414.24	9,371.94	42.30	222.562	
5,900.00	5,551.08	3,209.00	3,096.56	34.94	17.95	122.37	-7,655.79	2,784.50	9,464.81	9,421.71	43.10	219.601	
6,000.00	5,641.56	3,209.00	3,096.56	35.75	17.95	122.37	-7,655.79	2,784.50	9,515.85	9,472.25	43.60	218.261	
6,100.00	5,732.03	3,242.19	3,127.95	36.55	18.18	122.41	-7,663.26	2,792.27	9,567.45	9,523.14	44.31	215.927	
6,200.00	5,822.50	3,263.86	3,148.40	37.35	18.33	122.44	-7,668.29	2,797.39	9,619.64	9,574.70	44.94	214.059	
6,300.00	5,912.97	3,296.00	3,178.64	38.16	18.55	122.48	-7,676.00	2,805.05	9,672.42	9,626.79	45.64	211.952	
6,400.00	6,003.45	3,646.00	3,508.49	38.96	20.98	122.90	-7,753.05	2,893.04	9,723.01	9,674.50	48.51	200.417	
6,500.00	6,093.92	3,691.24	3,551.17	39.77	21.30	122.95	-7,762.52	2,904.66	9,773.79	9,724.48	49.32	198.186	
6,600.00	6,184.39	3,733.00	3,590.55	40.57	21.59	123.00	-7,771.59	2,915.20	9,825.06	9,774.97	50.09	196.141	
6,700.00	6,274.87	6,685.03	6,475.67	41.38	34.28	127.97	-8,086.24	3,237.21	9,870.93	9,806.95	63.98	154.282	
6,800.00	6,365.34	6,768.83	6,559.45	42.18	34.45	128.14	-8,084.84	3,236.53	9,896.97	9,832.11	64.86	152.597	
6,900.00	6,455.81	6,847.41	6,638.02	42.99	34.61	128.30	-8,083.59	3,236.09	9,923.22	9,857.50	65.72	150.994	
7,000.00	6,546.28	6,916.56	6,707.17	43.80	34.77	128.44	-8,082.56	3,235.87	9,949.72	9,883.16	66.56	149.484	
7,100.00	6,636.76	6,980.36	6,770.96	44.61	34.91	128.56	-8,081.73	3,235.93	9,976.57	9,909.18	67.39	148.045	
7,900.00	7,370.32	7,479.41	7,269.89	48.47	36.22	16.71	-8,080.46	3,245.19	9,980.31	9,907.34	72.97	136.766	
7,950.00	7,409.96	7,505.12	7,295.58	48.37	36.29	13.01	-8,080.64	3,246.13	9,951.04	9,877.91	73.13	136.064	
8,000.00	7,447.08	7,529.28	7,319.73	48.24	36.36	9.76	-8,080.83	3,247.06	9,918.48	9,845.21	73.27	135.372	
8,050.00	7,481.41	7,551.72	7,342.15	48.07	36.43	6.73	-8,081.03	3,247.98	9,882.87	9,809.50	73.37	134.690	
8,100.00	7,512.67	7,574.00	7,364.41	47.87	36.49	3.71	-8,081.24	3,248.95	9,844.47	9,771.01	73.46	134.009	
8,150.00	7,540.64	7,591.36	7,381.75	47.65	36.55	0.44	-8,081.42	3,249.73	9,803.56	9,730.04	73.52	133.353	
8,200.00	7,565.09	7,608.23	7,398.60	47.40	36.60	-3.37	-8,081.61	3,250.53	9,760.44	9,686.89	73.55	132.702	
8,250.00	7,585.85	7,622.66	7,413.01	47.14	36.64	-8.22	-8,081.78	3,251.23	9,715.43	9,641.86	73.56	132.067	
8,300.00	7,602.75	7,634.51	7,424.84	46.86	36.68	-14.94	-8,081.92	3,251.83	9,668.86	9,595.31	73.56	131.451	
8,350.00	7,615.67	7,643.69	7,434.01	46.58	36.71	-25.06	-8,082.03	3,252.31	9,621.09	9,547.56	73.53	130.854	
8,400.00	7,624.51	7,650.12	7,440.43	46.28	36.73	-41.23	-8,082.11	3,252.64	9,572.47	9,498.99	73.48	130.279	
8,450.00	7,629.19	7,653.73	7,444.04	45.98	36.74	-65.61	-8,082.16	3,252.84	9,523.37	9,449.96	73.41	129.726	
8,481.00	7,630.00	7,654.54	7,444.85	45.79	36.74	-82.95	-8,082.17	3,252.88	9,492.85	9,419.49	73.36	129.395	
8,500.00	7,630.00	7,654.71	7,445.01	45.68	36.75	-82.95	-8,082.17	3,252.89	9,474.16	9,400.83	73.33	129.196	
8,600.00	7,630.00	7,655.55	7,445.86	45.11	36.75	-82.98	-8,082.18	3,252.93	9,375.77	9,302.61	73.17	128.143	
8,700.00	7,630.00	7,656.40	7,446.71	44.56	36.75	-83.01	-8,082.19	3,252.98	9,277.42	9,204.42	73.00	127.088	
8,800.00	7,630.00	7,657.26	7,447.56	44.05	36.75	-83.04	-8,082.20	3,253.03	9,179.11	9,106.27	72.83	126.030	
8,900.00	7,630.00	7,658.12	7,448.42	43.57	36.76	-83.07	-8,082.21	3,253.07	9,080.83	9,008.16	72.66	124.970	
9,000.00	7,630.00	7,658.98	7,449.28	43.12	36.76	-83.10	-8,082.22	3,253.12	8,982.59	8,910.09	72.49	123.907	
9,100.00	7,630.00	7,659.85	7,450.14	42.70	36.76	-83.13	-8,082.23	3,253.17	8,884.38	8,812.06	72.32	122.841	
9,200.00	7,630.00	7,660.72	7,451.01	42.31	36.76	-83.15	-8,082.25	3,253.21	8,786.22	8,714.07	72.15	121.773	
9,300.00	7,630.00	7,661.59	7,451.89	41.94	36.77	-83.18	-8,082.26	3,253.26	8,688.10	8,616.12	71.98	120.701	
9,400.00	7,630.00	7,662.47	7,452.76	41.59	36.77	-83.21	-8,082.27	3,253.31	8,590.03	8,518.22	71.81	119.625	
9,500.00	7,630.00	7,663.35	7,453.64	41.26	36.77	-83.24	-8,082.28	3,253.36	8,491.99	8,420.36	71.63	118.547	
9,600.00	7,630.00	7,664.23	7,454.52	40.96	36.77	-83.27	-8,082.29	3,253.40	8,394.01	8,322.55	71.46	117.464	
9,700.00	7,630.00	7,665.12	7,455.41	40.68	36.78	-83.30	-8,082.30	3,253.45	8,296.07	8,224.79	71.29	116.378	
9,800.00	7,630.00	7,666.01	7,456.30	40.42	36.78	-83.33	-8,082.31	3,253.50	8,198.18	8,127.07	71.11	115.287	
9,900.00	7,630.00	7,666.91	7,457.20	40.17	36.78	-83.36	-8,082.33	3,253.55	8,100.35	8,029.41	70.94	114.193	
10,000.00	7,630.00	7,667.81	7,458.09	39.96	36.79	-83.40	-8,082.34	3,253.60	8,002.56	7,931.80	70.76	113.093	
10,100.00	7,630.00	7,668.71	7,459.00	40.05	36.79	-83.43	-8,082.35	3,253.65	7,904.84	7,834.25	70.59	111.989	
10,200.00	7,630.00	7,669.62	7,459.90	40.95	36.79	-83.46	-8,082.36	3,253.70	7,807.17	7,736.75	70.41	110.880	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
10,300.00	7,630.00	7,670.53	7,460.81	41.94	36.79	-83.49	-8,082.37	3,253.75	7,709.55	7,639.32	70.24	109.765	
10,400.00	7,630.00	7,671.45	7,461.73	42.98	36.80	-83.52	-8,082.39	3,253.80	7,612.01	7,541.94	70.06	108.644	
10,500.00	7,630.00	7,672.37	7,462.64	44.06	36.80	-83.55	-8,082.40	3,253.85	7,514.52	7,444.63	69.89	107.517	
10,600.00	7,630.00	7,673.29	7,463.57	45.17	36.80	-83.58	-8,082.41	3,253.90	7,417.10	7,347.38	69.72	106.383	
10,700.00	7,630.00	7,674.22	7,464.49	46.32	36.81	-83.61	-8,082.42	3,253.96	7,319.76	7,250.20	69.55	105.243	
10,800.00	7,630.00	7,675.15	7,465.42	47.50	36.81	-83.64	-8,082.44	3,254.01	7,222.48	7,153.10	69.38	104.094	
10,900.00	7,630.00	7,676.08	7,466.36	48.70	36.81	-83.68	-8,082.45	3,254.06	7,125.28	7,056.06	69.22	102.938	
11,000.00	7,630.00	7,677.02	7,467.29	49.94	36.81	-83.71	-8,082.46	3,254.11	7,028.16	6,959.10	69.06	101.773	
11,100.00	7,630.00	7,677.97	7,468.24	51.20	36.82	-83.74	-8,082.47	3,254.17	6,931.11	6,862.22	68.90	100.599	
11,200.00	7,630.00	7,678.92	7,469.18	52.48	36.82	-83.77	-8,082.49	3,254.22	6,834.16	6,765.42	68.74	99.416	
11,300.00	7,630.00	7,679.87	7,470.13	53.79	36.82	-83.80	-8,082.50	3,254.27	6,737.29	6,668.70	68.59	98.221	
11,400.00	7,630.00	7,680.82	7,471.09	55.12	36.83	-83.84	-8,082.51	3,254.33	6,640.52	6,572.07	68.45	97.016	
11,500.00	7,630.00	7,681.79	7,472.05	56.46	36.83	-83.87	-8,082.52	3,254.38	6,543.84	6,475.53	68.31	95.799	
11,600.00	7,630.00	7,682.75	7,473.01	57.83	36.83	-83.90	-8,082.54	3,254.44	6,447.26	6,379.09	68.18	94.569	
11,700.00	7,630.00	7,683.72	7,473.98	59.22	36.84	-83.94	-8,082.55	3,254.49	6,350.79	6,282.74	68.05	93.326	
11,800.00	7,630.00	7,684.69	7,474.95	60.62	36.84	-83.97	-8,082.56	3,254.55	6,254.43	6,186.50	67.93	92.069	
11,900.00	7,630.00	7,685.67	7,475.93	62.04	36.84	-84.00	-8,082.58	3,254.60	6,158.19	6,090.37	67.82	90.796	
12,000.00	7,630.00	7,686.65	7,476.91	63.48	36.85	-84.04	-8,082.59	3,254.66	6,062.07	5,994.34	67.73	89.507	
12,100.00	7,630.00	7,687.64	7,477.89	64.93	36.85	-84.07	-8,082.60	3,254.71	5,966.07	5,898.43	67.64	88.201	
12,200.00	7,630.00	7,688.63	7,478.88	66.39	36.85	-84.10	-8,082.62	3,254.77	5,870.21	5,802.64	67.57	86.876	
12,300.00	7,630.00	7,689.63	7,479.88	67.86	36.85	-84.14	-8,082.63	3,254.83	5,774.49	5,706.98	67.51	85.532	
12,400.00	7,630.00	7,690.63	7,480.88	69.35	36.86	-84.17	-8,082.65	3,254.89	5,678.92	5,611.44	67.47	84.168	
12,500.00	7,630.00	7,691.63	7,481.88	70.85	36.86	-84.20	-8,082.66	3,254.94	5,583.50	5,516.05	67.45	82.782	
12,600.00	7,630.00	7,692.64	7,482.89	72.36	36.86	-84.24	-8,082.67	3,255.00	5,488.24	5,420.79	67.44	81.374	
12,700.00	7,630.00	7,693.66	7,483.90	73.88	36.87	-84.27	-8,082.69	3,255.06	5,393.15	5,325.69	67.46	79.942	
12,800.00	7,630.00	7,694.68	7,484.92	75.41	36.87	-84.31	-8,082.70	3,255.12	5,298.25	5,230.74	67.51	78.485	
12,900.00	7,630.00	7,695.70	7,485.94	76.95	36.87	-84.34	-8,082.72	3,255.18	5,203.53	5,135.96	67.58	77.003	
13,000.00	7,630.00	7,696.73	7,486.97	78.49	36.88	-84.38	-8,082.73	3,255.24	5,109.02	5,041.35	67.67	75.494	
13,100.00	7,630.00	7,697.76	7,488.00	80.05	36.88	-84.41	-8,082.75	3,255.30	5,014.72	4,946.92	67.81	73.957	
13,200.00	7,630.00	7,698.80	7,489.03	81.61	36.88	-84.45	-8,082.76	3,255.36	4,920.65	4,852.67	67.97	72.392	
13,300.00	7,630.00	7,699.84	7,490.07	83.18	36.89	-84.48	-8,082.78	3,255.42	4,826.81	4,758.63	68.18	70.798	
13,400.00	7,630.00	7,700.89	7,491.12	84.76	36.89	-84.52	-8,082.79	3,255.48	4,733.22	4,664.80	68.42	69.176	
13,500.00	7,630.00	7,701.94	7,492.17	86.34	36.89	-84.55	-8,082.80	3,255.55	4,639.90	4,571.19	68.72	67.524	
13,600.00	7,630.00	7,703.00	7,493.23	87.94	36.90	-84.59	-8,082.82	3,255.61	4,546.87	4,477.81	69.06	65.843	
13,700.00	7,630.00	7,704.06	7,494.29	89.53	36.90	-84.63	-8,082.84	3,255.67	4,454.14	4,384.69	69.45	64.133	
13,800.00	7,630.00	7,705.13	7,495.35	91.13	36.90	-84.66	-8,082.85	3,255.73	4,361.72	4,291.82	69.90	62.396	
13,900.00	7,630.00	7,706.20	7,496.42	92.74	36.91	-84.70	-8,082.87	3,255.80	4,269.65	4,199.23	70.42	60.631	
14,000.00	7,630.00	7,707.28	7,497.50	94.35	36.91	-84.74	-8,082.88	3,255.86	4,177.95	4,106.95	71.00	58.842	
14,100.00	7,630.00	7,708.36	7,498.58	95.97	36.91	-84.77	-8,082.90	3,255.93	4,086.63	4,014.97	71.66	57.030	
14,200.00	7,630.00	7,709.45	7,499.66	97.60	36.92	-84.81	-8,082.91	3,255.99	3,995.73	3,923.34	72.39	55.196	
14,300.00	7,630.00	7,710.54	7,500.75	99.22	36.92	-84.85	-8,082.93	3,256.06	3,905.27	3,832.06	73.21	53.345	
14,400.00	7,630.00	7,711.64	7,501.85	100.85	36.92	-84.88	-8,082.94	3,256.12	3,815.29	3,741.17	74.11	51.479	
14,500.00	7,630.00	7,712.74	7,502.95	102.49	36.93	-84.92	-8,082.96	3,256.19	3,725.82	3,650.70	75.11	49.602	
14,600.00	7,630.00	7,713.85	7,504.06	104.13	36.93	-84.96	-8,082.98	3,256.26	3,636.89	3,560.68	76.22	47.717	
14,700.00	7,630.00	7,714.97	7,505.17	105.77	36.93	-85.00	-8,082.99	3,256.32	3,548.56	3,471.13	77.43	45.830	
14,800.00	7,630.00	7,716.09	7,506.29	107.42	36.94	-85.04	-8,083.01	3,256.39	3,460.86	3,382.10	78.76	43.944	
14,900.00	7,630.00	7,717.21	7,507.41	109.07	36.94	-85.07	-8,083.03	3,256.46	3,373.84	3,293.64	80.20	42.066	
15,000.00	7,630.00	7,718.34	7,508.54	110.72	36.94	-85.11	-8,083.04	3,256.53	3,287.57	3,205.78	81.78	40.199	
15,100.00	7,630.00	7,719.48	7,509.67	112.38	36.95	-85.15	-8,083.06	3,256.60	3,202.09	3,118.59	83.50	38.349	
15,200.00	7,630.00	7,720.62	7,510.81	114.04	36.95	-85.19	-8,083.08	3,256.67	3,117.47	3,032.11	85.36	36.522	
15,300.00	7,630.00	7,721.76	7,511.95	115.71	36.96	-85.23	-8,083.09	3,256.74	3,033.79	2,946.42	87.37	34.722	
15,400.00	7,630.00	7,722.91	7,513.10	117.37	36.96	-85.27	-8,083.11	3,256.81	2,951.12	2,861.57	89.55	32.955	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
15,500.00	7,630.00	7,724.07	7,514.26	119.04	36.96	-85.31	-8,083.13	3,256.88	2,869.56	2,777.67	91.90	31.226	
15,600.00	7,630.00	7,725.24	7,515.42	120.71	36.97	-85.35	-8,083.14	3,256.95	2,789.20	2,694.78	94.42	29.540	
15,700.00	7,630.00	7,726.41	7,516.58	122.39	36.97	-85.39	-8,083.16	3,257.02	2,710.14	2,613.01	97.14	27.900	
15,800.00	7,630.00	7,727.58	7,517.76	124.06	36.97	-85.43	-8,083.18	3,257.10	2,632.51	2,532.47	100.05	26.313	
15,900.00	7,630.00	7,728.76	7,518.94	125.74	36.98	-85.47	-8,083.20	3,257.17	2,556.44	2,453.27	103.16	24.781	
16,000.00	7,630.00	7,729.95	7,520.12	127.42	36.98	-85.51	-8,083.22	3,257.24	2,482.06	2,375.57	106.49	23.309	
16,100.00	7,630.00	7,731.14	7,521.31	129.10	36.98	-85.55	-8,083.23	3,257.32	2,409.53	2,299.50	110.03	21.899	
16,200.00	7,630.00	7,732.34	7,522.51	130.79	36.99	-85.59	-8,083.25	3,257.39	2,339.03	2,225.23	113.80	20.555	
16,300.00	7,630.00	7,733.54	7,523.71	132.48	36.99	-85.63	-8,083.27	3,257.47	2,270.75	2,152.96	117.79	19.278	
16,400.00	7,630.00	7,734.75	7,524.92	134.17	37.00	-85.67	-8,083.29	3,257.54	2,204.88	2,082.88	122.00	18.073	
16,500.00	7,630.00	7,735.97	7,526.13	135.86	37.00	-85.71	-8,083.31	3,257.62	2,141.66	2,015.23	126.43	16.939	
16,600.00	7,630.00	7,737.19	7,527.35	137.55	37.00	-85.75	-8,083.33	3,257.70	2,081.33	1,950.25	131.08	15.878	
16,700.00	7,630.00	7,738.42	7,528.58	139.24	37.01	-85.80	-8,083.34	3,257.77	2,024.14	1,888.22	135.92	14.892	
16,800.00	7,630.00	7,739.66	7,529.81	140.94	37.01	-85.84	-8,083.36	3,257.85	1,970.37	1,829.44	140.93	13.981	
16,900.00	7,630.00	7,740.90	7,531.05	142.64	37.02	-85.88	-8,083.38	3,257.93	1,920.30	1,774.22	146.08	13.146	
17,000.00	7,630.00	7,742.14	7,532.29	144.34	37.02	-85.92	-8,083.40	3,258.01	1,874.23	1,722.90	151.33	12.385	
17,100.00	7,630.00	7,743.40	7,533.54	146.04	37.02	-85.96	-8,083.42	3,258.09	1,832.47	1,675.84	156.63	11.699	
17,200.00	7,630.00	7,744.66	7,534.80	147.74	37.03	-86.01	-8,083.44	3,258.17	1,795.31	1,633.38	161.93	11.087	
17,300.00	7,630.00	7,745.92	7,536.06	149.44	37.03	-86.05	-8,083.46	3,258.25	1,763.05	1,595.90	167.14	10.548	
17,400.00	7,630.00	7,747.20	7,537.33	151.15	37.04	-86.09	-8,083.48	3,258.33	1,735.95	1,563.74	172.20	10.081	
17,500.00	7,630.00	7,748.48	7,538.61	152.86	37.04	-86.14	-8,083.50	3,258.41	1,714.26	1,537.23	177.03	9.683	
17,600.00	7,630.00	7,750.06	7,540.19	154.56	37.04	-86.19	-8,083.53	3,258.52	1,698.20	1,516.65	181.55	9.354	
17,700.00	7,630.00	7,751.84	7,541.97	156.27	37.05	-86.25	-8,083.55	3,258.63	1,687.91	1,502.24	185.67	9.091	
17,800.00	7,630.00	7,753.62	7,543.74	157.98	37.06	-86.31	-8,083.58	3,258.74	1,683.51	1,494.17	189.34	8.891	
17,824.20	7,630.00	7,754.05	7,544.17	158.40	37.06	-86.33	-8,083.59	3,258.77	1,683.34	1,493.18	190.15	8.853	CC
17,900.00	7,630.00	7,755.39	7,545.50	159.70	37.06	-86.37	-8,083.61	3,258.86	1,685.04	1,492.54	192.50	8.754	ES
18,000.00	7,630.00	7,757.15	7,547.26	161.41	37.07	-86.43	-8,083.64	3,258.97	1,692.49	1,497.38	195.11	8.675	
18,100.00	7,630.00	7,758.90	7,549.01	163.12	37.07	-86.49	-8,083.66	3,259.08	1,705.77	1,508.62	197.15	8.652	SF
18,154.00	7,630.00	7,759.84	7,549.95	164.05	37.08	-86.52	-8,083.68	3,259.14	1,715.33	1,517.31	198.02	8.662	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 43-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	11.24	11.24	0.00	0.01	163.06	-7,164.37	2,182.14	7,489.33				
100.00	100.00	63.89	63.89	0.13	0.13	163.06	-7,164.54	2,182.41	7,489.79	7,489.53	0.26	N/A	
200.00	200.00	119.11	119.10	0.49	0.33	163.05	-7,164.92	2,183.22	7,490.87	7,490.05	0.82	9,123.916	
300.00	300.00	177.84	177.81	0.85	0.54	163.04	-7,165.51	2,184.63	7,492.52	7,491.13	1.39	5,386.864	
400.00	400.00	227.00	226.94	1.21	0.72	163.03	-7,166.14	2,186.15	7,494.73	7,492.80	1.93	3,890.318	
500.00	500.00	264.34	264.25	1.57	0.86	163.03	-7,166.81	2,187.69	7,497.70	7,495.28	2.42	3,096.584	
600.00	600.00	318.00	317.79	1.93	1.05	163.00	-7,168.19	2,190.88	7,501.70	7,498.72	2.97	2,522.001	
700.00	700.00	318.00	317.79	2.29	1.05	163.00	-7,168.19	2,190.88	7,506.42	7,503.08	3.33	2,252.204	
800.00	800.00	318.00	317.79	2.64	1.05	163.00	-7,168.19	2,190.88	7,512.47	7,508.77	3.69	2,035.180	
900.00	900.00	373.18	372.76	3.00	1.27	162.98	-7,170.43	2,195.15	7,519.00	7,514.75	4.25	1,768.183	
1,000.00	1,000.00	410.00	409.37	3.36	1.41	162.96	-7,172.52	2,198.43	7,526.85	7,522.11	4.74	1,586.481	
1,100.00	1,100.00	410.00	409.37	3.72	1.41	162.96	-7,172.52	2,198.43	7,535.65	7,530.55	5.10	1,477.833	
1,200.00	1,200.00	452.74	451.82	4.08	1.58	162.94	-7,175.56	2,202.38	7,545.35	7,539.74	5.61	1,344.095	
1,300.00	1,300.00	502.00	500.69	4.44	1.77	162.91	-7,179.85	2,206.82	7,556.11	7,549.96	6.15	1,228.453	
1,400.00	1,400.00	502.00	500.69	4.79	1.77	162.91	-7,179.85	2,206.82	7,567.64	7,561.14	6.50	1,164.027	
1,500.00	1,499.98	541.05	539.39	5.15	1.94	124.87	-7,183.85	2,210.24	7,581.12	7,574.12	7.00	1,083.430	
1,600.00	1,599.84	594.00	591.78	5.51	2.16	124.60	-7,190.10	2,214.68	7,597.61	7,590.07	7.54	1,007.165	
1,700.00	1,699.45	594.00	591.78	5.87	2.16	124.28	-7,190.10	2,214.68	7,616.72	7,608.83	7.89	965.455	
1,800.00	1,798.70	642.55	639.75	6.23	2.36	123.93	-7,196.58	2,218.41	7,638.63	7,630.21	8.42	907.184	
1,900.00	1,897.47	686.00	682.64	6.60	2.55	123.55	-7,202.89	2,221.31	7,663.18	7,654.25	8.93	857.691	
2,000.00	1,995.62	686.00	682.64	6.99	2.55	123.07	-7,202.89	2,221.31	7,690.52	7,681.23	9.29	827.725	
2,100.00	2,093.06	726.87	722.89	7.39	2.73	122.60	-7,209.48	2,223.73	7,720.39	7,710.58	9.81	786.879	
2,200.00	2,189.64	778.00	773.08	7.82	2.95	122.11	-7,218.91	2,226.37	7,753.33	7,742.95	10.38	746.664	
2,300.00	2,285.27	778.00	773.08	8.28	2.95	121.47	-7,218.91	2,226.37	7,788.42	7,777.64	10.78	722.750	
2,400.00	2,379.82	778.00	773.08	8.77	2.95	120.77	-7,218.91	2,226.37	7,826.31	7,815.13	11.19	699.698	
2,500.00	2,473.17	806.58	801.03	9.31	3.09	120.08	-7,224.75	2,227.68	7,866.70	7,854.97	11.73	670.881	
2,600.00	2,565.21	824.89	818.89	9.88	3.17	119.31	-7,228.70	2,228.45	7,909.54	7,897.29	12.25	645.714	
2,660.67	2,620.37	855.00	848.18	10.25	3.31	118.88	-7,235.57	2,229.62	7,936.80	7,924.15	12.65	627.203	
2,700.00	2,655.96	855.00	848.18	10.50	3.31	118.88	-7,235.57	2,229.62	7,954.68	7,941.84	12.84	619.391	
2,800.00	2,746.43	855.00	848.18	11.15	3.31	118.88	-7,235.57	2,229.62	8,000.84	7,987.51	13.33	600.290	
2,900.00	2,836.90	855.00	848.18	11.82	3.31	118.88	-7,235.57	2,229.62	8,047.97	8,034.14	13.82	582.224	
3,000.00	2,927.37	906.03	897.64	12.50	3.57	119.05	-7,247.99	2,231.62	8,095.47	8,080.94	14.54	556.923	
3,100.00	3,017.85	942.00	932.37	13.21	3.75	119.17	-7,257.21	2,233.19	8,143.94	8,128.75	15.19	536.048	
3,200.00	3,108.32	942.00	932.37	13.92	3.75	119.17	-7,257.21	2,233.19	8,193.06	8,177.36	15.70	521.742	
3,300.00	3,198.79	978.25	967.27	14.64	3.94	119.28	-7,266.82	2,234.97	8,242.86	8,226.48	16.38	503.243	
3,400.00	3,289.27	1,031.00	1,017.92	15.38	4.22	119.45	-7,281.26	2,237.98	8,293.45	8,276.33	17.12	484.468	
3,500.00	3,379.74	1,031.00	1,017.92	16.12	4.22	119.45	-7,281.26	2,237.98	8,344.44	8,326.80	17.63	473.232	
3,600.00	3,470.21	1,066.91	1,052.31	16.87	4.42	119.56	-7,291.35	2,240.29	8,396.14	8,377.83	18.31	458.632	
3,700.00	3,560.68	1,116.00	1,099.23	17.62	4.70	119.71	-7,305.36	2,243.73	8,448.39	8,429.34	19.05	443.560	
3,800.00	3,651.16	1,188.85	1,168.81	18.39	5.12	119.93	-7,326.32	2,248.79	8,500.98	8,481.08	19.90	427.238	
3,900.00	3,741.63	1,229.13	1,207.30	19.15	5.36	120.06	-7,337.95	2,251.37	8,553.72	8,533.13	20.60	415.270	
4,000.00	3,832.10	1,257.81	1,234.64	19.92	5.53	120.14	-7,346.39	2,253.24	8,607.04	8,585.80	21.24	405.184	
4,100.00	3,922.57	1,291.00	1,266.22	20.69	5.73	120.24	-7,356.36	2,255.44	8,660.92	8,639.02	21.91	395.355	
4,200.00	4,013.05	1,318.00	1,291.87	21.47	5.90	120.33	-7,364.60	2,257.27	8,715.35	8,692.81	22.54	386.663	
4,300.00	4,103.52	1,350.25	1,322.45	22.25	6.10	120.42	-7,374.58	2,259.54	8,770.30	8,747.11	23.20	378.085	
4,400.00	4,193.99	1,378.00	1,348.72	23.03	6.27	120.50	-7,383.28	2,261.56	8,825.77	8,801.94	23.83	370.385	
4,500.00	4,284.47	1,412.64	1,381.47	23.81	6.49	120.61	-7,394.28	2,264.23	8,881.74	8,857.24	24.49	362.606	
4,600.00	4,374.94	1,466.00	1,431.75	24.60	6.83	120.76	-7,411.53	2,268.75	8,938.29	8,913.03	25.25	353.937	
4,700.00	4,465.41	1,466.00	1,431.75	25.39	6.83	120.76	-7,411.53	2,268.75	8,995.20	8,969.46	25.74	349.521	
4,800.00	4,555.88	1,466.00	1,431.75	26.18	6.83	120.76	-7,411.53	2,268.75	9,052.85	9,026.64	26.21	345.370	
4,900.00	4,646.36	1,507.14	1,470.36	26.97	7.11	120.88	-7,425.26	2,272.41	9,110.86	9,083.95	26.90	338.667	
5,000.00	4,736.83	1,553.00	1,513.16	27.76	7.42	121.01	-7,441.23	2,276.44	9,169.73	9,142.11	27.62	332.053	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,827.30	1,553.00	1,513.16	28.55	7.42	121.01	-7,441.23	2,276.44	9,228.83	9,200.75	28.08	328.685	
5,200.00	4,917.77	1,553.00	1,513.16	29.35	7.42	121.01	-7,441.23	2,276.44	9,288.64	9,260.10	28.53	325.518	
5,300.00	5,008.25	1,584.98	1,542.87	30.15	7.64	121.10	-7,452.74	2,279.16	9,348.95	9,319.79	29.16	320.572	
5,400.00	5,098.72	1,606.94	1,563.22	30.94	7.80	121.16	-7,460.81	2,280.94	9,409.78	9,380.05	29.73	316.480	
5,500.00	5,189.19	1,640.00	1,593.77	31.74	8.03	121.26	-7,473.18	2,283.48	9,471.13	9,440.77	30.36	311.959	
5,600.00	5,279.67	1,640.00	1,593.77	32.54	8.03	121.26	-7,473.18	2,283.48	9,532.94	9,502.14	30.80	309.533	
5,700.00	5,370.14	1,685.22	1,635.43	33.34	8.36	121.39	-7,490.46	2,286.74	9,595.14	9,563.65	31.49	304.725	
5,800.00	5,460.61	1,728.00	1,674.74	34.14	8.67	121.52	-7,507.08	2,289.64	9,657.79	9,625.63	32.16	300.289	
5,900.00	5,551.08	2,451.66	2,348.33	34.94	13.78	123.52	-7,766.23	2,337.31	9,718.84	9,682.14	36.70	264.815	
6,000.00	5,641.56	2,654.28	2,539.76	35.75	15.12	124.06	-7,831.87	2,347.23	9,776.70	9,738.43	38.26	255.510	
6,100.00	5,732.03	2,688.00	2,571.72	36.55	15.34	124.15	-7,842.56	2,348.52	9,833.81	9,794.91	38.90	252.785	
6,200.00	5,822.50	2,728.36	2,609.92	37.35	15.60	124.26	-7,855.48	2,350.27	9,891.31	9,851.73	39.58	249.937	
6,300.00	5,912.97	2,775.00	2,653.91	38.16	15.91	124.38	-7,870.71	2,353.04	9,949.40	9,909.12	40.28	246.997	
8,600.00	7,630.00	7,926.00	7,646.41	45.11	39.60	-89.64	-8,783.95	2,476.85	9,967.94	9,898.21	69.73	142.948	
8,700.00	7,630.00	7,926.00	7,646.41	44.56	39.60	-89.64	-8,783.95	2,476.85	9,868.36	9,798.71	69.65	141.681	
8,800.00	7,630.00	7,926.00	7,646.41	44.05	39.60	-89.64	-8,783.95	2,476.85	9,768.78	9,699.21	69.57	140.412	
8,900.00	7,630.00	7,926.00	7,646.41	43.57	39.60	-89.64	-8,783.95	2,476.85	9,669.21	9,599.72	69.49	139.142	
9,000.00	7,630.00	7,926.00	7,646.41	43.12	39.60	-89.64	-8,783.95	2,476.85	9,569.65	9,500.24	69.41	137.869	
9,100.00	7,630.00	7,926.00	7,646.41	42.70	39.60	-89.64	-8,783.95	2,476.85	9,470.10	9,400.77	69.33	136.594	
9,200.00	7,630.00	7,926.00	7,646.41	42.31	39.60	-89.64	-8,783.95	2,476.85	9,370.55	9,301.31	69.25	135.318	
9,300.00	7,630.00	7,926.00	7,646.41	41.94	39.60	-89.64	-8,783.95	2,476.85	9,271.02	9,201.86	69.17	134.039	
9,400.00	7,630.00	7,926.00	7,646.41	41.59	39.60	-89.64	-8,783.95	2,476.85	9,171.50	9,102.42	69.08	132.758	
9,500.00	7,630.00	7,926.00	7,646.41	41.26	39.60	-89.64	-8,783.95	2,476.85	9,071.99	9,002.99	69.00	131.475	
9,600.00	7,630.00	7,926.00	7,646.41	40.96	39.60	-89.64	-8,783.95	2,476.85	8,972.49	8,903.57	68.92	130.190	
9,700.00	7,630.00	7,926.00	7,646.41	40.68	39.60	-89.64	-8,783.95	2,476.85	8,873.00	8,804.16	68.83	128.903	
9,800.00	7,630.00	7,926.00	7,646.41	40.42	39.60	-89.64	-8,783.95	2,476.85	8,773.52	8,704.77	68.75	127.614	
9,900.00	7,630.00	7,926.00	7,646.41	40.17	39.60	-89.64	-8,783.95	2,476.85	8,674.05	8,605.39	68.67	126.322	
10,000.00	7,630.00	7,926.00	7,646.41	39.96	39.60	-89.64	-8,783.95	2,476.85	8,574.60	8,506.02	68.58	125.029	
10,100.00	7,630.00	7,926.00	7,646.41	40.05	39.60	-89.64	-8,783.95	2,476.85	8,475.16	8,406.66	68.50	123.733	
10,200.00	7,630.00	7,926.00	7,646.41	40.95	39.60	-89.64	-8,783.95	2,476.85	8,375.73	8,307.32	68.41	122.435	
10,300.00	7,630.00	7,926.00	7,646.41	41.94	39.60	-89.64	-8,783.95	2,476.85	8,276.32	8,207.99	68.32	121.134	
10,400.00	7,630.00	7,926.00	7,646.41	42.98	39.60	-89.64	-8,783.95	2,476.85	8,176.92	8,108.68	68.24	119.832	
10,500.00	7,630.00	7,926.00	7,646.41	44.06	39.60	-89.64	-8,783.95	2,476.85	8,077.53	8,009.38	68.15	118.527	
10,600.00	7,630.00	7,926.00	7,646.41	45.17	39.60	-89.64	-8,783.95	2,476.85	7,978.17	7,910.10	68.06	117.219	
10,700.00	7,630.00	7,926.00	7,646.41	46.32	39.60	-89.64	-8,783.95	2,476.85	7,878.81	7,810.84	67.97	115.909	
10,800.00	7,630.00	7,926.00	7,646.41	47.50	39.60	-89.64	-8,783.95	2,476.85	7,779.48	7,711.59	67.89	114.596	
10,900.00	7,630.00	7,926.00	7,646.41	48.70	39.60	-89.64	-8,783.95	2,476.85	7,680.16	7,612.36	67.80	113.281	
11,000.00	7,630.00	7,926.00	7,646.41	49.94	39.60	-89.64	-8,783.95	2,476.85	7,580.85	7,513.15	67.71	111.963	
11,100.00	7,630.00	7,926.00	7,646.41	51.20	39.60	-89.64	-8,783.95	2,476.85	7,481.57	7,413.95	67.62	110.642	
11,200.00	7,630.00	7,926.00	7,646.41	52.48	39.60	-89.64	-8,783.95	2,476.85	7,382.31	7,314.78	67.53	109.318	
11,300.00	7,630.00	7,926.00	7,646.41	53.79	39.60	-89.64	-8,783.95	2,476.85	7,283.07	7,215.62	67.44	107.992	
11,400.00	7,630.00	7,926.00	7,646.41	55.12	39.60	-89.64	-8,783.95	2,476.85	7,183.84	7,116.49	67.35	106.662	
11,500.00	7,630.00	7,926.00	7,646.41	56.46	39.60	-89.64	-8,783.95	2,476.85	7,084.64	7,017.38	67.26	105.329	
11,600.00	7,630.00	7,926.00	7,646.41	57.83	39.60	-89.64	-8,783.95	2,476.85	6,985.47	6,918.29	67.17	103.993	
11,700.00	7,630.00	7,926.00	7,646.41	59.22	39.60	-89.64	-8,783.95	2,476.85	6,886.31	6,819.23	67.08	102.653	
11,800.00	7,630.00	7,926.00	7,646.41	60.62	39.60	-89.64	-8,783.95	2,476.85	6,787.18	6,720.19	66.99	101.310	
11,900.00	7,630.00	7,926.00	7,646.41	62.04	39.60	-89.64	-8,783.95	2,476.85	6,688.08	6,621.17	66.91	99.962	
12,000.00	7,630.00	7,926.00	7,646.41	63.48	39.60	-89.64	-8,783.95	2,476.85	6,589.00	6,522.19	66.82	98.611	
12,100.00	7,630.00	7,926.00	7,646.41	64.93	39.60	-89.64	-8,783.95	2,476.85	6,489.96	6,423.22	66.73	97.256	
12,200.00	7,630.00	7,926.00	7,646.41	66.39	39.60	-89.64	-8,783.95	2,476.85	6,390.94	6,324.29	66.64	95.896	
12,300.00	7,630.00	7,926.00	7,646.41	67.86	39.60	-89.64	-8,783.95	2,476.85	6,291.95	6,225.39	66.56	94.532	
12,400.00	7,630.00	7,926.00	7,646.41	69.35	39.60	-89.64	-8,783.95	2,476.85	6,193.00	6,126.52	66.47	93.163	

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 43-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,500.00	7,630.00	7,926.00	7,646.41	70.85	39.60	-89.64	-8,783.95	2,476.85	6,094.08	6,027.68	66.39	91.789	
12,600.00	7,630.00	7,926.00	7,646.41	72.36	39.60	-89.64	-8,783.95	2,476.85	5,995.19	5,928.88	66.31	90.410	
12,700.00	7,630.00	7,926.00	7,646.41	73.88	39.60	-89.64	-8,783.95	2,476.85	5,896.34	5,830.11	66.23	89.025	
12,800.00	7,630.00	7,926.00	7,646.41	75.41	39.60	-89.64	-8,783.95	2,476.85	5,797.54	5,731.38	66.16	87.633	
12,900.00	7,630.00	7,926.00	7,646.41	76.95	39.60	-89.64	-8,783.95	2,476.85	5,698.77	5,632.69	66.08	86.236	
13,000.00	7,630.00	7,926.00	7,646.41	78.49	39.60	-89.64	-8,783.95	2,476.85	5,600.05	5,534.04	66.01	84.832	
13,100.00	7,630.00	7,926.00	7,646.41	80.05	39.60	-89.64	-8,783.95	2,476.85	5,501.37	5,435.43	65.95	83.420	
13,200.00	7,630.00	7,926.00	7,646.41	81.61	39.60	-89.64	-8,783.95	2,476.85	5,402.75	5,336.86	65.89	82.001	
13,300.00	7,630.00	7,926.00	7,646.41	83.18	39.60	-89.64	-8,783.95	2,476.85	5,304.17	5,238.34	65.83	80.574	
13,400.00	7,630.00	7,926.00	7,646.41	84.76	39.60	-89.64	-8,783.95	2,476.85	5,205.65	5,139.87	65.78	79.138	
13,500.00	7,630.00	7,926.00	7,646.41	86.34	39.60	-89.64	-8,783.95	2,476.85	5,107.19	5,041.45	65.74	77.693	
13,600.00	7,630.00	7,926.00	7,646.41	87.94	39.60	-89.64	-8,783.95	2,476.85	5,008.78	4,943.09	65.70	76.239	
13,700.00	7,630.00	7,926.00	7,646.41	89.53	39.60	-89.64	-8,783.95	2,476.85	4,910.45	4,844.78	65.67	74.774	
13,800.00	7,630.00	7,926.00	7,646.41	91.13	39.60	-89.64	-8,783.95	2,476.85	4,812.18	4,746.52	65.65	73.297	
13,900.00	7,630.00	7,926.00	7,646.41	92.74	39.60	-89.64	-8,783.95	2,476.85	4,713.98	4,648.33	65.65	71.809	
14,000.00	7,630.00	7,926.00	7,646.41	94.35	39.60	-89.64	-8,783.95	2,476.85	4,615.86	4,550.21	65.65	70.309	
14,100.00	7,630.00	7,926.00	7,646.41	95.97	39.60	-89.64	-8,783.95	2,476.85	4,517.82	4,452.15	65.67	68.795	
14,200.00	7,630.00	7,926.00	7,646.41	97.60	39.60	-89.64	-8,783.95	2,476.85	4,419.87	4,354.17	65.71	67.267	
14,300.00	7,630.00	7,926.00	7,646.41	99.22	39.60	-89.64	-8,783.95	2,476.85	4,322.02	4,256.26	65.76	65.724	
14,400.00	7,630.00	7,926.00	7,646.41	100.85	39.60	-89.64	-8,783.95	2,476.85	4,224.26	4,158.43	65.83	64.165	
14,500.00	7,630.00	7,926.00	7,646.41	102.49	39.60	-89.64	-8,783.95	2,476.85	4,126.62	4,060.68	65.93	62.589	
14,600.00	7,630.00	7,926.00	7,646.41	104.13	39.60	-89.64	-8,783.95	2,476.85	4,029.08	3,963.03	66.06	60.995	
14,700.00	7,630.00	7,926.00	7,646.41	105.77	39.60	-89.64	-8,783.95	2,476.85	3,931.68	3,865.47	66.21	59.382	
14,800.00	7,630.00	7,926.00	7,646.41	107.42	39.60	-89.64	-8,783.95	2,476.85	3,834.40	3,768.01	66.40	57.750	
14,900.00	7,630.00	7,926.00	7,646.41	109.07	39.60	-89.64	-8,783.95	2,476.85	3,737.27	3,670.65	66.62	56.098	
15,000.00	7,630.00	7,926.00	7,646.41	110.72	39.60	-89.64	-8,783.95	2,476.85	3,640.30	3,573.41	66.89	54.425	
15,100.00	7,630.00	7,926.00	7,646.41	112.38	39.60	-89.64	-8,783.95	2,476.85	3,543.49	3,476.29	67.20	52.730	
15,200.00	7,630.00	7,926.00	7,646.41	114.04	39.60	-89.64	-8,783.95	2,476.85	3,446.87	3,379.30	67.57	51.013	
15,300.00	7,630.00	7,926.00	7,646.41	115.71	39.60	-89.64	-8,783.95	2,476.85	3,350.44	3,282.44	68.00	49.273	
15,400.00	7,630.00	7,926.00	7,646.41	117.37	39.60	-89.64	-8,783.95	2,476.85	3,254.23	3,185.73	68.49	47.511	
15,500.00	7,630.00	7,918.96	7,639.37	119.04	39.59	-89.20	-8,783.94	2,476.77	3,158.24	3,089.22	69.02	45.759	
15,600.00	7,630.00	7,919.02	7,639.43	120.71	39.59	-89.20	-8,783.94	2,476.77	3,062.53	2,992.85	69.68	43.953	
15,700.00	7,630.00	7,919.08	7,639.49	122.39	39.59	-89.20	-8,783.94	2,476.77	2,967.09	2,896.66	70.43	42.126	
15,800.00	7,630.00	7,919.14	7,639.55	124.06	39.59	-89.21	-8,783.94	2,476.77	2,871.97	2,800.67	71.30	40.281	
15,900.00	7,630.00	7,919.20	7,639.61	125.74	39.59	-89.21	-8,783.94	2,476.77	2,777.18	2,704.90	72.28	38.421	
16,000.00	7,630.00	7,919.26	7,639.68	127.42	39.59	-89.22	-8,783.94	2,476.77	2,682.78	2,609.37	73.41	36.547	
16,100.00	7,630.00	7,919.33	7,639.74	129.10	39.59	-89.22	-8,783.94	2,476.77	2,588.80	2,514.12	74.68	34.665	
16,200.00	7,630.00	7,919.39	7,639.80	130.79	39.59	-89.22	-8,783.94	2,476.77	2,495.28	2,419.15	76.13	32.778	
16,300.00	7,630.00	7,919.46	7,639.87	132.48	39.59	-89.23	-8,783.94	2,476.77	2,402.29	2,324.52	77.77	30.892	
16,400.00	7,630.00	7,919.52	7,639.93	134.17	39.59	-89.23	-8,783.94	2,476.78	2,309.88	2,230.26	79.62	29.012	
16,500.00	7,630.00	7,919.59	7,640.00	135.86	39.59	-89.24	-8,783.94	2,476.78	2,218.13	2,136.42	81.71	27.147	
16,600.00	7,630.00	7,919.65	7,640.06	137.55	39.59	-89.24	-8,783.94	2,476.78	2,127.13	2,043.06	84.07	25.302	
16,700.00	7,630.00	7,919.72	7,640.13	139.24	39.59	-89.24	-8,783.94	2,476.78	2,036.97	1,950.24	86.73	23.487	
16,800.00	7,630.00	7,919.79	7,640.20	140.94	39.59	-89.25	-8,783.94	2,476.78	1,947.77	1,858.05	89.72	21.709	
16,900.00	7,630.00	7,919.86	7,640.27	142.64	39.59	-89.25	-8,783.94	2,476.78	1,859.67	1,766.58	93.09	19.977	
17,000.00	7,630.00	7,919.93	7,640.34	144.34	39.59	-89.26	-8,783.94	2,476.78	1,772.83	1,675.96	96.87	18.301	
17,100.00	7,630.00	7,920.00	7,640.41	146.04	39.59	-89.26	-8,783.94	2,476.78	1,687.45	1,586.33	101.12	16.688	
17,200.00	7,630.00	7,920.07	7,640.48	147.74	39.59	-89.27	-8,783.94	2,476.78	1,603.76	1,497.88	105.88	15.147	
17,300.00	7,630.00	7,920.14	7,640.55	149.44	39.59	-89.27	-8,783.94	2,476.78	1,522.04	1,410.84	111.20	13.687	
17,400.00	7,630.00	7,920.21	7,640.63	151.15	39.59	-89.28	-8,783.94	2,476.78	1,442.62	1,325.49	117.14	12.316	
17,500.00	7,630.00	7,920.29	7,640.70	152.86	39.59	-89.28	-8,783.94	2,476.78	1,365.92	1,242.18	123.73	11.039	
17,600.00	7,630.00	7,920.36	7,640.77	154.56	39.59	-89.29	-8,783.94	2,476.79	1,292.40	1,161.37	131.02	9.864	

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

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 43-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,700.00	7,630.00	7,920.44	7,640.85	156.27	39.59	-89.29	-8,783.94	2,476.79	1,222.64	1,083.63	139.01	8.795	
17,800.00	7,630.00	7,920.51	7,640.93	157.98	39.59	-89.30	-8,783.94	2,476.79	1,157.33	1,009.65	147.68	7.837	
17,900.00	7,630.00	7,920.59	7,641.00	159.70	39.59	-89.30	-8,783.94	2,476.79	1,097.26	940.34	156.92	6.992	
18,000.00	7,630.00	7,920.67	7,641.08	161.41	39.59	-89.31	-8,783.94	2,476.79	1,043.33	876.75	166.57	6.263	
18,100.00	7,630.00	7,920.75	7,641.16	163.12	39.59	-89.31	-8,783.94	2,476.79	996.54	820.19	176.35	5.651	
18,154.00	7,630.00	7,920.79	7,641.20	164.05	39.59	-89.31	-8,783.94	2,476.79	974.61	793.06	181.55	5.368	CC, ES, SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	162.92	-7,119.19	2,188.01	7,447.87				
100.00	100.00	42.80	42.79	0.13	0.08	162.91	-7,119.30	2,188.43	7,448.48	7,448.28	0.20	N/A	
200.00	200.00	74.00	73.98	0.49	0.14	162.91	-7,119.52	2,189.26	7,449.98	7,449.38	0.61	N/A	
300.00	300.00	117.33	117.28	0.85	0.28	162.90	-7,120.06	2,190.87	7,452.32	7,451.20	1.12	6,641.638	
400.00	400.00	166.00	165.89	1.21	0.45	162.88	-7,121.05	2,193.03	7,455.49	7,453.83	1.66	4,499.222	
500.00	500.00	216.81	216.62	1.57	0.64	162.87	-7,122.31	2,195.71	7,459.34	7,457.14	2.20	3,386.937	
600.00	600.00	297.89	297.49	1.93	0.94	162.83	-7,124.31	2,201.01	7,463.61	7,460.75	2.86	2,609.896	
700.00	700.00	349.00	348.43	2.29	1.14	162.80	-7,125.37	2,205.07	7,468.12	7,464.71	3.41	2,191.425	
800.00	800.00	405.91	405.10	2.64	1.36	162.77	-7,126.75	2,210.15	7,473.22	7,469.24	3.98	1,876.865	
900.00	900.00	440.00	439.02	3.00	1.49	162.75	-7,127.85	2,213.42	7,479.22	7,474.75	4.47	1,673.856	
1,000.00	1,000.00	472.79	471.60	3.36	1.63	162.73	-7,129.12	2,216.86	7,486.10	7,481.15	4.95	1,511.367	
1,100.00	1,100.00	502.39	500.96	3.72	1.75	162.70	-7,130.45	2,220.34	7,493.92	7,488.50	5.42	1,381.478	
1,200.00	1,200.00	533.00	531.28	4.08	1.88	162.68	-7,132.01	2,224.31	7,502.68	7,496.78	5.90	1,271.917	
1,300.00	1,300.00	619.78	617.00	4.44	2.25	162.60	-7,136.42	2,237.08	7,511.99	7,505.38	6.61	1,136.629	
1,400.00	1,400.00	668.93	665.40	4.79	2.47	162.54	-7,138.80	2,245.24	7,521.70	7,514.53	7.17	1,048.704	
1,500.00	1,499.98	717.00	712.61	5.15	2.69	124.49	-7,141.24	2,253.95	7,533.10	7,525.37	7.73	974.568	
1,600.00	1,599.84	791.08	785.02	5.51	3.06	124.18	-7,144.79	2,269.17	7,546.97	7,538.55	8.42	896.310	
1,700.00	1,699.45	805.00	798.57	5.87	3.12	123.89	-7,145.39	2,272.30	7,563.42	7,554.59	8.83	856.337	
1,800.00	1,798.70	861.34	853.27	6.23	3.42	123.52	-7,148.10	2,285.53	7,582.38	7,572.92	9.46	801.538	
1,900.00	1,897.47	893.00	883.90	6.60	3.59	123.12	-7,149.92	2,293.32	7,604.23	7,594.26	9.97	762.665	
2,000.00	1,995.62	938.67	927.93	6.99	3.84	122.67	-7,152.71	2,305.14	7,628.69	7,618.12	10.57	721.603	
2,100.00	2,093.06	980.00	967.57	7.39	4.08	122.18	-7,155.24	2,316.55	7,655.61	7,644.44	11.16	685.905	
2,200.00	2,189.64	1,031.00	1,016.18	7.82	4.38	121.65	-7,158.50	2,331.62	7,685.06	7,673.22	11.83	649.506	
2,300.00	2,285.27	1,052.70	1,036.77	8.28	4.52	121.07	-7,159.97	2,338.32	7,716.94	7,704.58	12.36	624.368	
2,400.00	2,379.82	1,095.00	1,076.80	8.77	4.79	120.44	-7,163.03	2,351.63	7,751.26	7,738.23	13.03	594.937	
2,500.00	2,473.17	2,500.00	1,166.62	9.31	13.91	119.80	-7,170.16	2,381.36	7,787.50	7,765.79	21.71	358.724	
2,600.00	2,565.21	1,220.15	1,195.26	9.88	5.61	119.10	-7,172.55	2,390.87	7,825.71	7,811.01	14.70	532.293	
2,660.67	2,620.37	1,238.27	1,212.35	10.25	5.73	118.65	-7,174.05	2,396.72	7,850.02	7,834.90	15.11	519.443	
2,700.00	2,655.96	1,270.00	1,242.17	10.50	5.94	118.67	-7,176.79	2,407.20	7,866.18	7,850.67	15.51	507.231	
2,800.00	2,746.43	1,314.41	1,283.80	11.15	6.25	118.70	-7,180.69	2,422.15	7,907.42	7,891.11	16.31	484.908	
2,900.00	2,836.90	2,900.00	1,489.12	11.82	17.58	118.84	-7,197.01	2,497.10	7,947.64	7,920.46	27.18	292.431	
3,000.00	2,927.37	1,585.85	1,537.95	12.50	8.18	118.86	-7,200.47	2,515.38	7,987.68	7,968.47	19.21	415.811	
3,100.00	3,017.85	1,646.03	1,594.07	13.21	8.63	118.89	-7,204.80	2,536.68	8,028.26	8,008.08	20.18	397.807	
3,200.00	3,108.32	1,743.19	1,684.46	13.92	9.35	118.94	-7,211.55	2,571.67	8,068.87	8,047.43	21.44	376.423	
3,300.00	3,198.79	1,827.40	1,762.75	14.64	9.99	118.97	-7,217.43	2,602.12	8,109.55	8,086.94	22.61	358.646	
3,400.00	3,289.27	1,914.64	1,843.81	15.38	10.65	119.01	-7,223.49	2,633.80	8,150.26	8,126.44	23.82	342.132	
3,500.00	3,379.74	1,968.00	1,893.34	16.12	11.06	119.03	-7,227.21	2,653.29	8,191.13	8,166.34	24.79	330.446	
3,600.00	3,470.21	2,031.23	1,951.98	16.87	11.55	119.06	-7,231.85	2,676.49	8,232.35	8,206.52	25.84	318.650	
3,700.00	3,560.68	2,102.34	2,017.88	17.62	12.10	119.08	-7,237.47	2,702.59	8,274.01	8,247.07	26.95	307.067	
3,800.00	3,651.16	2,198.64	2,107.28	18.39	12.84	119.13	-7,245.22	2,737.55	8,315.69	8,287.44	28.25	294.386	
3,900.00	3,741.63	2,257.69	2,162.23	19.15	13.30	119.15	-7,250.14	2,758.59	8,357.45	8,328.18	29.27	285.572	
4,000.00	3,832.10	2,317.00	2,217.38	19.92	13.75	119.18	-7,255.53	2,779.75	8,399.76	8,369.47	30.29	277.355	
4,100.00	3,922.57	2,431.19	2,323.43	20.69	14.63	119.24	-7,265.70	2,820.85	8,442.13	8,410.40	31.73	266.031	
4,200.00	4,013.05	2,492.00	2,379.84	21.47	15.11	119.26	-7,270.88	2,842.97	8,484.29	8,451.51	32.78	258.847	
4,300.00	4,103.52	2,542.19	2,426.44	22.25	15.50	119.28	-7,275.42	2,861.06	8,526.83	8,493.10	33.73	252.777	
4,400.00	4,193.99	2,593.61	2,474.28	23.03	15.89	119.31	-7,280.61	2,879.16	8,569.94	8,535.24	34.70	247.004	
4,500.00	4,284.47	2,710.33	2,582.87	23.81	16.79	119.37	-7,292.07	2,920.38	8,612.82	8,576.66	36.16	238.168	
4,600.00	4,374.94	2,781.70	2,649.14	24.60	17.34	119.41	-7,299.12	2,945.91	8,655.94	8,618.66	37.29	232.142	
4,700.00	4,465.41	2,876.78	2,737.17	25.39	18.09	119.44	-7,308.21	2,980.68	8,699.04	8,660.43	38.61	225.299	
4,800.00	4,555.88	3,017.49	2,867.55	26.18	19.20	119.50	-7,321.59	3,031.88	8,742.13	8,701.83	40.30	216.914	
4,900.00	4,646.36	3,115.77	2,958.86	26.97	19.96	119.55	-7,330.58	3,067.11	8,784.66	8,743.01	41.65	210.918	
5,000.00	4,736.83	3,176.13	3,014.67	27.76	20.44	119.57	-7,335.94	3,089.47	8,827.34	8,784.63	42.71	206.694	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,827.30	3,298.64	3,128.07	28.55	21.42	119.61	-7,346.89	3,134.50	8,869.95	8,825.68	44.27	200.351	
5,200.00	4,917.77	3,365.00	3,189.48	29.35	21.94	119.64	-7,352.88	3,158.91	8,912.66	8,867.28	45.38	196.419	
5,300.00	5,008.25	3,401.67	3,223.35	30.15	22.24	119.65	-7,356.31	3,172.55	8,955.72	8,909.49	46.24	193.696	
5,400.00	5,098.72	3,452.00	3,269.86	30.94	22.64	119.67	-7,361.30	3,191.12	8,999.24	8,952.03	47.21	190.633	
5,500.00	5,189.19	3,499.00	3,313.33	31.74	23.01	119.68	-7,366.24	3,208.29	9,043.16	8,995.02	48.14	187.843	
5,600.00	5,279.67	5,600.00	3,496.06	32.54	39.96	119.76	-7,386.24	3,281.17	9,087.00	9,022.88	64.12	141.718	
5,700.00	5,370.14	3,768.18	3,561.93	33.34	25.18	119.78	-7,392.68	3,308.04	9,130.01	9,078.50	51.51	177.257	
5,800.00	5,460.61	3,802.00	3,593.04	34.14	25.45	119.79	-7,395.85	3,320.91	9,173.49	9,121.15	52.34	175.255	
5,900.00	5,551.08	5,401.99	5,133.28	34.94	34.63	121.43	-7,483.93	3,714.44	9,206.04	9,143.21	62.83	146.534	
6,000.00	5,641.56	5,804.94	5,535.84	35.75	35.58	122.32	-7,491.98	3,726.80	9,232.28	9,167.71	64.57	142.984	
6,100.00	5,732.03	5,924.59	5,655.49	36.55	35.82	122.59	-7,493.35	3,727.48	9,258.08	9,192.56	65.52	141.298	
6,200.00	5,822.50	6,095.06	5,825.95	37.35	36.17	122.98	-7,494.30	3,728.05	9,283.45	9,216.86	66.59	139.410	
6,300.00	5,912.97	6,185.96	5,916.85	38.16	36.34	123.19	-7,494.58	3,727.94	9,308.60	9,241.13	67.47	137.968	
6,400.00	6,003.45	6,343.70	6,074.59	38.96	36.64	123.55	-7,494.71	3,727.14	9,333.66	9,265.17	68.49	136.272	
6,500.00	6,093.92	6,497.10	6,227.98	39.77	36.94	123.89	-7,493.32	3,726.68	9,357.92	9,288.41	69.51	134.625	
6,600.00	6,184.39	6,609.08	6,339.95	40.57	37.16	124.14	-7,491.88	3,726.38	9,382.04	9,311.60	70.44	133.185	
6,700.00	6,274.87	6,724.74	6,455.60	41.38	37.40	124.40	-7,490.04	3,726.29	9,406.06	9,334.67	71.39	131.755	
6,800.00	6,365.34	6,854.66	6,585.49	42.18	37.68	124.68	-7,487.45	3,726.54	9,429.91	9,357.54	72.37	130.293	
6,900.00	6,455.81	6,971.26	6,702.05	42.99	37.93	124.92	-7,484.58	3,726.89	9,453.48	9,380.15	73.33	128.915	
7,000.00	6,546.28	7,047.46	6,778.22	43.80	38.10	125.08	-7,482.63	3,727.40	9,477.19	9,402.99	74.20	127.733	
7,100.00	6,636.76	7,124.68	6,855.41	44.61	38.27	125.24	-7,480.70	3,728.26	9,501.15	9,426.09	75.06	126.581	
7,200.00	6,727.23	7,214.87	6,945.57	45.41	38.48	125.43	-7,478.46	3,729.49	9,525.29	9,449.33	75.96	125.393	
7,300.00	6,817.70	7,305.15	7,035.82	46.22	38.69	125.61	-7,476.19	3,730.86	9,549.56	9,472.69	76.87	124.237	
7,383.79	6,893.51	7,350.13	7,080.77	46.90	38.81	125.70	-7,475.14	3,731.63	9,570.12	9,492.57	77.54	123.416	
7,400.00	6,908.25	7,359.63	7,090.27	47.03	38.83	123.46	-7,474.93	3,731.80	9,573.91	9,496.24	77.68	123.256	
7,450.00	6,954.52	7,389.42	7,120.04	47.40	38.90	114.77	-7,474.30	3,732.36	9,582.95	9,504.87	78.07	122.741	
7,500.00	7,001.74	7,419.76	7,150.37	47.72	38.98	102.79	-7,473.71	3,732.97	9,587.88	9,509.42	78.46	122.201	
7,550.00	7,049.55	7,468.00	7,198.60	47.99	39.10	87.42	-7,472.87	3,734.02	9,588.72	9,509.85	78.87	121.570	
7,600.00	7,097.58	7,468.00	7,198.60	48.21	39.10	70.11	-7,472.87	3,734.02	9,585.38	9,506.25	79.13	121.140	
7,650.00	7,145.48	7,512.65	7,243.22	48.37	39.21	53.89	-7,472.19	3,735.08	9,577.92	9,498.44	79.48	120.506	
7,700.00	7,192.88	7,543.52	7,274.08	48.48	39.29	40.68	-7,471.77	3,735.86	9,566.41	9,486.64	79.76	119.934	
7,750.00	7,239.41	7,573.83	7,304.38	48.54	39.37	30.65	-7,471.41	3,736.67	9,550.90	9,470.89	80.02	119.362	
7,800.00	7,284.72	7,603.36	7,333.90	48.56	39.45	23.11	-7,471.10	3,737.50	9,531.52	9,451.28	80.24	118.790	
7,850.00	7,328.47	7,643.00	7,373.52	48.54	39.56	17.28	-7,470.75	3,738.67	9,508.41	9,427.94	80.46	118.170	
7,900.00	7,370.32	7,660.75	7,391.26	48.47	39.60	12.56	-7,470.62	3,739.21	9,481.69	9,401.09	80.60	117.640	
7,950.00	7,409.96	7,689.07	7,419.57	48.37	39.68	8.55	-7,470.43	3,740.06	9,451.59	9,370.85	80.74	117.059	
8,000.00	7,447.08	7,715.63	7,446.11	48.24	39.75	4.91	-7,470.29	3,740.86	9,418.32	9,337.46	80.86	116.483	
8,050.00	7,481.41	7,740.21	7,470.69	48.07	39.82	1.38	-7,470.19	3,741.60	9,382.11	9,301.17	80.94	115.914	
8,100.00	7,512.67	7,762.64	7,493.10	47.87	39.88	-2.29	-7,470.13	3,742.27	9,343.23	9,262.24	81.00	115.351	
8,150.00	7,540.64	7,782.74	7,513.20	47.65	39.93	-6.39	-7,470.08	3,742.87	9,301.98	9,220.95	81.03	114.798	
8,200.00	7,565.09	7,800.35	7,530.80	47.40	39.98	-11.31	-7,470.06	3,743.40	9,258.65	9,177.62	81.03	114.255	
8,250.00	7,585.85	7,817.00	7,547.44	47.14	40.03	-17.62	-7,470.05	3,743.89	9,213.57	9,132.55	81.02	113.717	
8,300.00	7,602.75	7,839.19	7,569.62	46.86	40.09	-26.27	-7,470.04	3,744.54	9,167.07	9,086.06	81.01	113.157	
8,350.00	7,615.67	7,858.73	7,589.15	46.58	40.14	-38.54	-7,470.02	3,745.09	9,119.50	9,038.52	80.98	112.611	
8,400.00	7,624.51	7,872.00	7,602.41	46.28	40.18	-55.55	-7,470.01	3,745.46	9,071.22	8,990.30	80.92	112.095	
8,450.00	7,629.19	7,878.94	7,609.36	45.98	40.19	-76.22	-7,469.99	3,745.65	9,022.62	8,941.78	80.84	111.611	
8,481.00	7,630.00	7,880.07	7,610.48	45.79	40.20	-88.90	-7,469.99	3,745.68	8,992.49	8,911.72	80.78	111.327	
8,500.00	7,630.00	7,880.02	7,610.43	45.68	40.20	-88.90	-7,469.99	3,745.68	8,974.05	8,893.32	80.73	111.158	
8,600.00	7,630.00	7,879.73	7,610.14	45.11	40.20	-88.89	-7,469.99	3,745.67	8,877.04	8,796.53	80.51	110.262	
8,700.00	7,630.00	7,879.44	7,609.86	44.56	40.20	-88.88	-7,469.99	3,745.66	8,780.10	8,699.81	80.28	109.364	
8,800.00	7,630.00	7,879.16	7,609.58	44.05	40.20	-88.88	-7,469.99	3,745.65	8,683.22	8,603.16	80.06	108.463	
8,900.00	7,630.00	7,878.88	7,609.30	43.57	40.19	-88.87	-7,469.99	3,745.65	8,586.41	8,506.58	79.83	107.560	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,000.00	7,630.00	7,878.60	7,609.02	43.12	40.19	-88.86	-7,469.99	3,745.64	8,489.68	8,410.08	79.60	106.653	
9,100.00	7,630.00	7,878.33	7,608.74	42.70	40.19	-88.86	-7,469.99	3,745.63	8,393.03	8,313.66	79.37	105.743	
9,200.00	7,630.00	7,878.05	7,608.47	42.31	40.19	-88.85	-7,470.00	3,745.62	8,296.45	8,217.31	79.14	104.829	
9,300.00	7,630.00	7,877.78	7,608.20	41.94	40.19	-88.84	-7,470.00	3,745.62	8,199.96	8,121.05	78.91	103.911	
9,400.00	7,630.00	7,877.51	7,607.93	41.59	40.19	-88.83	-7,470.00	3,745.61	8,103.55	8,024.87	78.68	102.990	
9,500.00	7,630.00	7,877.25	7,607.66	41.26	40.19	-88.83	-7,470.00	3,745.60	8,007.23	7,928.78	78.45	102.063	
9,600.00	7,630.00	7,876.98	7,607.40	40.96	40.19	-88.82	-7,470.00	3,745.60	7,911.00	7,832.78	78.22	101.132	
9,700.00	7,630.00	7,876.72	7,607.13	40.68	40.19	-88.81	-7,470.00	3,745.59	7,814.87	7,736.87	78.00	100.196	
9,800.00	7,630.00	7,876.46	7,606.87	40.42	40.19	-88.81	-7,470.00	3,745.58	7,718.83	7,641.06	77.77	99.254	
9,900.00	7,630.00	7,876.20	7,606.61	40.17	40.19	-88.80	-7,470.00	3,745.57	7,622.90	7,545.36	77.54	98.307	
10,000.00	7,630.00	7,875.94	7,606.36	39.96	40.19	-88.79	-7,470.00	3,745.57	7,527.07	7,449.75	77.32	97.352	
10,100.00	7,630.00	7,875.69	7,606.10	40.05	40.19	-88.79	-7,470.00	3,745.56	7,431.35	7,354.26	77.10	96.391	
10,200.00	7,630.00	7,875.43	7,605.85	40.95	40.19	-88.78	-7,470.00	3,745.55	7,335.75	7,258.87	76.88	95.423	
10,300.00	7,630.00	7,875.18	7,605.60	41.94	40.18	-88.77	-7,470.00	3,745.55	7,240.26	7,163.60	76.66	94.446	
10,400.00	7,630.00	7,874.93	7,605.35	42.98	40.18	-88.77	-7,470.00	3,745.54	7,144.90	7,068.45	76.45	93.460	
10,500.00	7,630.00	7,874.69	7,605.10	44.06	40.18	-88.76	-7,470.00	3,745.53	7,049.67	6,973.43	76.24	92.465	
10,600.00	7,630.00	7,874.44	7,604.86	45.17	40.18	-88.75	-7,470.00	3,745.53	6,954.57	6,878.53	76.04	91.460	
10,700.00	7,630.00	7,874.20	7,604.61	46.32	40.18	-88.75	-7,470.00	3,745.52	6,859.61	6,783.76	75.84	90.445	
10,800.00	7,630.00	7,873.96	7,604.37	47.50	40.18	-88.74	-7,470.00	3,745.51	6,764.79	6,689.14	75.65	89.417	
10,900.00	7,630.00	7,873.72	7,604.13	48.70	40.18	-88.73	-7,470.00	3,745.51	6,670.13	6,594.66	75.47	88.377	
11,000.00	7,630.00	7,873.48	7,603.89	49.94	40.18	-88.73	-7,470.00	3,745.50	6,575.62	6,500.32	75.30	87.324	
11,100.00	7,630.00	7,873.24	7,603.66	51.20	40.18	-88.72	-7,470.00	3,745.49	6,481.28	6,406.14	75.14	86.256	
11,200.00	7,630.00	7,873.01	7,603.42	52.48	40.18	-88.71	-7,470.00	3,745.49	6,387.12	6,312.13	74.99	85.173	
11,300.00	7,630.00	7,872.77	7,603.19	53.79	40.18	-88.71	-7,470.00	3,745.48	6,293.13	6,218.27	74.85	84.074	
11,400.00	7,630.00	7,872.54	7,602.96	55.12	40.18	-88.70	-7,470.00	3,745.47	6,199.33	6,124.60	74.73	82.957	
11,500.00	7,630.00	7,872.31	7,602.73	56.46	40.18	-88.70	-7,470.01	3,745.47	6,105.72	6,031.10	74.62	81.822	
11,600.00	7,630.00	7,872.08	7,602.50	57.83	40.18	-88.69	-7,470.01	3,745.46	6,012.33	5,937.79	74.53	80.667	
11,700.00	7,630.00	7,871.86	7,602.28	59.22	40.18	-88.68	-7,470.01	3,745.46	5,919.14	5,844.68	74.46	79.492	
11,800.00	7,630.00	7,871.63	7,602.05	60.62	40.17	-88.68	-7,470.01	3,745.45	5,826.19	5,751.77	74.41	78.295	
11,900.00	7,630.00	7,871.41	7,601.83	62.04	40.17	-88.67	-7,470.01	3,745.44	5,733.47	5,659.08	74.39	77.075	
12,000.00	7,630.00	7,871.19	7,601.61	63.48	40.17	-88.67	-7,470.01	3,745.44	5,641.00	5,566.61	74.39	75.831	
12,100.00	7,630.00	7,870.97	7,601.39	64.93	40.17	-88.66	-7,470.01	3,745.43	5,548.79	5,474.37	74.42	74.562	
12,200.00	7,630.00	7,870.75	7,601.17	66.39	40.17	-88.65	-7,470.01	3,745.43	5,456.86	5,382.38	74.48	73.267	
12,300.00	7,630.00	7,870.53	7,600.95	67.86	40.17	-88.65	-7,470.01	3,745.42	5,365.21	5,290.64	74.57	71.946	
12,400.00	7,630.00	7,870.32	7,600.74	69.35	40.17	-88.64	-7,470.01	3,745.41	5,273.87	5,199.17	74.70	70.597	
12,500.00	7,630.00	7,870.10	7,600.52	70.85	40.17	-88.64	-7,470.01	3,745.41	5,182.85	5,107.97	74.87	69.220	
12,600.00	7,630.00	7,869.89	7,600.31	72.36	40.17	-88.63	-7,470.01	3,745.40	5,092.16	5,017.07	75.09	67.816	
12,700.00	7,630.00	7,869.68	7,600.10	73.88	40.17	-88.63	-7,470.01	3,745.40	5,001.83	4,926.48	75.35	66.384	
12,800.00	7,630.00	7,869.47	7,599.89	75.41	40.17	-88.62	-7,470.01	3,745.39	4,911.88	4,836.22	75.66	64.923	
12,900.00	7,630.00	7,869.26	7,599.68	76.95	40.17	-88.62	-7,470.01	3,745.39	4,822.31	4,746.30	76.02	63.435	
13,000.00	7,630.00	7,869.06	7,599.48	78.49	40.17	-88.61	-7,470.01	3,745.38	4,733.17	4,656.73	76.44	61.921	
13,100.00	7,630.00	7,868.85	7,599.27	80.05	40.17	-88.60	-7,470.01	3,745.37	4,644.47	4,567.55	76.92	60.381	
13,200.00	7,630.00	7,868.65	7,599.07	81.61	40.17	-88.60	-7,470.01	3,745.37	4,556.24	4,478.78	77.46	58.818	
13,300.00	7,630.00	7,868.45	7,598.87	83.18	40.17	-88.59	-7,470.01	3,745.36	4,468.51	4,390.43	78.08	57.232	
13,400.00	7,630.00	7,868.25	7,598.67	84.76	40.17	-88.59	-7,470.01	3,745.36	4,381.29	4,302.53	78.76	55.627	
13,500.00	7,630.00	7,868.05	7,598.47	86.34	40.17	-88.58	-7,470.01	3,745.35	4,294.64	4,215.12	79.52	54.005	
13,600.00	7,630.00	7,867.85	7,598.27	87.94	40.16	-88.58	-7,470.01	3,745.35	4,208.58	4,128.21	80.37	52.368	
13,700.00	7,630.00	7,867.65	7,598.07	89.53	40.16	-88.57	-7,470.01	3,745.34	4,123.15	4,041.86	81.29	50.720	
13,800.00	7,630.00	7,867.46	7,597.88	91.13	40.16	-88.57	-7,470.01	3,745.34	4,038.39	3,956.08	82.31	49.065	
13,900.00	7,630.00	7,867.26	7,597.68	92.74	40.16	-88.56	-7,470.01	3,745.33	3,954.33	3,870.92	83.41	47.406	
14,000.00	7,630.00	7,867.07	7,597.49	94.35	40.16	-88.56	-7,470.01	3,745.32	3,871.04	3,786.42	84.62	45.747	
14,100.00	7,630.00	7,866.88	7,597.30	95.97	40.16	-88.55	-7,470.01	3,745.32	3,788.56	3,702.64	85.92	44.093	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,200.00	7,630.00	7,866.69	7,597.11	97.60	40.16	-88.55	-7,470.01	3,745.31	3,706.94	3,619.61	87.33	42.447	
14,300.00	7,630.00	7,866.50	7,596.92	99.22	40.16	-88.54	-7,470.01	3,745.31	3,626.23	3,537.39	88.85	40.814	
14,400.00	7,630.00	7,866.31	7,596.73	100.85	40.16	-88.54	-7,470.01	3,745.30	3,546.52	3,456.04	90.47	39.199	
14,500.00	7,630.00	7,866.12	7,596.54	102.49	40.16	-88.53	-7,470.01	3,745.30	3,467.85	3,375.63	92.22	37.605	
14,600.00	7,630.00	7,865.94	7,596.36	104.13	40.16	-88.53	-7,470.01	3,745.29	3,390.31	3,296.23	94.08	36.036	
14,700.00	7,630.00	7,865.76	7,596.17	105.77	40.16	-88.52	-7,470.02	3,745.29	3,313.97	3,217.90	96.07	34.497	
14,800.00	7,630.00	7,865.57	7,595.99	107.42	40.16	-88.52	-7,470.02	3,745.28	3,238.92	3,140.74	98.17	32.991	
14,900.00	7,630.00	7,865.39	7,595.81	109.07	40.16	-88.51	-7,470.02	3,745.28	3,165.25	3,064.84	100.41	31.523	
15,000.00	7,630.00	7,865.21	7,595.63	110.72	40.16	-88.51	-7,470.02	3,745.27	3,093.06	2,990.28	102.78	30.094	
15,100.00	7,630.00	7,865.03	7,595.45	112.38	40.16	-88.50	-7,470.02	3,745.27	3,022.45	2,917.17	105.28	28.709	
15,200.00	7,630.00	7,864.85	7,595.27	114.04	40.16	-88.50	-7,470.02	3,745.26	2,953.54	2,845.63	107.91	27.371	
15,300.00	7,630.00	7,864.68	7,595.10	115.71	40.16	-88.49	-7,470.02	3,745.26	2,886.45	2,775.78	110.67	26.081	
15,400.00	7,630.00	7,864.50	7,594.92	117.37	40.16	-88.49	-7,470.02	3,745.25	2,821.31	2,707.74	113.57	24.842	
15,500.00	7,630.00	7,864.32	7,594.74	119.04	40.16	-88.48	-7,470.02	3,745.25	2,758.26	2,641.67	116.60	23.657	
15,600.00	7,630.00	7,864.15	7,594.57	120.71	40.15	-88.48	-7,470.02	3,745.24	2,697.45	2,577.70	119.75	22.526	
15,700.00	7,630.00	7,863.98	7,594.40	122.39	40.15	-88.48	-7,470.02	3,745.24	2,639.02	2,516.00	123.02	21.452	
15,800.00	7,630.00	7,863.81	7,594.23	124.06	40.15	-88.47	-7,470.02	3,745.23	2,583.14	2,456.73	126.41	20.434	
15,900.00	7,630.00	7,863.64	7,594.06	125.74	40.15	-88.47	-7,470.02	3,745.23	2,529.98	2,400.08	129.91	19.475	
16,000.00	7,630.00	7,863.47	7,593.89	127.42	40.15	-88.46	-7,470.02	3,745.23	2,479.72	2,346.23	133.50	18.575	
16,100.00	7,630.00	7,863.30	7,593.72	129.10	40.15	-88.46	-7,470.02	3,745.22	2,432.53	2,295.37	137.17	17.734	
16,200.00	7,630.00	7,863.13	7,593.55	130.79	40.15	-88.45	-7,470.02	3,745.22	2,388.60	2,247.71	140.90	16.953	
16,300.00	7,630.00	7,862.96	7,593.39	132.48	40.15	-88.45	-7,470.02	3,745.21	2,348.11	2,203.44	144.68	16.230	
16,400.00	7,630.00	7,862.80	7,593.22	134.17	40.15	-88.44	-7,470.02	3,745.21	2,311.24	2,162.76	148.48	15.566	
16,500.00	7,630.00	7,862.63	7,593.06	135.86	40.15	-88.44	-7,470.02	3,745.20	2,278.16	2,125.89	152.27	14.961	
16,600.00	7,630.00	7,862.47	7,592.89	137.55	40.15	-88.44	-7,470.02	3,745.20	2,249.05	2,093.01	156.04	14.413	
16,700.00	7,630.00	7,862.31	7,592.73	139.24	40.15	-88.43	-7,470.02	3,745.19	2,224.06	2,064.32	159.74	13.923	
16,800.00	7,630.00	7,862.15	7,592.57	140.94	40.15	-88.43	-7,470.02	3,745.19	2,203.33	2,039.97	163.36	13.488	
16,900.00	7,630.00	7,861.99	7,592.41	142.64	40.15	-88.42	-7,470.02	3,745.18	2,186.97	2,020.12	166.85	13.108	
17,000.00	7,630.00	7,861.83	7,592.25	144.34	40.15	-88.42	-7,470.02	3,745.18	2,175.10	2,004.91	170.18	12.781	
17,100.00	7,630.00	7,861.67	7,592.09	146.04	40.15	-88.41	-7,470.02	3,745.18	2,167.77	1,994.44	173.33	12.506	
17,200.00	7,630.00	7,861.51	7,591.93	147.74	40.15	-88.41	-7,470.02	3,745.17	2,165.05	1,988.78	176.27	12.283	
17,208.99	7,630.00	7,861.50	7,591.92	147.89	40.15	-88.41	-7,470.02	3,745.17	2,165.03	1,988.51	176.52	12.265	CC
17,300.00	7,630.00	7,861.36	7,591.78	149.44	40.15	-88.41	-7,470.02	3,745.17	2,166.95	1,987.98	178.97	12.108	ES
17,400.00	7,630.00	7,861.20	7,591.62	151.15	40.15	-88.40	-7,470.02	3,745.16	2,173.44	1,992.04	181.41	11.981	
17,500.00	7,630.00	7,861.05	7,591.47	152.86	40.15	-88.40	-7,470.02	3,745.16	2,184.50	2,000.93	183.57	11.900	
17,600.00	7,630.00	7,860.89	7,591.31	154.56	40.15	-88.39	-7,470.02	3,745.15	2,200.06	2,014.61	185.45	11.863	SF
17,700.00	7,630.00	7,860.74	7,591.16	156.27	40.15	-88.39	-7,470.02	3,745.15	2,220.01	2,032.97	187.05	11.869	
17,800.00	7,630.00	7,860.59	7,591.01	157.98	40.15	-88.39	-7,470.02	3,745.15	2,244.25	2,055.90	188.35	11.915	
17,900.00	7,630.00	7,860.44	7,590.86	159.70	40.14	-88.38	-7,470.02	3,745.14	2,272.63	2,083.25	189.38	12.000	
18,000.00	7,630.00	7,860.29	7,590.71	161.41	40.14	-88.38	-7,470.02	3,745.14	2,305.01	2,114.87	190.14	12.123	
18,100.00	7,630.00	7,860.14	7,590.56	163.12	40.14	-88.37	-7,470.02	3,745.13	2,341.21	2,150.56	190.65	12.280	
18,154.00	7,630.00	7,860.06	7,590.48	164.05	40.14	-88.37	-7,470.02	3,745.13	2,362.29	2,171.47	190.82	12.380	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	161.58	-5,370.27	1,788.48	5,660.26				
100.00	100.00	50.62	50.62	0.13	0.08	161.58	-5,370.51	1,788.36	5,660.59	5,660.38	0.21	N/A	
200.00	200.00	158.85	158.83	0.49	0.39	161.60	-5,371.97	1,787.36	5,661.61	5,660.73	0.88	6,450.806	
300.00	300.00	253.42	253.39	0.85	0.72	161.61	-5,372.88	1,786.13	5,662.12	5,660.54	1.57	3,595.068	
400.00	400.00	347.65	347.61	1.21	1.06	161.63	-5,374.05	1,784.90	5,662.88	5,660.61	2.27	2,492.047	
500.00	500.00	410.84	410.78	1.57	1.29	161.64	-5,375.10	1,783.79	5,663.93	5,661.08	2.86	1,980.830	
600.00	600.00	456.00	455.90	1.93	1.46	161.66	-5,376.36	1,782.49	5,665.78	5,662.40	3.38	1,675.557	
700.00	700.00	512.71	512.52	2.29	1.67	161.69	-5,378.65	1,780.28	5,668.47	5,664.52	3.95	1,435.772	
800.00	800.00	549.00	548.72	2.64	1.80	161.71	-5,380.57	1,778.56	5,672.12	5,667.68	4.44	1,277.769	
900.00	900.00	602.79	602.32	3.00	2.01	161.75	-5,384.06	1,775.66	5,676.70	5,671.71	5.00	1,135.864	
1,000.00	1,000.00	640.00	639.35	3.36	2.15	161.78	-5,386.94	1,773.46	5,682.31	5,676.82	5.49	1,034.412	
1,100.00	1,100.00	689.92	688.96	3.72	2.34	161.82	-5,391.41	1,770.25	5,688.90	5,682.86	6.04	941.855	
1,200.00	1,200.00	732.00	730.72	4.08	2.51	161.86	-5,395.72	1,767.28	5,696.47	5,689.92	6.56	868.915	
1,300.00	1,300.00	775.37	773.68	4.44	2.69	161.91	-5,400.68	1,763.96	5,705.05	5,697.97	7.08	805.756	
1,400.00	1,400.00	825.00	822.72	4.79	2.89	161.97	-5,407.06	1,759.81	5,714.66	5,707.03	7.63	749.065	
1,500.00	1,499.98	862.15	859.34	5.15	3.06	124.03	-5,412.30	1,756.41	5,726.20	5,718.07	8.13	704.253	
1,600.00	1,599.84	919.00	915.21	5.51	3.30	123.90	-5,421.04	1,750.63	5,740.65	5,731.94	8.71	658.785	
1,700.00	1,699.45	960.14	955.52	5.87	3.49	123.70	-5,427.85	1,746.02	5,757.87	5,748.63	9.24	623.240	
1,800.00	1,798.70	1,012.00	1,006.19	6.23	3.74	123.50	-5,436.90	1,739.71	5,777.78	5,767.97	9.81	588.842	
1,900.00	1,897.47	1,055.43	1,048.48	6.60	3.95	123.25	-5,444.97	1,733.94	5,800.46	5,790.10	10.36	559.725	
2,000.00	1,995.62	1,106.00	1,097.48	6.99	4.20	122.99	-5,455.08	1,726.59	5,826.01	5,815.05	10.95	531.965	
2,100.00	2,093.06	1,204.44	1,192.56	7.39	4.72	122.90	-5,475.32	1,711.11	5,853.93	5,842.13	11.80	496.174	
2,200.00	2,189.64	1,232.00	1,219.14	7.82	4.86	122.49	-5,481.13	1,706.72	5,884.17	5,871.86	12.31	478.058	
2,300.00	2,285.27	1,270.75	1,256.50	8.28	5.07	122.08	-5,489.54	1,700.84	5,917.21	5,904.33	12.89	459.121	
2,400.00	2,379.82	1,367.90	1,350.43	8.77	5.59	121.90	-5,510.59	1,687.67	5,952.71	5,938.94	13.78	432.136	
2,500.00	2,473.17	1,497.09	1,475.72	9.31	6.28	121.85	-5,537.31	1,670.98	5,989.52	5,974.68	14.84	403.594	
2,600.00	2,565.21	1,548.42	1,525.41	9.88	6.56	121.41	-5,548.01	1,663.84	6,028.34	6,012.79	15.55	387.734	
2,660.67	2,620.37	1,584.00	1,559.79	10.25	6.75	121.14	-5,555.59	1,658.69	6,053.04	6,037.03	16.01	378.066	
2,700.00	2,655.96	1,584.00	1,559.79	10.50	6.75	121.14	-5,555.59	1,658.69	6,069.43	6,053.23	16.20	374.762	
2,800.00	2,746.43	1,641.16	1,614.93	11.15	7.07	121.47	-5,568.09	1,650.28	6,111.55	6,094.58	16.97	360.146	
2,900.00	2,836.90	1,691.77	1,663.67	11.82	7.36	121.75	-5,579.48	1,642.82	6,154.51	6,136.79	17.72	347.347	
3,000.00	2,927.37	1,907.65	1,872.25	12.50	8.56	122.93	-5,626.10	1,612.45	6,197.58	6,178.25	19.33	320.544	
3,100.00	3,017.85	2,116.11	2,074.91	13.21	9.67	124.02	-5,665.62	1,583.79	6,238.51	6,217.61	20.90	298.554	
3,200.00	3,108.32	2,176.06	2,133.28	13.92	9.99	124.33	-5,676.47	1,575.48	6,279.35	6,257.65	21.71	289.279	
3,300.00	3,198.79	2,216.76	2,172.83	14.64	10.21	124.54	-5,684.10	1,569.67	6,320.98	6,298.55	22.42	281.897	
3,400.00	3,289.27	2,258.71	2,213.53	15.38	10.44	124.76	-5,692.23	1,563.58	6,363.40	6,340.25	23.15	274.936	
3,500.00	3,379.74	2,303.06	2,256.57	16.12	10.68	124.98	-5,701.01	1,557.47	6,406.58	6,382.70	23.88	268.300	
3,600.00	3,470.21	2,381.84	2,333.07	16.87	11.11	125.38	-5,716.84	1,547.30	6,450.41	6,425.63	24.79	260.227	
3,700.00	3,560.68	3,700.00	2,458.30	17.62	18.17	126.01	-5,741.80	1,530.25	6,493.89	6,462.41	31.47	206.335	
3,800.00	3,651.16	2,579.67	2,525.45	18.39	12.17	126.34	-5,754.93	1,521.24	6,537.51	6,510.70	26.81	243.880	
3,900.00	3,741.63	2,635.15	2,579.34	19.15	12.47	126.61	-5,765.78	1,513.80	6,581.79	6,554.20	27.59	238.560	
4,000.00	3,832.10	4,000.00	2,796.13	19.92	19.56	127.67	-5,807.74	1,484.26	6,626.24	6,591.83	34.40	192.612	
4,100.00	3,922.57	3,060.38	2,994.35	20.69	14.67	128.57	-5,840.46	1,459.47	6,668.21	6,637.49	30.73	217.009	
4,200.00	4,013.05	3,084.00	3,017.53	21.47	14.79	128.68	-5,844.10	1,456.72	6,710.49	6,679.14	31.34	214.105	
4,300.00	4,103.52	3,132.39	3,064.96	22.25	15.03	128.89	-5,851.87	1,451.10	6,753.43	6,721.36	32.07	210.562	
4,400.00	4,193.99	3,178.00	3,109.56	23.03	15.26	129.09	-5,859.80	1,445.79	6,797.43	6,764.64	32.79	207.323	
4,500.00	4,284.47	3,192.48	3,123.70	23.81	15.33	129.15	-5,862.43	1,444.10	6,842.14	6,808.80	33.34	205.220	
4,600.00	4,374.94	3,239.84	3,169.91	24.60	15.58	129.35	-5,871.16	1,438.51	6,887.59	6,853.53	34.06	202.246	
4,700.00	4,465.41	3,295.25	3,223.91	25.39	15.87	129.59	-5,881.64	1,431.80	6,933.63	6,898.82	34.81	199.187	
4,800.00	4,555.88	3,367.90	3,294.55	26.18	16.26	129.91	-5,895.56	1,422.10	6,980.06	6,944.40	35.65	195.781	
4,900.00	4,646.36	3,409.78	3,335.20	26.97	16.49	130.10	-5,903.73	1,416.23	7,026.97	6,990.64	36.33	193.406	
5,000.00	4,736.83	3,459.00	3,382.94	27.76	16.76	130.31	-5,913.58	1,409.41	7,074.52	7,037.47	37.05	190.960	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,827.30	3,459.00	3,382.94	28.55	16.76	130.31	-5,913.58	1,409.41	7,122.85	7,085.36	37.49	189.993	
5,200.00	4,917.77	3,501.75	3,424.34	29.35	17.00	130.50	-5,922.55	1,403.60	7,171.82	7,133.66	38.16	187.950	
5,300.00	5,008.25	3,553.00	3,473.82	30.15	17.29	130.72	-5,934.05	1,396.89	7,221.88	7,183.01	38.87	185.806	
5,400.00	5,098.72	3,553.00	3,473.82	30.94	17.29	130.72	-5,934.05	1,396.89	7,272.36	7,233.07	39.29	185.097	
5,500.00	5,189.19	5,304.89	5,197.25	31.74	24.64	136.57	-6,138.55	1,267.52	7,318.64	7,271.24	47.40	154.391	
5,600.00	5,279.67	5,395.54	5,287.89	32.54	24.86	136.78	-6,138.46	1,268.22	7,350.97	7,302.77	48.20	152.513	
5,700.00	5,370.14	5,521.51	5,413.86	33.34	25.16	137.08	-6,137.81	1,269.17	7,383.02	7,333.92	49.10	150.371	
5,800.00	5,460.61	5,634.23	5,526.58	34.14	25.43	137.34	-6,136.83	1,269.79	7,414.83	7,364.87	49.96	148.409	
5,900.00	5,551.08	5,749.47	5,641.81	34.94	25.70	137.61	-6,135.49	1,270.10	7,446.47	7,395.64	50.84	146.478	
6,000.00	5,641.56	5,864.28	5,756.60	35.75	25.98	137.87	-6,133.76	1,270.52	7,477.90	7,426.19	51.71	144.607	
6,100.00	5,732.03	5,973.02	5,865.33	36.55	26.25	138.12	-6,131.83	1,270.71	7,509.18	7,456.61	52.57	142.839	
6,200.00	5,822.50	6,066.02	5,958.31	37.35	26.48	138.33	-6,130.05	1,270.66	7,540.42	7,487.04	53.38	141.247	
6,300.00	5,912.97	6,167.41	6,059.68	38.16	26.74	138.56	-6,128.07	1,270.33	7,571.72	7,517.49	54.23	139.632	
6,400.00	6,003.45	6,274.78	6,167.03	38.96	27.02	138.80	-6,125.77	1,269.94	7,602.94	7,547.85	55.09	138.016	
6,500.00	6,093.92	6,364.04	6,256.26	39.77	27.25	139.00	-6,123.77	1,269.60	7,634.17	7,578.27	55.89	136.587	
6,600.00	6,184.39	6,486.48	6,378.66	40.57	27.56	139.27	-6,120.78	1,269.04	7,665.30	7,608.49	56.80	134.947	
6,700.00	6,274.87	6,583.87	6,476.02	41.38	27.81	139.49	-6,118.13	1,268.81	7,696.27	7,638.64	57.63	133.542	
6,800.00	6,365.34	6,660.44	6,552.56	42.18	28.01	139.65	-6,116.11	1,269.02	7,727.42	7,669.03	58.39	132.333	
6,900.00	6,455.81	6,730.76	6,622.86	42.99	28.19	139.80	-6,114.43	1,269.34	7,758.88	7,699.74	59.13	131.209	
7,000.00	6,546.28	6,818.81	6,710.89	43.80	28.43	139.98	-6,112.48	1,269.76	7,790.58	7,730.65	59.93	129.993	
7,100.00	6,636.76	6,894.62	6,786.68	44.61	28.63	140.14	-6,110.86	1,270.08	7,822.44	7,761.75	60.69	128.896	
7,200.00	6,727.23	6,988.56	6,880.60	45.41	28.88	140.34	-6,109.01	1,270.41	7,854.53	7,793.03	61.50	127.708	
7,300.00	6,817.70	7,085.19	6,977.21	46.22	29.13	140.53	-6,106.97	1,271.14	7,886.58	7,824.25	62.33	126.533	
7,383.79	6,893.51	7,167.43	7,059.42	46.90	29.35	140.70	-6,105.22	1,271.85	7,913.47	7,850.45	63.02	125.565	
7,400.00	6,908.25	7,184.43	7,076.42	47.03	29.40	138.37	-6,104.84	1,272.00	7,918.46	7,855.30	63.16	125.371	
7,450.00	6,954.52	7,229.97	7,121.94	47.40	29.52	129.47	-6,103.83	1,272.44	7,931.04	7,867.48	63.56	124.782	
7,500.00	7,001.74	7,268.49	7,160.45	47.72	29.62	117.38	-6,103.01	1,272.83	7,939.43	7,875.50	63.93	124.191	
7,550.00	7,049.55	7,308.34	7,200.30	47.99	29.73	101.98	-6,102.20	1,273.27	7,943.57	7,879.28	64.29	123.550	
7,600.00	7,097.58	7,372.74	7,264.68	48.21	29.91	84.87	-6,100.87	1,274.04	7,943.35	7,878.62	64.73	122.719	
7,650.00	7,145.48	7,444.85	7,336.76	48.37	30.10	68.91	-6,099.20	1,275.05	7,938.68	7,873.52	65.17	121.818	
7,700.00	7,192.88	7,512.29	7,404.16	48.48	30.28	56.10	-6,097.43	1,276.27	7,929.56	7,863.99	65.57	120.929	
7,750.00	7,239.41	7,560.76	7,452.61	48.54	30.41	46.57	-6,096.12	1,277.37	7,916.17	7,850.28	65.89	120.138	
7,800.00	7,284.72	7,606.84	7,498.65	48.56	30.53	39.67	-6,094.86	1,278.59	7,898.64	7,832.45	66.18	119.342	
7,850.00	7,328.47	7,649.70	7,541.47	48.54	30.65	34.66	-6,093.69	1,279.88	7,877.12	7,810.67	66.45	118.545	
7,900.00	7,370.32	7,692.92	7,584.66	48.47	30.76	30.99	-6,092.53	1,281.31	7,851.77	7,785.07	66.70	117.724	
7,950.00	7,409.96	7,744.71	7,636.40	48.37	30.90	28.32	-6,091.07	1,283.04	7,822.74	7,755.78	66.96	116.831	
8,000.00	7,447.08	7,792.85	7,684.49	48.24	31.03	26.37	-6,089.65	1,284.58	7,790.24	7,723.04	67.19	115.942	
8,050.00	7,481.41	7,802.75	7,694.38	48.07	31.06	24.89	-6,089.39	1,284.84	7,754.62	7,687.33	67.28	115.251	
8,100.00	7,512.67	7,820.34	7,711.96	47.87	31.10	23.91	-6,088.92	1,285.29	7,716.14	7,648.75	67.39	114.497	
8,150.00	7,540.64	7,836.01	7,727.62	47.65	31.15	23.37	-6,088.52	1,285.64	7,675.09	7,607.61	67.48	113.737	
8,200.00	7,565.09	7,849.65	7,741.26	47.40	31.18	23.28	-6,088.20	1,285.92	7,631.76	7,564.20	67.55	112.972	
8,250.00	7,585.85	8,100.81	7,992.05	47.14	31.85	25.48	-6,078.59	1,294.32	7,586.09	7,517.68	68.41	110.894	
8,300.00	7,602.75	8,110.54	8,001.76	46.86	31.88	27.50	-6,078.08	1,294.80	7,538.66	7,470.20	68.46	110.118	
8,350.00	7,615.67	8,117.57	8,008.78	46.58	31.90	31.90	-6,077.71	1,295.14	7,490.07	7,421.57	68.50	109.346	
8,400.00	7,624.51	8,121.85	8,013.04	46.28	31.91	43.55	-6,077.50	1,295.35	7,440.67	7,372.14	68.53	108.579	
8,450.00	7,629.19	8,123.31	8,014.50	45.98	31.91	91.39	-6,077.42	1,295.42	7,390.84	7,322.29	68.55	107.822	
8,481.00	7,630.00	8,122.79	8,013.98	45.79	31.91	143.48	-6,077.45	1,295.39	7,359.89	7,291.33	68.55	107.357	
8,500.00	7,630.00	8,122.14	8,013.33	45.68	31.91	143.43	-6,077.48	1,295.36	7,340.93	7,272.37	68.56	107.075	
8,600.00	7,630.00	8,118.67	8,009.88	45.11	31.90	143.17	-6,077.66	1,295.19	7,241.15	7,172.57	68.58	105.584	
8,700.00	7,630.00	8,115.18	8,006.39	44.56	31.89	142.91	-6,077.84	1,295.03	7,141.38	7,072.77	68.61	104.093	
8,800.00	7,630.00	8,111.66	8,002.88	44.05	31.88	142.64	-6,078.02	1,294.85	7,041.61	6,972.98	68.63	102.600	
8,900.00	7,630.00	8,108.10	7,999.33	43.57	31.87	142.36	-6,078.21	1,294.68	6,941.84	6,873.18	68.66	101.105	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,000.00	7,630.00	8,104.52	7,995.75	43.12	31.86	142.08	-6,078.39	1,294.50	6,842.08	6,773.39	68.69	99.610	
9,100.00	7,630.00	8,100.90	7,992.14	42.70	31.85	141.79	-6,078.58	1,294.33	6,742.32	6,673.60	68.72	98.113	
9,200.00	7,630.00	8,097.25	7,988.50	42.31	31.85	141.50	-6,078.78	1,294.15	6,642.57	6,573.82	68.75	96.615	
9,300.00	7,630.00	8,093.56	7,984.83	41.94	31.84	141.20	-6,078.97	1,293.96	6,542.82	6,474.03	68.79	95.116	
9,400.00	7,630.00	8,089.84	7,981.12	41.59	31.83	140.90	-6,079.17	1,293.78	6,443.07	6,374.25	68.82	93.617	
9,500.00	7,630.00	9,500.00	7,922.31	41.26	35.57	135.55	-6,082.10	1,291.10	6,343.33	6,270.25	73.09	86.791	
9,600.00	7,630.00	9,600.00	7,917.77	40.96	35.84	135.10	-6,082.30	1,290.91	6,243.56	6,170.12	73.44	85.018	
9,700.00	7,630.00	9,700.00	7,913.24	40.68	36.11	134.64	-6,082.51	1,290.73	6,143.78	6,069.99	73.79	83.260	
9,800.00	7,630.00	7,872.00	7,763.60	40.42	31.24	115.32	-6,087.69	1,286.30	6,044.06	5,975.89	68.17	88.656	
9,900.00	7,630.00	7,872.00	7,763.60	40.17	31.24	115.32	-6,087.69	1,286.30	5,944.22	5,875.99	68.23	87.126	
10,000.00	7,630.00	7,872.00	7,763.60	39.96	31.24	115.32	-6,087.69	1,286.30	5,844.37	5,776.09	68.28	85.595	
10,100.00	7,630.00	7,872.00	7,763.60	40.05	31.24	115.32	-6,087.69	1,286.30	5,744.54	5,676.20	68.34	84.064	
10,200.00	7,630.00	7,872.00	7,763.60	40.95	31.24	115.32	-6,087.69	1,286.30	5,644.71	5,576.31	68.39	82.532	
10,300.00	7,630.00	7,860.18	7,751.78	41.94	31.21	113.43	-6,087.95	1,286.11	5,544.86	5,476.46	68.40	81.062	
10,400.00	7,630.00	7,858.71	7,750.32	42.98	31.21	113.19	-6,087.99	1,286.08	5,445.04	5,376.58	68.46	79.536	
10,500.00	7,630.00	7,857.23	7,748.83	44.06	31.20	112.95	-6,088.02	1,286.06	5,345.22	5,276.70	68.52	78.009	
10,600.00	7,630.00	7,855.73	7,747.33	45.17	31.20	112.70	-6,088.05	1,286.03	5,245.41	5,176.83	68.58	76.482	
10,700.00	7,630.00	7,854.21	7,745.81	46.32	31.20	112.45	-6,088.09	1,286.00	5,145.60	5,076.96	68.65	74.954	
10,800.00	7,630.00	7,852.67	7,744.28	47.50	31.19	112.20	-6,088.13	1,285.98	5,045.81	4,977.09	68.72	73.426	
10,900.00	7,630.00	7,851.11	7,742.72	48.70	31.19	111.94	-6,088.16	1,285.95	4,946.02	4,877.22	68.79	71.898	
11,000.00	7,630.00	7,849.54	7,741.15	49.94	31.18	111.68	-6,088.20	1,285.92	4,846.23	4,777.37	68.87	70.369	
11,100.00	7,630.00	7,847.95	7,739.55	51.20	31.18	111.41	-6,088.24	1,285.89	4,746.46	4,677.51	68.95	68.840	
11,200.00	7,630.00	7,846.33	7,737.94	52.48	31.17	111.14	-6,088.27	1,285.85	4,646.70	4,577.66	69.03	67.310	
11,300.00	7,630.00	7,844.70	7,736.31	53.79	31.17	110.87	-6,088.31	1,285.82	4,546.94	4,477.82	69.12	65.780	
11,400.00	7,630.00	7,843.05	7,734.66	55.12	31.17	110.59	-6,088.35	1,285.79	4,447.19	4,377.98	69.22	64.250	
11,500.00	7,630.00	7,841.38	7,732.99	56.46	31.16	110.31	-6,088.39	1,285.76	4,347.46	4,278.14	69.32	62.720	
11,600.00	7,630.00	7,839.68	7,731.30	57.83	31.16	110.02	-6,088.43	1,285.72	4,247.74	4,178.32	69.42	61.190	
11,700.00	7,630.00	7,837.97	7,729.58	59.22	31.15	109.73	-6,088.47	1,285.69	4,148.03	4,078.50	69.53	59.660	
11,800.00	7,630.00	7,836.23	7,727.85	60.62	31.15	109.44	-6,088.52	1,285.65	4,048.33	3,978.68	69.64	58.130	
11,900.00	7,630.00	7,834.48	7,726.09	62.04	31.14	109.13	-6,088.56	1,285.61	3,948.64	3,878.88	69.76	56.599	
12,000.00	7,630.00	7,832.69	7,724.31	63.48	31.14	108.83	-6,088.60	1,285.57	3,848.98	3,779.08	69.89	55.069	
12,100.00	7,630.00	7,830.89	7,722.51	64.93	31.13	108.52	-6,088.65	1,285.53	3,749.32	3,679.29	70.03	53.539	
12,200.00	7,630.00	7,829.07	7,720.68	66.39	31.13	108.20	-6,088.70	1,285.49	3,649.69	3,579.52	70.17	52.009	
12,300.00	7,630.00	7,827.22	7,718.83	67.86	31.12	107.88	-6,088.74	1,285.45	3,550.08	3,479.75	70.33	50.480	
12,400.00	7,630.00	7,825.34	7,716.96	69.35	31.12	107.55	-6,088.79	1,285.41	3,450.48	3,379.99	70.49	48.950	
12,500.00	7,630.00	7,823.44	7,715.06	70.85	31.11	107.22	-6,088.84	1,285.36	3,350.91	3,280.25	70.66	47.421	
12,600.00	7,630.00	7,821.52	7,713.14	72.36	31.11	106.88	-6,088.89	1,285.32	3,251.36	3,180.52	70.85	45.893	
12,700.00	7,630.00	7,819.57	7,711.19	73.88	31.10	106.54	-6,088.94	1,285.27	3,151.84	3,080.80	71.04	44.364	
12,800.00	7,630.00	7,817.59	7,709.22	75.41	31.10	106.19	-6,088.99	1,285.22	3,052.36	2,981.10	71.26	42.836	
12,900.00	7,630.00	7,815.59	7,707.22	76.95	31.09	105.83	-6,089.04	1,285.17	2,952.90	2,881.42	71.48	41.309	
13,000.00	7,630.00	7,813.56	7,705.19	78.49	31.09	105.47	-6,089.10	1,285.12	2,853.48	2,781.75	71.73	39.783	
13,100.00	7,630.00	7,811.50	7,703.13	80.05	31.08	105.11	-6,089.15	1,285.07	2,754.10	2,682.11	71.99	38.257	
13,200.00	7,630.00	7,809.42	7,701.05	81.61	31.07	104.73	-6,089.21	1,285.02	2,654.76	2,582.49	72.27	36.731	
13,300.00	7,630.00	7,807.30	7,698.94	83.18	31.07	104.35	-6,089.26	1,284.96	2,555.48	2,482.89	72.58	35.207	
13,400.00	7,630.00	7,805.16	7,696.79	84.76	31.06	103.97	-6,089.32	1,284.90	2,456.24	2,383.32	72.92	33.684	
13,500.00	7,630.00	7,802.99	7,694.62	86.34	31.06	103.57	-6,089.38	1,284.84	2,357.08	2,283.79	73.29	32.162	
13,600.00	7,630.00	7,800.78	7,692.42	87.94	31.05	103.17	-6,089.44	1,284.78	2,257.98	2,184.29	73.69	30.641	
13,700.00	7,630.00	7,798.55	7,690.18	89.53	31.04	102.77	-6,089.51	1,284.72	2,158.96	2,084.82	74.14	29.121	
13,800.00	7,630.00	7,796.28	7,687.92	91.13	31.04	102.35	-6,089.57	1,284.66	2,060.04	1,985.41	74.63	27.604	
13,900.00	7,630.00	7,793.98	7,685.62	92.74	31.03	101.93	-6,089.63	1,284.59	1,961.22	1,886.04	75.18	26.088	
14,000.00	7,630.00	7,791.64	7,683.28	94.35	31.03	101.50	-6,089.70	1,284.53	1,862.52	1,786.73	75.79	24.575	
14,100.00	7,630.00	7,789.27	7,680.92	95.97	31.02	101.07	-6,089.77	1,284.46	1,763.96	1,687.49	76.48	23.065	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 92-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,630.00	7,786.87	7,678.52	97.60	31.01	100.63	-6,089.84	1,284.39	1,665.58	1,588.32	77.26	21.559	
14,300.00	7,630.00	7,786.45	7,678.09	99.22	31.01	100.55	-6,089.84	1,284.38	1,567.38	1,489.21	78.17	20.050	
14,400.00	7,630.00	7,783.30	7,674.95	100.85	31.00	99.97	-6,089.94	1,284.28	1,469.44	1,390.25	79.19	18.556	
14,500.00	7,630.00	7,780.17	7,671.82	102.49	30.99	99.39	-6,090.03	1,284.18	1,371.79	1,291.42	80.37	17.068	
14,600.00	7,630.00	7,777.06	7,668.72	104.13	30.99	98.81	-6,090.12	1,284.08	1,274.49	1,192.74	81.75	15.590	
14,700.00	7,630.00	7,773.98	7,665.64	105.77	30.98	98.23	-6,090.22	1,283.99	1,177.64	1,094.25	83.39	14.122	
14,800.00	7,630.00	7,770.91	7,662.57	107.42	30.97	97.66	-6,090.31	1,283.89	1,081.35	996.00	85.35	12.670	
14,900.00	7,630.00	7,767.86	7,659.53	109.07	30.96	97.09	-6,090.40	1,283.79	985.79	898.06	87.73	11.237	
15,000.00	7,630.00	7,764.84	7,656.50	110.72	30.95	96.52	-6,090.49	1,283.69	891.20	800.55	90.65	9.831	
15,100.00	7,630.00	7,761.83	7,653.50	112.38	30.95	95.95	-6,090.58	1,283.60	797.92	703.62	94.30	8.462	
15,200.00	7,630.00	7,758.84	7,650.52	114.04	30.94	95.39	-6,090.66	1,283.50	706.46	607.55	98.92	7.142	
15,300.00	7,630.00	7,755.87	7,647.55	115.71	30.93	94.83	-6,090.75	1,283.40	617.65	512.81	104.84	5.891	
15,400.00	7,630.00	7,752.92	7,644.60	117.37	30.92	94.28	-6,090.84	1,283.31	532.79	420.29	112.50	4.736	
15,500.00	7,630.00	7,749.99	7,641.68	119.04	30.91	93.72	-6,090.92	1,283.21	454.13	331.82	122.31	3.713	
15,600.00	7,630.00	7,747.08	7,638.77	120.71	30.91	93.17	-6,091.01	1,283.12	385.46	251.24	134.22	2.872	
15,700.00	7,630.00	7,744.19	7,635.88	122.39	30.90	92.63	-6,091.09	1,283.02	333.03	186.64	146.39	2.275	
15,800.00	7,630.00	7,741.31	7,633.00	124.06	30.89	92.08	-6,091.17	1,282.93	305.32	151.85	153.47	1.989	
15,838.51	7,630.00	7,740.21	7,631.90	124.71	30.89	91.87	-6,091.20	1,282.89	302.89	149.51	153.38	1.975	CC, ES, SF
15,900.00	7,630.00	7,738.46	7,630.15	125.74	30.88	91.54	-6,091.25	1,282.84	309.06	159.59	149.47	2.068	
16,000.00	7,630.00	7,735.62	7,627.31	127.42	30.88	91.01	-6,091.34	1,282.74	343.22	207.19	136.03	2.523	
16,100.00	7,630.00	7,732.80	7,624.50	129.10	30.87	90.47	-6,091.42	1,282.65	400.08	279.75	120.33	3.325	
16,200.00	7,630.00	7,729.99	7,621.70	130.79	30.86	89.94	-6,091.50	1,282.56	471.50	364.67	106.83	4.414	
16,300.00	7,630.00	7,727.21	7,618.91	132.48	30.85	89.42	-6,091.57	1,282.47	551.85	455.37	96.48	5.720	
16,400.00	7,630.00	7,724.44	7,616.15	134.17	30.85	88.89	-6,091.65	1,282.37	637.78	548.92	88.86	7.178	
16,500.00	7,630.00	7,721.69	7,613.40	135.86	30.84	88.38	-6,091.73	1,282.28	727.30	644.01	83.29	8.732	
16,600.00	7,630.00	7,718.95	7,610.67	137.55	30.83	87.86	-6,091.81	1,282.19	819.23	740.02	79.22	10.342	
16,700.00	7,630.00	7,716.24	7,607.95	139.24	30.82	87.35	-6,091.88	1,282.10	912.86	836.65	76.21	11.978	
16,800.00	7,630.00	7,713.54	7,605.25	140.94	30.82	86.84	-6,091.96	1,282.01	1,007.71	933.73	73.98	13.622	
16,900.00	7,630.00	7,710.85	7,602.57	142.64	30.81	86.34	-6,092.03	1,281.92	1,103.45	1,031.15	72.31	15.261	
17,000.00	7,630.00	7,708.18	7,599.91	144.34	30.80	85.84	-6,092.11	1,281.83	1,199.89	1,128.85	71.04	16.890	
17,100.00	7,630.00	7,705.53	7,597.26	146.04	30.80	85.34	-6,092.18	1,281.74	1,296.86	1,226.78	70.08	18.505	
17,200.00	7,630.00	7,702.90	7,594.62	147.74	30.79	84.85	-6,092.25	1,281.65	1,394.25	1,324.90	69.35	20.105	
17,300.00	7,630.00	7,700.28	7,592.01	149.44	30.78	84.37	-6,092.33	1,281.56	1,491.99	1,423.20	68.79	21.689	
17,400.00	7,630.00	7,697.67	7,589.41	151.15	30.77	83.88	-6,092.40	1,281.48	1,590.00	1,521.64	68.36	23.259	
17,500.00	7,630.00	7,695.09	7,586.82	152.86	30.77	83.40	-6,092.47	1,281.39	1,688.24	1,620.20	68.03	24.816	
17,600.00	7,630.00	7,693.35	7,585.09	154.56	30.76	83.08	-6,092.52	1,281.33	1,786.66	1,718.89	67.77	26.364	
17,700.00	7,630.00	7,690.56	7,582.30	156.27	30.76	82.57	-6,092.59	1,281.24	1,885.26	1,817.67	67.59	27.895	
17,800.00	7,630.00	7,687.78	7,579.52	157.98	30.75	82.06	-6,092.67	1,281.14	1,983.99	1,916.54	67.45	29.415	
17,900.00	7,630.00	7,684.98	7,576.73	159.70	30.74	81.55	-6,092.74	1,281.04	2,082.84	2,015.48	67.35	30.925	
18,000.00	7,630.00	7,682.19	7,573.94	161.41	30.73	81.04	-6,092.82	1,280.95	2,181.79	2,114.50	67.29	32.425	
18,100.00	7,630.00	7,679.39	7,571.14	163.12	30.73	80.53	-6,092.89	1,280.85	2,280.82	2,213.58	67.25	33.918	
18,154.00	7,630.00	7,677.88	7,569.63	164.05	30.72	80.25	-6,092.93	1,280.80	2,334.34	2,267.11	67.23	34.720	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	161.62	-5,381.20	1,788.48	5,670.63				
100.00	100.00	108.60	108.60	0.13	0.20	161.62	-5,381.00	1,788.41	5,670.43	5,670.10	0.33	N/A	
177.73	177.73	170.75	170.75	0.41	0.42	161.61	-5,380.87	1,788.54	5,670.33	5,669.49	0.83	6,819.692	
200.00	200.00	185.00	185.00	0.49	0.47	161.61	-5,380.85	1,788.60	5,670.34	5,669.37	0.96	5,898.179	
300.00	300.00	226.42	226.42	0.85	0.61	161.61	-5,380.97	1,789.07	5,670.98	5,669.51	1.47	3,867.898	
400.00	400.00	274.00	273.98	1.21	0.78	161.60	-5,381.49	1,790.22	5,672.70	5,670.71	1.99	2,848.022	
500.00	500.00	305.55	305.50	1.57	0.90	161.59	-5,382.06	1,791.40	5,675.45	5,672.99	2.46	2,303.435	
600.00	600.00	365.00	364.84	1.93	1.11	161.56	-5,383.56	1,794.60	5,679.38	5,676.35	3.03	1,872.059	
700.00	700.00	365.00	364.84	2.29	1.11	161.56	-5,383.56	1,794.60	5,684.28	5,680.88	3.39	1,675.640	
800.00	800.00	419.12	418.79	2.64	1.31	161.53	-5,385.56	1,798.42	5,690.22	5,686.27	3.95	1,441.847	
900.00	900.00	456.00	455.51	3.00	1.45	161.51	-5,387.34	1,801.37	5,697.35	5,692.92	4.44	1,284.269	
1,000.00	1,000.00	495.96	495.23	3.36	1.60	161.48	-5,389.55	1,805.11	5,705.56	5,700.62	4.94	1,154.564	
1,100.00	1,100.00	549.00	547.82	3.72	1.81	161.43	-5,392.73	1,811.23	5,714.83	5,709.34	5.49	1,040.152	
1,200.00	1,200.00	549.00	547.82	4.08	1.81	161.43	-5,392.73	1,811.23	5,725.24	5,719.39	5.85	979.445	
1,300.00	1,300.00	610.75	608.86	4.44	2.07	161.37	-5,397.06	1,819.56	5,736.47	5,730.03	6.44	890.976	
1,400.00	1,400.00	640.00	637.70	4.79	2.19	161.34	-5,399.42	1,823.79	5,748.95	5,742.05	6.90	833.099	
1,500.00	1,499.98	685.95	682.93	5.15	2.40	123.24	-5,403.52	1,830.79	5,763.42	5,755.99	7.43	775.323	
1,600.00	1,599.84	732.00	728.14	5.51	2.60	122.91	-5,408.09	1,838.23	5,780.85	5,772.88	7.96	725.882	
1,700.00	1,699.45	732.00	728.14	5.87	2.60	122.55	-5,408.09	1,838.23	5,801.33	5,793.02	8.30	698.628	
1,800.00	1,798.70	791.25	786.09	6.23	2.89	122.13	-5,414.67	1,848.64	5,824.39	5,815.49	8.90	654.406	
1,900.00	1,897.47	825.00	818.97	6.60	3.05	121.67	-5,418.78	1,855.10	5,850.49	5,841.10	9.39	623.122	
2,000.00	1,995.62	861.74	854.65	6.99	3.24	121.16	-5,423.53	1,862.47	5,879.36	5,869.45	9.91	593.525	
2,100.00	2,093.06	919.00	910.05	7.39	3.54	120.62	-5,431.43	1,874.56	5,910.96	5,900.43	10.52	561.642	
2,200.00	2,189.64	947.14	937.21	7.82	3.69	120.02	-5,435.49	1,880.73	5,944.95	5,933.92	11.03	538.978	
2,300.00	2,285.27	1,013.00	1,000.65	8.28	4.05	119.40	-5,445.18	1,895.49	5,981.25	5,969.53	11.73	509.988	
2,400.00	2,379.82	1,059.39	1,045.27	8.77	4.32	118.74	-5,452.23	1,906.06	6,019.71	6,007.35	12.36	487.176	
2,500.00	2,473.17	1,106.00	1,090.05	9.31	4.58	118.03	-5,459.59	1,916.69	6,060.32	6,047.30	13.02	465.631	
2,600.00	2,565.21	1,169.96	1,151.45	9.88	4.96	117.32	-5,470.08	1,931.21	6,102.96	6,089.17	13.79	442.699	
2,660.67	2,620.37	1,200.00	1,180.27	10.25	5.13	116.86	-5,475.15	1,937.99	6,129.78	6,115.55	14.22	430.961	
2,700.00	2,655.96	1,221.47	1,200.87	10.50	5.26	116.91	-5,478.85	1,942.81	6,147.45	6,132.93	14.52	423.349	
2,800.00	2,746.43	2,800.00	1,370.43	11.15	14.41	117.36	-5,508.45	1,980.43	6,191.55	6,169.20	22.35	277.069	
2,900.00	2,836.90	1,456.70	1,427.42	11.82	6.62	117.51	-5,518.34	1,992.19	6,235.52	6,218.82	16.70	373.277	
3,000.00	2,927.37	1,490.00	1,459.56	12.50	6.81	117.60	-5,524.22	1,998.68	6,280.23	6,262.85	17.38	361.259	
3,100.00	3,017.85	1,536.02	1,503.91	13.21	7.07	117.72	-5,532.74	2,007.47	6,325.64	6,307.51	18.13	348.878	
3,200.00	3,108.32	1,584.00	1,550.10	13.92	7.35	117.85	-5,542.18	2,016.43	6,371.84	6,352.95	18.89	337.240	
3,300.00	3,198.79	1,616.17	1,581.02	14.64	7.54	117.94	-5,548.77	2,022.35	6,418.70	6,399.13	19.58	327.857	
3,400.00	3,289.27	1,678.00	1,640.39	15.38	7.90	118.12	-5,561.83	2,033.68	6,466.22	6,445.81	20.42	316.713	
3,500.00	3,379.74	1,736.91	1,696.91	16.12	8.24	118.28	-5,574.54	2,044.31	6,514.15	6,492.90	21.24	306.662	
3,600.00	3,470.21	2,196.90	2,142.73	16.87	10.76	119.60	-5,662.42	2,115.05	6,558.22	6,534.16	24.06	272.634	
3,700.00	3,560.68	2,240.00	2,184.76	17.62	10.99	119.72	-5,669.96	2,120.90	6,601.82	6,577.01	24.81	266.099	
3,800.00	3,651.16	2,342.54	2,284.69	18.39	11.52	120.01	-5,688.03	2,135.08	6,645.75	6,619.89	25.85	257.051	
3,900.00	3,741.63	2,387.55	2,328.55	19.15	11.76	120.14	-5,696.05	2,141.25	6,689.88	6,663.26	26.62	251.316	
4,000.00	3,832.10	2,460.34	2,399.44	19.92	12.14	120.35	-5,709.49	2,150.89	6,734.55	6,707.03	27.52	244.722	
4,100.00	3,922.57	2,558.31	2,494.93	20.69	12.65	120.63	-5,727.28	2,163.68	6,779.03	6,750.49	28.54	237.499	
4,200.00	4,013.05	2,615.00	2,550.12	21.47	12.95	120.78	-5,737.66	2,171.45	6,823.90	6,794.53	29.37	232.370	
4,300.00	4,103.52	2,650.97	2,585.07	22.25	13.15	120.88	-5,744.38	2,176.63	6,869.35	6,839.26	30.09	228.307	
4,400.00	4,193.99	2,709.00	2,641.30	23.03	13.47	121.03	-5,755.61	2,185.53	6,915.57	6,884.65	30.92	223.645	
4,500.00	4,284.47	2,835.15	2,763.40	23.81	14.18	121.33	-5,779.13	2,206.76	6,961.76	6,929.63	32.13	216.653	
4,600.00	4,374.94	2,904.11	2,830.24	24.60	14.56	121.50	-5,791.86	2,218.04	7,007.71	6,974.67	33.04	212.124	
4,700.00	4,465.41	2,978.68	2,902.51	25.39	14.98	121.68	-5,805.86	2,229.92	7,053.90	7,019.94	33.96	207.686	
4,800.00	4,555.88	3,078.16	2,998.94	26.18	15.53	121.92	-5,824.56	2,245.63	7,100.18	7,065.15	35.03	202.705	
4,900.00	4,646.36	3,160.11	3,078.47	26.97	15.98	122.12	-5,840.02	2,258.00	7,146.43	7,110.45	35.99	198.570	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,736.83	3,218.06	3,134.72	27.76	16.30	122.26	-5,851.16	2,266.36	7,192.94	7,156.12	36.82	195.354	
5,100.00	4,827.30	3,272.00	3,187.00	28.55	16.60	122.39	-5,861.72	2,274.36	7,239.91	7,202.28	37.63	192.416	
5,200.00	4,917.77	3,324.31	3,237.65	29.35	16.89	122.52	-5,872.18	2,282.23	7,287.33	7,248.90	38.42	189.661	
5,300.00	5,008.25	3,445.98	3,355.40	30.15	17.58	122.81	-5,896.69	2,300.63	7,335.07	7,295.47	39.61	185.203	
5,400.00	5,098.72	3,510.26	3,417.62	30.94	17.94	122.96	-5,909.26	2,310.73	7,382.45	7,341.98	40.47	182.407	
5,500.00	5,189.19	3,553.00	3,458.93	31.74	18.18	123.05	-5,917.75	2,317.67	7,430.27	7,389.05	41.21	180.282	
5,600.00	5,279.67	3,592.51	3,497.06	32.54	18.41	123.14	-5,925.80	2,324.17	7,478.66	7,436.72	41.94	178.334	
5,700.00	5,370.14	3,647.00	3,549.53	33.34	18.73	123.26	-5,937.46	2,333.11	7,527.78	7,485.04	42.74	176.120	
5,800.00	5,460.61	5,814.97	5,684.59	34.14	27.37	128.34	-6,128.33	2,512.98	7,559.77	7,507.09	52.68	143.507	
5,900.00	5,551.08	5,890.03	5,759.61	34.94	27.54	128.55	-6,126.32	2,511.89	7,584.88	7,531.34	53.53	141.688	
6,000.00	5,641.56	6,013.53	5,883.05	35.75	27.81	128.87	-6,122.82	2,510.14	7,610.00	7,555.49	54.51	139.601	
6,100.00	5,732.03	6,122.67	5,992.12	36.55	28.06	129.16	-6,119.36	2,508.63	7,634.97	7,579.52	55.46	137.678	
6,200.00	5,822.50	6,243.37	6,112.74	37.35	28.33	129.47	-6,115.13	2,507.19	7,659.82	7,603.39	56.43	135.740	
6,300.00	5,912.97	6,327.72	6,197.03	38.16	28.52	129.69	-6,111.95	2,506.24	7,684.59	7,627.28	57.31	134.094	
6,400.00	6,003.45	6,403.29	6,272.55	38.96	28.70	129.88	-6,109.26	2,505.56	7,709.69	7,651.53	58.16	132.560	
6,500.00	6,093.92	6,480.98	6,350.18	39.77	28.89	130.07	-6,106.56	2,505.22	7,735.08	7,676.06	59.02	131.059	
6,600.00	6,184.39	6,553.00	6,422.17	40.57	29.06	130.25	-6,104.14	2,505.34	7,760.80	7,700.94	59.86	129.641	
6,700.00	6,274.87	6,612.30	6,481.44	41.38	29.21	130.39	-6,102.31	2,505.68	7,786.95	7,726.28	60.67	128.346	
6,800.00	6,365.34	6,688.53	6,557.63	42.18	29.41	130.57	-6,100.23	2,506.25	7,813.55	7,752.03	61.53	126.991	
6,900.00	6,455.81	6,847.49	6,716.52	42.99	29.82	130.96	-6,095.57	2,506.46	7,840.09	7,777.46	62.63	125.180	
7,000.00	6,546.28	6,966.32	6,835.28	43.80	30.11	131.25	-6,091.41	2,505.10	7,865.96	7,802.37	63.60	123.688	
7,100.00	6,636.76	7,054.26	6,923.15	44.61	30.32	131.47	-6,088.32	2,503.49	7,891.87	7,827.40	64.47	122.419	
7,200.00	6,727.23	7,136.36	7,005.19	45.41	30.52	131.67	-6,085.49	2,502.03	7,917.97	7,852.66	65.32	121.222	
7,300.00	6,817.70	7,211.73	7,080.50	46.22	30.71	131.86	-6,083.02	2,500.68	7,944.36	7,878.21	66.15	120.099	
7,383.79	6,893.51	7,289.29	7,158.01	46.90	30.90	132.05	-6,080.53	2,499.46	7,966.64	7,899.75	66.89	119.106	
7,400.00	6,908.25	7,304.40	7,173.11	47.03	30.94	129.79	-6,080.04	2,499.27	7,970.74	7,903.71	67.03	118.915	
7,450.00	6,954.52	7,343.45	7,212.13	47.40	31.04	121.04	-6,078.78	2,498.79	7,980.62	7,913.18	67.44	118.335	
7,500.00	7,001.74	7,382.84	7,251.51	47.72	31.14	109.06	-6,077.55	2,498.27	7,986.31	7,918.47	67.84	117.717	
7,550.00	7,049.55	7,422.39	7,291.03	47.99	31.25	93.70	-6,076.36	2,497.73	7,987.76	7,919.53	68.23	117.070	
7,600.00	7,097.58	7,461.84	7,330.46	48.21	31.35	76.50	-6,075.22	2,497.15	7,984.96	7,916.36	68.60	116.404	
7,650.00	7,145.48	7,501.40	7,370.01	48.37	31.45	60.39	-6,074.12	2,496.55	7,977.93	7,908.99	68.94	115.724	
7,700.00	7,192.88	7,542.25	7,410.83	48.48	31.55	47.36	-6,073.02	2,495.89	7,966.70	7,897.44	69.26	115.028	
7,750.00	7,239.41	7,582.23	7,450.80	48.54	31.66	37.57	-6,071.99	2,495.18	7,951.35	7,881.80	69.55	114.324	
7,800.00	7,284.72	7,614.19	7,482.73	48.56	31.74	30.31	-6,071.20	2,494.59	7,932.02	7,862.22	69.80	113.647	
7,850.00	7,328.47	7,643.63	7,512.16	48.54	31.82	24.84	-6,070.52	2,494.11	7,908.86	7,838.85	70.01	112.969	
7,900.00	7,370.32	7,671.79	7,540.32	48.47	31.89	20.58	-6,069.91	2,493.68	7,882.04	7,811.84	70.20	112.284	
7,950.00	7,409.96	7,702.75	7,571.27	48.37	31.98	17.13	-6,069.28	2,493.32	7,851.75	7,781.37	70.38	111.565	
8,000.00	7,447.08	7,734.71	7,603.22	48.24	32.07	14.20	-6,068.61	2,493.24	7,818.17	7,747.62	70.55	110.824	
8,050.00	7,481.41	7,764.27	7,632.78	48.07	32.15	11.56	-6,067.97	2,493.44	7,781.55	7,710.86	70.69	110.084	
8,100.00	7,512.67	7,791.18	7,659.68	47.87	32.23	9.02	-6,067.38	2,493.86	7,742.17	7,671.36	70.80	109.348	
8,150.00	7,540.64	7,815.19	7,683.67	47.65	32.30	6.35	-6,066.83	2,494.42	7,700.31	7,629.41	70.89	108.618	
8,200.00	7,565.09	7,836.08	7,704.54	47.40	32.36	3.27	-6,066.35	2,495.05	7,656.28	7,585.33	70.96	107.897	
8,250.00	7,585.85	7,853.66	7,722.11	47.14	32.41	-0.68	-6,065.94	2,495.69	7,610.43	7,539.43	71.00	107.186	
8,300.00	7,602.75	7,867.78	7,736.21	46.86	32.45	-6.45	-6,065.61	2,496.27	7,563.09	7,492.07	71.02	106.489	
8,350.00	7,615.67	7,886.57	7,754.98	46.58	32.51	-16.27	-6,065.15	2,497.10	7,514.62	7,443.57	71.05	105.760	
8,400.00	7,624.51	7,902.21	7,770.60	46.28	32.56	-36.02	-6,064.75	2,497.79	7,465.38	7,394.31	71.07	105.046	
8,450.00	7,629.19	7,909.16	7,777.54	45.98	32.58	-74.14	-6,064.57	2,498.09	7,415.76	7,344.71	71.05	104.381	
8,481.00	7,630.00	7,909.16	7,777.54	45.79	32.58	-99.61	-6,064.57	2,498.09	7,384.97	7,313.96	71.01	103.993	
8,500.00	7,630.00	7,908.15	7,776.53	45.68	32.57	-99.55	-6,064.60	2,498.04	7,366.12	7,295.13	70.99	103.761	
8,600.00	7,630.00	7,902.94	7,771.33	45.11	32.56	-99.24	-6,064.73	2,497.82	7,266.92	7,196.05	70.87	102.539	
8,700.00	7,630.00	7,897.85	7,766.25	44.56	32.54	-98.93	-6,064.87	2,497.60	7,167.75	7,097.00	70.75	101.314	
8,800.00	7,630.00	7,892.89	7,761.30	44.05	32.53	-98.63	-6,064.99	2,497.38	7,068.59	6,997.96	70.62	100.087	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
8,900.00	7,630.00	7,888.06	7,756.46	43.57	32.51	-98.33	-6,065.11	2,497.17	6,969.46	6,898.95	70.50	98.857	
9,000.00	7,630.00	7,883.33	7,751.75	43.12	32.50	-98.04	-6,065.23	2,496.96	6,870.34	6,799.97	70.37	97.625	
9,100.00	7,630.00	7,878.72	7,747.14	42.70	32.48	-97.76	-6,065.34	2,496.76	6,771.26	6,701.01	70.25	96.391	
9,200.00	7,630.00	7,874.22	7,742.64	42.31	32.47	-97.48	-6,065.45	2,496.56	6,672.20	6,602.08	70.12	95.154	
9,300.00	7,630.00	7,870.95	7,739.38	41.94	32.46	-97.28	-6,065.53	2,496.41	6,573.16	6,503.17	70.00	93.908	
9,400.00	7,630.00	7,868.87	7,737.30	41.59	32.45	-97.15	-6,065.58	2,496.32	6,474.16	6,404.28	69.87	92.654	
9,500.00	7,630.00	7,866.78	7,735.22	41.26	32.45	-97.03	-6,065.63	2,496.23	6,375.18	6,305.43	69.75	91.399	
9,600.00	7,630.00	7,864.71	7,733.15	40.96	32.44	-96.90	-6,065.68	2,496.14	6,276.24	6,206.61	69.63	90.141	
9,700.00	7,630.00	7,862.64	7,731.08	40.68	32.44	-96.77	-6,065.73	2,496.05	6,177.33	6,107.83	69.50	88.881	
9,800.00	7,630.00	7,860.58	7,729.02	40.42	32.43	-96.64	-6,065.78	2,495.97	6,078.46	6,009.08	69.37	87.619	
9,900.00	7,630.00	7,858.53	7,726.97	40.17	32.43	-96.52	-6,065.83	2,495.88	5,979.62	5,910.37	69.24	86.355	
10,000.00	7,630.00	7,856.48	7,724.93	39.96	32.42	-96.39	-6,065.87	2,495.80	5,880.82	5,811.70	69.11	85.089	
10,100.00	7,630.00	7,854.44	7,722.89	40.05	32.41	-96.26	-6,065.92	2,495.72	5,782.06	5,713.08	68.98	83.820	
10,200.00	7,630.00	7,852.41	7,720.86	40.95	32.41	-96.14	-6,065.97	2,495.64	5,683.34	5,614.49	68.85	82.549	
10,300.00	7,630.00	7,850.38	7,718.84	41.94	32.40	-96.01	-6,066.02	2,495.57	5,584.67	5,515.96	68.71	81.276	
10,400.00	7,630.00	7,848.36	7,716.82	42.98	32.40	-95.89	-6,066.06	2,495.49	5,486.04	5,417.47	68.58	79.999	
10,500.00	7,630.00	7,846.35	7,714.81	44.06	32.39	-95.76	-6,066.11	2,495.42	5,387.47	5,319.03	68.44	78.720	
10,600.00	7,630.00	7,844.35	7,712.81	45.17	32.38	-95.64	-6,066.16	2,495.34	5,288.95	5,220.65	68.30	77.438	
10,700.00	7,630.00	7,842.35	7,710.81	46.32	32.38	-95.51	-6,066.21	2,495.27	5,190.48	5,122.32	68.16	76.153	
10,800.00	7,630.00	7,840.36	7,708.82	47.50	32.37	-95.39	-6,066.25	2,495.20	5,092.07	5,024.05	68.02	74.864	
10,900.00	7,630.00	7,838.37	7,706.84	48.70	32.37	-95.27	-6,066.30	2,495.13	4,993.72	4,925.85	67.88	73.571	
11,000.00	7,630.00	7,836.40	7,704.86	49.94	32.36	-95.14	-6,066.34	2,495.07	4,895.44	4,827.71	67.73	72.275	
11,100.00	7,630.00	7,834.43	7,702.89	51.20	32.36	-95.02	-6,066.39	2,495.00	4,797.24	4,729.64	67.59	70.975	
11,200.00	7,630.00	7,832.46	7,700.93	52.48	32.35	-94.90	-6,066.44	2,494.94	4,699.10	4,631.65	67.45	69.670	
11,300.00	7,630.00	7,830.50	7,698.97	53.79	32.34	-94.78	-6,066.48	2,494.87	4,601.04	4,533.74	67.31	68.360	
11,400.00	7,630.00	7,828.55	7,697.02	55.12	32.34	-94.66	-6,066.53	2,494.81	4,503.07	4,435.91	67.17	67.045	
11,500.00	7,630.00	7,826.61	7,695.08	56.46	32.33	-94.53	-6,066.57	2,494.75	4,405.19	4,338.17	67.03	65.724	
11,600.00	7,630.00	7,824.67	7,693.14	57.83	32.33	-94.41	-6,066.62	2,494.69	4,307.41	4,240.52	66.89	64.397	
11,700.00	7,630.00	7,822.74	7,691.21	59.22	32.32	-94.29	-6,066.66	2,494.63	4,209.73	4,142.97	66.75	63.063	
11,800.00	7,630.00	7,820.81	7,689.29	60.62	32.32	-94.17	-6,066.70	2,494.58	4,112.15	4,045.53	66.62	61.721	
11,900.00	7,630.00	7,818.89	7,687.37	62.04	32.31	-94.05	-6,066.75	2,494.52	4,014.70	3,948.20	66.50	60.372	
12,000.00	7,630.00	7,816.98	7,685.46	63.48	32.31	-93.93	-6,066.79	2,494.47	3,917.38	3,850.99	66.38	59.013	
12,100.00	7,630.00	7,815.07	7,683.56	64.93	32.30	-93.81	-6,066.84	2,494.42	3,820.19	3,753.92	66.27	57.645	
12,200.00	7,630.00	7,813.18	7,681.66	66.39	32.29	-93.69	-6,066.88	2,494.37	3,723.15	3,656.98	66.17	56.267	
12,300.00	7,630.00	7,811.28	7,679.77	67.86	32.29	-93.57	-6,066.92	2,494.32	3,626.26	3,560.18	66.08	54.876	
12,400.00	7,630.00	7,809.39	7,677.88	69.35	32.28	-93.46	-6,066.96	2,494.27	3,529.56	3,463.55	66.01	53.473	
12,500.00	7,630.00	7,807.51	7,676.00	70.85	32.28	-93.34	-6,067.01	2,494.22	3,433.03	3,367.08	65.95	52.056	
12,600.00	7,630.00	7,805.64	7,674.13	72.36	32.27	-93.22	-6,067.05	2,494.18	3,336.72	3,270.80	65.91	50.623	
12,700.00	7,630.00	7,803.77	7,672.26	73.88	32.27	-93.10	-6,067.09	2,494.13	3,240.62	3,174.72	65.90	49.173	
12,800.00	7,630.00	7,801.91	7,670.40	75.41	32.26	-92.99	-6,067.13	2,494.09	3,144.77	3,078.85	65.92	47.706	
12,900.00	7,630.00	7,800.05	7,668.54	76.95	32.26	-92.87	-6,067.18	2,494.05	3,049.18	2,983.20	65.97	46.218	
13,000.00	7,630.00	7,798.20	7,666.69	78.49	32.25	-92.75	-6,067.22	2,494.01	2,953.88	2,887.81	66.07	44.709	
13,100.00	7,630.00	7,796.36	7,664.85	80.05	32.25	-92.64	-6,067.26	2,493.97	2,858.90	2,792.69	66.21	43.177	
13,200.00	7,630.00	7,794.52	7,663.01	81.61	32.24	-92.52	-6,067.30	2,493.93	2,764.28	2,697.86	66.42	41.621	
13,300.00	7,630.00	7,792.69	7,661.18	83.18	32.24	-92.41	-6,067.34	2,493.89	2,670.04	2,603.35	66.69	40.039	
13,400.00	7,630.00	7,790.86	7,659.36	84.76	32.23	-92.29	-6,067.38	2,493.85	2,576.24	2,509.20	67.04	38.430	
13,500.00	7,630.00	7,789.04	7,657.54	86.34	32.23	-92.18	-6,067.42	2,493.82	2,482.92	2,415.44	67.48	36.794	
13,600.00	7,630.00	7,787.23	7,655.72	87.94	32.22	-92.06	-6,067.46	2,493.78	2,390.14	2,322.10	68.04	35.130	
13,700.00	7,630.00	7,785.42	7,653.92	89.53	32.22	-91.95	-6,067.50	2,493.75	2,297.96	2,229.24	68.72	33.440	
13,800.00	7,630.00	7,783.62	7,652.12	91.13	32.21	-91.84	-6,067.54	2,493.72	2,206.46	2,136.91	69.55	31.725	
13,900.00	7,630.00	7,781.82	7,650.32	92.74	32.20	-91.72	-6,067.58	2,493.69	2,115.73	2,045.18	70.55	29.988	
14,000.00	7,630.00	7,780.03	7,648.53	94.35	32.20	-91.61	-6,067.62	2,493.66	2,025.87	1,954.11	71.75	28.233	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 92-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	7,778.25	7,646.75	95.97	32.19	-91.50	-6,067.66	2,493.63	1,937.00	1,863.82	73.18	26.468	
14,200.00	7,630.00	7,776.47	7,644.97	97.60	32.19	-91.39	-6,067.70	2,493.60	1,849.27	1,774.40	74.87	24.699	
14,300.00	7,630.00	7,774.69	7,643.19	99.22	32.18	-91.27	-6,067.74	2,493.58	1,762.84	1,685.98	76.86	22.935	
14,400.00	7,630.00	7,772.93	7,641.43	100.85	32.18	-91.16	-6,067.78	2,493.55	1,677.92	1,598.73	79.18	21.190	
14,500.00	7,630.00	7,771.16	7,639.67	102.49	32.17	-91.05	-6,067.82	2,493.53	1,594.75	1,512.86	81.89	19.475	
14,600.00	7,630.00	7,769.41	7,637.91	104.13	32.17	-90.94	-6,067.86	2,493.50	1,513.61	1,428.59	85.01	17.805	
14,700.00	7,630.00	7,767.66	7,636.16	105.77	32.16	-90.83	-6,067.90	2,493.48	1,434.85	1,346.24	88.60	16.194	
14,800.00	7,630.00	7,765.91	7,634.42	107.42	32.16	-90.72	-6,067.93	2,493.46	1,358.88	1,266.18	92.70	14.658	
14,900.00	7,630.00	7,764.17	7,632.68	109.07	32.15	-90.61	-6,067.97	2,493.44	1,286.21	1,188.86	97.35	13.212	
15,000.00	7,630.00	7,762.44	7,630.94	110.72	32.15	-90.50	-6,068.01	2,493.42	1,217.41	1,114.86	102.55	11.871	
15,100.00	7,630.00	7,760.71	7,629.22	112.38	32.14	-90.39	-6,068.05	2,493.40	1,153.19	1,044.87	108.32	10.646	
15,200.00	7,630.00	7,758.99	7,627.49	114.04	32.14	-90.28	-6,068.09	2,493.38	1,094.34	979.74	114.60	9.549	
15,300.00	7,630.00	7,757.27	7,625.78	115.71	32.13	-90.18	-6,068.12	2,493.37	1,041.79	920.49	121.30	8.589	
15,400.00	7,630.00	7,755.56	7,624.06	117.37	32.13	-90.07	-6,068.16	2,493.35	996.52	868.28	128.24	7.771	
15,500.00	7,630.00	7,753.85	7,622.36	119.04	32.12	-89.96	-6,068.20	2,493.34	959.57	824.40	135.17	7.099	
15,600.00	7,630.00	7,752.15	7,620.66	120.71	32.12	-89.85	-6,068.23	2,493.32	931.93	790.17	141.76	6.574	
15,700.00	7,630.00	7,750.46	7,618.96	122.39	32.12	-89.75	-6,068.27	2,493.31	914.44	766.80	147.64	6.194	
15,800.00	7,630.00	7,748.76	7,617.27	124.06	32.11	-89.64	-6,068.31	2,493.30	907.69	755.23	152.46	5.954	
15,811.52	7,630.00	7,748.57	7,617.08	124.26	32.11	-89.63	-6,068.31	2,493.30	907.61	754.68	152.94	5.935	CC, ES
15,900.00	7,630.00	7,747.08	7,615.59	125.74	32.11	-89.53	-6,068.34	2,493.29	911.92	755.95	155.97	5.847	SF
16,000.00	7,630.00	7,745.40	7,613.91	127.42	32.10	-89.43	-6,068.38	2,493.28	926.97	768.93	158.04	5.865	
16,100.00	7,630.00	7,743.73	7,612.23	129.10	32.10	-89.32	-6,068.42	2,493.27	952.34	793.61	158.73	6.000	
16,200.00	7,630.00	7,742.06	7,610.57	130.79	32.09	-89.22	-6,068.45	2,493.26	987.23	829.04	158.20	6.241	
16,300.00	7,630.00	7,740.39	7,608.90	132.48	32.09	-89.11	-6,068.49	2,493.25	1,030.67	873.98	156.69	6.578	
16,400.00	7,630.00	7,738.73	7,607.24	134.17	32.08	-89.01	-6,068.52	2,493.25	1,081.64	927.15	154.49	7.001	
16,500.00	7,630.00	7,737.08	7,605.59	135.86	32.08	-88.90	-6,068.56	2,493.24	1,139.12	987.30	151.82	7.503	
16,600.00	7,630.00	7,735.43	7,603.94	137.55	32.07	-88.80	-6,068.59	2,493.24	1,202.18	1,053.29	148.89	8.074	
16,700.00	7,630.00	7,733.79	7,602.30	139.24	32.07	-88.69	-6,068.63	2,493.23	1,269.99	1,124.14	145.85	8.708	
16,800.00	7,630.00	7,732.15	7,600.66	140.94	32.06	-88.59	-6,068.66	2,493.23	1,341.83	1,199.02	142.81	9.396	
16,900.00	7,630.00	7,730.52	7,599.03	142.64	32.06	-88.49	-6,068.70	2,493.23	1,417.08	1,277.24	139.84	10.133	
17,000.00	7,630.00	7,728.89	7,597.40	144.34	32.05	-88.38	-6,068.73	2,493.23	1,495.24	1,358.24	137.00	10.914	
17,100.00	7,630.00	7,727.27	7,595.78	146.04	32.05	-88.28	-6,068.77	2,493.23	1,575.86	1,441.57	134.30	11.734	
17,200.00	7,630.00	7,725.65	7,594.16	147.74	32.04	-88.18	-6,068.80	2,493.23	1,658.60	1,526.85	131.75	12.589	
17,300.00	7,630.00	7,724.04	7,592.55	149.44	32.04	-88.08	-6,068.83	2,493.23	1,743.14	1,613.78	129.37	13.475	
17,400.00	7,630.00	7,722.43	7,590.94	151.15	32.03	-87.98	-6,068.87	2,493.23	1,829.24	1,702.10	127.14	14.388	
17,500.00	7,630.00	7,720.82	7,589.34	152.86	32.03	-87.88	-6,068.90	2,493.23	1,916.69	1,791.63	125.06	15.326	
17,600.00	7,630.00	7,719.23	7,587.74	154.56	32.03	-87.78	-6,068.94	2,493.24	2,005.31	1,882.18	123.13	16.286	
17,700.00	7,630.00	7,717.63	7,586.15	156.27	32.02	-87.67	-6,068.97	2,493.24	2,094.96	1,973.62	121.34	17.265	
17,800.00	7,630.00	7,716.05	7,584.56	157.98	32.02	-87.57	-6,069.00	2,493.25	2,185.50	2,065.83	119.67	18.263	
17,900.00	7,630.00	7,714.46	7,582.98	159.70	32.01	-87.47	-6,069.04	2,493.25	2,276.83	2,158.72	118.11	19.277	
18,000.00	7,630.00	7,712.88	7,581.40	161.41	32.01	-87.38	-6,069.07	2,493.26	2,368.86	2,252.20	116.67	20.304	
18,100.00	7,630.00	7,711.31	7,579.83	163.12	32.00	-87.28	-6,069.10	2,493.27	2,461.52	2,346.20	115.32	21.345	
18,154.00	7,630.00	7,710.46	7,578.98	164.05	32.00	-87.22	-6,069.12	2,493.27	2,511.78	2,397.16	114.63	21.912	

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

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 73-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	148.44	-5,442.97	3,342.84	6,387.58				
100.00	100.00	59.30	59.30	0.13	0.09	148.44	-5,443.12	3,342.76	6,387.63	6,387.41	0.22	N/A	
200.00	200.00	165.00	164.99	0.49	0.44	148.46	-5,443.69	3,341.69	6,387.56	6,386.63	0.93	6,870.356	
212.81	212.81	188.83	188.81	0.54	0.52	148.46	-5,443.86	3,341.30	6,387.48	6,386.42	1.06	6,021.772	
300.00	300.00	224.32	224.31	0.85	0.65	148.46	-5,444.29	3,340.87	6,387.83	6,386.33	1.50	4,257.512	
400.00	400.00	255.00	254.98	1.21	0.76	148.47	-5,444.84	3,340.66	6,389.13	6,387.16	1.97	3,244.335	
500.00	500.00	300.69	300.65	1.57	0.92	148.47	-5,445.99	3,340.64	6,391.36	6,388.87	2.49	2,566.474	
600.00	600.00	349.00	348.93	1.93	1.10	148.48	-5,447.69	3,341.01	6,394.62	6,391.60	3.02	2,117.186	
700.00	700.00	384.64	384.54	2.29	1.22	148.48	-5,449.18	3,341.51	6,398.77	6,395.26	3.51	1,825.608	
800.00	800.00	441.00	440.82	2.64	1.43	148.49	-5,451.81	3,342.56	6,403.70	6,399.63	4.06	1,576.426	
900.00	900.00	479.73	479.48	3.00	1.57	148.49	-5,453.89	3,343.45	6,409.43	6,404.87	4.56	1,406.429	
1,000.00	1,000.00	536.00	535.62	3.36	1.77	148.50	-5,457.47	3,344.91	6,416.10	6,410.99	5.11	1,254.457	
1,100.00	1,100.00	536.00	535.62	3.72	1.77	148.50	-5,457.47	3,344.91	6,423.74	6,418.27	5.47	1,174.534	
1,200.00	1,200.00	588.35	587.79	4.08	1.97	148.50	-5,461.55	3,346.55	6,432.25	6,426.24	6.01	1,069.719	
1,300.00	1,300.00	623.00	622.27	4.44	2.10	148.51	-5,464.72	3,347.81	6,441.93	6,435.44	6.49	992.567	
1,400.00	1,400.00	667.64	666.65	4.79	2.28	148.51	-5,469.21	3,349.59	6,452.53	6,445.53	7.01	921.110	
1,500.00	1,499.98	711.00	709.72	5.15	2.44	110.50	-5,473.84	3,351.42	6,464.53	6,457.01	7.51	860.566	
1,600.00	1,599.84	748.72	747.15	5.51	2.60	110.25	-5,478.11	3,353.29	6,478.64	6,470.64	8.00	810.107	
1,700.00	1,699.45	798.00	795.98	5.87	2.79	109.98	-5,484.02	3,356.40	6,495.00	6,486.47	8.53	761.832	
1,800.00	1,798.70	798.00	795.98	6.23	2.79	109.63	-5,484.02	3,356.40	6,513.48	6,504.61	8.87	734.165	
1,900.00	1,897.47	858.37	855.67	6.60	3.04	109.31	-5,491.83	3,360.88	6,533.90	6,524.45	9.45	691.179	
2,000.00	1,995.62	885.00	881.96	6.99	3.16	108.92	-5,495.49	3,363.00	6,556.44	6,546.53	9.92	661.257	
2,100.00	2,093.06	924.07	920.48	7.39	3.33	108.51	-5,501.14	3,366.35	6,581.02	6,570.58	10.44	630.321	
2,200.00	2,189.64	973.00	968.58	7.82	3.54	108.10	-5,508.71	3,371.10	6,607.78	6,596.76	11.02	599.584	
2,300.00	2,285.27	997.63	992.76	8.28	3.65	107.59	-5,512.67	3,373.64	6,636.35	6,624.82	11.53	575.602	
2,400.00	2,379.82	1,060.00	1,053.97	8.77	3.93	107.16	-5,522.79	3,380.04	6,666.50	6,654.29	12.21	545.877	
2,500.00	2,473.17	1,129.00	1,121.62	9.31	4.25	106.74	-5,534.33	3,387.18	6,698.19	6,685.24	12.95	517.041	
2,600.00	2,565.21	2,600.00	1,282.15	9.88	11.17	106.63	-5,561.26	3,404.22	6,730.96	6,711.90	19.06	353.152	
2,660.67	2,620.37	1,365.36	1,353.59	10.25	5.36	106.49	-5,572.59	3,411.50	6,750.77	6,736.03	14.74	458.131	
2,700.00	2,655.96	1,383.73	1,371.64	10.50	5.44	106.56	-5,575.49	3,413.29	6,763.79	6,748.76	15.02	450.199	
2,800.00	2,746.43	1,434.80	1,421.78	11.15	5.68	106.74	-5,583.82	3,418.19	6,797.39	6,781.60	15.79	430.533	
2,900.00	2,836.90	1,501.99	1,487.72	11.82	6.00	106.99	-5,595.07	3,424.59	6,831.53	6,814.89	16.64	410.663	
3,000.00	2,927.37	1,547.58	1,532.42	12.50	6.22	107.16	-5,602.91	3,428.94	6,866.24	6,848.83	17.40	394.503	
3,100.00	3,017.85	1,595.00	1,578.85	13.21	6.45	107.33	-5,611.36	3,433.54	6,901.69	6,883.49	18.19	379.408	
3,200.00	3,108.32	1,644.34	1,627.11	13.92	6.70	107.52	-5,620.45	3,438.31	6,937.80	6,918.81	18.99	365.289	
3,300.00	3,198.79	1,704.70	1,686.10	14.64	7.00	107.74	-5,631.91	3,444.04	6,974.50	6,954.65	19.85	351.397	
3,400.00	3,289.27	1,804.54	1,783.63	15.38	7.50	108.10	-5,650.87	3,453.83	7,011.57	6,990.69	20.88	335.774	
3,500.00	3,379.74	2,147.87	2,120.41	16.12	9.16	109.30	-5,707.99	3,487.98	7,047.08	7,024.10	22.98	306.697	
3,600.00	3,470.21	2,206.00	2,177.60	16.87	9.43	109.49	-5,716.75	3,493.55	7,081.38	7,057.53	23.84	297.006	
3,700.00	3,560.68	2,252.43	2,223.24	17.62	9.66	109.65	-5,724.07	3,497.85	7,116.28	7,091.62	24.66	288.584	
3,800.00	3,651.16	2,293.00	2,263.10	18.39	9.85	109.79	-5,730.63	3,501.67	7,151.82	7,126.37	25.45	281.012	
3,900.00	3,741.63	2,354.06	2,323.03	19.15	10.15	109.99	-5,740.70	3,507.67	7,187.95	7,161.62	26.33	272.971	
4,000.00	3,832.10	2,511.71	2,477.84	19.92	10.91	110.51	-5,765.74	3,523.72	7,223.73	7,196.08	27.65	261.295	
4,100.00	3,922.57	2,555.00	2,520.36	20.69	11.11	110.65	-5,772.67	3,528.00	7,259.83	7,231.38	28.45	255.170	
4,200.00	4,013.05	2,555.00	2,520.36	21.47	11.11	110.65	-5,772.67	3,528.00	7,296.87	7,267.81	29.06	251.117	
4,300.00	4,103.52	2,607.86	2,572.17	22.25	11.38	110.83	-5,781.78	3,533.20	7,334.47	7,304.57	29.90	245.286	
4,400.00	4,193.99	2,643.00	2,606.51	23.03	11.55	110.94	-5,788.33	3,536.69	7,373.10	7,342.44	30.66	240.471	
4,500.00	4,284.47	2,830.62	2,790.11	23.81	12.49	111.55	-5,821.96	3,555.61	7,411.44	7,379.31	32.13	230.659	
4,600.00	4,374.94	2,885.97	2,844.32	24.60	12.77	111.73	-5,831.45	3,561.58	7,449.63	7,416.65	32.99	225.838	
4,700.00	4,465.41	2,942.35	2,899.48	25.39	13.05	111.90	-5,841.29	3,567.83	7,488.33	7,454.48	33.84	221.254	
4,800.00	4,555.88	3,030.90	2,986.07	26.18	13.50	112.18	-5,857.17	3,577.40	7,527.48	7,492.63	34.85	215.970	
4,900.00	4,646.36	3,196.43	3,148.29	26.97	14.32	112.71	-5,886.61	3,592.14	7,565.89	7,529.67	36.22	208.870	

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

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 73-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,736.83	3,269.54	3,219.97	27.76	14.68	112.94	-5,899.35	3,598.80	7,604.39	7,567.24	37.16	204.662	
5,100.00	4,827.30	3,381.79	3,330.04	28.55	15.23	113.28	-5,918.72	3,609.20	7,642.98	7,604.70	38.27	199.696	
5,200.00	4,917.77	3,478.14	3,424.61	29.35	15.70	113.59	-5,935.56	3,616.76	7,681.42	7,642.11	39.31	195.396	
5,300.00	5,008.25	3,561.04	3,505.94	30.15	16.10	113.84	-5,949.41	3,624.88	7,720.05	7,679.76	40.29	191.615	
5,400.00	5,098.72	5,400.00	3,670.45	30.94	24.91	114.33	-5,977.04	3,640.95	7,758.77	7,710.71	48.06	161.424	
5,500.00	5,189.19	3,914.63	3,853.63	31.74	17.79	114.88	-6,005.44	3,656.18	7,795.75	7,752.62	43.13	180.766	
5,600.00	5,279.67	3,973.09	3,911.23	32.54	18.06	115.05	-6,014.14	3,661.17	7,832.96	7,788.97	43.98	178.083	
5,700.00	5,370.14	4,020.77	3,958.15	33.34	18.29	115.19	-6,021.33	3,665.61	7,870.70	7,825.91	44.79	175.721	
5,800.00	5,460.61	4,115.89	4,051.70	34.14	18.74	115.45	-6,035.81	3,674.89	7,908.85	7,863.02	45.82	172.597	
5,900.00	5,551.08	5,485.99	5,413.27	34.94	23.99	119.35	-6,154.75	3,728.54	7,940.24	7,888.18	52.06	152.519	
6,000.00	5,641.56	5,888.08	5,815.22	35.75	25.07	120.51	-6,156.42	3,719.33	7,963.12	7,909.14	53.98	147.508	
6,100.00	5,732.03	5,982.10	5,909.19	36.55	25.31	120.78	-6,154.77	3,716.96	7,983.84	7,928.89	54.94	145.316	
6,200.00	5,822.50	6,076.88	6,003.93	37.35	25.54	121.04	-6,152.98	3,714.78	8,004.68	7,948.78	55.90	143.198	
6,300.00	5,912.97	6,173.15	6,100.16	38.16	25.79	121.31	-6,151.00	3,712.86	8,025.64	7,968.78	56.86	141.144	
6,400.00	6,003.45	6,277.46	6,204.43	38.96	26.05	121.59	-6,148.63	3,711.11	8,046.68	7,988.84	57.85	139.104	
6,500.00	6,093.92	6,389.62	6,316.54	39.77	26.34	121.89	-6,145.77	3,709.30	8,067.67	8,008.81	58.85	137.081	
6,600.00	6,184.39	6,458.56	6,385.45	40.57	26.52	122.07	-6,143.96	3,708.31	8,088.80	8,029.07	59.73	135.415	
6,700.00	6,274.87	6,524.94	6,451.81	41.38	26.70	122.25	-6,142.36	3,707.61	8,110.37	8,049.76	60.60	133.828	
6,800.00	6,365.34	6,595.87	6,522.71	42.18	26.88	122.43	-6,140.77	3,707.14	8,132.36	8,070.87	61.48	132.266	
6,900.00	6,455.81	6,677.17	6,604.00	42.99	27.10	122.64	-6,138.95	3,707.04	8,154.64	8,092.24	62.40	130.684	
7,000.00	6,546.28	6,759.38	6,686.18	43.80	27.33	122.85	-6,137.06	3,707.46	8,177.19	8,113.87	63.32	129.147	
7,100.00	6,636.76	6,844.83	6,771.61	44.61	27.57	123.06	-6,135.09	3,708.14	8,199.95	8,135.70	64.25	127.634	
7,200.00	6,727.23	6,930.32	6,857.07	45.41	27.81	123.27	-6,133.15	3,708.92	8,222.91	8,157.74	65.17	126.170	
7,300.00	6,817.70	7,015.87	6,942.60	46.22	28.05	123.48	-6,131.25	3,709.79	8,246.07	8,179.97	66.10	124.750	
7,383.79	6,893.51	7,087.57	7,014.27	46.90	28.25	123.65	-6,129.69	3,710.58	8,265.63	8,198.76	66.88	123.596	
7,400.00	6,908.25	7,101.50	7,028.20	47.03	28.29	121.43	-6,129.39	3,710.74	8,269.22	8,202.19	67.03	123.374	
7,450.00	6,954.52	7,144.62	7,071.31	47.40	28.42	112.79	-6,128.47	3,711.26	8,277.58	8,210.10	67.48	122.670	
7,500.00	7,001.74	7,188.62	7,115.30	47.72	28.55	100.85	-6,127.55	3,711.80	8,281.83	8,213.91	67.92	121.939	
7,550.00	7,049.55	7,233.10	7,159.76	47.99	28.68	85.48	-6,126.62	3,712.37	8,281.91	8,213.57	68.34	121.191	
7,600.00	7,097.58	7,280.42	7,207.07	48.21	28.81	68.21	-6,125.66	3,713.00	8,277.83	8,209.09	68.74	120.422	
7,650.00	7,145.48	7,340.38	7,267.01	48.37	28.99	51.98	-6,124.43	3,713.63	8,269.55	8,200.40	69.16	119.580	
7,700.00	7,192.88	7,399.43	7,326.05	48.48	29.16	38.76	-6,123.21	3,713.98	8,257.11	8,187.57	69.54	118.746	
7,750.00	7,239.41	7,457.15	7,383.75	48.54	29.32	28.69	-6,122.00	3,714.06	8,240.59	8,170.71	69.88	117.920	
7,800.00	7,284.72	7,496.79	7,423.38	48.56	29.44	21.06	-6,121.19	3,714.05	8,220.18	8,150.04	70.14	117.195	
7,850.00	7,328.47	7,537.98	7,464.57	48.54	29.55	15.11	-6,120.36	3,714.01	8,196.04	8,125.66	70.38	116.458	
7,900.00	7,370.32	7,577.30	7,503.88	48.47	29.67	10.25	-6,119.58	3,713.95	8,168.36	8,097.78	70.58	115.727	
7,950.00	7,409.96	7,614.46	7,541.03	48.37	29.77	6.03	-6,118.87	3,713.87	8,137.34	8,066.59	70.76	115.005	
8,000.00	7,447.08	7,646.36	7,572.93	48.24	29.87	2.13	-6,118.27	3,713.80	8,103.22	8,032.33	70.89	114.308	
8,050.00	7,481.41	7,675.41	7,601.97	48.07	29.95	-1.75	-6,117.73	3,713.76	8,066.27	7,995.28	70.99	113.623	
8,100.00	7,512.67	7,701.81	7,628.37	47.87	30.03	-5.87	-6,117.24	3,713.76	8,026.75	7,955.69	71.06	112.951	
8,150.00	7,540.64	7,725.35	7,651.90	47.65	30.10	-10.58	-6,116.82	3,713.77	7,984.98	7,913.87	71.11	112.294	
8,200.00	7,565.09	7,745.84	7,672.39	47.40	30.16	-16.30	-6,116.46	3,713.80	7,941.25	7,870.13	71.12	111.653	
8,250.00	7,585.85	7,763.12	7,689.67	47.14	30.21	-23.67	-6,116.15	3,713.83	7,895.91	7,824.79	71.11	111.031	
8,300.00	7,602.75	7,777.06	7,703.61	46.86	30.25	-33.55	-6,115.91	3,713.87	7,849.29	7,778.21	71.08	110.428	
8,350.00	7,615.67	7,787.54	7,714.09	46.58	30.28	-46.89	-6,115.73	3,713.90	7,801.77	7,730.74	71.02	109.847	
8,400.00	7,624.51	7,794.70	7,721.24	46.28	30.30	-63.87	-6,115.61	3,713.92	7,753.69	7,682.74	70.95	109.289	
8,450.00	7,629.19	7,798.53	7,725.08	45.98	30.31	-82.47	-6,115.54	3,713.94	7,705.43	7,634.58	70.85	108.754	
8,481.00	7,630.00	7,798.81	7,725.35	45.79	30.31	-93.21	-6,115.54	3,713.94	7,675.58	7,604.80	70.78	108.438	
8,500.00	7,630.00	7,798.48	7,725.03	45.68	30.31	-93.20	-6,115.54	3,713.94	7,657.33	7,586.59	70.74	108.248	
8,600.00	7,630.00	7,796.77	7,723.32	45.11	30.31	-93.15	-6,115.57	3,713.93	7,561.34	7,490.83	70.51	107.242	
8,700.00	7,630.00	7,795.06	7,721.61	44.56	30.30	-93.11	-6,115.60	3,713.93	7,465.44	7,395.17	70.27	106.233	
8,800.00	7,630.00	7,793.35	7,719.89	44.05	30.30	-93.06	-6,115.63	3,713.92	7,369.66	7,299.62	70.04	105.220	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
8,900.00	7,630.00	7,791.81	7,718.36	43.57	30.29	-93.02	-6,115.66	3,713.92	7,273.99	7,204.19	69.81	104.202	
9,000.00	7,630.00	7,790.32	7,716.86	43.12	30.29	-92.98	-6,115.68	3,713.91	7,178.44	7,108.87	69.57	103.178	
9,100.00	7,630.00	7,788.82	7,715.36	42.70	30.28	-92.94	-6,115.71	3,713.91	7,083.01	7,013.67	69.34	102.150	
9,200.00	7,630.00	7,787.32	7,713.86	42.31	30.28	-92.90	-6,115.73	3,713.90	6,987.71	6,918.61	69.11	101.116	
9,300.00	7,630.00	7,785.82	7,712.36	41.94	30.27	-92.86	-6,115.76	3,713.90	6,892.54	6,823.67	68.87	100.076	
9,400.00	7,630.00	7,784.31	7,710.85	41.59	30.27	-92.82	-6,115.79	3,713.89	6,797.51	6,728.87	68.64	99.029	
9,500.00	7,630.00	7,782.80	7,709.34	41.26	30.26	-92.78	-6,115.81	3,713.89	6,702.63	6,634.21	68.41	97.975	
9,600.00	7,630.00	7,781.29	7,707.83	40.96	30.26	-92.74	-6,115.84	3,713.88	6,607.89	6,539.71	68.18	96.913	
9,700.00	7,630.00	7,779.77	7,706.32	40.68	30.26	-92.70	-6,115.86	3,713.88	6,513.31	6,445.35	67.96	95.843	
9,800.00	7,630.00	7,778.25	7,704.80	40.42	30.25	-92.66	-6,115.89	3,713.87	6,418.90	6,351.16	67.74	94.763	
9,900.00	7,630.00	7,776.73	7,703.28	40.17	30.25	-92.62	-6,115.92	3,713.87	6,324.65	6,257.13	67.52	93.673	
10,000.00	7,630.00	7,775.21	7,701.75	39.96	30.24	-92.58	-6,115.94	3,713.86	6,230.59	6,163.28	67.31	92.571	
10,100.00	7,630.00	7,773.68	7,700.23	40.05	30.24	-92.54	-6,115.97	3,713.86	6,136.71	6,069.61	67.10	91.458	
10,200.00	7,630.00	7,772.15	7,698.70	40.95	30.23	-92.49	-6,116.00	3,713.86	6,043.03	5,976.13	66.90	90.331	
10,300.00	7,630.00	7,770.62	7,697.17	41.94	30.23	-92.45	-6,116.02	3,713.85	5,949.55	5,882.85	66.71	89.190	
10,400.00	7,630.00	7,769.08	7,695.63	42.98	30.22	-92.41	-6,116.05	3,713.85	5,856.29	5,789.77	66.52	88.033	
10,500.00	7,630.00	7,767.55	7,694.09	44.06	30.22	-92.37	-6,116.08	3,713.84	5,763.26	5,696.91	66.35	86.859	
10,600.00	7,630.00	7,766.00	7,692.55	45.17	30.22	-92.33	-6,116.10	3,713.84	5,670.46	5,604.27	66.19	85.666	
10,700.00	7,630.00	7,764.46	7,691.01	46.32	30.21	-92.29	-6,116.13	3,713.84	5,577.91	5,511.86	66.05	84.453	
10,800.00	7,630.00	7,762.91	7,689.46	47.50	30.21	-92.25	-6,116.16	3,713.83	5,485.62	5,419.70	65.92	83.219	
10,900.00	7,630.00	7,761.36	7,687.91	48.70	30.20	-92.20	-6,116.18	3,713.83	5,393.60	5,327.80	65.81	81.962	
11,000.00	7,630.00	7,759.81	7,686.36	49.94	30.20	-92.16	-6,116.21	3,713.83	5,301.88	5,236.16	65.71	80.680	
11,100.00	7,630.00	7,758.25	7,684.80	51.20	30.19	-92.12	-6,116.24	3,713.82	5,210.46	5,144.81	65.65	79.372	
11,200.00	7,630.00	7,756.69	7,683.24	52.48	30.19	-92.08	-6,116.27	3,713.82	5,119.35	5,053.75	65.60	78.035	
11,300.00	7,630.00	7,755.13	7,681.68	53.79	30.18	-92.04	-6,116.29	3,713.82	5,028.59	4,963.00	65.59	76.668	
11,400.00	7,630.00	7,753.57	7,680.12	55.12	30.18	-91.99	-6,116.32	3,713.81	4,938.18	4,872.58	65.61	75.270	
11,500.00	7,630.00	7,752.00	7,678.55	56.46	30.17	-91.95	-6,116.35	3,713.81	4,848.15	4,782.49	65.66	73.838	
11,600.00	7,630.00	7,750.43	7,676.98	57.83	30.17	-91.91	-6,116.38	3,713.81	4,758.51	4,692.76	65.75	72.372	
11,700.00	7,630.00	7,748.85	7,675.40	59.22	30.17	-91.87	-6,116.40	3,713.80	4,669.30	4,603.42	65.89	70.870	
11,800.00	7,630.00	7,747.28	7,673.83	60.62	30.16	-91.83	-6,116.43	3,713.80	4,580.53	4,514.46	66.07	69.331	
11,900.00	7,630.00	7,745.70	7,672.25	62.04	30.16	-91.78	-6,116.46	3,713.80	4,492.23	4,425.93	66.30	67.754	
12,000.00	7,630.00	7,744.11	7,670.66	63.48	30.15	-91.74	-6,116.49	3,713.80	4,404.44	4,337.84	66.59	66.140	
12,100.00	7,630.00	7,742.53	7,669.08	64.93	30.15	-91.70	-6,116.52	3,713.79	4,317.17	4,250.22	66.94	64.488	
12,200.00	7,630.00	7,740.94	7,667.49	66.39	30.14	-91.65	-6,116.54	3,713.79	4,230.46	4,163.10	67.36	62.800	
12,300.00	7,630.00	7,739.34	7,665.90	67.86	30.14	-91.61	-6,116.57	3,713.79	4,144.36	4,076.50	67.86	61.076	
12,400.00	7,630.00	7,737.75	7,664.30	69.35	30.13	-91.57	-6,116.60	3,713.79	4,058.89	3,990.46	68.43	59.318	
12,500.00	7,630.00	7,736.15	7,662.70	70.85	30.13	-91.53	-6,116.63	3,713.78	3,974.09	3,905.01	69.08	57.529	
12,600.00	7,630.00	7,734.55	7,661.10	72.36	30.12	-91.48	-6,116.66	3,713.78	3,890.02	3,820.20	69.82	55.713	
12,700.00	7,630.00	7,732.94	7,659.50	73.88	30.12	-91.44	-6,116.69	3,713.78	3,806.72	3,736.06	70.66	53.873	
12,800.00	7,630.00	7,731.34	7,657.89	75.41	30.11	-91.40	-6,116.71	3,713.78	3,724.24	3,652.64	71.60	52.014	
12,900.00	7,630.00	7,729.72	7,656.28	76.95	30.11	-91.35	-6,116.74	3,713.78	3,642.64	3,569.99	72.65	50.141	
13,000.00	7,630.00	7,728.11	7,654.66	78.49	30.11	-91.31	-6,116.77	3,713.77	3,561.97	3,488.16	73.81	48.261	
13,100.00	7,630.00	7,726.49	7,653.05	80.05	30.10	-91.27	-6,116.80	3,713.77	3,482.31	3,407.22	75.08	46.379	
13,200.00	7,630.00	7,724.87	7,651.43	81.61	30.10	-91.22	-6,116.83	3,713.77	3,403.71	3,327.23	76.49	44.502	
13,300.00	7,630.00	7,723.25	7,649.80	83.18	30.09	-91.18	-6,116.86	3,713.77	3,326.27	3,248.26	78.01	42.636	
13,400.00	7,630.00	7,721.62	7,648.17	84.76	30.09	-91.14	-6,116.89	3,713.77	3,250.06	3,170.38	79.68	40.790	
13,500.00	7,630.00	7,719.99	7,646.54	86.34	30.08	-91.09	-6,116.92	3,713.77	3,175.17	3,093.69	81.48	38.970	
13,600.00	7,630.00	7,718.36	7,644.91	87.94	30.08	-91.05	-6,116.95	3,713.76	3,101.69	3,018.27	83.42	37.182	
13,700.00	7,630.00	7,716.72	7,643.28	89.53	30.07	-91.00	-6,116.98	3,713.76	3,029.73	2,944.23	85.51	35.433	
13,800.00	7,630.00	7,715.08	7,641.64	91.13	30.07	-90.96	-6,117.00	3,713.76	2,959.40	2,871.67	87.74	33.730	
13,900.00	7,630.00	7,713.44	7,639.99	92.74	30.06	-90.92	-6,117.03	3,713.76	2,890.82	2,800.70	90.12	32.078	
14,000.00	7,630.00	7,711.79	7,638.35	94.35	30.06	-90.87	-6,117.06	3,713.76	2,824.11	2,731.47	92.65	30.482	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 73-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	7,710.14	7,636.70	95.97	30.05	-90.83	-6,117.09	3,713.76	2,759.42	2,664.09	95.33	28.947	
14,200.00	7,630.00	7,708.49	7,635.05	97.60	30.05	-90.78	-6,117.12	3,713.76	2,696.88	2,598.73	98.15	27.477	
14,300.00	7,630.00	7,706.83	7,633.39	99.22	30.04	-90.74	-6,117.15	3,713.76	2,636.65	2,535.53	101.11	26.076	
14,400.00	7,630.00	7,705.17	7,631.73	100.85	30.04	-90.69	-6,117.18	3,713.76	2,578.89	2,474.68	104.21	24.747	
14,500.00	7,630.00	7,703.51	7,630.07	102.49	30.03	-90.65	-6,117.21	3,713.76	2,523.77	2,416.33	107.44	23.491	
14,600.00	7,630.00	7,701.85	7,628.40	104.13	30.03	-90.60	-6,117.24	3,713.76	2,471.47	2,360.69	110.77	22.311	
14,700.00	7,630.00	7,700.18	7,626.73	105.77	30.02	-90.56	-6,117.27	3,713.76	2,422.16	2,307.95	114.21	21.207	
14,800.00	7,630.00	7,698.50	7,625.06	107.42	30.02	-90.51	-6,117.30	3,713.75	2,376.05	2,258.31	117.74	20.181	
14,900.00	7,630.00	7,696.83	7,623.39	109.07	30.01	-90.47	-6,117.33	3,713.75	2,333.31	2,211.99	121.32	19.233	
15,000.00	7,630.00	7,695.15	7,621.71	110.72	30.01	-90.42	-6,117.37	3,713.75	2,294.13	2,169.19	124.94	18.362	
15,100.00	7,630.00	7,693.47	7,620.03	112.38	30.00	-90.38	-6,117.40	3,713.75	2,258.70	2,130.13	128.58	17.567	
15,200.00	7,630.00	7,691.78	7,618.34	114.04	30.00	-90.33	-6,117.43	3,713.75	2,227.20	2,095.01	132.19	16.848	
15,300.00	7,630.00	7,690.09	7,616.65	115.71	29.99	-90.29	-6,117.46	3,713.76	2,199.80	2,064.05	135.76	16.204	
15,400.00	7,630.00	7,688.40	7,614.96	117.37	29.99	-90.24	-6,117.49	3,713.76	2,176.65	2,037.41	139.24	15.632	
15,500.00	7,630.00	7,686.70	7,613.26	119.04	29.98	-90.20	-6,117.52	3,713.76	2,157.89	2,015.29	142.61	15.132	
15,600.00	7,630.00	7,685.00	7,611.56	120.71	29.98	-90.15	-6,117.55	3,713.76	2,143.64	1,997.82	145.82	14.701	
15,700.00	7,630.00	7,683.30	7,609.86	122.39	29.97	-90.10	-6,117.58	3,713.76	2,133.98	1,985.12	148.85	14.336	
15,800.00	7,630.00	7,681.60	7,608.16	124.06	29.97	-90.06	-6,117.61	3,713.76	2,128.97	1,977.30	151.67	14.036	
15,856.71	7,630.00	7,680.63	7,607.19	125.01	29.97	-90.03	-6,117.63	3,713.76	2,128.21	1,975.04	153.17	13.894	CC
15,900.00	7,630.00	7,679.89	7,606.45	125.74	29.96	-90.01	-6,117.64	3,713.76	2,128.65	1,974.39	154.26	13.799	ES
16,000.00	7,630.00	7,678.17	7,604.73	127.42	29.96	-89.97	-6,117.68	3,713.76	2,133.03	1,976.44	156.59	13.621	
16,100.00	7,630.00	7,676.46	7,603.02	129.10	29.95	-89.92	-6,117.71	3,713.76	2,142.07	1,983.42	158.66	13.501	
16,200.00	7,630.00	7,674.74	7,601.30	130.79	29.95	-89.87	-6,117.74	3,713.76	2,155.71	1,995.27	160.44	13.436	
16,300.00	7,630.00	7,673.01	7,599.57	132.48	29.94	-89.83	-6,117.77	3,713.76	2,173.88	2,011.93	161.94	13.424	SF
16,400.00	7,630.00	7,671.29	7,597.85	134.17	29.94	-89.78	-6,117.80	3,713.76	2,196.44	2,033.27	163.17	13.461	
16,500.00	7,630.00	7,669.56	7,596.12	135.86	29.93	-89.73	-6,117.83	3,713.77	2,223.28	2,059.15	164.13	13.546	
16,600.00	7,630.00	7,667.82	7,594.38	137.55	29.93	-89.69	-6,117.87	3,713.77	2,254.24	2,089.41	164.83	13.676	
16,700.00	7,630.00	7,666.08	7,592.65	139.24	29.92	-89.64	-6,117.90	3,713.77	2,289.15	2,123.86	165.29	13.849	
16,800.00	7,630.00	7,664.34	7,590.91	140.94	29.92	-89.59	-6,117.93	3,713.77	2,327.83	2,162.31	165.52	14.063	
16,900.00	7,630.00	7,662.60	7,589.16	142.64	29.91	-89.55	-6,117.96	3,713.77	2,370.11	2,204.55	165.56	14.316	
17,000.00	7,630.00	7,660.85	7,587.41	144.34	29.91	-89.50	-6,118.00	3,713.77	2,415.78	2,250.37	165.40	14.605	
17,100.00	7,630.00	7,659.10	7,585.66	146.04	29.90	-89.45	-6,118.03	3,713.78	2,464.66	2,299.57	165.09	14.929	
17,200.00	7,630.00	7,657.34	7,583.91	147.74	29.90	-89.41	-6,118.06	3,713.78	2,516.57	2,351.93	164.64	15.285	
17,300.00	7,630.00	7,655.59	7,582.15	149.44	29.89	-89.36	-6,118.09	3,713.78	2,571.32	2,407.26	164.06	15.673	
17,400.00	7,630.00	7,653.82	7,580.39	151.15	29.89	-89.31	-6,118.13	3,713.78	2,628.74	2,465.36	163.38	16.089	
17,500.00	7,630.00	7,652.06	7,578.62	152.86	29.88	-89.26	-6,118.16	3,713.79	2,688.65	2,526.03	162.62	16.534	
17,600.00	7,630.00	7,650.29	7,576.85	154.56	29.88	-89.22	-6,118.19	3,713.79	2,750.89	2,589.11	161.78	17.004	
17,700.00	7,630.00	7,648.51	7,575.08	156.27	29.87	-89.17	-6,118.23	3,713.79	2,815.30	2,654.42	160.88	17.499	
17,800.00	7,630.00	7,646.74	7,573.30	157.98	29.87	-89.12	-6,118.26	3,713.79	2,881.74	2,721.80	159.95	18.017	
17,900.00	7,630.00	7,644.96	7,571.52	159.70	29.86	-89.07	-6,118.29	3,713.80	2,950.08	2,791.11	158.97	18.557	
18,000.00	7,630.00	7,643.17	7,569.74	161.41	29.86	-89.02	-6,118.33	3,713.80	3,020.18	2,862.21	157.97	19.118	
18,100.00	7,630.00	7,641.39	7,567.95	163.12	29.85	-88.98	-6,118.36	3,713.80	3,091.93	2,934.97	156.96	19.699	
18,154.00	7,630.00	7,642.88	7,569.44	164.05	29.86	-89.02	-6,118.33	3,713.79	3,131.31	2,974.91	156.40	20.021	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	160.93	-5,371.00	1,857.10	5,683.02				
100.00	100.00	65.84	65.84	0.13	0.10	160.93	-5,371.13	1,857.05	5,683.13	5,682.89	0.24	N/A	
200.00	200.00	172.71	172.71	0.49	0.42	160.93	-5,371.58	1,856.91	5,683.50	5,682.59	0.91	6,255.076	
300.00	300.00	320.31	320.31	0.85	0.93	160.93	-5,371.32	1,856.77	5,683.31	5,681.53	1.78	3,196.361	
400.00	400.00	420.00	420.00	1.21	1.27	160.93	-5,370.70	1,856.80	5,682.73	5,680.25	2.48	2,290.551	
500.00	500.00	569.86	569.84	1.57	1.80	160.92	-5,369.15	1,857.36	5,681.98	5,678.61	3.37	1,687.628	
600.00	600.00	668.32	668.28	1.93	2.15	160.90	-5,367.13	1,858.11	5,680.30	5,676.23	4.07	1,394.121	
700.00	700.00	753.77	753.72	2.29	2.45	160.89	-5,365.70	1,858.82	5,678.98	5,674.24	4.74	1,198.856	
800.00	800.00	844.93	844.87	2.64	2.78	160.88	-5,364.31	1,859.61	5,677.82	5,672.40	5.42	1,047.487	
900.00	900.00	923.00	922.92	3.00	3.05	160.87	-5,363.22	1,860.48	5,676.88	5,670.83	6.06	937.233	
995.86	995.86	979.95	979.86	3.35	3.26	160.86	-5,362.73	1,861.27	5,676.55	5,669.95	6.60	859.691	
1,000.00	1,000.00	982.41	982.32	3.36	3.27	160.86	-5,362.72	1,861.31	5,676.55	5,669.93	6.63	856.635	
1,100.00	1,100.00	1,058.64	1,058.54	3.72	3.54	160.85	-5,362.50	1,862.63	5,676.84	5,669.58	7.25	782.483	
1,200.00	1,200.00	1,160.07	1,159.95	4.08	3.90	160.83	-5,362.37	1,864.61	5,677.35	5,669.38	7.97	712.106	
1,300.00	1,300.00	1,282.85	1,282.72	4.44	4.33	160.81	-5,362.17	1,866.03	5,677.59	5,668.82	8.77	647.581	
1,400.00	1,400.00	1,375.69	1,375.56	4.79	4.66	160.81	-5,362.10	1,866.37	5,677.63	5,668.18	9.45	600.790	
1,500.00	1,499.98	1,483.69	1,483.56	5.15	5.02	123.00	-5,362.24	1,866.37	5,678.71	5,668.54	10.18	558.072	
1,600.00	1,599.84	1,609.86	1,609.73	5.51	5.46	123.01	-5,362.00	1,866.23	5,681.35	5,670.39	10.97	518.093	
1,700.00	1,699.45	1,703.80	1,703.67	5.87	5.79	123.01	-5,361.69	1,866.05	5,685.73	5,674.08	11.65	487.900	
1,800.00	1,798.70	1,796.39	1,796.25	6.23	6.11	123.00	-5,361.58	1,865.52	5,692.11	5,679.77	12.34	461.421	
1,900.00	1,897.47	1,943.34	1,943.20	6.60	6.62	123.08	-5,360.94	1,863.56	5,699.78	5,686.57	13.21	431.348	
2,000.00	1,995.62	2,031.23	2,031.07	6.99	6.92	123.07	-5,360.53	1,862.14	5,709.36	5,695.46	13.90	410.750	
2,100.00	2,093.06	2,130.69	2,130.51	7.39	7.27	123.09	-5,360.23	1,860.18	5,720.94	5,706.30	14.64	390.782	
2,200.00	2,189.64	2,230.13	2,229.93	7.82	7.61	123.09	-5,359.90	1,858.13	5,734.44	5,719.04	15.40	372.427	
2,300.00	2,285.27	2,329.37	2,329.15	8.28	7.96	123.09	-5,359.54	1,856.06	5,749.89	5,733.72	16.18	355.461	
2,400.00	2,379.82	2,445.52	2,445.27	8.77	8.37	123.14	-5,358.99	1,853.32	5,767.19	5,750.15	17.04	338.486	
2,500.00	2,473.17	2,539.07	2,538.77	9.31	8.70	123.13	-5,358.38	1,850.39	5,786.14	5,768.29	17.85	324.190	
2,600.00	2,565.21	2,600.00	2,599.68	9.88	8.91	122.98	-5,358.10	1,848.85	5,807.50	5,788.93	18.57	312.725	
2,660.67	2,620.37	2,636.43	2,636.10	10.25	9.04	122.87	-5,358.05	1,848.10	5,821.69	5,802.67	19.02	306.069	
2,700.00	2,655.96	2,658.20	2,657.87	10.50	9.12	122.95	-5,358.08	1,847.67	5,831.27	5,811.96	19.31	301.977	
2,800.00	2,746.43	2,730.79	2,730.44	11.15	9.37	123.22	-5,358.45	1,846.37	5,856.10	5,835.98	20.12	291.088	
2,900.00	2,836.90	2,953.77	2,953.38	11.82	10.16	124.04	-5,356.96	1,843.39	5,880.42	5,858.93	21.48	273.721	
3,000.00	2,927.37	3,063.99	3,063.57	12.50	10.55	124.43	-5,354.30	1,842.48	5,903.38	5,880.92	22.46	262.881	
3,100.00	3,017.85	3,137.78	3,137.33	13.21	10.81	124.69	-5,352.66	1,841.52	5,926.63	5,903.32	23.31	254.277	
3,200.00	3,108.32	3,200.00	3,199.54	13.92	11.03	124.92	-5,351.60	1,840.48	5,950.45	5,926.33	24.12	246.666	
3,300.00	3,198.79	3,264.69	3,264.21	14.64	11.26	125.15	-5,350.92	1,838.94	5,974.89	5,949.93	24.95	239.454	
3,400.00	3,289.27	3,365.52	3,364.97	15.38	11.62	125.53	-5,350.50	1,835.44	5,999.85	5,973.93	25.92	231.506	
3,500.00	3,379.74	3,456.68	3,456.07	16.12	11.95	125.87	-5,349.82	1,831.96	6,024.66	5,997.81	26.85	224.389	
3,600.00	3,470.21	3,541.19	3,540.52	16.87	12.25	126.18	-5,349.36	1,828.80	6,049.88	6,022.12	27.76	217.936	
3,700.00	3,560.68	3,636.83	3,636.10	17.62	12.59	126.53	-5,348.62	1,825.71	6,075.23	6,046.51	28.71	211.579	
3,800.00	3,651.16	3,723.74	3,722.98	18.39	12.90	126.83	-5,347.79	1,823.62	6,100.79	6,071.15	29.64	205.851	
3,900.00	3,741.63	3,800.00	3,799.22	19.15	13.17	127.10	-5,347.05	1,822.05	6,126.62	6,096.10	30.52	200.737	
4,000.00	3,832.10	3,869.96	3,869.18	19.92	13.42	127.33	-5,346.41	1,821.35	6,152.89	6,121.52	31.38	196.097	
4,100.00	3,922.57	3,962.40	3,961.61	20.69	13.74	127.63	-5,345.56	1,821.95	6,179.64	6,147.33	32.32	191.226	
4,200.00	4,013.05	4,063.23	4,062.43	21.47	14.10	127.95	-5,344.45	1,822.25	6,206.33	6,173.04	33.29	186.443	
4,300.00	4,103.52	4,168.55	4,167.75	22.25	14.47	128.29	-5,343.33	1,821.74	6,233.08	6,198.80	34.28	181.829	
4,400.00	4,193.99	4,398.96	4,398.07	23.03	15.29	129.04	-5,338.69	1,817.92	6,259.09	6,223.35	35.74	175.111	
4,500.00	4,284.47	4,470.68	4,469.75	23.81	15.55	129.27	-5,336.42	1,816.96	6,284.16	6,247.55	36.61	171.656	
4,600.00	4,374.94	4,564.41	4,563.43	24.60	15.88	129.56	-5,333.50	1,816.52	6,309.58	6,272.03	37.55	168.009	
4,700.00	4,465.41	4,756.24	4,755.10	25.39	16.56	130.14	-5,325.74	1,816.24	6,334.41	6,295.55	38.87	162.985	
4,800.00	4,555.88	4,850.10	4,848.85	26.18	16.90	130.42	-5,321.16	1,815.35	6,358.47	6,318.66	39.81	159.720	
4,900.00	4,646.36	4,917.95	4,916.62	26.97	17.14	130.63	-5,318.08	1,814.49	6,382.96	6,342.31	40.66	156.996	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,736.83	4,981.68	4,980.29	27.76	17.37	130.82	-5,315.48	1,813.55	6,407.99	6,366.50	41.49	154.464	
5,100.00	4,827.30	5,026.18	5,024.76	28.55	17.53	130.96	-5,313.90	1,812.82	6,433.67	6,391.43	42.24	152.322	
5,200.00	4,917.77	5,062.74	5,061.30	29.35	17.66	131.07	-5,312.94	1,812.13	6,460.26	6,417.30	42.95	150.402	
5,300.00	5,008.25	5,100.00	5,098.54	30.15	17.79	131.19	-5,312.29	1,811.34	6,487.77	6,444.11	43.67	148.579	
5,400.00	5,098.72	5,170.35	5,168.87	30.94	18.04	131.41	-5,311.46	1,809.90	6,515.97	6,471.46	44.50	146.416	
5,500.00	5,189.19	5,232.55	5,231.06	31.74	18.26	131.60	-5,310.88	1,808.93	6,544.61	6,499.31	45.30	144.462	
5,600.00	5,279.67	5,300.00	5,298.51	32.54	18.50	131.79	-5,310.51	1,808.84	6,573.89	6,527.77	46.12	142.539	
5,700.00	5,370.14	5,383.48	5,381.98	33.34	18.79	132.03	-5,310.14	1,809.56	6,603.54	6,556.54	46.99	140.518	
5,800.00	5,460.61	5,506.59	5,505.09	34.14	19.22	132.37	-5,309.27	1,810.12	6,633.05	6,585.02	48.03	138.103	
5,900.00	5,551.08	5,634.47	5,632.95	34.94	19.67	132.74	-5,307.74	1,808.88	6,662.05	6,612.97	49.09	135.719	
6,000.00	5,641.56	5,721.01	5,719.46	35.75	19.98	133.00	-5,306.77	1,806.87	6,691.16	6,641.18	49.97	133.893	
6,100.00	5,732.03	5,822.95	5,821.37	36.55	20.35	133.30	-5,305.45	1,804.44	6,720.25	6,669.33	50.92	131.976	
6,200.00	5,822.50	5,892.47	5,890.86	37.35	20.60	133.51	-5,304.63	1,802.85	6,749.62	6,697.88	51.73	130.468	
6,300.00	5,912.97	5,983.42	5,981.79	38.16	20.92	133.77	-5,303.68	1,801.17	6,779.29	6,726.65	52.63	128.806	
6,400.00	6,003.45	6,141.92	6,140.26	38.96	21.49	134.20	-5,301.09	1,800.36	6,808.73	6,754.93	53.80	126.548	
6,500.00	6,093.92	6,243.08	6,241.39	39.77	21.85	134.47	-5,298.53	1,800.44	6,837.47	6,782.73	54.74	124.905	
6,600.00	6,184.39	6,313.36	6,311.66	40.57	22.10	134.66	-5,297.04	1,800.22	6,866.67	6,811.12	55.55	123.608	
6,700.00	6,274.87	6,442.00	6,440.26	41.38	22.55	135.00	-5,293.71	1,799.74	6,895.50	6,838.90	56.60	121.837	
6,800.00	6,365.34	6,500.00	6,498.23	42.18	22.76	135.15	-5,292.27	1,800.16	6,924.72	6,867.37	57.35	120.740	
6,900.00	6,455.81	6,551.73	6,549.95	42.99	22.94	135.27	-5,291.24	1,800.87	6,954.54	6,896.47	58.08	119.748	
7,000.00	6,546.28	6,612.54	6,610.74	43.80	23.15	135.42	-5,290.40	1,801.91	6,985.01	6,926.18	58.83	118.725	
7,100.00	6,636.76	6,742.86	6,741.01	44.61	23.60	135.73	-5,287.97	1,804.76	7,015.10	6,955.23	59.88	117.157	
7,200.00	6,727.23	6,800.00	6,798.14	45.41	23.80	135.87	-5,287.09	1,805.30	7,045.62	6,985.00	60.62	116.233	
7,300.00	6,817.70	6,868.54	6,866.67	46.22	24.05	136.04	-5,286.33	1,805.62	7,076.61	7,015.21	61.40	115.257	
7,383.79	6,893.51	6,956.71	6,954.84	46.90	24.35	136.26	-5,285.49	1,806.37	7,102.81	7,040.63	62.18	114.228	
7,400.00	6,908.25	6,981.15	6,979.28	47.03	24.44	133.99	-5,285.19	1,806.65	7,107.62	7,045.26	62.36	113.973	
7,450.00	6,954.52	7,030.56	7,028.68	47.40	24.61	125.21	-5,284.52	1,807.30	7,119.66	7,056.85	62.81	113.353	
7,500.00	7,001.74	7,071.88	7,069.99	47.72	24.76	113.20	-5,283.98	1,807.96	7,127.49	7,064.27	63.22	112.750	
7,550.00	7,049.55	7,118.29	7,116.38	47.99	24.92	97.85	-5,283.40	1,808.80	7,131.05	7,067.42	63.63	112.070	
7,600.00	7,097.58	7,174.19	7,172.27	48.21	25.11	80.72	-5,282.67	1,809.65	7,130.25	7,066.18	64.07	111.292	
7,650.00	7,145.48	7,217.45	7,215.53	48.37	25.26	64.69	-5,282.09	1,810.15	7,125.10	7,060.67	64.43	110.584	
7,700.00	7,192.88	7,249.66	7,247.73	48.48	25.38	51.74	-5,281.72	1,810.48	7,115.74	7,051.02	64.73	109.936	
7,750.00	7,239.41	7,281.27	7,279.34	48.54	25.49	42.07	-5,281.43	1,810.79	7,102.27	7,037.28	65.00	109.272	
7,800.00	7,284.72	7,319.12	7,317.19	48.56	25.62	35.01	-5,281.15	1,811.12	7,084.77	7,019.49	65.27	108.541	
7,850.00	7,328.47	7,366.19	7,364.26	48.54	25.78	29.82	-5,280.80	1,811.50	7,063.27	6,997.70	65.57	107.723	
7,900.00	7,370.32	7,411.14	7,409.20	48.47	25.94	25.90	-5,280.45	1,811.80	7,037.92	6,972.08	65.84	106.897	
7,950.00	7,409.96	7,444.09	7,442.15	48.37	26.06	22.86	-5,280.20	1,812.05	7,008.95	6,942.91	66.04	106.132	
8,000.00	7,447.08	7,476.82	7,474.88	48.24	26.17	20.44	-5,279.98	1,812.31	6,976.57	6,910.35	66.23	105.346	
8,050.00	7,481.41	7,507.64	7,505.69	48.07	26.28	18.47	-5,279.78	1,812.59	6,941.04	6,874.65	66.39	104.551	
8,100.00	7,512.67	7,537.30	7,535.35	47.87	26.38	16.80	-5,279.60	1,812.88	6,902.59	6,836.06	66.53	103.745	
8,150.00	7,540.64	7,563.81	7,561.86	47.65	26.47	15.33	-5,279.45	1,813.15	6,861.53	6,794.87	66.66	102.939	
8,200.00	7,565.09	7,586.96	7,585.01	47.40	26.56	13.93	-5,279.32	1,813.40	6,818.15	6,751.39	66.75	102.137	
8,250.00	7,585.85	7,606.59	7,604.64	47.14	26.62	12.47	-5,279.21	1,813.61	6,772.78	6,705.95	66.83	101.341	
8,300.00	7,602.75	7,614.29	7,612.34	46.86	26.65	10.64	-5,279.17	1,813.70	6,725.78	6,658.93	66.85	100.609	
8,350.00	7,615.67	7,622.04	7,620.09	46.58	26.68	7.90	-5,279.14	1,813.78	6,677.50	6,610.63	66.87	99.862	
8,400.00	7,624.51	7,627.34	7,625.38	46.28	26.69	2.17	-5,279.13	1,813.84	6,628.28	6,561.41	66.87	99.119	
8,450.00	7,629.19	7,630.12	7,628.17	45.98	26.70	-21.29	-5,279.12	1,813.87	6,578.51	6,511.64	66.87	98.383	
8,481.00	7,630.00	7,630.57	7,628.61	45.79	26.71	-93.71	-5,279.12	1,813.87	6,547.53	6,480.67	66.86	97.932	
8,500.00	7,630.00	7,630.54	7,628.58	45.68	26.71	-93.70	-5,279.12	1,813.87	6,528.54	6,461.69	66.85	97.656	
8,600.00	7,630.00	7,630.38	7,628.42	45.11	26.70	-93.66	-5,279.12	1,813.87	6,428.60	6,361.78	66.82	96.207	
8,700.00	7,630.00	7,630.21	7,628.26	44.56	26.70	-93.62	-5,279.12	1,813.87	6,328.67	6,261.88	66.79	94.756	
8,800.00	7,630.00	7,630.05	7,628.09	44.05	26.70	-93.58	-5,279.12	1,813.87	6,228.73	6,161.97	66.76	93.304	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
8,900.00	7,630.00	7,629.88	7,627.93	43.57	26.70	-93.53	-5,279.12	1,813.87	6,128.80	6,062.07	66.73	91.851	
9,000.00	7,630.00	7,629.71	7,627.76	43.12	26.70	-93.49	-5,279.12	1,813.87	6,028.87	5,962.17	66.69	90.397	
9,100.00	7,630.00	7,629.54	7,627.59	42.70	26.70	-93.45	-5,279.12	1,813.86	5,928.94	5,862.28	66.66	88.941	
9,200.00	7,630.00	7,629.37	7,627.42	42.31	26.70	-93.41	-5,279.12	1,813.86	5,829.01	5,762.38	66.63	87.485	
9,300.00	7,630.00	7,629.20	7,627.24	41.94	26.70	-93.36	-5,279.12	1,813.86	5,729.09	5,662.49	66.60	86.027	
9,400.00	7,630.00	7,629.02	7,627.07	41.59	26.70	-93.32	-5,279.12	1,813.86	5,629.17	5,562.61	66.56	84.569	
9,500.00	7,630.00	7,628.84	7,626.89	41.26	26.70	-93.27	-5,279.12	1,813.86	5,529.25	5,462.72	66.53	83.109	
9,600.00	7,630.00	7,628.66	7,626.70	40.96	26.70	-93.22	-5,279.12	1,813.85	5,429.34	5,362.84	66.50	81.649	
9,700.00	7,630.00	7,628.47	7,626.52	40.68	26.70	-93.18	-5,279.12	1,813.85	5,329.42	5,262.96	66.46	80.187	
9,800.00	7,630.00	7,628.29	7,626.33	40.42	26.70	-93.13	-5,279.13	1,813.85	5,229.52	5,163.09	66.43	78.725	
9,900.00	7,630.00	7,628.10	7,626.15	40.17	26.70	-93.08	-5,279.13	1,813.85	5,129.61	5,063.22	66.39	77.262	
10,000.00	7,630.00	7,627.91	7,625.95	39.96	26.70	-93.03	-5,279.13	1,813.85	5,029.71	4,963.35	66.36	75.798	
10,100.00	7,630.00	7,627.71	7,625.76	40.05	26.70	-92.99	-5,279.13	1,813.84	4,929.81	4,863.49	66.32	74.333	
10,200.00	7,630.00	7,627.52	7,625.56	40.95	26.70	-92.94	-5,279.13	1,813.84	4,829.92	4,763.64	66.28	72.868	
10,300.00	7,630.00	7,627.32	7,625.37	41.94	26.69	-92.89	-5,279.13	1,813.84	4,730.03	4,663.79	66.25	71.402	
10,400.00	7,630.00	7,627.12	7,625.16	42.98	26.69	-92.83	-5,279.13	1,813.84	4,630.15	4,563.94	66.21	69.935	
10,500.00	7,630.00	7,626.91	7,624.96	44.06	26.69	-92.78	-5,279.13	1,813.84	4,530.27	4,464.10	66.17	68.467	
10,600.00	7,630.00	7,626.71	7,624.75	45.17	26.69	-92.73	-5,279.13	1,813.83	4,430.40	4,364.27	66.13	66.999	
10,700.00	7,630.00	7,626.50	7,624.54	46.32	26.69	-92.68	-5,279.13	1,813.83	4,330.53	4,264.44	66.08	65.531	
10,800.00	7,630.00	7,626.28	7,624.33	47.50	26.69	-92.62	-5,279.13	1,813.83	4,230.67	4,164.63	66.04	64.062	
10,900.00	7,630.00	7,626.07	7,624.11	48.70	26.69	-92.57	-5,279.13	1,813.83	4,130.81	4,064.82	66.00	62.592	
11,000.00	7,630.00	7,625.85	7,623.90	49.94	26.69	-92.51	-5,279.13	1,813.82	4,030.97	3,965.02	65.95	61.122	
11,100.00	7,630.00	7,625.63	7,623.67	51.20	26.69	-92.46	-5,279.13	1,813.82	3,931.13	3,865.23	65.90	59.651	
11,200.00	7,630.00	7,625.40	7,623.45	52.48	26.69	-92.40	-5,279.13	1,813.82	3,831.30	3,765.44	65.85	58.180	
11,300.00	7,630.00	7,625.17	7,623.22	53.79	26.69	-92.34	-5,279.13	1,813.82	3,731.47	3,665.67	65.80	56.708	
11,400.00	7,630.00	7,624.94	7,622.99	55.12	26.69	-92.28	-5,279.14	1,813.81	3,631.66	3,565.91	65.75	55.236	
11,500.00	7,630.00	7,624.71	7,622.75	56.46	26.69	-92.22	-5,279.14	1,813.81	3,531.86	3,466.17	65.69	53.764	
11,600.00	7,630.00	7,624.47	7,622.52	57.83	26.68	-92.16	-5,279.14	1,813.81	3,432.07	3,366.44	65.63	52.291	
11,700.00	7,630.00	7,624.23	7,622.27	59.22	26.68	-92.10	-5,279.14	1,813.81	3,332.29	3,266.72	65.57	50.818	
11,800.00	7,630.00	7,623.98	7,622.03	60.62	26.68	-92.04	-5,279.14	1,813.80	3,232.53	3,167.02	65.51	49.344	
11,900.00	7,630.00	7,623.73	7,621.78	62.04	26.68	-91.98	-5,279.14	1,813.80	3,132.78	3,067.34	65.44	47.870	
12,000.00	7,630.00	7,623.48	7,621.53	63.48	26.68	-91.91	-5,279.14	1,813.80	3,033.05	2,967.68	65.37	46.395	
12,100.00	7,630.00	7,623.22	7,621.27	64.93	26.68	-91.85	-5,279.14	1,813.80	2,933.34	2,868.04	65.30	44.920	
12,200.00	7,630.00	7,622.96	7,621.01	66.39	26.68	-91.78	-5,279.14	1,813.79	2,833.64	2,768.42	65.22	43.445	
12,300.00	7,630.00	7,622.70	7,620.74	67.86	26.68	-91.71	-5,279.14	1,813.79	2,733.97	2,668.83	65.14	41.969	
12,400.00	7,630.00	7,622.43	7,620.47	69.35	26.68	-91.65	-5,279.14	1,813.79	2,634.33	2,569.27	65.06	40.492	
12,500.00	7,630.00	7,622.15	7,620.20	70.85	26.68	-91.58	-5,279.14	1,813.78	2,534.71	2,469.74	64.97	39.015	
12,600.00	7,630.00	7,621.88	7,619.92	72.36	26.68	-91.51	-5,279.15	1,813.78	2,435.12	2,370.25	64.87	37.537	
12,700.00	7,630.00	7,621.60	7,619.64	73.88	26.67	-91.43	-5,279.15	1,813.78	2,335.57	2,270.79	64.77	36.057	
12,800.00	7,630.00	7,621.31	7,619.36	75.41	26.67	-91.36	-5,279.15	1,813.77	2,236.06	2,171.39	64.67	34.577	
12,900.00	7,630.00	7,621.02	7,619.07	76.95	26.67	-91.29	-5,279.15	1,813.77	2,136.59	2,072.03	64.56	33.095	
13,000.00	7,630.00	7,620.72	7,618.77	78.49	26.67	-91.21	-5,279.15	1,813.77	2,037.17	1,972.73	64.44	31.612	
13,100.00	7,630.00	7,620.42	7,618.47	80.05	26.67	-91.14	-5,279.15	1,813.77	1,937.82	1,873.50	64.32	30.126	
13,200.00	7,630.00	7,620.12	7,618.16	81.61	26.67	-91.06	-5,279.15	1,813.76	1,838.54	1,774.34	64.20	28.638	
13,300.00	7,630.00	7,619.81	7,617.85	83.18	26.67	-90.98	-5,279.15	1,813.76	1,739.33	1,675.26	64.07	27.146	
13,400.00	7,630.00	7,619.49	7,617.54	84.76	26.67	-90.90	-5,279.15	1,813.76	1,640.23	1,576.28	63.95	25.650	
13,500.00	7,630.00	7,619.17	7,617.22	86.34	26.67	-90.82	-5,279.15	1,813.75	1,541.24	1,477.42	63.82	24.149	
13,600.00	7,630.00	7,618.84	7,616.89	87.94	26.67	-90.73	-5,279.16	1,813.75	1,442.39	1,378.68	63.71	22.642	
13,700.00	7,630.00	7,618.51	7,616.56	89.53	26.66	-90.65	-5,279.16	1,813.74	1,343.71	1,280.10	63.61	21.126	
13,800.00	7,630.00	7,618.17	7,616.22	91.13	26.66	-90.56	-5,279.16	1,813.74	1,245.24	1,181.70	63.54	19.598	
13,900.00	7,630.00	7,617.83	7,615.88	92.74	26.66	-90.48	-5,279.16	1,813.74	1,147.03	1,083.51	63.52	18.057	
14,000.00	7,630.00	7,617.48	7,615.53	94.35	26.66	-90.39	-5,279.16	1,813.73	1,049.17	985.57	63.60	16.497	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 100-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	7,617.12	7,615.17	95.97	26.66	-90.30	-5,279.16	1,813.73	951.74	887.92	63.82	14.912	
14,200.00	7,630.00	7,616.76	7,614.81	97.60	26.66	-90.21	-5,279.16	1,813.73	854.91	790.62	64.30	13.296	
14,300.00	7,630.00	7,616.39	7,614.44	99.22	26.66	-90.11	-5,279.17	1,813.72	758.91	693.72	65.19	11.642	
14,400.00	7,630.00	7,616.01	7,614.06	100.85	26.66	-90.02	-5,279.17	1,813.72	664.08	597.30	66.78	9.944	
14,500.00	7,630.00	7,615.63	7,613.68	102.49	26.65	-89.92	-5,279.17	1,813.71	571.03	501.46	69.57	8.208	
14,600.00	7,630.00	7,615.24	7,613.29	104.13	26.65	-89.82	-5,279.17	1,813.71	480.76	406.38	74.38	6.463	
14,700.00	7,630.00	7,614.84	7,612.89	105.77	26.65	-89.72	-5,279.17	1,813.70	395.22	312.64	82.57	4.786	
14,800.00	7,630.00	7,614.44	7,612.48	107.42	26.65	-89.61	-5,279.17	1,813.70	318.21	222.26	95.95	3.316	
14,900.00	7,630.00	7,614.02	7,612.07	109.07	26.65	-89.51	-5,279.17	1,813.70	257.53	142.32	115.21	2.235	
15,000.00	7,630.00	7,613.60	7,611.65	110.72	26.65	-89.40	-5,279.18	1,813.69	226.68	92.84	133.84	1.694	
15,024.69	7,630.00	7,613.50	7,611.54	111.13	26.65	-89.38	-5,279.18	1,813.69	225.34	88.77	136.56	1.650	CC, ES, SF
15,100.00	7,630.00	7,613.17	7,611.22	112.38	26.65	-89.29	-5,279.18	1,813.69	237.59	99.81	137.78	1.724	
15,200.00	7,630.00	7,612.73	7,610.78	114.04	26.64	-89.18	-5,279.18	1,813.68	285.50	157.31	128.19	2.227	
15,300.00	7,630.00	7,612.29	7,610.34	115.71	26.64	-89.07	-5,279.18	1,813.68	355.77	239.33	116.44	3.055	
15,400.00	7,630.00	7,611.83	7,609.88	117.37	26.64	-88.95	-5,279.18	1,813.67	437.76	330.75	107.01	4.091	
15,500.00	7,630.00	7,611.37	7,609.41	119.04	26.64	-88.83	-5,279.19	1,813.67	526.02	425.95	100.07	5.257	
15,600.00	7,630.00	7,610.89	7,608.94	120.71	26.64	-88.71	-5,279.19	1,813.66	617.86	522.87	94.99	6.505	
15,700.00	7,630.00	7,610.41	7,608.46	122.39	26.64	-88.59	-5,279.19	1,813.66	711.91	620.71	91.20	7.806	
15,800.00	7,630.00	7,609.91	7,607.96	124.06	26.63	-88.46	-5,279.19	1,813.65	807.39	719.08	88.31	9.143	
15,900.00	7,630.00	7,609.41	7,607.45	125.74	26.63	-88.34	-5,279.20	1,813.65	903.84	817.79	86.06	10.503	
16,000.00	7,630.00	7,608.89	7,606.94	127.42	26.63	-88.20	-5,279.20	1,813.64	1,000.99	916.73	84.26	11.880	
16,100.00	7,630.00	7,608.36	7,606.41	129.10	26.63	-88.07	-5,279.20	1,813.63	1,098.66	1,015.85	82.81	13.267	
16,200.00	7,630.00	7,607.82	7,605.87	130.79	26.63	-87.93	-5,279.20	1,813.63	1,196.70	1,115.09	81.61	14.663	
16,300.00	7,630.00	7,607.27	7,605.32	132.48	26.63	-87.79	-5,279.21	1,813.62	1,295.05	1,214.43	80.62	16.064	
16,400.00	7,630.00	7,606.71	7,604.76	134.17	26.62	-87.65	-5,279.21	1,813.62	1,393.63	1,313.85	79.78	17.468	
16,500.00	7,630.00	7,606.13	7,604.18	135.86	26.62	-87.50	-5,279.21	1,813.61	1,492.40	1,413.34	79.07	18.875	
16,600.00	7,630.00	7,605.54	7,603.59	137.55	26.62	-87.35	-5,279.21	1,813.60	1,591.33	1,512.87	78.46	20.283	
16,700.00	7,630.00	7,604.94	7,602.99	139.24	26.62	-87.20	-5,279.22	1,813.60	1,690.38	1,612.45	77.93	21.692	
16,800.00	7,630.00	7,604.32	7,602.37	140.94	26.62	-87.04	-5,279.22	1,813.59	1,789.53	1,712.07	77.47	23.100	
16,900.00	7,630.00	7,603.69	7,601.74	142.64	26.61	-86.88	-5,279.22	1,813.58	1,888.78	1,811.71	77.06	24.509	
17,000.00	7,630.00	7,603.04	7,601.09	144.34	26.61	-86.72	-5,279.23	1,813.58	1,988.10	1,911.39	76.71	25.917	
17,100.00	7,630.00	7,602.38	7,600.42	146.04	26.61	-86.55	-5,279.23	1,813.57	2,087.48	2,011.09	76.40	27.324	
17,200.00	7,630.00	7,601.69	7,599.74	147.74	26.61	-86.38	-5,279.23	1,813.56	2,186.93	2,110.81	76.12	28.730	
17,300.00	7,630.00	7,601.00	7,599.05	149.44	26.60	-86.20	-5,279.24	1,813.55	2,286.41	2,210.54	75.87	30.135	
17,400.00	7,630.00	7,600.28	7,598.33	151.15	26.60	-86.02	-5,279.24	1,813.54	2,385.95	2,310.29	75.65	31.538	
17,500.00	7,630.00	7,599.65	7,597.70	152.86	26.60	-85.86	-5,279.24	1,813.54	2,485.52	2,410.06	75.46	32.940	
17,600.00	7,630.00	7,599.09	7,597.14	154.56	26.60	-85.72	-5,279.25	1,813.53	2,585.12	2,509.84	75.28	34.341	
17,700.00	7,630.00	7,598.52	7,596.57	156.27	26.60	-85.57	-5,279.25	1,813.53	2,684.75	2,609.63	75.12	35.740	
17,800.00	7,630.00	7,597.96	7,596.01	157.98	26.59	-85.43	-5,279.25	1,813.52	2,784.41	2,709.43	74.98	37.137	
17,900.00	7,630.00	7,597.39	7,595.44	159.70	26.59	-85.29	-5,279.26	1,813.51	2,884.09	2,809.24	74.85	38.532	
18,000.00	7,630.00	7,596.82	7,594.87	161.41	26.59	-85.14	-5,279.26	1,813.51	2,983.79	2,909.06	74.73	39.926	
18,100.00	7,630.00	7,596.25	7,594.30	163.12	26.59	-85.00	-5,279.26	1,813.50	3,083.52	3,008.89	74.63	41.317	
18,154.00	7,630.00	7,595.95	7,594.00	164.05	26.59	-84.92	-5,279.27	1,813.50	3,137.38	3,062.80	74.58	42.068	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	134.26	-5,618.11	5,764.32	8,049.31				
100.00	100.00	71.00	71.00	0.13	0.55	134.26	-5,618.11	5,764.32	8,049.26	8,048.58	0.68	N/A	
200.00	200.00	171.00	171.00	0.49	2.01	134.26	-5,618.11	5,764.32	8,049.26	8,046.76	2.50	3,219.667	
300.00	300.00	271.00	271.00	0.85	3.75	134.26	-5,618.11	5,764.32	8,049.26	8,044.65	4.60	1,748.383	
400.00	400.00	371.00	371.00	1.21	5.50	134.26	-5,618.11	5,764.32	8,049.26	8,042.55	6.71	1,200.015	
500.00	500.00	471.00	471.00	1.57	7.24	134.26	-5,618.11	5,764.32	8,049.26	8,040.45	8.81	913.502	
600.00	600.00	571.00	571.00	1.93	8.99	134.26	-5,618.11	5,764.32	8,049.26	8,038.34	10.92	737.434	
700.00	700.00	671.00	671.00	2.29	10.73	134.26	-5,618.11	5,764.32	8,049.26	8,036.24	13.02	618.269	
800.00	800.00	771.00	771.00	2.64	12.48	134.26	-5,618.11	5,764.32	8,049.26	8,034.14	15.12	532.259	
900.00	900.00	871.00	871.00	3.00	14.22	134.26	-5,618.11	5,764.32	8,049.26	8,032.03	17.23	467.257	
1,000.00	1,000.00	971.00	971.00	3.36	15.97	134.26	-5,618.11	5,764.32	8,049.26	8,029.93	19.33	416.403	
1,100.00	1,100.00	1,071.00	1,071.00	3.72	17.72	134.26	-5,618.11	5,764.32	8,049.26	8,027.82	21.43	375.533	
1,200.00	1,200.00	1,171.00	1,171.00	4.08	19.46	134.26	-5,618.11	5,764.32	8,049.26	8,025.72	23.54	341.968	
1,300.00	1,300.00	1,271.00	1,271.00	4.44	21.21	134.26	-5,618.11	5,764.32	8,049.26	8,023.62	25.64	313.911	
1,400.00	1,400.00	1,371.00	1,371.00	4.79	22.95	134.26	-5,618.11	5,764.32	8,049.26	8,021.51	27.75	290.109	
1,500.00	1,499.98	1,470.98	1,470.98	5.15	24.70	96.47	-5,618.11	5,764.32	8,049.46	8,019.61	29.85	269.691	
1,600.00	1,599.84	1,570.84	1,570.84	5.51	26.44	96.49	-5,618.11	5,764.32	8,050.05	8,018.10	31.94	251.998	
1,700.00	1,699.45	1,670.45	1,670.45	5.87	28.18	96.53	-5,618.11	5,764.32	8,051.04	8,017.00	34.04	236.508	
1,800.00	1,798.70	1,769.70	1,769.70	6.23	29.91	96.59	-5,618.11	5,764.32	8,052.44	8,016.30	36.14	222.831	
1,900.00	1,897.47	1,868.47	1,868.47	6.60	31.63	96.66	-5,618.11	5,764.32	8,054.27	8,016.04	38.23	210.658	
2,000.00	1,995.62	1,966.62	1,966.62	6.99	33.35	96.75	-5,618.11	5,764.32	8,056.54	8,016.21	40.33	199.745	
2,100.00	2,093.06	2,064.06	2,064.06	7.39	35.05	96.85	-5,618.11	5,764.32	8,059.27	8,016.83	42.44	189.896	
2,200.00	2,189.64	2,160.64	2,160.64	7.82	36.73	96.96	-5,618.11	5,764.32	8,062.49	8,017.94	44.56	180.952	
2,300.00	2,285.27	2,256.27	2,256.27	8.28	38.40	97.09	-5,618.11	5,764.32	8,066.23	8,019.55	46.68	172.787	
2,400.00	2,379.82	2,350.82	2,350.82	8.77	40.05	97.22	-5,618.11	5,764.32	8,070.51	8,021.69	48.83	165.295	
2,500.00	2,473.17	2,444.17	2,444.17	9.31	41.68	97.36	-5,618.11	5,764.32	8,075.38	8,024.40	50.98	158.391	
2,600.00	2,565.21	2,536.21	2,536.21	9.88	43.29	97.50	-5,618.11	5,764.32	8,080.86	8,027.70	53.16	152.005	
2,660.67	2,620.37	2,608.63	2,591.37	10.25	44.55	97.59	-5,618.11	5,764.32	8,084.50	8,029.71	54.79	147.545	
2,700.00	2,655.96	2,626.96	2,626.96	10.50	44.87	97.70	-5,618.11	5,764.32	8,086.96	8,031.60	55.36	146.082	
2,800.00	2,746.43	2,717.43	2,717.43	11.15	46.45	97.97	-5,618.11	5,764.32	8,093.37	8,035.79	57.58	140.557	
2,900.00	2,836.90	2,807.90	2,807.90	11.82	48.03	98.24	-5,618.11	5,764.32	8,099.99	8,040.17	59.82	135.402	
3,000.00	2,927.37	2,901.63	2,898.37	12.50	49.67	98.51	-5,618.11	5,764.32	8,106.83	8,044.70	62.14	130.468	
3,100.00	3,017.85	2,988.85	2,988.85	13.21	51.19	98.78	-5,618.11	5,764.32	8,113.89	8,049.54	64.35	126.088	
3,200.00	3,108.32	3,079.32	3,079.32	13.92	52.77	99.05	-5,618.11	5,764.32	8,121.17	8,054.53	66.63	121.878	
3,300.00	3,198.79	3,169.79	3,169.79	14.64	54.35	99.32	-5,618.11	5,764.32	8,128.66	8,059.74	68.93	117.933	
3,400.00	3,289.27	3,260.27	3,260.27	15.38	55.92	99.59	-5,618.11	5,764.32	8,136.37	8,065.15	71.23	114.233	
3,500.00	3,379.74	3,350.74	3,350.74	16.12	57.50	99.85	-5,618.11	5,764.32	8,144.30	8,070.76	73.53	110.757	
3,600.00	3,470.21	3,441.21	3,441.21	16.87	59.08	100.12	-5,618.11	5,764.32	8,152.44	8,076.59	75.85	107.487	
3,700.00	3,560.68	3,531.68	3,531.68	17.62	60.66	100.39	-5,618.11	5,764.32	8,160.79	8,082.63	78.16	104.408	
3,800.00	3,651.16	3,622.16	3,622.16	18.39	62.24	100.66	-5,618.11	5,764.32	8,169.36	8,088.88	80.48	101.503	
3,900.00	3,741.63	3,712.63	3,712.63	19.15	63.82	100.92	-5,618.11	5,764.32	8,178.14	8,095.33	82.81	98.760	
4,000.00	3,832.10	3,803.10	3,803.10	19.92	65.40	101.19	-5,618.11	5,764.32	8,187.13	8,102.00	85.14	96.166	
4,100.00	3,922.57	3,906.43	3,893.57	20.69	67.20	101.45	-5,618.11	5,764.32	8,196.34	8,108.65	87.69	93.471	
4,200.00	4,013.05	3,984.05	3,984.05	21.47	68.56	101.72	-5,618.11	5,764.32	8,205.75	8,115.96	89.80	91.383	
4,300.00	4,103.52	4,074.52	4,074.52	22.25	70.14	101.98	-5,618.11	5,764.32	8,215.38	8,123.25	92.13	89.174	
4,400.00	4,193.99	4,164.99	4,164.99	23.03	71.72	102.25	-5,618.11	5,764.32	8,225.21	8,130.75	94.46	87.075	
4,500.00	4,284.47	4,255.47	4,255.47	23.81	73.29	102.51	-5,618.11	5,764.32	8,235.26	8,138.46	96.79	85.080	
4,600.00	4,374.94	4,345.94	4,345.94	24.60	74.87	102.77	-5,618.11	5,764.32	8,245.51	8,146.38	99.13	83.179	
4,700.00	4,465.41	4,436.41	4,436.41	25.39	76.45	103.04	-5,618.11	5,764.32	8,255.97	8,154.50	101.46	81.368	
4,800.00	4,555.88	4,526.88	4,526.88	26.18	78.03	103.30	-5,618.11	5,764.32	8,266.63	8,162.83	103.80	79.641	
4,900.00	4,646.36	4,617.36	4,617.36	26.97	79.61	103.56	-5,618.11	5,764.32	8,277.50	8,171.37	106.13	77.991	
5,000.00	4,736.83	4,707.83	4,707.83	27.76	81.19	103.82	-5,618.11	5,764.32	8,288.58	8,180.11	108.47	76.415	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,827.30	4,801.70	4,798.30	28.55	82.83	104.08	-5,618.11	5,764.32	8,299.86	8,188.99	110.86	74.867	
5,200.00	4,917.77	4,888.77	4,888.77	29.35	84.35	104.34	-5,618.11	5,764.32	8,311.34	8,198.20	113.14	73.463	
5,300.00	5,008.25	4,979.25	4,979.25	30.15	85.93	104.60	-5,618.11	5,764.32	8,323.02	8,207.55	115.47	72.080	
5,400.00	5,098.72	5,069.72	5,069.72	30.94	87.51	104.86	-5,618.11	5,764.32	8,334.91	8,217.11	117.80	70.754	
5,500.00	5,189.19	5,160.19	5,160.19	31.74	89.08	105.11	-5,618.11	5,764.32	8,346.99	8,226.86	120.13	69.482	
5,600.00	5,279.67	5,250.67	5,250.67	32.54	90.66	105.37	-5,618.11	5,764.32	8,359.28	8,236.82	122.46	68.260	
5,700.00	5,370.14	5,341.14	5,341.14	33.34	92.24	105.63	-5,618.11	5,764.32	8,371.76	8,246.97	124.79	67.086	
5,800.00	5,460.61	5,431.61	5,431.61	34.14	93.82	105.88	-5,618.11	5,764.32	8,384.44	8,257.33	127.12	65.957	
5,900.00	5,551.08	5,522.08	5,522.08	34.94	95.40	106.14	-5,618.11	5,764.32	8,397.32	8,267.88	129.45	64.871	
6,000.00	5,641.56	5,612.56	5,612.56	35.75	96.98	106.39	-5,618.11	5,764.32	8,410.40	8,278.63	131.77	63.826	
6,100.00	5,732.03	5,703.03	5,703.03	36.55	98.56	106.65	-5,618.11	5,764.32	8,423.67	8,289.57	134.09	62.819	
6,200.00	5,822.50	5,806.50	5,793.50	37.35	100.37	106.90	-5,618.11	5,764.32	8,437.13	8,300.49	136.64	61.746	
6,300.00	5,912.97	5,883.97	5,883.97	38.16	101.72	107.15	-5,618.11	5,764.32	8,450.79	8,312.05	138.74	60.912	
6,400.00	6,003.45	5,974.45	5,974.45	38.96	103.30	107.40	-5,618.11	5,764.32	8,464.64	8,323.58	141.06	60.009	
6,500.00	6,093.92	6,064.92	6,064.92	39.77	104.88	107.66	-5,618.11	5,764.32	8,478.68	8,335.31	143.37	59.137	
6,600.00	6,184.39	6,155.39	6,155.39	40.57	106.45	107.91	-5,618.11	5,764.32	8,492.91	8,347.22	145.69	58.294	
6,700.00	6,274.87	6,245.87	6,245.87	41.38	108.03	108.16	-5,618.11	5,764.32	8,507.34	8,359.33	148.00	57.480	
6,800.00	6,365.34	6,336.34	6,336.34	42.18	109.61	108.40	-5,618.11	5,764.32	8,521.95	8,371.63	150.32	56.693	
6,900.00	6,455.81	6,426.81	6,426.81	42.99	111.19	108.65	-5,618.11	5,764.32	8,536.74	8,384.12	152.63	55.932	
7,000.00	6,546.28	6,517.28	6,517.28	43.80	112.77	108.90	-5,618.11	5,764.32	8,551.73	8,396.79	154.94	55.195	
7,100.00	6,636.76	6,607.76	6,607.76	44.61	114.35	109.15	-5,618.11	5,764.32	8,566.90	8,409.65	157.24	54.482	
7,200.00	6,727.23	6,701.77	6,698.23	45.41	115.99	109.39	-5,618.11	5,764.32	8,582.25	8,422.64	159.61	53.770	
7,300.00	6,817.70	6,788.70	6,788.70	46.22	117.51	109.64	-5,618.11	5,764.32	8,597.79	8,435.94	161.85	53.122	
7,383.79	6,893.51	6,864.51	6,864.51	46.90	118.83	109.84	-5,618.11	5,764.32	8,610.95	8,447.17	163.78	52.577	
7,400.00	6,908.25	6,879.25	6,879.25	47.03	119.09	107.65	-5,618.11	5,764.32	8,613.31	8,449.16	164.15	52.472	
7,450.00	6,954.52	6,925.52	6,925.52	47.40	119.90	99.03	-5,618.11	5,764.32	8,618.13	8,452.84	165.30	52.137	
7,500.00	7,001.74	6,972.74	6,972.74	47.72	120.72	87.04	-5,618.11	5,764.32	8,619.19	8,452.76	166.43	51.787	
7,550.00	7,049.55	7,020.55	7,020.55	47.99	121.55	71.54	-5,618.11	5,764.32	8,616.47	8,448.92	167.55	51.427	
7,600.00	7,097.58	7,068.58	7,068.58	48.21	122.39	54.06	-5,618.11	5,764.32	8,609.97	8,441.34	168.63	51.060	
7,650.00	7,145.48	7,116.48	7,116.48	48.37	123.23	37.50	-5,618.11	5,764.32	8,599.74	8,430.07	169.66	50.687	
7,700.00	7,192.88	7,163.88	7,163.88	48.48	124.06	23.86	-5,618.11	5,764.32	8,585.84	8,415.19	170.65	50.312	
7,750.00	7,239.41	7,210.41	7,210.41	48.54	124.87	13.27	-5,618.11	5,764.32	8,568.39	8,396.80	171.59	49.936	
7,800.00	7,284.72	7,255.72	7,255.72	48.56	125.66	5.01	-5,618.11	5,764.32	8,547.50	8,375.03	172.47	49.560	
7,850.00	7,328.47	7,300.53	7,299.47	48.54	126.44	-1.69	-5,618.11	5,764.32	8,523.33	8,350.02	173.31	49.181	
7,900.00	7,370.32	7,341.32	7,341.32	48.47	127.15	-7.46	-5,618.11	5,764.32	8,496.07	8,322.02	174.04	48.817	
7,950.00	7,409.96	7,380.96	7,380.96	48.37	127.84	-12.74	-5,618.11	5,764.32	8,465.92	8,291.19	174.72	48.453	
8,000.00	7,447.08	7,418.08	7,418.08	48.24	128.49	-17.88	-5,618.11	5,764.32	8,433.12	8,257.78	175.33	48.098	
8,050.00	7,481.41	7,452.41	7,452.41	48.07	129.09	-23.13	-5,618.11	5,764.32	8,397.92	8,222.06	175.86	47.752	
8,100.00	7,512.67	7,483.67	7,483.67	47.87	129.64	-28.75	-5,618.11	5,764.32	8,360.60	8,184.29	176.31	47.419	
8,150.00	7,540.64	7,511.64	7,511.64	47.65	130.13	-34.93	-5,618.11	5,764.32	8,321.45	8,144.77	176.68	47.098	
8,200.00	7,565.09	7,536.09	7,536.09	47.40	130.55	-41.83	-5,618.11	5,764.32	8,280.79	8,103.82	176.97	46.792	
8,250.00	7,585.85	7,556.85	7,556.85	47.14	130.91	-49.53	-5,618.11	5,764.32	8,238.92	8,061.75	177.17	46.503	
8,300.00	7,602.75	7,573.75	7,573.75	46.86	131.21	-58.00	-5,618.11	5,764.32	8,196.19	8,018.90	177.28	46.232	
8,350.00	7,615.67	7,586.67	7,586.67	46.58	131.43	-67.01	-5,618.11	5,764.32	8,152.92	7,975.61	177.31	45.980	
8,400.00	7,624.51	7,604.49	7,595.51	46.28	131.75	-76.14	-5,618.11	5,764.32	8,109.48	7,932.06	177.42	45.708	
8,450.00	7,629.19	7,600.19	7,600.19	45.98	131.67	-84.92	-5,618.11	5,764.32	8,066.19	7,889.06	177.13	45.539	
8,481.00	7,630.00	7,601.00	7,601.00	45.79	131.69	-90.00	-5,618.11	5,764.32	8,039.57	7,862.57	177.00	45.420	
8,500.00	7,630.00	7,601.00	7,601.00	45.68	131.69	-90.00	-5,618.11	5,764.32	8,023.35	7,846.43	176.92	45.350	
8,600.00	7,630.00	7,601.00	7,601.00	45.11	131.69	-90.00	-5,618.11	5,764.32	7,938.14	7,761.66	176.48	44.981	
8,700.00	7,630.00	7,601.00	7,601.00	44.56	131.69	-90.00	-5,618.11	5,764.32	7,853.28	7,677.24	176.04	44.611	
8,800.00	7,630.00	7,601.00	7,601.00	44.05	131.69	-90.00	-5,618.11	5,764.32	7,768.78	7,593.17	175.61	44.239	
8,900.00	7,630.00	7,601.00	7,601.00	43.57	131.69	-90.00	-5,618.11	5,764.32	7,684.65	7,509.46	175.19	43.865	

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

Offset Design SEC 26-T1N-R68W - EXIST VERT ROBERTS 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,630.00	7,601.00	7,601.00	43.12	131.69	-90.00	-5,618.11	5,764.32	7,600.91	7,426.13	174.78	43.489	
9,100.00	7,630.00	7,601.00	7,601.00	42.70	131.69	-90.00	-5,618.11	5,764.32	7,517.57	7,343.19	174.38	43.111	
9,200.00	7,630.00	7,601.00	7,601.00	42.31	131.69	-90.00	-5,618.11	5,764.32	7,434.63	7,260.64	173.99	42.730	
9,300.00	7,630.00	7,601.00	7,601.00	41.94	131.69	-90.00	-5,618.11	5,764.32	7,352.12	7,178.50	173.62	42.346	
9,400.00	7,630.00	7,601.00	7,601.00	41.59	131.69	-90.00	-5,618.11	5,764.32	7,270.05	7,096.78	173.27	41.959	
9,500.00	7,630.00	7,601.00	7,601.00	41.26	131.69	-90.00	-5,618.11	5,764.32	7,188.43	7,015.50	172.93	41.568	
9,600.00	7,630.00	7,601.00	7,601.00	40.96	131.69	-90.00	-5,618.11	5,764.32	7,107.29	6,934.67	172.62	41.173	
9,700.00	7,630.00	7,601.00	7,601.00	40.68	131.69	-90.00	-5,618.11	5,764.32	7,026.63	6,854.29	172.33	40.774	
9,800.00	7,630.00	7,601.00	7,601.00	40.42	131.69	-90.00	-5,618.11	5,764.32	6,946.47	6,774.40	172.07	40.370	
9,900.00	7,630.00	7,601.00	7,601.00	40.17	131.69	-90.00	-5,618.11	5,764.32	6,866.83	6,694.99	171.84	39.960	
10,000.00	7,630.00	7,601.00	7,601.00	39.96	131.69	-90.00	-5,618.11	5,764.32	6,787.73	6,616.09	171.64	39.545	
10,100.00	7,630.00	7,601.00	7,601.00	40.05	131.69	-90.00	-5,618.11	5,764.32	6,709.19	6,537.71	171.49	39.124	
10,200.00	7,630.00	7,601.00	7,601.00	40.95	131.69	-90.00	-5,618.11	5,764.32	6,631.23	6,459.86	171.37	38.696	
10,300.00	7,630.00	7,601.00	7,601.00	41.94	131.69	-90.00	-5,618.11	5,764.32	6,553.86	6,382.58	171.29	38.262	
10,400.00	7,630.00	7,601.00	7,601.00	42.98	131.69	-90.00	-5,618.11	5,764.32	6,477.12	6,305.86	171.26	37.820	
10,500.00	7,630.00	7,601.00	7,601.00	44.06	131.69	-90.00	-5,618.11	5,764.32	6,401.02	6,229.74	171.28	37.371	
10,600.00	7,630.00	7,601.00	7,601.00	45.17	131.69	-90.00	-5,618.11	5,764.32	6,325.58	6,154.22	171.36	36.915	
10,700.00	7,630.00	7,601.00	7,601.00	46.32	131.69	-90.00	-5,618.11	5,764.32	6,250.83	6,079.34	171.49	36.450	
10,800.00	7,630.00	7,601.00	7,601.00	47.50	131.69	-90.00	-5,618.11	5,764.32	6,176.80	6,005.12	171.68	35.978	
10,900.00	7,630.00	7,601.00	7,601.00	48.70	131.69	-90.00	-5,618.11	5,764.32	6,103.51	5,931.57	171.94	35.497	
11,000.00	7,630.00	7,601.00	7,601.00	49.94	131.69	-90.00	-5,618.11	5,764.32	6,030.98	5,858.71	172.27	35.009	
11,100.00	7,630.00	7,601.00	7,601.00	51.20	131.69	-90.00	-5,618.11	5,764.32	5,959.25	5,786.59	172.67	34.513	
11,200.00	7,630.00	7,601.00	7,601.00	52.48	131.69	-90.00	-5,618.11	5,764.32	5,888.35	5,715.21	173.14	34.010	
11,300.00	7,630.00	7,601.00	7,601.00	53.79	131.69	-90.00	-5,618.11	5,764.32	5,818.30	5,644.62	173.68	33.500	
11,400.00	7,630.00	7,601.00	7,601.00	55.12	131.69	-90.00	-5,618.11	5,764.32	5,749.14	5,574.83	174.30	32.984	
11,500.00	7,630.00	7,601.00	7,601.00	56.46	131.69	-90.00	-5,618.11	5,764.32	5,680.89	5,505.89	175.00	32.462	
11,600.00	7,630.00	7,601.00	7,601.00	57.83	131.69	-90.00	-5,618.11	5,764.32	5,613.60	5,437.81	175.78	31.935	
11,700.00	7,630.00	7,601.00	7,601.00	59.22	131.69	-90.00	-5,618.11	5,764.32	5,547.29	5,370.64	176.65	31.403	
11,800.00	7,630.00	7,601.00	7,601.00	60.62	131.69	-90.00	-5,618.11	5,764.32	5,482.00	5,304.41	177.59	30.869	
11,900.00	7,630.00	7,601.00	7,601.00	62.04	131.69	-90.00	-5,618.11	5,764.32	5,417.78	5,239.16	178.62	30.332	
12,000.00	7,630.00	7,601.00	7,601.00	63.48	131.69	-90.00	-5,618.11	5,764.32	5,354.65	5,174.92	179.73	29.793	
12,100.00	7,630.00	7,601.00	7,601.00	64.93	131.69	-90.00	-5,618.11	5,764.32	5,292.65	5,111.74	180.92	29.255	
12,200.00	7,630.00	7,601.00	7,601.00	66.39	131.69	-90.00	-5,618.11	5,764.32	5,231.84	5,049.65	182.19	28.717	
12,300.00	7,630.00	7,601.00	7,601.00	67.86	131.69	-90.00	-5,618.11	5,764.32	5,172.24	4,988.70	183.54	28.181	
12,400.00	7,630.00	7,601.00	7,601.00	69.35	131.69	-90.00	-5,618.11	5,764.32	5,113.90	4,928.94	184.97	27.648	
12,500.00	7,630.00	7,601.00	7,601.00	70.85	131.69	-90.00	-5,618.11	5,764.32	5,056.87	4,870.40	186.47	27.119	
12,600.00	7,630.00	7,601.00	7,601.00	72.36	131.69	-90.00	-5,618.11	5,764.32	5,001.19	4,813.14	188.05	26.595	
12,700.00	7,630.00	7,601.00	7,601.00	73.88	131.69	-90.00	-5,618.11	5,764.32	4,946.90	4,757.20	189.70	26.077	
12,800.00	7,630.00	7,601.00	7,601.00	75.41	131.69	-90.00	-5,618.11	5,764.32	4,894.06	4,702.63	191.43	25.566	
12,900.00	7,630.00	7,601.00	7,601.00	76.95	131.69	-90.00	-5,618.11	5,764.32	4,842.70	4,649.48	193.22	25.064	
13,000.00	7,630.00	7,601.00	7,601.00	78.49	131.69	-90.00	-5,618.11	5,764.32	4,792.88	4,597.81	195.07	24.570	
13,100.00	7,630.00	7,601.00	7,601.00	80.05	131.69	-90.00	-5,618.11	5,764.32	4,744.64	4,547.66	196.99	24.086	
13,200.00	7,630.00	7,601.00	7,601.00	81.61	131.69	-90.00	-5,618.11	5,764.32	4,698.04	4,499.08	198.96	23.613	
13,300.00	7,630.00	7,601.00	7,601.00	83.18	131.69	-90.00	-5,618.11	5,764.32	4,653.12	4,452.13	200.99	23.151	
13,400.00	7,630.00	7,601.00	7,601.00	84.76	131.69	-90.00	-5,618.11	5,764.32	4,609.93	4,406.86	203.07	22.701	
13,500.00	7,630.00	7,601.00	7,601.00	86.34	131.69	-90.00	-5,618.11	5,764.32	4,568.53	4,363.33	205.20	22.264	
13,600.00	7,630.00	7,601.00	7,601.00	87.94	131.69	-90.00	-5,618.11	5,764.32	4,528.95	4,321.58	207.37	21.840	
13,700.00	7,630.00	7,601.00	7,601.00	89.53	131.69	-90.00	-5,618.11	5,764.32	4,491.25	4,281.67	209.58	21.430	
13,800.00	7,630.00	7,601.00	7,601.00	91.13	131.69	-90.00	-5,618.11	5,764.32	4,455.48	4,243.65	211.82	21.034	
13,900.00	7,630.00	7,601.00	7,601.00	92.74	131.69	-90.00	-5,618.11	5,764.32	4,421.68	4,207.58	214.10	20.653	
14,000.00	7,630.00	7,601.00	7,601.00	94.35	131.69	-90.00	-5,618.11	5,764.32	4,389.89	4,173.50	216.39	20.287	
14,100.00	7,630.00	7,601.00	7,601.00	95.97	131.69	-90.00	-5,618.11	5,764.32	4,360.17	4,141.47	218.71	19.936	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,200.00	7,630.00	7,601.00	7,601.00	97.60	131.69	-90.00	-5,618.11	5,764.32	4,332.56	4,111.52	221.04	19.601	
14,300.00	7,630.00	7,601.00	7,601.00	99.22	131.69	-90.00	-5,618.11	5,764.32	4,307.09	4,083.72	223.37	19.282	
14,400.00	7,630.00	7,601.00	7,601.00	100.85	131.69	-90.00	-5,618.11	5,764.32	4,283.80	4,058.09	225.71	18.979	
14,500.00	7,630.00	7,601.00	7,601.00	102.49	131.69	-90.00	-5,618.11	5,764.32	4,262.73	4,034.69	228.05	18.692	
14,600.00	7,630.00	7,601.00	7,601.00	104.13	131.69	-90.00	-5,618.11	5,764.32	4,243.92	4,013.54	230.37	18.422	
14,700.00	7,630.00	7,601.00	7,601.00	105.77	131.69	-90.00	-5,618.11	5,764.32	4,227.39	3,994.70	232.69	18.168	
14,800.00	7,630.00	7,601.00	7,601.00	107.42	131.69	-90.00	-5,618.11	5,764.32	4,213.16	3,978.18	234.98	17.930	
14,900.00	7,630.00	7,601.00	7,601.00	109.07	131.69	-90.00	-5,618.11	5,764.32	4,201.27	3,964.03	237.25	17.709	
15,000.00	7,630.00	7,601.00	7,601.00	110.72	131.69	-90.00	-5,618.11	5,764.32	4,191.73	3,952.25	239.48	17.503	
15,100.00	7,630.00	7,601.00	7,601.00	112.38	131.69	-90.00	-5,618.11	5,764.32	4,184.56	3,942.88	241.68	17.314	
15,200.00	7,630.00	7,601.00	7,601.00	114.04	131.69	-90.00	-5,618.11	5,764.32	4,179.78	3,935.94	243.84	17.142	
15,300.00	7,630.00	7,601.00	7,601.00	115.71	131.69	-90.00	-5,618.11	5,764.32	4,177.38	3,931.43	245.95	16.985	
15,350.27	7,630.00	7,601.00	7,601.00	116.54	131.69	-90.00	-5,618.11	5,764.32	4,177.07	3,930.08	246.99	16.912	CC
15,400.00	7,630.00	7,601.00	7,601.00	117.37	131.69	-90.00	-5,618.11	5,764.32	4,177.37	3,929.36	248.01	16.844	ES
15,500.00	7,630.00	7,601.00	7,601.00	119.04	131.69	-90.00	-5,618.11	5,764.32	4,179.76	3,929.74	250.02	16.718	
15,600.00	7,630.00	7,601.00	7,601.00	120.71	131.69	-90.00	-5,618.11	5,764.32	4,184.53	3,932.57	251.96	16.608	
15,700.00	7,630.00	7,601.00	7,601.00	122.39	131.69	-90.00	-5,618.11	5,764.32	4,191.69	3,937.84	253.85	16.513	
15,800.00	7,630.00	7,601.00	7,601.00	124.06	131.69	-90.00	-5,618.11	5,764.32	4,201.21	3,945.55	255.67	16.432	
15,900.00	7,630.00	7,601.00	7,601.00	125.74	131.69	-90.00	-5,618.11	5,764.32	4,213.09	3,955.68	257.42	16.367	
16,000.00	7,630.00	7,601.00	7,601.00	127.42	131.69	-90.00	-5,618.11	5,764.32	4,227.30	3,968.21	259.10	16.316	
16,100.00	7,630.00	7,601.00	7,601.00	129.10	131.69	-90.00	-5,618.11	5,764.32	4,243.82	3,983.12	260.71	16.278	
16,200.00	7,630.00	7,601.00	7,601.00	130.79	131.69	-90.00	-5,618.11	5,764.32	4,262.63	4,000.39	262.24	16.255	
16,300.00	7,630.00	7,601.00	7,601.00	132.48	131.69	-90.00	-5,618.11	5,764.32	4,283.68	4,019.98	263.70	16.244	SF
16,400.00	7,630.00	7,601.00	7,601.00	134.17	131.69	-90.00	-5,618.11	5,764.32	4,306.96	4,041.87	265.09	16.247	
16,500.00	7,630.00	7,601.00	7,601.00	135.86	131.69	-90.00	-5,618.11	5,764.32	4,332.42	4,066.02	266.40	16.263	
16,600.00	7,630.00	7,601.00	7,601.00	137.55	131.69	-90.00	-5,618.11	5,764.32	4,360.02	4,092.38	267.64	16.291	
16,700.00	7,630.00	7,601.00	7,601.00	139.24	131.69	-90.00	-5,618.11	5,764.32	4,389.73	4,120.93	268.80	16.331	
16,800.00	7,630.00	7,601.00	7,601.00	140.94	131.69	-90.00	-5,618.11	5,764.32	4,421.50	4,151.61	269.89	16.383	
16,900.00	7,630.00	7,601.00	7,601.00	142.64	131.69	-90.00	-5,618.11	5,764.32	4,455.29	4,184.39	270.90	16.446	
17,000.00	7,630.00	7,601.00	7,601.00	144.34	131.69	-90.00	-5,618.11	5,764.32	4,491.05	4,219.20	271.85	16.520	
17,100.00	7,630.00	7,601.00	7,601.00	146.04	131.69	-90.00	-5,618.11	5,764.32	4,528.74	4,256.02	272.73	16.605	
17,200.00	7,630.00	7,601.00	7,601.00	147.74	131.69	-90.00	-5,618.11	5,764.32	4,568.31	4,294.77	273.54	16.701	
17,300.00	7,630.00	7,601.00	7,601.00	149.44	131.69	-90.00	-5,618.11	5,764.32	4,609.71	4,335.43	274.28	16.807	
17,400.00	7,630.00	7,601.00	7,601.00	151.15	131.69	-90.00	-5,618.11	5,764.32	4,652.89	4,377.92	274.96	16.922	
17,500.00	7,630.00	7,601.00	7,601.00	152.86	131.69	-90.00	-5,618.11	5,764.32	4,697.80	4,422.21	275.58	17.047	
17,600.00	7,630.00	7,601.00	7,601.00	154.56	131.69	-90.00	-5,618.11	5,764.32	4,744.39	4,468.24	276.15	17.181	
17,700.00	7,630.00	7,601.00	7,601.00	156.27	131.69	-90.00	-5,618.11	5,764.32	4,792.62	4,515.96	276.65	17.324	
17,800.00	7,630.00	7,601.00	7,601.00	157.98	131.69	-90.00	-5,618.11	5,764.32	4,842.43	4,565.32	277.11	17.475	
17,900.00	7,630.00	7,601.00	7,601.00	159.70	131.69	-90.00	-5,618.11	5,764.32	4,893.78	4,616.27	277.51	17.635	
18,000.00	7,630.00	7,601.00	7,601.00	161.41	131.69	-90.00	-5,618.11	5,764.32	4,946.62	4,668.75	277.87	17.802	
18,100.00	7,630.00	7,601.00	7,601.00	163.12	131.69	-90.00	-5,618.11	5,764.32	5,000.90	4,722.72	278.17	17.978	
18,154.00	7,630.00	7,601.00	7,601.00	164.05	131.69	-90.00	-5,618.11	5,764.32	5,030.79	4,752.47	278.32	18.075	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	134.03	-4,824.13	4,990.90	6,941.44				
100.00	100.00	52.00	52.00	0.13	0.40	134.03	-4,824.13	4,990.90	6,941.28	6,940.74	0.53	N/A	
200.00	200.00	152.00	152.00	0.49	1.68	134.03	-4,824.13	4,990.90	6,941.28	6,939.11	2.17	3,201.082	
300.00	300.00	252.00	252.00	0.85	3.42	134.03	-4,824.13	4,990.90	6,941.28	6,937.00	4.27	1,624.748	
400.00	400.00	352.00	352.00	1.21	5.17	134.03	-4,824.13	4,990.90	6,941.28	6,934.90	6.38	1,088.654	
500.00	500.00	452.00	452.00	1.57	6.91	134.03	-4,824.13	4,990.90	6,941.28	6,932.80	8.48	818.564	
600.00	600.00	552.00	552.00	1.93	8.66	134.03	-4,824.13	4,990.90	6,941.28	6,930.69	10.58	655.851	
700.00	700.00	652.00	652.00	2.29	10.40	134.03	-4,824.13	4,990.90	6,941.28	6,928.59	12.69	547.099	
800.00	800.00	752.00	752.00	2.64	12.15	134.03	-4,824.13	4,990.90	6,941.28	6,926.48	14.79	469.283	
900.00	900.00	852.00	852.00	3.00	13.89	134.03	-4,824.13	4,990.90	6,941.28	6,924.38	16.90	410.847	
1,000.00	1,000.00	952.00	952.00	3.36	15.64	134.03	-4,824.13	4,990.90	6,941.28	6,922.28	19.00	365.353	
1,100.00	1,100.00	1,052.00	1,052.00	3.72	17.38	134.03	-4,824.13	4,990.90	6,941.28	6,920.17	21.10	328.930	
1,200.00	1,200.00	1,152.00	1,152.00	4.08	19.13	134.03	-4,824.13	4,990.90	6,941.28	6,918.07	23.21	299.110	
1,300.00	1,300.00	1,252.00	1,252.00	4.44	20.87	134.03	-4,824.13	4,990.90	6,941.28	6,915.97	25.31	274.248	
1,400.00	1,400.00	1,352.00	1,352.00	4.79	22.62	134.03	-4,824.13	4,990.90	6,941.28	6,913.86	27.41	253.202	
1,500.00	1,499.98	1,451.98	1,451.98	5.15	24.36	96.23	-4,824.13	4,990.90	6,941.46	6,911.95	29.52	235.181	
1,600.00	1,599.84	1,551.84	1,551.84	5.51	26.11	96.26	-4,824.13	4,990.90	6,942.04	6,910.42	31.61	219.592	
1,700.00	1,699.45	1,651.45	1,651.45	5.87	27.85	96.31	-4,824.13	4,990.90	6,942.99	6,909.28	33.71	205.965	
1,800.00	1,798.70	1,750.70	1,750.70	6.23	29.58	96.39	-4,824.13	4,990.90	6,944.35	6,908.55	35.81	193.947	
1,900.00	1,897.47	1,849.47	1,849.47	6.60	31.30	96.48	-4,824.13	4,990.90	6,946.13	6,908.22	37.90	183.265	
2,000.00	1,995.62	1,947.62	1,947.62	6.99	33.02	96.59	-4,824.13	4,990.90	6,948.34	6,908.33	40.00	173.698	
2,100.00	2,093.06	2,045.06	2,045.06	7.39	34.72	96.71	-4,824.13	4,990.90	6,951.01	6,908.90	42.11	165.072	
2,200.00	2,189.64	2,141.64	2,141.64	7.82	36.40	96.86	-4,824.13	4,990.90	6,954.17	6,909.95	44.22	157.248	
2,300.00	2,285.27	2,237.27	2,237.27	8.28	38.07	97.01	-4,824.13	4,990.90	6,957.86	6,911.51	46.35	150.110	
2,400.00	2,379.82	2,331.82	2,331.82	8.77	39.72	97.18	-4,824.13	4,990.90	6,962.11	6,913.62	48.49	143.568	
2,500.00	2,473.17	2,425.17	2,425.17	9.31	41.35	97.36	-4,824.13	4,990.90	6,966.96	6,916.31	50.65	137.545	
2,600.00	2,565.21	2,517.21	2,517.21	9.88	42.96	97.54	-4,824.13	4,990.90	6,972.46	6,919.63	52.83	131.979	
2,660.67	2,620.37	2,572.37	2,572.37	10.25	43.92	97.65	-4,824.13	4,990.90	6,976.13	6,921.96	54.16	128.805	
2,700.00	2,655.96	2,607.96	2,607.96	10.50	44.54	97.78	-4,824.13	4,990.90	6,978.61	6,923.58	55.03	126.821	
2,800.00	2,746.43	2,701.57	2,698.43	11.15	46.17	98.09	-4,824.13	4,990.90	6,985.09	6,927.79	57.30	121.897	
2,900.00	2,836.90	2,788.90	2,788.90	11.82	47.70	98.40	-4,824.13	4,990.90	6,991.83	6,932.34	59.49	117.531	
3,000.00	2,927.37	2,879.37	2,879.37	12.50	49.28	98.72	-4,824.13	4,990.90	6,998.82	6,937.08	61.75	113.348	
3,100.00	3,017.85	2,969.85	2,969.85	13.21	50.86	99.03	-4,824.13	4,990.90	7,006.07	6,942.05	64.02	109.442	
3,200.00	3,108.32	3,060.32	3,060.32	13.92	52.44	99.34	-4,824.13	4,990.90	7,013.56	6,947.27	66.30	105.788	
3,300.00	3,198.79	3,150.79	3,150.79	14.64	54.01	99.65	-4,824.13	4,990.90	7,021.31	6,952.72	68.59	102.368	
3,400.00	3,289.27	3,241.27	3,241.27	15.38	55.59	99.96	-4,824.13	4,990.90	7,029.31	6,958.42	70.89	99.161	
3,500.00	3,379.74	3,331.74	3,331.74	16.12	57.17	100.27	-4,824.13	4,990.90	7,037.55	6,964.36	73.19	96.151	
3,600.00	3,470.21	3,422.21	3,422.21	16.87	58.75	100.58	-4,824.13	4,990.90	7,046.04	6,970.54	75.50	93.322	
3,700.00	3,560.68	3,512.68	3,512.68	17.62	60.33	100.89	-4,824.13	4,990.90	7,054.78	6,976.97	77.82	90.658	
3,800.00	3,651.16	3,603.16	3,603.16	18.39	61.91	101.20	-4,824.13	4,990.90	7,063.77	6,983.63	80.14	88.147	
3,900.00	3,741.63	3,706.37	3,693.63	19.15	63.71	101.51	-4,824.13	4,990.90	7,073.00	6,990.32	82.68	85.547	
4,000.00	3,832.10	3,784.10	3,784.10	19.92	65.07	101.82	-4,824.13	4,990.90	7,082.47	6,997.69	84.78	83.539	
4,100.00	3,922.57	3,874.57	3,874.57	20.69	66.65	102.12	-4,824.13	4,990.90	7,092.19	7,005.09	87.11	81.420	
4,200.00	4,013.05	3,965.05	3,965.05	21.47	68.23	102.43	-4,824.13	4,990.90	7,102.15	7,012.72	89.43	79.413	
4,300.00	4,103.52	4,055.52	4,055.52	22.25	69.80	102.73	-4,824.13	4,990.90	7,112.35	7,020.59	91.76	77.510	
4,400.00	4,193.99	4,145.99	4,145.99	23.03	71.38	103.04	-4,824.13	4,990.90	7,122.80	7,028.71	94.09	75.702	
4,500.00	4,284.47	4,236.47	4,236.47	23.81	72.96	103.34	-4,824.13	4,990.90	7,133.48	7,037.06	96.42	73.985	
4,600.00	4,374.94	4,326.94	4,326.94	24.60	74.54	103.64	-4,824.13	4,990.90	7,144.40	7,045.65	98.75	72.350	
4,700.00	4,465.41	4,417.41	4,417.41	25.39	76.12	103.94	-4,824.13	4,990.90	7,155.55	7,054.48	101.08	70.793	
4,800.00	4,555.88	4,507.88	4,507.88	26.18	77.70	104.25	-4,824.13	4,990.90	7,166.94	7,063.54	103.41	69.309	
4,900.00	4,646.36	4,601.64	4,598.36	26.97	79.34	104.55	-4,824.13	4,990.90	7,178.57	7,072.78	105.79	67.856	
5,000.00	4,736.83	4,688.83	4,688.83	27.76	80.86	104.84	-4,824.13	4,990.90	7,190.43	7,082.37	108.06	66.541	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,827.30	4,779.30	4,779.30	28.55	82.44	105.14	-4,824.13	4,990.90	7,202.52	7,092.13	110.39	65.248	
5,200.00	4,917.77	4,869.77	4,869.77	29.35	84.02	105.44	-4,824.13	4,990.90	7,214.85	7,102.13	112.71	64.011	
5,300.00	5,008.25	4,960.25	4,960.25	30.15	85.60	105.74	-4,824.13	4,990.90	7,227.40	7,112.36	115.04	62.827	
5,400.00	5,098.72	5,050.72	5,050.72	30.94	87.17	106.03	-4,824.13	4,990.90	7,240.18	7,122.82	117.36	61.692	
5,500.00	5,189.19	5,141.19	5,141.19	31.74	88.75	106.33	-4,824.13	4,990.90	7,253.19	7,133.51	119.68	60.604	
5,600.00	5,279.67	5,231.67	5,231.67	32.54	90.33	106.62	-4,824.13	4,990.90	7,266.43	7,144.43	122.00	59.560	
5,700.00	5,370.14	5,322.14	5,322.14	33.34	91.91	106.92	-4,824.13	4,990.90	7,279.89	7,155.57	124.32	58.557	
5,800.00	5,460.61	5,412.61	5,412.61	34.14	93.49	107.21	-4,824.13	4,990.90	7,293.58	7,166.94	126.64	57.594	
5,900.00	5,551.08	5,503.08	5,503.08	34.94	95.07	107.50	-4,824.13	4,990.90	7,307.49	7,178.53	128.95	56.668	
6,000.00	5,641.56	5,606.44	5,593.56	35.75	96.87	107.79	-4,824.13	4,990.90	7,321.62	7,190.12	131.49	55.681	
6,100.00	5,732.03	5,684.03	5,684.03	36.55	98.23	108.08	-4,824.13	4,990.90	7,335.97	7,202.39	133.58	54.919	
6,200.00	5,822.50	5,774.50	5,774.50	37.35	99.81	108.37	-4,824.13	4,990.90	7,350.53	7,214.65	135.89	54.092	
6,300.00	5,912.97	5,864.97	5,864.97	38.16	101.39	108.66	-4,824.13	4,990.90	7,365.32	7,227.12	138.20	53.296	
6,400.00	6,003.45	5,955.45	5,955.45	38.96	102.96	108.94	-4,824.13	4,990.90	7,380.32	7,239.82	140.50	52.528	
6,500.00	6,093.92	6,045.92	6,045.92	39.77	104.54	109.23	-4,824.13	4,990.90	7,395.54	7,252.74	142.81	51.787	
6,600.00	6,184.39	6,136.39	6,136.39	40.57	106.12	109.51	-4,824.13	4,990.90	7,410.97	7,265.87	145.11	51.072	
6,700.00	6,274.87	6,226.87	6,226.87	41.38	107.70	109.80	-4,824.13	4,990.90	7,426.62	7,279.21	147.41	50.382	
6,800.00	6,365.34	6,317.34	6,317.34	42.18	109.28	110.08	-4,824.13	4,990.90	7,442.47	7,292.77	149.70	49.714	
6,900.00	6,455.81	6,407.81	6,407.81	42.99	110.86	110.36	-4,824.13	4,990.90	7,458.54	7,306.54	152.00	49.070	
7,000.00	6,546.28	6,501.72	6,498.28	43.80	112.50	110.64	-4,824.13	4,990.90	7,474.81	7,320.46	154.35	48.427	
7,100.00	6,636.76	6,588.76	6,588.76	44.61	114.02	110.92	-4,824.13	4,990.90	7,491.29	7,334.71	156.58	47.843	
7,200.00	6,727.23	6,679.23	6,679.23	45.41	115.60	111.20	-4,824.13	4,990.90	7,507.97	7,349.10	158.87	47.259	
7,300.00	6,817.70	6,769.70	6,769.70	46.22	117.18	111.48	-4,824.13	4,990.90	7,524.86	7,363.71	161.16	46.693	
7,383.79	6,893.51	6,845.51	6,845.51	46.90	118.50	111.71	-4,824.13	4,990.90	7,539.17	7,376.10	163.07	46.233	
7,400.00	6,908.25	6,860.25	6,860.25	47.03	118.76	109.53	-4,824.13	4,990.90	7,541.75	7,378.31	163.44	46.144	
7,450.00	6,954.52	6,906.52	6,906.52	47.40	119.56	100.94	-4,824.13	4,990.90	7,547.22	7,382.64	164.58	45.858	
7,500.00	7,001.74	6,953.74	6,953.74	47.72	120.39	88.99	-4,824.13	4,990.90	7,548.86	7,383.15	165.71	45.555	
7,550.00	7,049.55	7,001.55	7,001.55	47.99	121.22	73.53	-4,824.13	4,990.90	7,546.64	7,379.83	166.82	45.239	
7,600.00	7,097.58	7,049.58	7,049.58	48.21	122.06	56.11	-4,824.13	4,990.90	7,540.59	7,372.69	167.90	44.912	
7,650.00	7,145.48	7,102.52	7,097.48	48.37	122.98	39.61	-4,824.13	4,990.90	7,530.73	7,361.71	169.02	44.555	
7,700.00	7,192.88	7,144.88	7,144.88	48.48	123.72	26.04	-4,824.13	4,990.90	7,517.12	7,347.20	169.92	44.238	
7,750.00	7,239.41	7,208.59	7,191.41	48.54	124.84	15.54	-4,824.13	4,990.90	7,499.88	7,328.71	171.17	43.816	
7,800.00	7,284.72	7,236.72	7,236.72	48.56	125.33	7.38	-4,824.13	4,990.90	7,479.11	7,307.36	171.75	43.546	
7,850.00	7,328.47	7,280.47	7,280.47	48.54	126.09	0.78	-4,824.13	4,990.90	7,454.98	7,282.40	172.58	43.198	
7,900.00	7,370.32	7,322.32	7,322.32	48.47	126.82	-4.86	-4,824.13	4,990.90	7,427.66	7,254.32	173.34	42.850	
7,950.00	7,409.96	7,361.96	7,361.96	48.37	127.51	-10.01	-4,824.13	4,990.90	7,397.38	7,223.34	174.03	42.506	
8,000.00	7,447.08	7,400.92	7,399.08	48.24	128.19	-15.01	-4,824.13	4,990.90	7,364.35	7,189.67	174.69	42.158	
8,050.00	7,481.41	7,433.41	7,433.41	48.07	128.76	-20.13	-4,824.13	4,990.90	7,328.84	7,153.64	175.20	41.832	
8,100.00	7,512.67	7,464.67	7,464.67	47.87	129.31	-25.63	-4,824.13	4,990.90	7,291.13	7,115.46	175.66	41.506	
8,150.00	7,540.64	7,507.36	7,492.64	47.65	130.05	-31.75	-4,824.13	4,990.90	7,251.50	7,075.20	176.30	41.131	
8,200.00	7,565.09	7,517.09	7,517.09	47.40	130.22	-38.68	-4,824.13	4,990.90	7,210.28	7,033.93	176.35	40.887	
8,250.00	7,585.85	7,537.85	7,537.85	47.14	130.58	-46.57	-4,824.13	4,990.90	7,167.78	6,991.22	176.57	40.596	
8,300.00	7,602.75	7,554.75	7,554.75	46.86	130.88	-55.43	-4,824.13	4,990.90	7,124.35	6,947.65	176.70	40.319	
8,350.00	7,615.67	7,567.67	7,567.67	46.58	131.10	-65.03	-4,824.13	4,990.90	7,080.33	6,903.58	176.75	40.059	
8,400.00	7,624.51	7,576.51	7,576.51	46.28	131.26	-74.91	-4,824.13	4,990.90	7,036.06	6,859.35	176.71	39.817	
8,450.00	7,629.19	7,581.19	7,581.19	45.98	131.34	-84.47	-4,824.13	4,990.90	6,991.91	6,815.31	176.59	39.593	
8,481.00	7,630.00	7,582.00	7,582.00	45.79	131.35	-90.00	-4,824.13	4,990.90	6,964.74	6,788.25	176.48	39.464	
8,500.00	7,630.00	7,582.00	7,582.00	45.68	131.35	-90.00	-4,824.13	4,990.90	6,948.16	6,771.76	176.40	39.388	
8,600.00	7,630.00	7,582.00	7,582.00	45.11	131.35	-90.00	-4,824.13	4,990.90	6,861.14	6,685.14	175.99	38.985	
8,700.00	7,630.00	7,582.00	7,582.00	44.56	131.35	-90.00	-4,824.13	4,990.90	6,774.47	6,598.88	175.59	38.582	
8,800.00	7,630.00	7,582.00	7,582.00	44.05	131.35	-90.00	-4,824.13	4,990.90	6,688.17	6,512.98	175.19	38.178	
8,900.00	7,630.00	7,582.00	7,582.00	43.57	131.35	-90.00	-4,824.13	4,990.90	6,602.26	6,427.47	174.79	37.773	

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

Offset Design SEC 26-T1N-R68W - EXIST VERT SHANNON ROBERTS 26-5 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,630.00	7,582.00	7,582.00	43.12	131.35	-90.00	-4,824.13	4,990.90	6,516.75	6,342.35	174.40	37.367	
9,100.00	7,630.00	7,582.00	7,582.00	42.70	131.35	-90.00	-4,824.13	4,990.90	6,431.66	6,257.64	174.02	36.960	
9,200.00	7,630.00	7,582.00	7,582.00	42.31	131.35	-90.00	-4,824.13	4,990.90	6,347.01	6,173.36	173.65	36.551	
9,300.00	7,630.00	7,582.00	7,582.00	41.94	131.35	-90.00	-4,824.13	4,990.90	6,262.80	6,089.52	173.29	36.141	
9,400.00	7,630.00	7,582.00	7,582.00	41.59	131.35	-90.00	-4,824.13	4,990.90	6,179.07	6,006.13	172.94	35.729	
9,500.00	7,630.00	7,582.00	7,582.00	41.26	131.35	-90.00	-4,824.13	4,990.90	6,095.83	5,923.22	172.61	35.315	
9,600.00	7,630.00	7,582.00	7,582.00	40.96	131.35	-90.00	-4,824.13	4,990.90	6,013.10	5,840.80	172.30	34.898	
9,700.00	7,630.00	7,582.00	7,582.00	40.68	131.35	-90.00	-4,824.13	4,990.90	5,930.90	5,758.89	172.02	34.479	
9,800.00	7,630.00	7,582.00	7,582.00	40.42	131.35	-90.00	-4,824.13	4,990.90	5,849.26	5,677.50	171.75	34.056	
9,900.00	7,630.00	7,582.00	7,582.00	40.17	131.35	-90.00	-4,824.13	4,990.90	5,768.19	5,596.67	171.52	33.630	
10,000.00	7,630.00	7,582.00	7,582.00	39.96	131.35	-90.00	-4,824.13	4,990.90	5,687.73	5,516.41	171.31	33.201	
10,100.00	7,630.00	7,582.00	7,582.00	40.05	131.35	-90.00	-4,824.13	4,990.90	5,607.89	5,436.75	171.14	32.767	
10,200.00	7,630.00	7,582.00	7,582.00	40.95	131.35	-90.00	-4,824.13	4,990.90	5,528.71	5,357.70	171.02	32.329	
10,300.00	7,630.00	7,582.00	7,582.00	41.94	131.35	-90.00	-4,824.13	4,990.90	5,450.22	5,279.29	170.93	31.886	
10,400.00	7,630.00	7,582.00	7,582.00	42.98	131.35	-90.00	-4,824.13	4,990.90	5,372.44	5,201.55	170.89	31.438	
10,500.00	7,630.00	7,582.00	7,582.00	44.06	131.35	-90.00	-4,824.13	4,990.90	5,295.41	5,124.50	170.90	30.985	
10,600.00	7,630.00	7,582.00	7,582.00	45.17	131.35	-90.00	-4,824.13	4,990.90	5,219.15	5,048.18	170.97	30.526	
10,700.00	7,630.00	7,582.00	7,582.00	46.32	131.35	-90.00	-4,824.13	4,990.90	5,143.71	4,972.61	171.11	30.062	
10,800.00	7,630.00	7,582.00	7,582.00	47.50	131.35	-90.00	-4,824.13	4,990.90	5,069.12	4,897.82	171.30	29.591	
10,900.00	7,630.00	7,582.00	7,582.00	48.70	131.35	-90.00	-4,824.13	4,990.90	4,995.42	4,823.85	171.57	29.116	
11,000.00	7,630.00	7,582.00	7,582.00	49.94	131.35	-90.00	-4,824.13	4,990.90	4,922.64	4,750.73	171.91	28.634	
11,100.00	7,630.00	7,582.00	7,582.00	51.20	131.35	-90.00	-4,824.13	4,990.90	4,850.84	4,678.50	172.34	28.147	
11,200.00	7,630.00	7,582.00	7,582.00	52.48	131.35	-90.00	-4,824.13	4,990.90	4,780.05	4,607.21	172.84	27.656	
11,300.00	7,630.00	7,582.00	7,582.00	53.79	131.35	-90.00	-4,824.13	4,990.90	4,710.32	4,536.88	173.43	27.159	
11,400.00	7,630.00	7,582.00	7,582.00	55.12	131.35	-90.00	-4,824.13	4,990.90	4,641.69	4,467.58	174.11	26.659	
11,500.00	7,630.00	7,582.00	7,582.00	56.46	131.35	-90.00	-4,824.13	4,990.90	4,574.22	4,399.33	174.89	26.155	
11,600.00	7,630.00	7,582.00	7,582.00	57.83	131.35	-90.00	-4,824.13	4,990.90	4,507.96	4,332.21	175.76	25.649	
11,700.00	7,630.00	7,582.00	7,582.00	59.22	131.35	-90.00	-4,824.13	4,990.90	4,442.97	4,266.25	176.72	25.141	
11,800.00	7,630.00	7,582.00	7,582.00	60.62	131.35	-90.00	-4,824.13	4,990.90	4,379.29	4,201.51	177.78	24.633	
11,900.00	7,630.00	7,582.00	7,582.00	62.04	131.35	-90.00	-4,824.13	4,990.90	4,316.99	4,138.05	178.94	24.125	
12,000.00	7,630.00	7,582.00	7,582.00	63.48	131.35	-90.00	-4,824.13	4,990.90	4,256.13	4,075.92	180.20	23.619	
12,100.00	7,630.00	7,582.00	7,582.00	64.93	131.35	-90.00	-4,824.13	4,990.90	4,196.76	4,015.21	181.56	23.115	
12,200.00	7,630.00	7,582.00	7,582.00	66.39	131.35	-90.00	-4,824.13	4,990.90	4,138.97	3,955.96	183.01	22.616	
12,300.00	7,630.00	7,582.00	7,582.00	67.86	131.35	-90.00	-4,824.13	4,990.90	4,082.80	3,898.25	184.55	22.123	
12,400.00	7,630.00	7,582.00	7,582.00	69.35	131.35	-90.00	-4,824.13	4,990.90	4,028.34	3,842.15	186.19	21.636	
12,500.00	7,630.00	7,582.00	7,582.00	70.85	131.35	-90.00	-4,824.13	4,990.90	3,975.64	3,787.72	187.91	21.157	
12,600.00	7,630.00	7,582.00	7,582.00	72.36	131.35	-90.00	-4,824.13	4,990.90	3,924.78	3,735.06	189.73	20.687	
12,700.00	7,630.00	7,582.00	7,582.00	73.88	131.35	-90.00	-4,824.13	4,990.90	3,875.84	3,684.22	191.62	20.227	
12,800.00	7,630.00	7,582.00	7,582.00	75.41	131.35	-90.00	-4,824.13	4,990.90	3,828.89	3,635.30	193.59	19.778	
12,900.00	7,630.00	7,582.00	7,582.00	76.95	131.35	-90.00	-4,824.13	4,990.90	3,783.99	3,588.36	195.63	19.343	
13,000.00	7,630.00	7,582.00	7,582.00	78.49	131.35	-90.00	-4,824.13	4,990.90	3,741.23	3,543.49	197.74	18.920	
13,100.00	7,630.00	7,582.00	7,582.00	80.05	131.35	-90.00	-4,824.13	4,990.90	3,700.68	3,500.77	199.91	18.512	
13,200.00	7,630.00	7,582.00	7,582.00	81.61	131.35	-90.00	-4,824.13	4,990.90	3,662.41	3,460.28	202.13	18.119	
13,300.00	7,630.00	7,582.00	7,582.00	83.18	131.35	-90.00	-4,824.13	4,990.90	3,626.49	3,422.10	204.40	17.742	
13,400.00	7,630.00	7,582.00	7,582.00	84.76	131.35	-90.00	-4,824.13	4,990.90	3,593.00	3,386.30	206.70	17.382	
13,500.00	7,630.00	7,582.00	7,582.00	86.34	131.35	-90.00	-4,824.13	4,990.90	3,562.01	3,352.96	209.04	17.040	
13,600.00	7,630.00	7,582.00	7,582.00	87.94	131.35	-90.00	-4,824.13	4,990.90	3,533.57	3,322.16	211.41	16.715	
13,700.00	7,630.00	7,582.00	7,582.00	89.53	131.35	-90.00	-4,824.13	4,990.90	3,507.75	3,293.97	213.78	16.408	
13,800.00	7,630.00	7,582.00	7,582.00	91.13	131.35	-90.00	-4,824.13	4,990.90	3,484.62	3,268.45	216.16	16.120	
13,900.00	7,630.00	7,582.00	7,582.00	92.74	131.35	-90.00	-4,824.13	4,990.90	3,464.21	3,245.67	218.54	15.852	
14,000.00	7,630.00	7,582.00	7,582.00	94.35	131.35	-90.00	-4,824.13	4,990.90	3,446.59	3,225.68	220.91	15.602	
14,100.00	7,630.00	7,582.00	7,582.00	95.97	131.35	-90.00	-4,824.13	4,990.90	3,431.79	3,208.54	223.25	15.372	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,200.00	7,630.00	7,582.00	7,582.00	97.60	131.35	-90.00	-4,824.13	4,990.90	3,419.86	3,194.29	225.56	15.161	
14,300.00	7,630.00	7,582.00	7,582.00	99.22	131.35	-90.00	-4,824.13	4,990.90	3,410.81	3,182.97	227.84	14.970	
14,400.00	7,630.00	7,582.00	7,582.00	100.85	131.35	-90.00	-4,824.13	4,990.90	3,404.68	3,174.62	230.07	14.799	
14,500.00	7,630.00	7,582.00	7,582.00	102.49	131.35	-90.00	-4,824.13	4,990.90	3,401.48	3,169.25	232.24	14.647	
14,558.91	7,630.00	7,582.00	7,582.00	103.46	131.35	-90.00	-4,824.13	4,990.90	3,400.97	3,167.48	233.49	14.566	CC
14,600.00	7,630.00	7,582.00	7,582.00	104.13	131.35	-90.00	-4,824.13	4,990.90	3,401.22	3,166.87	234.35	14.514	ES
14,700.00	7,630.00	7,582.00	7,582.00	105.77	131.35	-90.00	-4,824.13	4,990.90	3,403.90	3,167.51	236.38	14.400	
14,800.00	7,630.00	7,582.00	7,582.00	107.42	131.35	-90.00	-4,824.13	4,990.90	3,409.51	3,171.16	238.35	14.305	
14,900.00	7,630.00	7,582.00	7,582.00	109.07	131.35	-90.00	-4,824.13	4,990.90	3,418.03	3,177.80	240.23	14.228	
15,000.00	7,630.00	7,582.00	7,582.00	110.72	131.35	-90.00	-4,824.13	4,990.90	3,429.46	3,187.43	242.03	14.170	
15,100.00	7,630.00	7,582.00	7,582.00	112.38	131.35	-90.00	-4,824.13	4,990.90	3,443.75	3,200.01	243.74	14.129	
15,200.00	7,630.00	7,582.00	7,582.00	114.04	131.35	-90.00	-4,824.13	4,990.90	3,460.87	3,215.52	245.35	14.106	
15,300.00	7,630.00	7,582.00	7,582.00	115.71	131.35	-90.00	-4,824.13	4,990.90	3,480.78	3,233.91	246.87	14.099	SF
15,400.00	7,630.00	7,582.00	7,582.00	117.37	131.35	-90.00	-4,824.13	4,990.90	3,503.43	3,255.13	248.30	14.110	
15,500.00	7,630.00	7,582.00	7,582.00	119.04	131.35	-90.00	-4,824.13	4,990.90	3,528.78	3,279.15	249.63	14.136	
15,600.00	7,630.00	7,582.00	7,582.00	120.71	131.35	-90.00	-4,824.13	4,990.90	3,556.75	3,305.89	250.87	14.178	
15,700.00	7,630.00	7,582.00	7,582.00	122.39	131.35	-90.00	-4,824.13	4,990.90	3,587.30	3,335.29	252.01	14.235	
15,800.00	7,630.00	7,582.00	7,582.00	124.06	131.35	-90.00	-4,824.13	4,990.90	3,620.35	3,367.29	253.06	14.306	
15,900.00	7,630.00	7,582.00	7,582.00	125.74	131.35	-90.00	-4,824.13	4,990.90	3,655.84	3,401.82	254.02	14.392	
16,000.00	7,630.00	7,582.00	7,582.00	127.42	131.35	-90.00	-4,824.13	4,990.90	3,693.69	3,438.80	254.89	14.491	
16,100.00	7,630.00	7,582.00	7,582.00	129.10	131.35	-90.00	-4,824.13	4,990.90	3,733.84	3,478.17	255.67	14.604	
16,200.00	7,630.00	7,582.00	7,582.00	130.79	131.35	-90.00	-4,824.13	4,990.90	3,776.21	3,519.84	256.38	14.729	
16,300.00	7,630.00	7,582.00	7,582.00	132.48	131.35	-90.00	-4,824.13	4,990.90	3,820.74	3,563.73	257.00	14.866	
16,400.00	7,630.00	7,582.00	7,582.00	134.17	131.35	-90.00	-4,824.13	4,990.90	3,867.33	3,609.77	257.56	15.015	
16,500.00	7,630.00	7,582.00	7,582.00	135.86	131.35	-90.00	-4,824.13	4,990.90	3,915.92	3,657.89	258.04	15.176	
16,600.00	7,630.00	7,582.00	7,582.00	137.55	131.35	-90.00	-4,824.13	4,990.90	3,966.44	3,707.99	258.45	15.347	
16,700.00	7,630.00	7,582.00	7,582.00	139.24	131.35	-90.00	-4,824.13	4,990.90	4,018.82	3,760.01	258.81	15.528	
16,800.00	7,630.00	7,582.00	7,582.00	140.94	131.35	-90.00	-4,824.13	4,990.90	4,072.97	3,813.87	259.10	15.720	
16,900.00	7,630.00	7,582.00	7,582.00	142.64	131.35	-90.00	-4,824.13	4,990.90	4,128.84	3,869.50	259.34	15.921	
17,000.00	7,630.00	7,582.00	7,582.00	144.34	131.35	-90.00	-4,824.13	4,990.90	4,186.35	3,926.83	259.53	16.131	
17,100.00	7,630.00	7,582.00	7,582.00	146.04	131.35	-90.00	-4,824.13	4,990.90	4,245.44	3,985.77	259.67	16.349	
17,200.00	7,630.00	7,582.00	7,582.00	147.74	131.35	-90.00	-4,824.13	4,990.90	4,306.04	4,046.27	259.77	16.577	
17,300.00	7,630.00	7,582.00	7,582.00	149.44	131.35	-90.00	-4,824.13	4,990.90	4,368.09	4,108.27	259.82	16.812	
17,400.00	7,630.00	7,582.00	7,582.00	151.15	131.35	-90.00	-4,824.13	4,990.90	4,431.53	4,171.68	259.84	17.055	
17,500.00	7,630.00	7,582.00	7,582.00	152.86	131.35	-90.00	-4,824.13	4,990.90	4,496.29	4,236.46	259.83	17.305	
17,600.00	7,630.00	7,582.00	7,582.00	154.56	131.35	-90.00	-4,824.13	4,990.90	4,562.33	4,302.55	259.78	17.562	
17,700.00	7,630.00	7,582.00	7,582.00	156.27	131.35	-90.00	-4,824.13	4,990.90	4,629.59	4,369.88	259.71	17.826	
17,800.00	7,630.00	7,582.00	7,582.00	157.98	131.35	-90.00	-4,824.13	4,990.90	4,698.01	4,438.40	259.61	18.096	
17,900.00	7,630.00	7,582.00	7,582.00	159.70	131.35	-90.00	-4,824.13	4,990.90	4,767.55	4,508.06	259.49	18.373	
18,000.00	7,630.00	7,582.00	7,582.00	161.41	131.35	-90.00	-4,824.13	4,990.90	4,838.15	4,578.81	259.35	18.655	
18,100.00	7,630.00	7,582.00	7,582.00	163.12	131.35	-90.00	-4,824.13	4,990.90	4,909.78	4,650.60	259.18	18.943	
18,154.00	7,630.00	7,582.00	7,582.00	164.05	131.35	-90.00	-4,824.13	4,990.90	4,948.87	4,689.78	259.09	19.101	

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

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	142.21	-4,088.57	3,170.43	5,173.84				
100.00	100.00	77.00	77.00	0.13	0.60	142.21	-4,088.57	3,170.43	5,173.78	5,173.05	0.73	7,063.526	
200.00	200.00	177.00	177.00	0.49	2.12	142.21	-4,088.57	3,170.43	5,173.78	5,171.17	2.61	1,979.657	
300.00	300.00	277.00	277.00	0.85	3.87	142.21	-4,088.57	3,170.43	5,173.78	5,169.07	4.72	1,096.774	
400.00	400.00	377.00	377.00	1.21	5.61	142.21	-4,088.57	3,170.43	5,173.78	5,166.96	6.82	758.500	
500.00	500.00	477.00	477.00	1.57	7.36	142.21	-4,088.57	3,170.43	5,173.78	5,164.86	8.92	579.704	
600.00	600.00	577.00	577.00	1.93	9.10	142.21	-4,088.57	3,170.43	5,173.78	5,162.76	11.03	469.121	
700.00	700.00	677.00	677.00	2.29	10.85	142.21	-4,088.57	3,170.43	5,173.78	5,160.65	13.13	393.969	
800.00	800.00	777.00	777.00	2.64	12.59	142.21	-4,088.57	3,170.43	5,173.78	5,158.55	15.24	339.570	
900.00	900.00	877.00	877.00	3.00	14.34	142.21	-4,088.57	3,170.43	5,173.78	5,156.44	17.34	298.371	
1,000.00	1,000.00	977.00	977.00	3.36	16.08	142.21	-4,088.57	3,170.43	5,173.78	5,154.34	19.44	266.088	
1,100.00	1,100.00	1,077.00	1,077.00	3.72	17.83	142.21	-4,088.57	3,170.43	5,173.78	5,152.24	21.55	240.109	
1,200.00	1,200.00	1,177.00	1,177.00	4.08	19.57	142.21	-4,088.57	3,170.43	5,173.78	5,150.13	23.65	218.751	
1,300.00	1,300.00	1,277.00	1,277.00	4.44	21.32	142.21	-4,088.57	3,170.43	5,173.78	5,148.03	25.76	200.882	
1,400.00	1,400.00	1,377.00	1,377.00	4.79	23.06	142.21	-4,088.57	3,170.43	5,173.78	5,145.93	27.86	185.713	
1,500.00	1,499.98	1,476.98	1,476.98	5.15	24.81	104.41	-4,088.57	3,170.43	5,174.22	5,144.26	29.96	172.701	
1,600.00	1,599.84	1,576.84	1,576.84	5.51	26.55	104.44	-4,088.57	3,170.43	5,175.52	5,143.47	32.06	161.439	
1,700.00	1,699.45	1,676.45	1,676.45	5.87	28.29	104.49	-4,088.57	3,170.43	5,177.71	5,143.55	34.16	151.592	
1,800.00	1,798.70	1,775.70	1,775.70	6.23	30.02	104.56	-4,088.57	3,170.43	5,180.79	5,144.54	36.25	142.913	
1,900.00	1,897.47	1,874.47	1,874.47	6.60	31.75	104.65	-4,088.57	3,170.43	5,184.78	5,146.43	38.35	135.203	
2,000.00	1,995.62	1,972.62	1,972.62	6.99	33.46	104.76	-4,088.57	3,170.43	5,189.71	5,149.26	40.45	128.307	
2,100.00	2,093.06	2,070.06	2,070.06	7.39	35.16	104.88	-4,088.57	3,170.43	5,195.60	5,153.05	42.55	122.100	
2,200.00	2,189.64	2,166.64	2,166.64	7.82	36.85	105.01	-4,088.57	3,170.43	5,202.50	5,157.83	44.66	116.480	
2,300.00	2,285.27	2,262.27	2,262.27	8.28	38.52	105.15	-4,088.57	3,170.43	5,210.43	5,163.64	46.79	111.366	
2,400.00	2,379.82	2,356.82	2,356.82	8.77	40.17	105.31	-4,088.57	3,170.43	5,219.44	5,170.52	48.92	106.691	
2,500.00	2,473.17	2,450.17	2,450.17	9.31	41.79	105.47	-4,088.57	3,170.43	5,229.57	5,178.50	51.07	102.400	
2,600.00	2,565.21	2,542.21	2,542.21	9.88	43.40	105.63	-4,088.57	3,170.43	5,240.88	5,187.65	53.23	98.449	
2,660.67	2,620.37	2,602.63	2,597.37	10.25	44.46	105.73	-4,088.57	3,170.43	5,248.33	5,193.68	54.65	96.040	
2,700.00	2,655.96	2,632.96	2,632.96	10.50	44.99	105.89	-4,088.57	3,170.43	5,253.34	5,197.92	55.42	94.800	
2,800.00	2,746.43	2,723.43	2,723.43	11.15	46.56	106.29	-4,088.57	3,170.43	5,266.28	5,208.66	57.62	91.403	
2,900.00	2,836.90	2,813.90	2,813.90	11.82	48.14	106.70	-4,088.57	3,170.43	5,279.53	5,219.69	59.83	88.235	
3,000.00	2,927.37	2,904.37	2,904.37	12.50	49.72	107.10	-4,088.57	3,170.43	5,293.09	5,231.02	62.07	85.280	
3,100.00	3,017.85	3,005.15	2,994.85	13.21	51.48	107.50	-4,088.57	3,170.43	5,306.96	5,242.47	64.49	82.289	
3,200.00	3,108.32	3,085.32	3,085.32	13.92	52.88	107.90	-4,088.57	3,170.43	5,321.14	5,254.57	66.56	79.939	
3,300.00	3,198.79	3,175.79	3,175.79	14.64	54.46	108.30	-4,088.57	3,170.43	5,335.61	5,266.79	68.83	77.524	
3,400.00	3,289.27	3,266.27	3,266.27	15.38	56.04	108.70	-4,088.57	3,170.43	5,350.39	5,279.30	71.09	75.260	
3,500.00	3,379.74	3,356.74	3,356.74	16.12	57.62	109.09	-4,088.57	3,170.43	5,365.47	5,292.10	73.36	73.136	
3,600.00	3,470.21	3,447.21	3,447.21	16.87	59.20	109.49	-4,088.57	3,170.43	5,380.83	5,305.20	75.64	71.140	
3,700.00	3,560.68	3,537.68	3,537.68	17.62	60.78	109.88	-4,088.57	3,170.43	5,396.50	5,318.58	77.91	69.262	
3,800.00	3,651.16	3,628.16	3,628.16	18.39	62.35	110.27	-4,088.57	3,170.43	5,412.45	5,332.26	80.19	67.493	
3,900.00	3,741.63	3,718.63	3,718.63	19.15	63.93	110.65	-4,088.57	3,170.43	5,428.69	5,346.22	82.47	65.824	
4,000.00	3,832.10	3,809.10	3,809.10	19.92	65.51	111.04	-4,088.57	3,170.43	5,445.21	5,360.46	84.75	64.247	
4,100.00	3,922.57	3,900.43	3,899.57	20.69	67.11	111.42	-4,088.57	3,170.43	5,462.02	5,374.97	87.05	62.746	
4,200.00	4,013.05	4,009.95	3,990.05	21.47	69.02	111.80	-4,088.57	3,170.43	5,479.11	5,389.44	89.66	61.108	
4,300.00	4,103.52	4,080.52	4,080.52	22.25	70.25	112.18	-4,088.57	3,170.43	5,496.47	5,404.87	91.59	60.009	
4,400.00	4,193.99	4,170.99	4,170.99	23.03	71.83	112.56	-4,088.57	3,170.43	5,514.11	5,420.23	93.87	58.740	
4,500.00	4,284.47	4,261.47	4,261.47	23.81	73.41	112.93	-4,088.57	3,170.43	5,532.02	5,435.87	96.15	57.534	
4,600.00	4,374.94	4,351.94	4,351.94	24.60	74.99	113.30	-4,088.57	3,170.43	5,550.20	5,451.77	98.43	56.389	
4,700.00	4,465.41	4,442.41	4,442.41	25.39	76.57	113.67	-4,088.57	3,170.43	5,568.64	5,467.94	100.70	55.298	
4,800.00	4,555.88	4,532.88	4,532.88	26.18	78.15	114.04	-4,088.57	3,170.43	5,587.35	5,484.38	102.97	54.260	
4,900.00	4,646.36	4,623.36	4,623.36	26.97	79.72	114.41	-4,088.57	3,170.43	5,606.32	5,501.08	105.25	53.269	
5,000.00	4,736.83	4,713.83	4,713.83	27.76	81.30	114.77	-4,088.57	3,170.43	5,625.55	5,518.04	107.51	52.324	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,100.00	4,827.30	4,804.30	4,804.30	28.55	82.88	115.14	-4,088.57	3,170.43	5,645.03	5,535.26	109.78	51.422	
5,200.00	4,917.77	4,905.23	4,894.77	29.35	84.64	115.50	-4,088.57	3,170.43	5,664.77	5,552.55	112.23	50.477	
5,300.00	5,008.25	4,985.25	4,985.25	30.15	86.04	115.85	-4,088.57	3,170.43	5,684.76	5,570.46	114.30	49.734	
5,400.00	5,098.72	5,075.72	5,075.72	30.94	87.62	116.21	-4,088.57	3,170.43	5,705.00	5,588.44	116.56	48.944	
5,500.00	5,189.19	5,166.19	5,166.19	31.74	89.20	116.56	-4,088.57	3,170.43	5,725.48	5,606.66	118.82	48.187	
5,600.00	5,279.67	5,256.67	5,256.67	32.54	90.78	116.92	-4,088.57	3,170.43	5,746.21	5,625.14	121.07	47.462	
5,700.00	5,370.14	5,347.14	5,347.14	33.34	92.36	117.26	-4,088.57	3,170.43	5,767.17	5,643.85	123.32	46.766	
5,800.00	5,460.61	5,437.61	5,437.61	34.14	93.94	117.61	-4,088.57	3,170.43	5,788.38	5,662.81	125.57	46.098	
5,900.00	5,551.08	5,528.08	5,528.08	34.94	95.51	117.96	-4,088.57	3,170.43	5,809.81	5,682.00	127.81	45.456	
6,000.00	5,641.56	5,618.56	5,618.56	35.75	97.09	118.30	-4,088.57	3,170.43	5,831.48	5,701.43	130.05	44.839	
6,100.00	5,732.03	5,709.03	5,709.03	36.55	98.67	118.64	-4,088.57	3,170.43	5,853.38	5,721.09	132.29	44.246	
6,200.00	5,822.50	5,800.50	5,799.50	37.35	100.27	118.98	-4,088.57	3,170.43	5,875.51	5,740.97	134.54	43.670	
6,300.00	5,912.97	5,889.97	5,889.97	38.16	101.83	119.31	-4,088.57	3,170.43	5,897.86	5,761.11	136.76	43.126	
6,400.00	6,003.45	5,980.45	5,980.45	38.96	103.41	119.65	-4,088.57	3,170.43	5,920.44	5,781.45	138.99	42.597	
6,500.00	6,093.92	6,070.92	6,070.92	39.77	104.99	119.98	-4,088.57	3,170.43	5,943.23	5,802.02	141.21	42.087	
6,600.00	6,184.39	6,161.39	6,161.39	40.57	106.57	120.31	-4,088.57	3,170.43	5,966.24	5,822.81	143.44	41.595	
6,700.00	6,274.87	6,251.87	6,251.87	41.38	108.15	120.64	-4,088.57	3,170.43	5,989.47	5,843.81	145.65	41.121	
6,800.00	6,365.34	6,342.34	6,342.34	42.18	109.73	120.96	-4,088.57	3,170.43	6,012.91	5,865.04	147.87	40.663	
6,900.00	6,455.81	6,432.81	6,432.81	42.99	111.31	121.28	-4,088.57	3,170.43	6,036.55	5,886.47	150.08	40.221	
7,000.00	6,546.28	6,523.28	6,523.28	43.80	112.88	121.61	-4,088.57	3,170.43	6,060.41	5,908.11	152.29	39.794	
7,100.00	6,636.76	6,613.76	6,613.76	44.61	114.46	121.92	-4,088.57	3,170.43	6,084.47	5,929.97	154.50	39.381	
7,200.00	6,727.23	6,704.23	6,704.23	45.41	116.04	122.24	-4,088.57	3,170.43	6,108.73	5,952.02	156.71	38.982	
7,300.00	6,817.70	6,805.30	6,794.70	46.22	117.81	122.55	-4,088.57	3,170.43	6,133.19	5,974.10	159.09	38.551	
7,383.79	6,893.51	6,870.51	6,870.51	46.90	118.94	122.82	-4,088.57	3,170.43	6,153.84	5,993.09	160.75	38.282	
7,400.00	6,908.25	6,885.25	6,885.25	47.03	119.20	120.63	-4,088.57	3,170.43	6,157.64	5,996.53	161.10	38.221	
7,450.00	6,954.52	6,931.52	6,931.52	47.40	120.01	112.07	-4,088.57	3,170.43	6,166.67	6,004.46	162.21	38.017	
7,500.00	7,001.74	6,978.74	6,978.74	47.72	120.83	100.20	-4,088.57	3,170.43	6,171.59	6,008.28	163.31	37.790	
7,550.00	7,049.55	7,026.55	7,026.55	47.99	121.67	84.89	-4,088.57	3,170.43	6,172.37	6,007.96	164.41	37.543	
7,600.00	7,097.58	7,074.58	7,074.58	48.21	122.51	67.68	-4,088.57	3,170.43	6,168.99	6,003.50	165.48	37.279	
7,650.00	7,145.48	7,122.48	7,122.48	48.37	123.34	51.47	-4,088.57	3,170.43	6,161.46	5,994.93	166.52	37.000	
7,700.00	7,192.88	7,169.88	7,169.88	48.48	124.17	38.27	-4,088.57	3,170.43	6,149.83	5,982.30	167.53	36.709	
7,750.00	7,239.41	7,216.41	7,216.41	48.54	124.98	28.23	-4,088.57	3,170.43	6,134.19	5,965.70	168.49	36.407	
7,800.00	7,284.72	7,261.72	7,261.72	48.56	125.77	20.64	-4,088.57	3,170.43	6,114.65	5,945.24	169.40	36.095	
7,850.00	7,328.47	7,305.47	7,305.47	48.54	126.54	14.74	-4,088.57	3,170.43	6,091.34	5,921.08	170.26	35.776	
7,900.00	7,370.32	7,347.32	7,347.32	48.47	127.27	9.91	-4,088.57	3,170.43	6,064.46	5,893.39	171.07	35.451	
7,950.00	7,409.96	7,386.96	7,386.96	48.37	127.96	5.73	-4,088.57	3,170.43	6,034.18	5,862.37	171.81	35.121	
8,000.00	7,447.08	7,424.08	7,424.08	48.24	128.61	1.88	-4,088.57	3,170.43	6,000.75	5,828.27	172.48	34.790	
8,050.00	7,481.41	7,458.41	7,458.41	48.07	129.21	-1.94	-4,088.57	3,170.43	5,964.42	5,791.32	173.09	34.458	
8,100.00	7,512.67	7,489.67	7,489.67	47.87	129.75	-6.00	-4,088.57	3,170.43	5,925.45	5,751.83	173.62	34.128	
8,150.00	7,540.64	7,517.64	7,517.64	47.65	130.24	-10.60	-4,088.57	3,170.43	5,884.16	5,710.08	174.08	33.802	
8,200.00	7,565.09	7,542.09	7,542.09	47.40	130.67	-16.16	-4,088.57	3,170.43	5,840.85	5,666.39	174.46	33.480	
8,250.00	7,585.85	7,562.85	7,562.85	47.14	131.03	-23.27	-4,088.57	3,170.43	5,795.86	5,621.10	174.76	33.165	
8,300.00	7,602.75	7,579.75	7,579.75	46.86	131.32	-32.70	-4,088.57	3,170.43	5,749.54	5,574.57	174.98	32.859	
8,350.00	7,615.67	7,607.33	7,592.67	46.58	131.80	-45.34	-4,088.57	3,170.43	5,702.25	5,526.88	175.37	32.515	
8,400.00	7,624.51	7,601.51	7,601.51	46.28	131.70	-61.44	-4,088.57	3,170.43	5,654.36	5,479.18	175.17	32.278	
8,450.00	7,629.19	7,606.19	7,606.19	45.98	131.78	-79.38	-4,088.57	3,170.43	5,606.23	5,431.07	175.15	32.007	
8,481.00	7,630.00	7,607.00	7,607.00	45.79	131.80	-90.00	-4,088.57	3,170.43	5,576.44	5,401.33	175.10	31.847	
8,500.00	7,630.00	7,607.00	7,607.00	45.68	131.80	-90.00	-4,088.57	3,170.43	5,558.22	5,383.16	175.06	31.750	
8,600.00	7,630.00	7,607.00	7,607.00	45.11	131.80	-90.00	-4,088.57	3,170.43	5,462.41	5,287.56	174.85	31.241	
8,700.00	7,630.00	7,607.00	7,607.00	44.56	131.80	-90.00	-4,088.57	3,170.43	5,366.75	5,192.12	174.63	30.733	
8,800.00	7,630.00	7,607.00	7,607.00	44.05	131.80	-90.00	-4,088.57	3,170.43	5,271.25	5,096.84	174.41	30.224	
8,900.00	7,630.00	7,607.00	7,607.00	43.57	131.80	-90.00	-4,088.57	3,170.43	5,175.92	5,001.74	174.18	29.716	

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

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,630.00	7,607.00	7,607.00	43.12	131.80	-90.00	-4,088.57	3,170.43	5,080.78	4,906.82	173.96	29.207	
9,100.00	7,630.00	7,607.00	7,607.00	42.70	131.80	-90.00	-4,088.57	3,170.43	4,985.82	4,812.09	173.73	28.699	
9,200.00	7,630.00	7,607.00	7,607.00	42.31	131.80	-90.00	-4,088.57	3,170.43	4,891.06	4,717.56	173.50	28.191	
9,300.00	7,630.00	7,607.00	7,607.00	41.94	131.80	-90.00	-4,088.57	3,170.43	4,796.52	4,623.25	173.27	27.683	
9,400.00	7,630.00	7,607.00	7,607.00	41.59	131.80	-90.00	-4,088.57	3,170.43	4,702.20	4,529.16	173.04	27.174	
9,500.00	7,630.00	7,607.00	7,607.00	41.26	131.80	-90.00	-4,088.57	3,170.43	4,608.12	4,435.31	172.81	26.666	
9,600.00	7,630.00	7,607.00	7,607.00	40.96	131.80	-90.00	-4,088.57	3,170.43	4,514.30	4,341.72	172.58	26.158	
9,700.00	7,630.00	7,607.00	7,607.00	40.68	131.80	-90.00	-4,088.57	3,170.43	4,420.74	4,248.39	172.35	25.650	
9,800.00	7,630.00	7,607.00	7,607.00	40.42	131.80	-90.00	-4,088.57	3,170.43	4,327.48	4,155.35	172.13	25.141	
9,900.00	7,630.00	7,607.00	7,607.00	40.17	131.80	-90.00	-4,088.57	3,170.43	4,234.52	4,062.61	171.91	24.633	
10,000.00	7,630.00	7,607.00	7,607.00	39.96	131.80	-90.00	-4,088.57	3,170.43	4,141.89	3,970.20	171.69	24.124	
10,100.00	7,630.00	7,607.00	7,607.00	40.05	131.80	-90.00	-4,088.57	3,170.43	4,049.61	3,878.13	171.49	23.615	
10,200.00	7,630.00	7,607.00	7,607.00	40.95	131.80	-90.00	-4,088.57	3,170.43	3,957.71	3,786.42	171.29	23.105	
10,300.00	7,630.00	7,607.00	7,607.00	41.94	131.80	-90.00	-4,088.57	3,170.43	3,866.21	3,695.10	171.11	22.595	
10,400.00	7,630.00	7,607.00	7,607.00	42.98	131.80	-90.00	-4,088.57	3,170.43	3,775.14	3,604.20	170.94	22.084	
10,500.00	7,630.00	7,607.00	7,607.00	44.06	131.80	-90.00	-4,088.57	3,170.43	3,684.53	3,513.74	170.79	21.573	
10,600.00	7,630.00	7,607.00	7,607.00	45.17	131.80	-90.00	-4,088.57	3,170.43	3,594.42	3,423.76	170.67	21.061	
10,700.00	7,630.00	7,607.00	7,607.00	46.32	131.80	-90.00	-4,088.57	3,170.43	3,504.85	3,334.28	170.57	20.548	
10,800.00	7,630.00	7,607.00	7,607.00	47.50	131.80	-90.00	-4,088.57	3,170.43	3,415.86	3,245.36	170.50	20.034	
10,900.00	7,630.00	7,607.00	7,607.00	48.70	131.80	-90.00	-4,088.57	3,170.43	3,327.49	3,157.02	170.47	19.519	
11,000.00	7,630.00	7,607.00	7,607.00	49.94	131.80	-90.00	-4,088.57	3,170.43	3,239.79	3,069.31	170.49	19.003	
11,100.00	7,630.00	7,607.00	7,607.00	51.20	131.80	-90.00	-4,088.57	3,170.43	3,152.83	2,982.28	170.56	18.486	
11,200.00	7,630.00	7,607.00	7,607.00	52.48	131.80	-90.00	-4,088.57	3,170.43	3,066.67	2,895.99	170.69	17.967	
11,300.00	7,630.00	7,607.00	7,607.00	53.79	131.80	-90.00	-4,088.57	3,170.43	2,981.37	2,810.48	170.89	17.447	
11,400.00	7,630.00	7,607.00	7,607.00	55.12	131.80	-90.00	-4,088.57	3,170.43	2,897.01	2,725.84	171.17	16.925	
11,500.00	7,630.00	7,607.00	7,607.00	56.46	131.80	-90.00	-4,088.57	3,170.43	2,813.67	2,642.14	171.54	16.403	
11,600.00	7,630.00	7,607.00	7,607.00	57.83	131.80	-90.00	-4,088.57	3,170.43	2,731.46	2,559.44	172.02	15.879	
11,700.00	7,630.00	7,607.00	7,607.00	59.22	131.80	-90.00	-4,088.57	3,170.43	2,650.46	2,477.85	172.61	15.355	
11,800.00	7,630.00	7,607.00	7,607.00	60.62	131.80	-90.00	-4,088.57	3,170.43	2,570.81	2,397.47	173.34	14.831	
11,900.00	7,630.00	7,607.00	7,607.00	62.04	131.80	-90.00	-4,088.57	3,170.43	2,492.62	2,318.41	174.21	14.308	
12,000.00	7,630.00	7,607.00	7,607.00	63.48	131.80	-90.00	-4,088.57	3,170.43	2,416.04	2,240.80	175.24	13.787	
12,100.00	7,630.00	7,607.00	7,607.00	64.93	131.80	-90.00	-4,088.57	3,170.43	2,341.23	2,164.79	176.44	13.269	
12,200.00	7,630.00	7,607.00	7,607.00	66.39	131.80	-90.00	-4,088.57	3,170.43	2,268.36	2,090.53	177.83	12.756	
12,300.00	7,630.00	7,607.00	7,607.00	67.86	131.80	-90.00	-4,088.57	3,170.43	2,197.63	2,018.22	179.41	12.249	
12,400.00	7,630.00	7,607.00	7,607.00	69.35	131.80	-90.00	-4,088.57	3,170.43	2,129.24	1,948.04	181.20	11.751	
12,500.00	7,630.00	7,607.00	7,607.00	70.85	131.80	-90.00	-4,088.57	3,170.43	2,063.43	1,880.24	183.19	11.264	
12,600.00	7,630.00	7,607.00	7,607.00	72.36	131.80	-90.00	-4,088.57	3,170.43	2,000.46	1,815.06	185.40	10.790	
12,700.00	7,630.00	7,607.00	7,607.00	73.88	131.80	-90.00	-4,088.57	3,170.43	1,940.61	1,752.78	187.83	10.332	
12,800.00	7,630.00	7,607.00	7,607.00	75.41	131.80	-90.00	-4,088.57	3,170.43	1,884.16	1,693.71	190.45	9.893	
12,900.00	7,630.00	7,607.00	7,607.00	76.95	131.80	-90.00	-4,088.57	3,170.43	1,831.44	1,638.17	193.26	9.476	
13,000.00	7,630.00	7,607.00	7,607.00	78.49	131.80	-90.00	-4,088.57	3,170.43	1,782.77	1,586.52	196.25	9.084	
13,100.00	7,630.00	7,607.00	7,607.00	80.05	131.80	-90.00	-4,088.57	3,170.43	1,738.49	1,539.12	199.37	8.720	
13,200.00	7,630.00	7,607.00	7,607.00	81.61	131.80	-90.00	-4,088.57	3,170.43	1,698.96	1,496.36	202.59	8.386	
13,300.00	7,630.00	7,607.00	7,607.00	83.18	131.80	-90.00	-4,088.57	3,170.43	1,664.50	1,458.62	205.88	8.085	
13,400.00	7,630.00	7,607.00	7,607.00	84.76	131.80	-90.00	-4,088.57	3,170.43	1,635.44	1,426.27	209.17	7.819	
13,500.00	7,630.00	7,607.00	7,607.00	86.34	131.80	-90.00	-4,088.57	3,170.43	1,612.06	1,399.66	212.41	7.590	
13,600.00	7,630.00	7,607.00	7,607.00	87.94	131.80	-90.00	-4,088.57	3,170.43	1,594.63	1,379.10	215.54	7.398	
13,700.00	7,630.00	7,607.00	7,607.00	89.53	131.80	-90.00	-4,088.57	3,170.43	1,583.34	1,364.83	218.50	7.246	
13,800.00	7,630.00	7,607.00	7,607.00	91.13	131.80	-90.00	-4,088.57	3,170.43	1,578.31	1,357.06	221.25	7.134	
13,829.50	7,630.00	7,607.00	7,607.00	91.61	131.80	-90.00	-4,088.57	3,170.43	1,578.03	1,356.02	222.01	7.108	CC
13,900.00	7,630.00	7,607.00	7,607.00	92.74	131.80	-90.00	-4,088.57	3,170.43	1,579.60	1,355.88	223.73	7.060	ES
14,000.00	7,630.00	7,607.00	7,607.00	94.35	131.80	-90.00	-4,088.57	3,170.43	1,587.21	1,361.31	225.91	7.026	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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,100.00	7,630.00	7,607.00	7,607.00	95.97	131.80	-90.00	-4,088.57	3,170.43	1,601.05	1,373.28	227.76	7.029	
14,200.00	7,630.00	7,607.00	7,607.00	97.60	131.80	-90.00	-4,088.57	3,170.43	1,620.94	1,391.65	229.29	7.069	
14,300.00	7,630.00	7,607.00	7,607.00	99.22	131.80	-90.00	-4,088.57	3,170.43	1,646.68	1,416.19	230.49	7.144	
14,400.00	7,630.00	7,607.00	7,607.00	100.85	131.80	-90.00	-4,088.57	3,170.43	1,677.99	1,446.62	231.37	7.252	
14,500.00	7,630.00	7,607.00	7,607.00	102.49	131.80	-90.00	-4,088.57	3,170.43	1,714.57	1,482.61	231.96	7.392	
14,600.00	7,630.00	7,607.00	7,607.00	104.13	131.80	-90.00	-4,088.57	3,170.43	1,756.09	1,523.80	232.29	7.560	
14,700.00	7,630.00	7,607.00	7,607.00	105.77	131.80	-90.00	-4,088.57	3,170.43	1,802.21	1,569.82	232.39	7.755	
14,800.00	7,630.00	7,607.00	7,607.00	107.42	131.80	-90.00	-4,088.57	3,170.43	1,852.58	1,620.29	232.28	7.975	
14,900.00	7,630.00	7,607.00	7,607.00	109.07	131.80	-90.00	-4,088.57	3,170.43	1,906.87	1,674.85	232.01	8.219	
15,000.00	7,630.00	7,607.00	7,607.00	110.72	131.80	-90.00	-4,088.57	3,170.43	1,964.75	1,733.15	231.61	8.483	
15,100.00	7,630.00	7,607.00	7,607.00	112.38	131.80	-90.00	-4,088.57	3,170.43	2,025.92	1,794.83	231.09	8.767	
15,200.00	7,630.00	7,607.00	7,607.00	114.04	131.80	-90.00	-4,088.57	3,170.43	2,090.08	1,859.60	230.48	9.068	
15,300.00	7,630.00	7,607.00	7,607.00	115.71	131.80	-90.00	-4,088.57	3,170.43	2,156.98	1,927.17	229.81	9.386	
15,400.00	7,630.00	7,607.00	7,607.00	117.37	131.80	-90.00	-4,088.57	3,170.43	2,226.35	1,997.27	229.09	9.718	
15,500.00	7,630.00	7,607.00	7,607.00	119.04	131.80	-90.00	-4,088.57	3,170.43	2,297.99	2,069.65	228.33	10.064	
15,600.00	7,630.00	7,607.00	7,607.00	120.71	131.80	-90.00	-4,088.57	3,170.43	2,371.68	2,144.11	227.56	10.422	
15,700.00	7,630.00	7,607.00	7,607.00	122.39	131.80	-90.00	-4,088.57	3,170.43	2,447.23	2,220.46	226.78	10.791	
15,800.00	7,630.00	7,607.00	7,607.00	124.06	131.80	-90.00	-4,088.57	3,170.43	2,524.49	2,298.50	225.99	11.171	
15,900.00	7,630.00	7,607.00	7,607.00	125.74	131.80	-90.00	-4,088.57	3,170.43	2,603.29	2,378.09	225.21	11.560	
16,000.00	7,630.00	7,607.00	7,607.00	127.42	131.80	-90.00	-4,088.57	3,170.43	2,683.51	2,459.08	224.43	11.957	
16,100.00	7,630.00	7,607.00	7,607.00	129.10	131.80	-90.00	-4,088.57	3,170.43	2,765.02	2,541.35	223.67	12.362	
16,200.00	7,630.00	7,607.00	7,607.00	130.79	131.80	-90.00	-4,088.57	3,170.43	2,847.71	2,624.78	222.93	12.774	
16,300.00	7,630.00	7,607.00	7,607.00	132.48	131.80	-90.00	-4,088.57	3,170.43	2,931.47	2,709.27	222.20	13.193	
16,400.00	7,630.00	7,607.00	7,607.00	134.17	131.80	-90.00	-4,088.57	3,170.43	3,016.23	2,794.73	221.50	13.617	
16,500.00	7,630.00	7,607.00	7,607.00	135.86	131.80	-90.00	-4,088.57	3,170.43	3,101.89	2,881.08	220.81	14.048	
16,600.00	7,630.00	7,607.00	7,607.00	137.55	131.80	-90.00	-4,088.57	3,170.43	3,188.39	2,968.24	220.15	14.483	
16,700.00	7,630.00	7,607.00	7,607.00	139.24	131.80	-90.00	-4,088.57	3,170.43	3,275.66	3,056.15	219.51	14.923	
16,800.00	7,630.00	7,607.00	7,607.00	140.94	131.80	-90.00	-4,088.57	3,170.43	3,363.63	3,144.75	218.89	15.367	
16,900.00	7,630.00	7,607.00	7,607.00	142.64	131.80	-90.00	-4,088.57	3,170.43	3,452.27	3,233.98	218.29	15.815	
17,000.00	7,630.00	7,607.00	7,607.00	144.34	131.80	-90.00	-4,088.57	3,170.43	3,541.50	3,323.79	217.71	16.267	
17,100.00	7,630.00	7,607.00	7,607.00	146.04	131.80	-90.00	-4,088.57	3,170.43	3,631.30	3,414.15	217.15	16.722	
17,200.00	7,630.00	7,607.00	7,607.00	147.74	131.80	-90.00	-4,088.57	3,170.43	3,721.62	3,505.00	216.62	17.181	
17,300.00	7,630.00	7,607.00	7,607.00	149.44	131.80	-90.00	-4,088.57	3,170.43	3,812.42	3,596.32	216.10	17.642	
17,400.00	7,630.00	7,607.00	7,607.00	151.15	131.80	-90.00	-4,088.57	3,170.43	3,903.67	3,688.06	215.60	18.106	
17,500.00	7,630.00	7,607.00	7,607.00	152.86	131.80	-90.00	-4,088.57	3,170.43	3,995.34	3,780.21	215.13	18.572	
17,600.00	7,630.00	7,607.00	7,607.00	154.56	131.80	-90.00	-4,088.57	3,170.43	4,087.40	3,872.73	214.67	19.041	
17,700.00	7,630.00	7,607.00	7,607.00	156.27	131.80	-90.00	-4,088.57	3,170.43	4,179.82	3,965.60	214.22	19.512	
17,800.00	7,630.00	7,607.00	7,607.00	157.98	131.80	-90.00	-4,088.57	3,170.43	4,272.59	4,058.79	213.80	19.984	
17,900.00	7,630.00	7,607.00	7,607.00	159.70	131.80	-90.00	-4,088.57	3,170.43	4,365.68	4,152.29	213.39	20.459	
18,000.00	7,630.00	7,607.00	7,607.00	161.41	131.80	-90.00	-4,088.57	3,170.43	4,459.06	4,246.07	212.99	20.935	
18,100.00	7,630.00	7,607.00	7,607.00	163.12	131.80	-90.00	-4,088.57	3,170.43	4,552.73	4,340.12	212.61	21.413	
18,154.00	7,630.00	7,607.00	7,607.00	164.05	131.80	-90.00	-4,088.57	3,170.43	4,603.42	4,391.01	212.41	21.672	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	145.34	-7,866.94	5,439.65	9,564.48				
100.00	100.00	74.00	74.00	0.13	0.57	145.34	-7,866.94	5,439.65	9,564.44	9,563.74	0.70	N/A	
200.00	200.00	174.00	174.00	0.49	2.06	145.34	-7,866.94	5,439.65	9,564.44	9,561.89	2.55	3,747.252	
300.00	300.00	274.00	274.00	0.85	3.80	145.34	-7,866.94	5,439.65	9,564.44	9,559.78	4.66	2,054.135	
400.00	400.00	374.00	374.00	1.21	5.55	145.34	-7,866.94	5,439.65	9,564.44	9,557.68	6.76	1,414.860	
500.00	500.00	474.00	474.00	1.57	7.30	145.34	-7,866.94	5,439.65	9,564.44	9,555.58	8.86	1,079.046	
600.00	600.00	574.00	574.00	1.93	9.04	145.34	-7,866.94	5,439.65	9,564.44	9,553.47	10.97	872.064	
700.00	700.00	674.00	674.00	2.29	10.79	145.34	-7,866.94	5,439.65	9,564.44	9,551.37	13.07	731.708	
800.00	800.00	774.00	774.00	2.64	12.53	145.34	-7,866.94	5,439.65	9,564.44	9,549.27	15.18	630.268	
900.00	900.00	874.00	874.00	3.00	14.28	145.34	-7,866.94	5,439.65	9,564.44	9,547.16	17.28	553.530	
1,000.00	1,000.00	974.00	974.00	3.36	16.02	145.34	-7,866.94	5,439.65	9,564.44	9,545.06	19.38	493.450	
1,100.00	1,100.00	1,074.00	1,074.00	3.72	17.77	145.34	-7,866.94	5,439.65	9,564.44	9,542.95	21.49	445.135	
1,200.00	1,200.00	1,174.00	1,174.00	4.08	19.51	145.34	-7,866.94	5,439.65	9,564.44	9,540.85	23.59	405.438	
1,300.00	1,300.00	1,274.00	1,274.00	4.44	21.26	145.34	-7,866.94	5,439.65	9,564.44	9,538.75	25.69	372.241	
1,400.00	1,400.00	1,374.00	1,374.00	4.79	23.00	145.34	-7,866.94	5,439.65	9,564.44	9,536.64	27.80	344.069	
1,500.00	1,499.98	1,473.98	1,473.98	5.15	24.75	107.53	-7,866.94	5,439.65	9,564.97	9,535.07	29.90	319.904	
1,600.00	1,599.84	1,573.84	1,573.84	5.51	26.49	107.53	-7,866.94	5,439.65	9,566.54	9,534.55	32.00	298.975	
1,700.00	1,699.45	1,673.45	1,673.45	5.87	28.23	107.53	-7,866.94	5,439.65	9,569.18	9,535.08	34.09	280.665	
1,800.00	1,798.70	1,772.70	1,772.70	6.23	29.96	107.53	-7,866.94	5,439.65	9,572.88	9,536.68	36.19	264.513	
1,900.00	1,897.47	1,871.47	1,871.47	6.60	31.69	107.53	-7,866.94	5,439.65	9,577.64	9,539.35	38.29	250.154	
2,000.00	1,995.62	1,969.62	1,969.62	6.99	33.40	107.52	-7,866.94	5,439.65	9,583.48	9,543.10	40.39	237.298	
2,100.00	2,093.06	2,067.06	2,067.06	7.39	35.10	107.51	-7,866.94	5,439.65	9,590.42	9,547.93	42.49	225.713	
2,200.00	2,189.64	2,163.64	2,163.64	7.82	36.79	107.50	-7,866.94	5,439.65	9,598.45	9,553.85	44.60	215.211	
2,300.00	2,285.27	2,259.27	2,259.27	8.28	38.45	107.49	-7,866.94	5,439.65	9,607.61	9,560.89	46.72	205.640	
2,400.00	2,379.82	2,353.82	2,353.82	8.77	40.10	107.47	-7,866.94	5,439.65	9,617.89	9,569.04	48.85	196.875	
2,500.00	2,473.17	2,447.17	2,447.17	9.31	41.73	107.44	-7,866.94	5,439.65	9,629.33	9,578.33	51.00	188.815	
2,600.00	2,565.21	2,539.21	2,539.21	9.88	43.34	107.40	-7,866.94	5,439.65	9,641.94	9,588.78	53.16	181.374	
2,660.67	2,620.37	2,605.63	2,594.37	10.25	44.50	107.37	-7,866.94	5,439.65	9,650.17	9,595.49	54.68	176.498	
2,700.00	2,655.96	2,629.96	2,629.96	10.50	44.92	107.46	-7,866.94	5,439.65	9,655.65	9,600.32	55.34	174.485	
2,800.00	2,746.43	2,720.43	2,720.43	11.15	46.50	107.68	-7,866.94	5,439.65	9,669.73	9,612.19	57.54	168.062	
2,900.00	2,836.90	2,810.90	2,810.90	11.82	48.08	107.90	-7,866.94	5,439.65	9,683.97	9,624.21	59.75	162.064	
3,000.00	2,927.37	2,901.37	2,901.37	12.50	49.66	108.12	-7,866.94	5,439.65	9,698.37	9,636.39	61.99	156.461	
3,100.00	3,017.85	3,008.15	2,991.85	13.21	51.52	108.34	-7,866.94	5,439.65	9,712.94	9,648.43	64.52	150.553	
3,200.00	3,108.32	3,082.32	3,082.32	13.92	52.82	108.56	-7,866.94	5,439.65	9,727.68	9,661.19	66.49	146.312	
3,300.00	3,198.79	3,172.79	3,172.79	14.64	54.40	108.77	-7,866.94	5,439.65	9,742.58	9,673.83	68.75	141.711	
3,400.00	3,289.27	3,263.27	3,263.27	15.38	55.98	108.99	-7,866.94	5,439.65	9,757.64	9,686.62	71.02	137.392	
3,500.00	3,379.74	3,353.74	3,353.74	16.12	57.56	109.21	-7,866.94	5,439.65	9,772.87	9,699.57	73.30	133.332	
3,600.00	3,470.21	3,444.21	3,444.21	16.87	59.14	109.42	-7,866.94	5,439.65	9,788.25	9,712.67	75.58	129.510	
3,700.00	3,560.68	3,534.68	3,534.68	17.62	60.71	109.64	-7,866.94	5,439.65	9,803.80	9,725.94	77.86	125.908	
3,800.00	3,651.16	3,625.16	3,625.16	18.39	62.29	109.85	-7,866.94	5,439.65	9,819.51	9,739.36	80.15	122.508	
3,900.00	3,741.63	3,715.63	3,715.63	19.15	63.87	110.06	-7,866.94	5,439.65	9,835.38	9,752.93	82.45	119.294	
4,000.00	3,832.10	3,806.10	3,806.10	19.92	65.45	110.28	-7,866.94	5,439.65	9,851.40	9,766.66	84.74	116.254	
4,100.00	3,922.57	3,903.43	3,896.57	20.69	67.15	110.49	-7,866.94	5,439.65	9,867.59	9,780.43	87.16	113.217	
4,200.00	4,013.05	3,987.05	3,987.05	21.47	68.61	110.70	-7,866.94	5,439.65	9,883.93	9,794.60	89.33	110.640	
4,300.00	4,103.52	4,077.52	4,077.52	22.25	70.19	110.91	-7,866.94	5,439.65	9,900.43	9,808.79	91.63	108.045	
4,400.00	4,193.99	4,167.99	4,167.99	23.03	71.77	111.13	-7,866.94	5,439.65	9,917.08	9,823.15	93.93	105.577	
4,500.00	4,284.47	4,258.47	4,258.47	23.81	73.35	111.34	-7,866.94	5,439.65	9,933.89	9,837.66	96.23	103.229	
4,600.00	4,374.94	4,348.94	4,348.94	24.60	74.93	111.55	-7,866.94	5,439.65	9,950.85	9,852.32	98.53	100.992	
4,700.00	4,465.41	4,439.41	4,439.41	25.39	76.50	111.75	-7,866.94	5,439.65	9,967.97	9,867.13	100.83	98.858	
4,800.00	4,555.88	4,529.88	4,529.88	26.18	78.08	111.96	-7,866.94	5,439.65	9,985.23	9,882.10	103.13	96.821	
8,400.00	7,624.51	7,601.49	7,598.51	46.28	131.69	-70.11	-7,866.94	5,439.65	9,977.48	9,801.16	176.32	56.587	
8,450.00	7,629.19	7,603.19	7,603.19	45.98	131.72	-82.68	-7,866.94	5,439.65	9,931.11	9,754.92	176.19	56.365	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
8,481.00	7,630.00	7,604.00	7,604.00	45.79	131.74	-90.00	-7,866.94	5,439.65	9,902.48	9,726.37	176.10	56.231	
8,500.00	7,630.00	7,604.00	7,604.00	45.68	131.74	-90.00	-7,866.94	5,439.65	9,884.98	9,708.94	176.04	56.152	
8,600.00	7,630.00	7,604.00	7,604.00	45.11	131.74	-90.00	-7,866.94	5,439.65	9,793.00	9,617.29	175.71	55.734	
8,700.00	7,630.00	7,604.00	7,604.00	44.56	131.74	-90.00	-7,866.94	5,439.65	9,701.18	9,525.80	175.38	55.315	
8,800.00	7,630.00	7,604.00	7,604.00	44.05	131.74	-90.00	-7,866.94	5,439.65	9,609.52	9,434.46	175.06	54.894	
8,900.00	7,630.00	7,604.00	7,604.00	43.57	131.74	-90.00	-7,866.94	5,439.65	9,518.02	9,343.29	174.73	54.471	
9,000.00	7,630.00	7,604.00	7,604.00	43.12	131.74	-90.00	-7,866.94	5,439.65	9,426.70	9,252.28	174.42	54.047	
9,100.00	7,630.00	7,604.00	7,604.00	42.70	131.74	-90.00	-7,866.94	5,439.65	9,335.56	9,161.45	174.11	53.620	
9,200.00	7,630.00	7,604.00	7,604.00	42.31	131.74	-90.00	-7,866.94	5,439.65	9,244.60	9,070.80	173.80	53.191	
9,300.00	7,630.00	7,604.00	7,604.00	41.94	131.74	-90.00	-7,866.94	5,439.65	9,153.83	8,980.33	173.50	52.760	
9,400.00	7,630.00	7,604.00	7,604.00	41.59	131.74	-90.00	-7,866.94	5,439.65	9,063.25	8,890.05	173.21	52.326	
9,500.00	7,630.00	7,604.00	7,604.00	41.26	131.74	-90.00	-7,866.94	5,439.65	8,972.88	8,799.95	172.92	51.889	
9,600.00	7,630.00	7,604.00	7,604.00	40.96	131.74	-90.00	-7,866.94	5,439.65	8,882.71	8,710.06	172.65	51.450	
9,700.00	7,630.00	7,604.00	7,604.00	40.68	131.74	-90.00	-7,866.94	5,439.65	8,792.75	8,620.37	172.38	51.007	
9,800.00	7,630.00	7,604.00	7,604.00	40.42	131.74	-90.00	-7,866.94	5,439.65	8,703.01	8,530.88	172.13	50.560	
9,900.00	7,630.00	7,604.00	7,604.00	40.17	131.74	-90.00	-7,866.94	5,439.65	8,613.50	8,441.61	171.89	50.110	
10,000.00	7,630.00	7,604.00	7,604.00	39.96	131.74	-90.00	-7,866.94	5,439.65	8,524.22	8,352.56	171.67	49.656	
10,100.00	7,630.00	7,604.00	7,604.00	40.05	131.74	-90.00	-7,866.94	5,439.65	8,435.18	8,263.73	171.45	49.198	
10,200.00	7,630.00	7,604.00	7,604.00	40.95	131.74	-90.00	-7,866.94	5,439.65	8,346.39	8,175.13	171.26	48.735	
10,300.00	7,630.00	7,604.00	7,604.00	41.94	131.74	-90.00	-7,866.94	5,439.65	8,257.86	8,086.78	171.09	48.267	
10,400.00	7,630.00	7,604.00	7,604.00	42.98	131.74	-90.00	-7,866.94	5,439.65	8,169.59	7,998.66	170.93	47.795	
10,500.00	7,630.00	7,604.00	7,604.00	44.06	131.74	-90.00	-7,866.94	5,439.65	8,081.60	7,910.80	170.80	47.317	
10,600.00	7,630.00	7,604.00	7,604.00	45.17	131.74	-90.00	-7,866.94	5,439.65	7,993.88	7,823.20	170.69	46.833	
10,700.00	7,630.00	7,604.00	7,604.00	46.32	131.74	-90.00	-7,866.94	5,439.65	7,906.46	7,735.86	170.60	46.344	
10,800.00	7,630.00	7,604.00	7,604.00	47.50	131.74	-90.00	-7,866.94	5,439.65	7,819.34	7,648.79	170.55	45.849	
10,900.00	7,630.00	7,604.00	7,604.00	48.70	131.74	-90.00	-7,866.94	5,439.65	7,732.53	7,562.01	170.52	45.347	
11,000.00	7,630.00	7,604.00	7,604.00	49.94	131.74	-90.00	-7,866.94	5,439.65	7,646.05	7,475.52	170.53	44.838	
11,100.00	7,630.00	7,604.00	7,604.00	51.20	131.74	-90.00	-7,866.94	5,439.65	7,559.89	7,389.33	170.56	44.323	
11,200.00	7,630.00	7,604.00	7,604.00	52.48	131.74	-90.00	-7,866.94	5,439.65	7,474.09	7,303.45	170.64	43.800	
11,300.00	7,630.00	7,604.00	7,604.00	53.79	131.74	-90.00	-7,866.94	5,439.65	7,388.63	7,217.88	170.75	43.271	
11,400.00	7,630.00	7,604.00	7,604.00	55.12	131.74	-90.00	-7,866.94	5,439.65	7,303.55	7,132.64	170.91	42.734	
11,500.00	7,630.00	7,604.00	7,604.00	56.46	131.74	-90.00	-7,866.94	5,439.65	7,218.85	7,047.75	171.10	42.190	
11,600.00	7,630.00	7,604.00	7,604.00	57.83	131.74	-90.00	-7,866.94	5,439.65	7,134.55	6,963.20	171.35	41.638	
11,700.00	7,630.00	7,604.00	7,604.00	59.22	131.74	-90.00	-7,866.94	5,439.65	7,050.66	6,879.02	171.64	41.079	
11,800.00	7,630.00	7,604.00	7,604.00	60.62	131.74	-90.00	-7,866.94	5,439.65	6,967.19	6,795.22	171.97	40.513	
11,900.00	7,630.00	7,604.00	7,604.00	62.04	131.74	-90.00	-7,866.94	5,439.65	6,884.16	6,711.80	172.36	39.940	
12,000.00	7,630.00	7,604.00	7,604.00	63.48	131.74	-90.00	-7,866.94	5,439.65	6,801.59	6,628.79	172.81	39.359	
12,100.00	7,630.00	7,604.00	7,604.00	64.93	131.74	-90.00	-7,866.94	5,439.65	6,719.50	6,546.19	173.31	38.772	
12,200.00	7,630.00	7,604.00	7,604.00	66.39	131.74	-90.00	-7,866.94	5,439.65	6,637.89	6,464.03	173.86	38.179	
12,300.00	7,630.00	7,604.00	7,604.00	67.86	131.74	-90.00	-7,866.94	5,439.65	6,556.80	6,382.32	174.48	37.580	
12,400.00	7,630.00	7,604.00	7,604.00	69.35	131.74	-90.00	-7,866.94	5,439.65	6,476.23	6,301.07	175.15	36.975	
12,500.00	7,630.00	7,604.00	7,604.00	70.85	131.74	-90.00	-7,866.94	5,439.65	6,396.21	6,220.32	175.89	36.365	
12,600.00	7,630.00	7,604.00	7,604.00	72.36	131.74	-90.00	-7,866.94	5,439.65	6,316.76	6,140.07	176.69	35.750	
12,700.00	7,630.00	7,604.00	7,604.00	73.88	131.74	-90.00	-7,866.94	5,439.65	6,237.90	6,060.35	177.56	35.132	
12,800.00	7,630.00	7,604.00	7,604.00	75.41	131.74	-90.00	-7,866.94	5,439.65	6,159.66	5,981.17	178.49	34.510	
12,900.00	7,630.00	7,604.00	7,604.00	76.95	131.74	-90.00	-7,866.94	5,439.65	6,082.05	5,902.57	179.49	33.886	
13,000.00	7,630.00	7,604.00	7,604.00	78.49	131.74	-90.00	-7,866.94	5,439.65	6,005.11	5,824.56	180.55	33.260	
13,100.00	7,630.00	7,604.00	7,604.00	80.05	131.74	-90.00	-7,866.94	5,439.65	5,928.85	5,747.17	181.68	32.633	
13,200.00	7,630.00	7,604.00	7,604.00	81.61	131.74	-90.00	-7,866.94	5,439.65	5,853.31	5,670.42	182.89	32.005	
13,300.00	7,630.00	7,604.00	7,604.00	83.18	131.74	-90.00	-7,866.94	5,439.65	5,778.51	5,594.36	184.16	31.378	
13,400.00	7,630.00	7,604.00	7,604.00	84.76	131.74	-90.00	-7,866.94	5,439.65	5,704.49	5,518.99	185.50	30.752	
13,500.00	7,630.00	7,604.00	7,604.00	86.34	131.74	-90.00	-7,866.94	5,439.65	5,631.26	5,444.35	186.91	30.128	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
13,600.00	7,630.00	7,604.00	7,604.00	87.94	131.74	-90.00	-7,866.94	5,439.65	5,558.88	5,370.49	188.39	29.507	
13,700.00	7,630.00	7,604.00	7,604.00	89.53	131.74	-90.00	-7,866.94	5,439.65	5,487.36	5,297.41	189.94	28.890	
13,800.00	7,630.00	7,604.00	7,604.00	91.13	131.74	-90.00	-7,866.94	5,439.65	5,416.74	5,225.17	191.56	28.276	
13,900.00	7,630.00	7,604.00	7,604.00	92.74	131.74	-90.00	-7,866.94	5,439.65	5,347.06	5,153.80	193.26	27.668	
14,000.00	7,630.00	7,604.00	7,604.00	94.35	131.74	-90.00	-7,866.94	5,439.65	5,278.35	5,083.33	195.02	27.066	
14,100.00	7,630.00	7,604.00	7,604.00	95.97	131.74	-90.00	-7,866.94	5,439.65	5,210.66	5,013.81	196.85	26.470	
14,200.00	7,630.00	7,604.00	7,604.00	97.60	131.74	-90.00	-7,866.94	5,439.65	5,144.02	4,945.27	198.75	25.882	
14,300.00	7,630.00	7,604.00	7,604.00	99.22	131.74	-90.00	-7,866.94	5,439.65	5,078.47	4,877.75	200.72	25.302	
14,400.00	7,630.00	7,604.00	7,604.00	100.85	131.74	-90.00	-7,866.94	5,439.65	5,014.06	4,811.31	202.75	24.730	
14,500.00	7,630.00	7,604.00	7,604.00	102.49	131.74	-90.00	-7,866.94	5,439.65	4,950.84	4,745.98	204.85	24.168	
14,600.00	7,630.00	7,604.00	7,604.00	104.13	131.74	-90.00	-7,866.94	5,439.65	4,888.84	4,681.82	207.02	23.615	
14,700.00	7,630.00	7,604.00	7,604.00	105.77	131.74	-90.00	-7,866.94	5,439.65	4,828.12	4,618.87	209.25	23.073	
14,800.00	7,630.00	7,604.00	7,604.00	107.42	131.74	-90.00	-7,866.94	5,439.65	4,768.72	4,557.17	211.55	22.542	
14,900.00	7,630.00	7,604.00	7,604.00	109.07	131.74	-90.00	-7,866.94	5,439.65	4,710.70	4,496.80	213.90	22.023	
15,000.00	7,630.00	7,604.00	7,604.00	110.72	131.74	-90.00	-7,866.94	5,439.65	4,654.10	4,437.78	216.31	21.516	
15,100.00	7,630.00	7,604.00	7,604.00	112.38	131.74	-90.00	-7,866.94	5,439.65	4,598.98	4,380.19	218.78	21.021	
15,200.00	7,630.00	7,604.00	7,604.00	114.04	131.74	-90.00	-7,866.94	5,439.65	4,545.39	4,324.08	221.30	20.539	
15,300.00	7,630.00	7,604.00	7,604.00	115.71	131.74	-90.00	-7,866.94	5,439.65	4,493.39	4,269.51	223.88	20.071	
15,400.00	7,630.00	7,604.00	7,604.00	117.37	131.74	-90.00	-7,866.94	5,439.65	4,443.03	4,216.53	226.50	19.616	
15,500.00	7,630.00	7,604.00	7,604.00	119.04	131.74	-90.00	-7,866.94	5,439.65	4,394.37	4,165.20	229.16	19.176	
15,600.00	7,630.00	7,604.00	7,604.00	120.71	131.74	-90.00	-7,866.94	5,439.65	4,347.46	4,115.59	231.87	18.750	
15,700.00	7,630.00	7,604.00	7,604.00	122.39	131.74	-90.00	-7,866.94	5,439.65	4,302.37	4,067.76	234.61	18.339	
15,800.00	7,630.00	7,604.00	7,604.00	124.06	131.74	-90.00	-7,866.94	5,439.65	4,259.15	4,021.77	237.38	17.943	
15,900.00	7,630.00	7,604.00	7,604.00	125.74	131.74	-90.00	-7,866.94	5,439.65	4,217.86	3,977.68	240.17	17.562	
16,000.00	7,630.00	7,604.00	7,604.00	127.42	131.74	-90.00	-7,866.94	5,439.65	4,178.55	3,935.56	242.99	17.197	
16,100.00	7,630.00	7,604.00	7,604.00	129.10	131.74	-90.00	-7,866.94	5,439.65	4,141.28	3,895.47	245.82	16.847	
16,200.00	7,630.00	7,604.00	7,604.00	130.79	131.74	-90.00	-7,866.94	5,439.65	4,106.12	3,857.46	248.66	16.513	
16,300.00	7,630.00	7,604.00	7,604.00	132.48	131.74	-90.00	-7,866.94	5,439.65	4,073.10	3,821.61	251.49	16.196	
16,400.00	7,630.00	7,604.00	7,604.00	134.17	131.74	-90.00	-7,866.94	5,439.65	4,042.29	3,787.96	254.33	15.894	
16,500.00	7,630.00	7,604.00	7,604.00	135.86	131.74	-90.00	-7,866.94	5,439.65	4,013.74	3,756.59	257.15	15.609	
16,600.00	7,630.00	7,604.00	7,604.00	137.55	131.74	-90.00	-7,866.94	5,439.65	3,987.49	3,727.54	259.95	15.339	
16,700.00	7,630.00	7,604.00	7,604.00	139.24	131.74	-90.00	-7,866.94	5,439.65	3,963.59	3,700.86	262.73	15.086	
16,800.00	7,630.00	7,604.00	7,604.00	140.94	131.74	-90.00	-7,866.94	5,439.65	3,942.08	3,676.61	265.47	14.850	
16,900.00	7,630.00	7,604.00	7,604.00	142.64	131.74	-90.00	-7,866.94	5,439.65	3,923.00	3,654.84	268.16	14.629	
17,000.00	7,630.00	7,604.00	7,604.00	144.34	131.74	-90.00	-7,866.94	5,439.65	3,906.40	3,635.58	270.81	14.425	
17,100.00	7,630.00	7,604.00	7,604.00	146.04	131.74	-90.00	-7,866.94	5,439.65	3,892.29	3,618.88	273.41	14.236	
17,200.00	7,630.00	7,604.00	7,604.00	147.74	131.74	-90.00	-7,866.94	5,439.65	3,880.70	3,604.77	275.93	14.064	
17,300.00	7,630.00	7,604.00	7,604.00	149.44	131.74	-90.00	-7,866.94	5,439.65	3,871.67	3,593.28	278.39	13.907	
17,400.00	7,630.00	7,604.00	7,604.00	151.15	131.74	-90.00	-7,866.94	5,439.65	3,865.20	3,584.43	280.77	13.766	
17,500.00	7,630.00	7,604.00	7,604.00	152.86	131.74	-90.00	-7,866.94	5,439.65	3,861.31	3,578.24	283.07	13.641	
17,600.00	7,630.00	7,604.00	7,604.00	154.56	131.74	-90.00	-7,866.94	5,439.65	3,860.01	3,574.74	285.28	13.531	
17,600.17	7,630.00	7,604.00	7,604.00	154.57	131.74	-90.00	-7,866.94	5,439.65	3,860.01	3,574.73	285.28	13.531	CC
17,700.00	7,630.00	7,604.00	7,604.00	156.27	131.74	-90.00	-7,866.94	5,439.65	3,861.31	3,573.91	287.39	13.436	ES
17,800.00	7,630.00	7,604.00	7,604.00	157.98	131.74	-90.00	-7,866.94	5,439.65	3,865.18	3,575.77	289.41	13.355	
17,900.00	7,630.00	7,604.00	7,604.00	159.70	131.74	-90.00	-7,866.94	5,439.65	3,871.64	3,580.32	291.33	13.290	
18,000.00	7,630.00	7,604.00	7,604.00	161.41	131.74	-90.00	-7,866.94	5,439.65	3,880.67	3,587.53	293.14	13.238	
18,100.00	7,630.00	7,604.00	7,604.00	163.12	131.74	-90.00	-7,866.94	5,439.65	3,892.24	3,597.40	294.84	13.201	
18,154.00	7,630.00	7,604.00	7,604.00	164.05	131.74	-90.00	-7,866.94	5,439.65	3,899.54	3,603.83	295.71	13.187	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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	148.39	-5,432.04	3,342.84	6,378.26				
100.00	100.00	77.00	77.00	0.13	0.58	148.39	-5,432.04	3,342.84	6,378.22	6,377.50	0.72	8,870.641	
200.00	200.00	177.00	177.00	0.49	2.10	148.39	-5,432.04	3,342.84	6,378.22	6,375.62	2.60	2,456.921	
300.00	300.00	277.00	277.00	0.85	3.85	148.39	-5,432.04	3,342.84	6,378.22	6,373.52	4.70	1,357.119	
400.00	400.00	377.00	377.00	1.21	5.59	148.39	-5,432.04	3,342.84	6,378.22	6,371.42	6.80	937.474	
500.00	500.00	477.00	477.00	1.57	7.34	148.39	-5,432.04	3,342.84	6,378.22	6,369.31	8.91	716.057	
600.00	600.00	577.00	577.00	1.93	9.08	148.39	-5,432.04	3,342.84	6,378.22	6,367.21	11.01	579.247	
700.00	700.00	677.00	677.00	2.29	10.83	148.39	-5,432.04	3,342.84	6,378.22	6,365.10	13.12	486.329	
800.00	800.00	777.00	777.00	2.64	12.58	148.39	-5,432.04	3,342.84	6,378.22	6,363.00	15.22	419.101	
900.00	900.00	877.00	877.00	3.00	14.32	148.39	-5,432.04	3,342.84	6,378.22	6,360.90	17.32	368.202	
1,000.00	1,000.00	977.00	977.00	3.36	16.07	148.39	-5,432.04	3,342.84	6,378.22	6,358.79	19.43	328.327	
1,100.00	1,100.00	1,077.00	1,077.00	3.72	17.81	148.39	-5,432.04	3,342.84	6,378.22	6,356.69	21.53	296.245	
1,200.00	1,200.00	1,177.00	1,177.00	4.08	19.56	148.39	-5,432.04	3,342.84	6,378.22	6,354.59	23.63	269.874	
1,300.00	1,300.00	1,277.00	1,277.00	4.44	21.30	148.39	-5,432.04	3,342.84	6,378.22	6,352.48	25.74	247.815	
1,400.00	1,400.00	1,377.00	1,377.00	4.79	23.05	148.39	-5,432.04	3,342.84	6,378.22	6,350.38	27.84	229.089	
1,500.00	1,499.98	1,476.98	1,476.98	5.15	24.79	110.59	-5,432.04	3,342.84	6,378.83	6,348.89	29.94	213.031	
1,600.00	1,599.84	1,576.84	1,576.84	5.51	26.53	110.60	-5,432.04	3,342.84	6,380.68	6,348.63	32.04	199.137	
1,700.00	1,699.45	1,676.45	1,676.45	5.87	28.27	110.61	-5,432.04	3,342.84	6,383.75	6,349.62	34.14	186.995	
1,800.00	1,798.70	1,775.70	1,775.70	6.23	30.01	110.63	-5,432.04	3,342.84	6,388.08	6,351.84	36.23	176.299	
1,900.00	1,897.47	1,874.47	1,874.47	6.60	31.73	110.66	-5,432.04	3,342.84	6,393.65	6,355.32	38.33	166.803	
2,000.00	1,995.62	1,972.62	1,972.62	6.99	33.44	110.69	-5,432.04	3,342.84	6,400.50	6,360.07	40.43	158.316	
2,100.00	2,093.06	2,070.06	2,070.06	7.39	35.14	110.72	-5,432.04	3,342.84	6,408.63	6,366.10	42.53	150.683	
2,200.00	2,189.64	2,166.64	2,166.64	7.82	36.83	110.75	-5,432.04	3,342.84	6,418.08	6,373.44	44.64	143.778	
2,300.00	2,285.27	2,262.27	2,262.27	8.28	38.50	110.78	-5,432.04	3,342.84	6,428.86	6,382.10	46.76	137.499	
2,400.00	2,379.82	2,356.82	2,356.82	8.77	40.15	110.81	-5,432.04	3,342.84	6,441.00	6,392.11	48.88	131.764	
2,500.00	2,473.17	2,450.17	2,450.17	9.31	41.78	110.84	-5,432.04	3,342.84	6,454.52	6,403.50	51.02	126.505	
2,600.00	2,565.21	2,542.21	2,542.21	9.88	43.38	110.86	-5,432.04	3,342.84	6,469.46	6,416.28	53.17	121.665	
2,660.67	2,620.37	2,602.63	2,597.37	10.25	44.44	110.86	-5,432.04	3,342.84	6,479.22	6,424.65	54.58	118.714	
2,700.00	2,655.96	2,632.96	2,632.96	10.50	44.97	110.99	-5,432.04	3,342.84	6,485.75	6,430.41	55.34	117.197	
2,800.00	2,746.43	2,723.43	2,723.43	11.15	46.55	111.31	-5,432.04	3,342.84	6,502.50	6,444.97	57.53	113.037	
2,900.00	2,836.90	2,813.90	2,813.90	11.82	48.13	111.63	-5,432.04	3,342.84	6,519.48	6,459.76	59.73	109.154	
3,000.00	2,927.37	2,904.37	2,904.37	12.50	49.70	111.95	-5,432.04	3,342.84	6,536.70	6,474.76	61.94	105.528	
3,100.00	3,017.85	3,005.15	2,994.85	13.21	51.46	112.27	-5,432.04	3,342.84	6,554.15	6,489.81	64.35	101.852	
3,200.00	3,108.32	3,085.32	3,085.32	13.92	52.86	112.59	-5,432.04	3,342.84	6,571.84	6,505.43	66.41	98.965	
3,300.00	3,198.79	3,175.79	3,175.79	14.64	54.44	112.90	-5,432.04	3,342.84	6,589.74	6,521.10	68.65	95.993	
3,400.00	3,289.27	3,266.27	3,266.27	15.38	56.02	113.21	-5,432.04	3,342.84	6,607.88	6,536.98	70.90	93.204	
3,500.00	3,379.74	3,356.74	3,356.74	16.12	57.60	113.53	-5,432.04	3,342.84	6,626.24	6,553.09	73.15	90.583	
3,600.00	3,470.21	3,447.21	3,447.21	16.87	59.18	113.84	-5,432.04	3,342.84	6,644.82	6,569.41	75.41	88.118	
3,700.00	3,560.68	3,537.68	3,537.68	17.62	60.76	114.14	-5,432.04	3,342.84	6,663.62	6,585.95	77.67	85.796	
3,800.00	3,651.16	3,628.16	3,628.16	18.39	62.34	114.45	-5,432.04	3,342.84	6,682.64	6,602.71	79.93	83.606	
3,900.00	3,741.63	3,718.63	3,718.63	19.15	63.92	114.76	-5,432.04	3,342.84	6,701.88	6,619.69	82.19	81.537	
4,000.00	3,832.10	3,809.10	3,809.10	19.92	65.50	115.06	-5,432.04	3,342.84	6,721.33	6,636.87	84.46	79.581	
4,100.00	3,922.57	3,900.43	3,899.57	20.69	67.09	115.36	-5,432.04	3,342.84	6,741.00	6,654.26	86.74	77.716	
4,200.00	4,013.05	4,009.95	3,990.05	21.47	69.00	115.67	-5,432.04	3,342.84	6,760.88	6,671.54	89.34	75.678	
4,300.00	4,103.52	4,080.52	4,080.52	22.25	70.23	115.96	-5,432.04	3,342.84	6,780.96	6,689.71	91.25	74.308	
4,400.00	4,193.99	4,170.99	4,170.99	23.03	71.81	116.26	-5,432.04	3,342.84	6,801.26	6,707.74	93.52	72.725	
4,500.00	4,284.47	4,261.47	4,261.47	23.81	73.39	116.56	-5,432.04	3,342.84	6,821.75	6,725.97	95.78	71.220	
4,600.00	4,374.94	4,351.94	4,351.94	24.60	74.97	116.85	-5,432.04	3,342.84	6,842.46	6,744.41	98.05	69.788	
4,700.00	4,465.41	4,442.41	4,442.41	25.39	76.55	117.15	-5,432.04	3,342.84	6,863.36	6,763.05	100.31	68.422	
4,800.00	4,555.88	4,532.88	4,532.88	26.18	78.13	117.44	-5,432.04	3,342.84	6,884.47	6,781.90	102.57	67.120	
4,900.00	4,646.36	4,623.36	4,623.36	26.97	79.71	117.73	-5,432.04	3,342.84	6,905.77	6,800.94	104.83	65.877	
5,000.00	4,736.83	4,713.83	4,713.83	27.76	81.29	118.02	-5,432.04	3,342.84	6,927.27	6,820.18	107.09	64.689	

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

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,827.30	4,804.30	4,804.30	28.55	82.86	118.31	-5,432.04	3,342.84	6,948.97	6,839.62	109.34	63.552	
5,200.00	4,917.77	4,905.23	4,894.77	29.35	84.63	118.59	-5,432.04	3,342.84	6,970.85	6,859.07	111.78	62.363	
5,300.00	5,008.25	4,985.25	4,985.25	30.15	86.02	118.88	-5,432.04	3,342.84	6,992.93	6,879.08	113.85	61.423	
5,400.00	5,098.72	5,075.72	5,075.72	30.94	87.60	119.16	-5,432.04	3,342.84	7,015.20	6,899.10	116.10	60.424	
5,500.00	5,189.19	5,166.19	5,166.19	31.74	89.18	119.44	-5,432.04	3,342.84	7,037.65	6,919.31	118.35	59.466	
5,600.00	5,279.67	5,256.67	5,256.67	32.54	90.76	119.72	-5,432.04	3,342.84	7,060.29	6,939.70	120.59	58.546	
5,700.00	5,370.14	5,347.14	5,347.14	33.34	92.34	120.00	-5,432.04	3,342.84	7,083.12	6,960.28	122.84	57.663	
5,800.00	5,460.61	5,437.61	5,437.61	34.14	93.92	120.28	-5,432.04	3,342.84	7,106.12	6,981.05	125.08	56.813	
5,900.00	5,551.08	5,528.08	5,528.08	34.94	95.50	120.55	-5,432.04	3,342.84	7,129.31	7,001.99	127.32	55.996	
6,000.00	5,641.56	5,618.56	5,618.56	35.75	97.08	120.82	-5,432.04	3,342.84	7,152.68	7,023.12	129.56	55.209	
6,100.00	5,732.03	5,709.03	5,709.03	36.55	98.66	121.10	-5,432.04	3,342.84	7,176.22	7,044.43	131.79	54.452	
6,200.00	5,822.50	5,800.50	5,799.50	37.35	100.25	121.37	-5,432.04	3,342.84	7,199.94	7,065.90	134.04	53.715	
6,300.00	5,912.97	5,889.97	5,889.97	38.16	101.81	121.64	-5,432.04	3,342.84	7,223.83	7,087.57	136.25	53.018	
6,400.00	6,003.45	5,980.45	5,980.45	38.96	103.39	121.90	-5,432.04	3,342.84	7,247.89	7,109.41	138.48	52.339	
6,500.00	6,093.92	6,070.92	6,070.92	39.77	104.97	122.17	-5,432.04	3,342.84	7,272.12	7,131.42	140.71	51.683	
6,600.00	6,184.39	6,161.39	6,161.39	40.57	106.55	122.43	-5,432.04	3,342.84	7,296.52	7,153.59	142.93	51.050	
6,700.00	6,274.87	6,251.87	6,251.87	41.38	108.13	122.70	-5,432.04	3,342.84	7,321.09	7,175.94	145.15	50.439	
6,800.00	6,365.34	6,342.34	6,342.34	42.18	109.71	122.96	-5,432.04	3,342.84	7,345.82	7,198.45	147.37	49.847	
6,900.00	6,455.81	6,432.81	6,432.81	42.99	111.29	123.22	-5,432.04	3,342.84	7,370.71	7,221.13	149.58	49.276	
7,000.00	6,546.28	6,523.28	6,523.28	43.80	112.87	123.47	-5,432.04	3,342.84	7,395.77	7,243.98	151.79	48.722	
7,100.00	6,636.76	6,613.76	6,613.76	44.61	114.45	123.73	-5,432.04	3,342.84	7,420.99	7,266.98	154.00	48.187	
7,200.00	6,727.23	6,704.23	6,704.23	45.41	116.02	123.99	-5,432.04	3,342.84	7,446.36	7,290.15	156.21	47.668	
7,300.00	6,817.70	6,805.30	6,794.70	46.22	117.79	124.24	-5,432.04	3,342.84	7,471.89	7,313.29	158.60	47.111	
7,383.79	6,893.51	6,870.51	6,870.51	46.90	118.93	124.45	-5,432.04	3,342.84	7,493.40	7,333.14	160.26	46.757	
7,400.00	6,908.25	6,885.25	6,885.25	47.03	119.18	122.25	-5,432.04	3,342.84	7,497.36	7,336.74	160.62	46.677	
7,450.00	6,954.52	6,931.52	6,931.52	47.40	119.99	113.65	-5,432.04	3,342.84	7,506.88	7,345.15	161.73	46.416	
7,500.00	7,001.74	6,978.74	6,978.74	47.72	120.82	101.75	-5,432.04	3,342.84	7,512.25	7,349.41	162.84	46.133	
7,550.00	7,049.55	7,026.55	7,026.55	47.99	121.65	86.43	-5,432.04	3,342.84	7,513.44	7,349.50	163.94	45.831	
7,600.00	7,097.58	7,074.58	7,074.58	48.21	122.49	69.21	-5,432.04	3,342.84	7,510.42	7,345.40	165.02	45.513	
7,650.00	7,145.48	7,122.48	7,122.48	48.37	123.32	53.02	-5,432.04	3,342.84	7,503.23	7,337.16	166.07	45.182	
7,700.00	7,192.88	7,169.88	7,169.88	48.48	124.15	39.84	-5,432.04	3,342.84	7,491.90	7,324.82	167.08	44.841	
7,750.00	7,239.41	7,216.41	7,216.41	48.54	124.96	29.84	-5,432.04	3,342.84	7,476.52	7,308.47	168.05	44.491	
7,800.00	7,284.72	7,261.72	7,261.72	48.56	125.75	22.31	-5,432.04	3,342.84	7,457.19	7,288.23	168.97	44.134	
7,850.00	7,328.47	7,305.47	7,305.47	48.54	126.52	16.47	-5,432.04	3,342.84	7,434.07	7,264.23	169.83	43.772	
7,900.00	7,370.32	7,347.32	7,347.32	48.47	127.25	11.74	-5,432.04	3,342.84	7,407.32	7,236.67	170.65	43.408	
7,950.00	7,409.96	7,386.96	7,386.96	48.37	127.94	7.69	-5,432.04	3,342.84	7,377.14	7,205.75	171.39	43.042	
8,000.00	7,447.08	7,424.08	7,424.08	48.24	128.59	4.00	-5,432.04	3,342.84	7,343.77	7,171.69	172.08	42.678	
8,050.00	7,481.41	7,458.41	7,458.41	48.07	129.19	0.38	-5,432.04	3,342.84	7,307.44	7,134.76	172.69	42.316	
8,100.00	7,512.67	7,489.67	7,489.67	47.87	129.73	-3.41	-5,432.04	3,342.84	7,268.45	7,095.22	173.23	41.959	
8,150.00	7,540.64	7,517.64	7,517.64	47.65	130.22	-7.70	-5,432.04	3,342.84	7,227.08	7,053.39	173.69	41.609	
8,200.00	7,565.09	7,542.09	7,542.09	47.40	130.65	-12.87	-5,432.04	3,342.84	7,183.65	7,009.58	174.07	41.268	
8,250.00	7,585.85	7,562.85	7,562.85	47.14	131.01	-19.53	-5,432.04	3,342.84	7,138.50	6,964.12	174.38	40.936	
8,300.00	7,602.75	7,579.75	7,579.75	46.86	131.31	-28.57	-5,432.04	3,342.84	7,091.97	6,917.36	174.61	40.617	
8,350.00	7,615.67	7,607.33	7,592.67	46.58	131.79	-41.16	-5,432.04	3,342.84	7,044.42	6,869.41	175.01	40.252	
8,400.00	7,624.51	7,601.51	7,601.51	46.28	131.69	-58.13	-5,432.04	3,342.84	6,996.22	6,821.40	174.82	40.020	
8,450.00	7,629.19	7,606.19	7,606.19	45.98	131.77	-78.03	-5,432.04	3,342.84	6,947.73	6,772.93	174.81	39.745	
8,481.00	7,630.00	7,607.00	7,607.00	45.79	131.78	-90.00	-5,432.04	3,342.84	6,917.70	6,742.94	174.76	39.584	
8,500.00	7,630.00	7,607.00	7,607.00	45.68	131.78	-90.00	-5,432.04	3,342.84	6,899.32	6,724.60	174.72	39.488	
8,600.00	7,630.00	7,607.00	7,607.00	45.11	131.78	-90.00	-5,432.04	3,342.84	6,802.66	6,628.14	174.52	38.979	
8,700.00	7,630.00	7,607.00	7,607.00	44.56	131.78	-90.00	-5,432.04	3,342.84	6,706.10	6,531.78	174.32	38.471	
8,800.00	7,630.00	7,607.00	7,607.00	44.05	131.78	-90.00	-5,432.04	3,342.84	6,609.63	6,435.52	174.11	37.962	
8,900.00	7,630.00	7,607.00	7,607.00	43.57	131.78	-90.00	-5,432.04	3,342.84	6,513.28	6,339.37	173.91	37.453	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
9,000.00	7,630.00	7,607.00	7,607.00	43.12	131.78	-90.00	-5,432.04	3,342.84	6,417.03	6,243.33	173.70	36.943	
9,100.00	7,630.00	7,607.00	7,607.00	42.70	131.78	-90.00	-5,432.04	3,342.84	6,320.90	6,147.41	173.49	36.433	
9,200.00	7,630.00	7,607.00	7,607.00	42.31	131.78	-90.00	-5,432.04	3,342.84	6,224.90	6,051.61	173.28	35.923	
9,300.00	7,630.00	7,607.00	7,607.00	41.94	131.78	-90.00	-5,432.04	3,342.84	6,129.02	5,955.94	173.08	35.412	
9,400.00	7,630.00	7,607.00	7,607.00	41.59	131.78	-90.00	-5,432.04	3,342.84	6,033.27	5,860.41	172.87	34.901	
9,500.00	7,630.00	7,607.00	7,607.00	41.26	131.78	-90.00	-5,432.04	3,342.84	5,937.67	5,765.01	172.66	34.389	
9,600.00	7,630.00	7,607.00	7,607.00	40.96	131.78	-90.00	-5,432.04	3,342.84	5,842.21	5,669.76	172.45	33.877	
9,700.00	7,630.00	7,607.00	7,607.00	40.68	131.78	-90.00	-5,432.04	3,342.84	5,746.91	5,574.66	172.25	33.365	
9,800.00	7,630.00	7,607.00	7,607.00	40.42	131.78	-90.00	-5,432.04	3,342.84	5,651.77	5,479.73	172.04	32.851	
9,900.00	7,630.00	7,607.00	7,607.00	40.17	131.78	-90.00	-5,432.04	3,342.84	5,556.80	5,384.96	171.84	32.337	
10,000.00	7,630.00	7,607.00	7,607.00	39.96	131.78	-90.00	-5,432.04	3,342.84	5,462.01	5,290.37	171.64	31.822	
10,100.00	7,630.00	7,607.00	7,607.00	40.05	131.78	-90.00	-5,432.04	3,342.84	5,367.41	5,195.96	171.45	31.306	
10,200.00	7,630.00	7,607.00	7,607.00	40.95	131.78	-90.00	-5,432.04	3,342.84	5,273.00	5,101.74	171.26	30.790	
10,300.00	7,630.00	7,607.00	7,607.00	41.94	131.78	-90.00	-5,432.04	3,342.84	5,178.81	5,007.73	171.08	30.272	
10,400.00	7,630.00	7,607.00	7,607.00	42.98	131.78	-90.00	-5,432.04	3,342.84	5,084.84	4,913.94	170.90	29.753	
10,500.00	7,630.00	7,607.00	7,607.00	44.06	131.78	-90.00	-5,432.04	3,342.84	4,991.11	4,820.37	170.74	29.233	
10,600.00	7,630.00	7,607.00	7,607.00	45.17	131.78	-90.00	-5,432.04	3,342.84	4,897.62	4,727.04	170.58	28.711	
10,700.00	7,630.00	7,607.00	7,607.00	46.32	131.78	-90.00	-5,432.04	3,342.84	4,804.39	4,633.95	170.44	28.188	
10,800.00	7,630.00	7,607.00	7,607.00	47.50	131.78	-90.00	-5,432.04	3,342.84	4,711.44	4,541.13	170.31	27.664	
10,900.00	7,630.00	7,607.00	7,607.00	48.70	131.78	-90.00	-5,432.04	3,342.84	4,618.79	4,448.59	170.20	27.137	
11,000.00	7,630.00	7,607.00	7,607.00	49.94	131.78	-90.00	-5,432.04	3,342.84	4,526.45	4,356.34	170.11	26.609	
11,100.00	7,630.00	7,607.00	7,607.00	51.20	131.78	-90.00	-5,432.04	3,342.84	4,434.44	4,264.40	170.04	26.079	
11,200.00	7,630.00	7,607.00	7,607.00	52.48	131.78	-90.00	-5,432.04	3,342.84	4,342.79	4,172.79	170.00	25.546	
11,300.00	7,630.00	7,607.00	7,607.00	53.79	131.78	-90.00	-5,432.04	3,342.84	4,251.51	4,081.52	169.98	25.011	
11,400.00	7,630.00	7,607.00	7,607.00	55.12	131.78	-90.00	-5,432.04	3,342.84	4,160.63	3,990.63	170.00	24.474	
11,500.00	7,630.00	7,607.00	7,607.00	56.46	131.78	-90.00	-5,432.04	3,342.84	4,070.18	3,900.12	170.06	23.934	
11,600.00	7,630.00	7,607.00	7,607.00	57.83	131.78	-90.00	-5,432.04	3,342.84	3,980.19	3,810.03	170.16	23.391	
11,700.00	7,630.00	7,607.00	7,607.00	59.22	131.78	-90.00	-5,432.04	3,342.84	3,890.68	3,720.37	170.31	22.845	
11,800.00	7,630.00	7,607.00	7,607.00	60.62	131.78	-90.00	-5,432.04	3,342.84	3,801.70	3,631.19	170.51	22.296	
11,900.00	7,630.00	7,607.00	7,607.00	62.04	131.78	-90.00	-5,432.04	3,342.84	3,713.28	3,542.51	170.78	21.744	
12,000.00	7,630.00	7,607.00	7,607.00	63.48	131.78	-90.00	-5,432.04	3,342.84	3,625.46	3,454.36	171.10	21.189	
12,100.00	7,630.00	7,607.00	7,607.00	64.93	131.78	-90.00	-5,432.04	3,342.84	3,538.29	3,366.78	171.51	20.630	
12,200.00	7,630.00	7,607.00	7,607.00	66.39	131.78	-90.00	-5,432.04	3,342.84	3,451.82	3,279.82	171.99	20.069	
12,300.00	7,630.00	7,607.00	7,607.00	67.86	131.78	-90.00	-5,432.04	3,342.84	3,366.09	3,193.52	172.57	19.506	
12,400.00	7,630.00	7,607.00	7,607.00	69.35	131.78	-90.00	-5,432.04	3,342.84	3,281.17	3,107.93	173.24	18.940	
12,500.00	7,630.00	7,607.00	7,607.00	70.85	131.78	-90.00	-5,432.04	3,342.84	3,197.12	3,023.10	174.03	18.372	
12,600.00	7,630.00	7,607.00	7,607.00	72.36	131.78	-90.00	-5,432.04	3,342.84	3,114.02	2,939.10	174.92	17.802	
12,700.00	7,630.00	7,607.00	7,607.00	73.88	131.78	-90.00	-5,432.04	3,342.84	3,031.94	2,855.99	175.95	17.232	
12,800.00	7,630.00	7,607.00	7,607.00	75.41	131.78	-90.00	-5,432.04	3,342.84	2,950.96	2,773.86	177.10	16.663	
12,900.00	7,630.00	7,607.00	7,607.00	76.95	131.78	-90.00	-5,432.04	3,342.84	2,871.18	2,692.78	178.40	16.094	
13,000.00	7,630.00	7,607.00	7,607.00	78.49	131.78	-90.00	-5,432.04	3,342.84	2,792.71	2,612.86	179.85	15.528	
13,100.00	7,630.00	7,607.00	7,607.00	80.05	131.78	-90.00	-5,432.04	3,342.84	2,715.65	2,534.18	181.46	14.965	
13,200.00	7,630.00	7,607.00	7,607.00	81.61	131.78	-90.00	-5,432.04	3,342.84	2,640.13	2,456.89	183.24	14.408	
13,300.00	7,630.00	7,607.00	7,607.00	83.18	131.78	-90.00	-5,432.04	3,342.84	2,566.28	2,381.09	185.19	13.857	
13,400.00	7,630.00	7,607.00	7,607.00	84.76	131.78	-90.00	-5,432.04	3,342.84	2,494.26	2,306.93	187.32	13.315	
13,500.00	7,630.00	7,607.00	7,607.00	86.34	131.78	-90.00	-5,432.04	3,342.84	2,424.22	2,234.58	189.64	12.784	
13,600.00	7,630.00	7,607.00	7,607.00	87.94	131.78	-90.00	-5,432.04	3,342.84	2,356.34	2,164.21	192.14	12.264	
13,700.00	7,630.00	7,607.00	7,607.00	89.53	131.78	-90.00	-5,432.04	3,342.84	2,290.82	2,096.01	194.82	11.759	
13,800.00	7,630.00	7,607.00	7,607.00	91.13	131.78	-90.00	-5,432.04	3,342.84	2,227.87	2,030.18	197.69	11.270	
13,900.00	7,630.00	7,607.00	7,607.00	92.74	131.78	-90.00	-5,432.04	3,342.84	2,167.70	1,966.97	200.73	10.799	
14,000.00	7,630.00	7,607.00	7,607.00	94.35	131.78	-90.00	-5,432.04	3,342.84	2,110.56	1,906.62	203.94	10.349	
14,100.00	7,630.00	7,607.00	7,607.00	95.97	131.78	-90.00	-5,432.04	3,342.84	2,056.69	1,849.39	207.30	9.921	

Anticollision Report

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

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,630.00	7,607.00	7,607.00	97.60	131.78	-90.00	-5,432.04	3,342.84	2,006.36	1,795.57	210.79	9.518	
14,300.00	7,630.00	7,607.00	7,607.00	99.22	131.78	-90.00	-5,432.04	3,342.84	1,959.85	1,745.47	214.39	9.142	
14,400.00	7,630.00	7,607.00	7,607.00	100.85	131.78	-90.00	-5,432.04	3,342.84	1,917.43	1,699.37	218.06	8.793	
14,500.00	7,630.00	7,607.00	7,607.00	102.49	131.78	-90.00	-5,432.04	3,342.84	1,879.38	1,657.62	221.76	8.475	
14,600.00	7,630.00	7,607.00	7,607.00	104.13	131.78	-90.00	-5,432.04	3,342.84	1,845.97	1,620.50	225.46	8.187	
14,700.00	7,630.00	7,607.00	7,607.00	105.77	131.78	-90.00	-5,432.04	3,342.84	1,817.45	1,588.34	229.11	7.933	
14,800.00	7,630.00	7,607.00	7,607.00	107.42	131.78	-90.00	-5,432.04	3,342.84	1,794.06	1,561.40	232.65	7.711	
14,900.00	7,630.00	7,607.00	7,607.00	109.07	131.78	-90.00	-5,432.04	3,342.84	1,775.99	1,539.95	236.04	7.524	
15,000.00	7,630.00	7,607.00	7,607.00	110.72	131.78	-90.00	-5,432.04	3,342.84	1,763.43	1,524.20	239.23	7.371	
15,100.00	7,630.00	7,607.00	7,607.00	112.38	131.78	-90.00	-5,432.04	3,342.84	1,756.47	1,514.31	242.16	7.253	
15,172.38	7,630.00	7,607.00	7,607.00	113.58	131.78	-90.00	-5,432.04	3,342.84	1,754.98	1,510.87	244.11	7.189	CC
15,200.00	7,630.00	7,607.00	7,607.00	114.04	131.78	-90.00	-5,432.04	3,342.84	1,755.20	1,510.39	244.81	7.170	ES
15,300.00	7,630.00	7,607.00	7,607.00	115.71	131.78	-90.00	-5,432.04	3,342.84	1,759.62	1,512.48	247.14	7.120	
15,400.00	7,630.00	7,607.00	7,607.00	117.37	131.78	-90.00	-5,432.04	3,342.84	1,769.68	1,520.56	249.12	7.104	SF
15,500.00	7,630.00	7,607.00	7,607.00	119.04	131.78	-90.00	-5,432.04	3,342.84	1,785.30	1,534.54	250.76	7.120	
15,600.00	7,630.00	7,607.00	7,607.00	120.71	131.78	-90.00	-5,432.04	3,342.84	1,806.33	1,554.28	252.05	7.167	
15,700.00	7,630.00	7,607.00	7,607.00	122.39	131.78	-90.00	-5,432.04	3,342.84	1,832.58	1,579.58	253.00	7.243	
15,800.00	7,630.00	7,607.00	7,607.00	124.06	131.78	-90.00	-5,432.04	3,342.84	1,863.83	1,610.20	253.63	7.349	
15,900.00	7,630.00	7,607.00	7,607.00	125.74	131.78	-90.00	-5,432.04	3,342.84	1,899.84	1,645.87	253.97	7.481	
16,000.00	7,630.00	7,607.00	7,607.00	127.42	131.78	-90.00	-5,432.04	3,342.84	1,940.34	1,686.30	254.04	7.638	
16,100.00	7,630.00	7,607.00	7,607.00	129.10	131.78	-90.00	-5,432.04	3,342.84	1,985.05	1,731.18	253.88	7.819	
16,200.00	7,630.00	7,607.00	7,607.00	130.79	131.78	-90.00	-5,432.04	3,342.84	2,033.71	1,780.20	253.51	8.022	
16,300.00	7,630.00	7,607.00	7,607.00	132.48	131.78	-90.00	-5,432.04	3,342.84	2,086.02	1,833.05	252.97	8.246	
16,400.00	7,630.00	7,607.00	7,607.00	134.17	131.78	-90.00	-5,432.04	3,342.84	2,141.73	1,889.44	252.29	8.489	
16,500.00	7,630.00	7,607.00	7,607.00	135.86	131.78	-90.00	-5,432.04	3,342.84	2,200.57	1,949.09	251.49	8.750	
16,600.00	7,630.00	7,607.00	7,607.00	137.55	131.78	-90.00	-5,432.04	3,342.84	2,262.31	2,011.71	250.60	9.028	
16,700.00	7,630.00	7,607.00	7,607.00	139.24	131.78	-90.00	-5,432.04	3,342.84	2,326.71	2,077.07	249.64	9.320	
16,800.00	7,630.00	7,607.00	7,607.00	140.94	131.78	-90.00	-5,432.04	3,342.84	2,393.55	2,144.93	248.63	9.627	
16,900.00	7,630.00	7,607.00	7,607.00	142.64	131.78	-90.00	-5,432.04	3,342.84	2,462.65	2,215.07	247.58	9.947	
17,000.00	7,630.00	7,607.00	7,607.00	144.34	131.78	-90.00	-5,432.04	3,342.84	2,533.80	2,287.29	246.51	10.279	
17,100.00	7,630.00	7,607.00	7,607.00	146.04	131.78	-90.00	-5,432.04	3,342.84	2,606.85	2,361.42	245.43	10.622	
17,200.00	7,630.00	7,607.00	7,607.00	147.74	131.78	-90.00	-5,432.04	3,342.84	2,681.64	2,437.30	244.34	10.975	
17,300.00	7,630.00	7,607.00	7,607.00	149.44	131.78	-90.00	-5,432.04	3,342.84	2,758.03	2,514.76	243.26	11.338	
17,400.00	7,630.00	7,607.00	7,607.00	151.15	131.78	-90.00	-5,432.04	3,342.84	2,835.88	2,593.69	242.20	11.709	
17,500.00	7,630.00	7,607.00	7,607.00	152.86	131.78	-90.00	-5,432.04	3,342.84	2,915.09	2,673.95	241.15	12.088	
17,600.00	7,630.00	7,607.00	7,607.00	154.56	131.78	-90.00	-5,432.04	3,342.84	2,995.54	2,755.43	240.12	12.475	
17,700.00	7,630.00	7,607.00	7,607.00	156.27	131.78	-90.00	-5,432.04	3,342.84	3,077.14	2,838.04	239.11	12.869	
17,800.00	7,630.00	7,607.00	7,607.00	157.98	131.78	-90.00	-5,432.04	3,342.84	3,159.80	2,921.68	238.12	13.270	
17,900.00	7,630.00	7,607.00	7,607.00	159.70	131.78	-90.00	-5,432.04	3,342.84	3,243.43	3,006.27	237.17	13.676	
18,000.00	7,630.00	7,607.00	7,607.00	161.41	131.78	-90.00	-5,432.04	3,342.84	3,327.97	3,091.73	236.24	14.088	
18,100.00	7,630.00	7,607.00	7,607.00	163.12	131.78	-90.00	-5,432.04	3,342.84	3,413.34	3,178.01	235.33	14.504	
18,154.00	7,630.00	7,607.00	7,607.00	164.05	131.78	-90.00	-5,432.04	3,342.84	3,459.77	3,224.92	234.86	14.731	

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 FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	133.97	-5,559.82	5,764.30	8,008.77				
100.00	100.00	60.00	60.00	0.13	0.50	133.97	-5,559.82	5,764.30	8,008.67	8,008.04	0.63	N/A	
200.00	200.00	160.00	160.00	0.49	1.88	133.97	-5,559.82	5,764.30	8,008.67	8,006.30	2.37	3,380.430	
300.00	300.00	260.00	260.00	0.85	3.62	133.97	-5,559.82	5,764.30	8,008.67	8,004.20	4.47	1,790.476	
400.00	400.00	360.00	360.00	1.21	5.37	133.97	-5,559.82	5,764.30	8,008.67	8,002.10	6.58	1,217.729	
500.00	500.00	460.00	460.00	1.57	7.11	133.97	-5,559.82	5,764.30	8,008.67	7,999.99	8.68	922.602	
600.00	600.00	560.00	560.00	1.93	8.86	133.97	-5,559.82	5,764.30	8,008.67	7,997.89	10.78	742.621	
700.00	700.00	660.00	660.00	2.29	10.60	133.97	-5,559.82	5,764.30	8,008.67	7,995.78	12.89	621.399	
800.00	800.00	760.00	760.00	2.64	12.35	133.97	-5,559.82	5,764.30	8,008.67	7,993.68	14.99	534.199	
900.00	900.00	860.00	860.00	3.00	14.09	133.97	-5,559.82	5,764.30	8,008.67	7,991.58	17.10	468.460	
1,000.00	1,000.00	960.00	960.00	3.36	15.84	133.97	-5,559.82	5,764.30	8,008.67	7,989.47	19.20	417.128	
1,100.00	1,100.00	1,060.00	1,060.00	3.72	17.58	133.97	-5,559.82	5,764.30	8,008.67	7,987.37	21.30	375.935	
1,200.00	1,200.00	1,160.00	1,160.00	4.08	19.33	133.97	-5,559.82	5,764.30	8,008.67	7,985.27	23.41	342.147	
1,300.00	1,300.00	1,260.00	1,260.00	4.44	21.07	133.97	-5,559.82	5,764.30	8,008.67	7,983.16	25.51	313.931	
1,400.00	1,400.00	1,360.00	1,360.00	4.79	22.82	133.97	-5,559.82	5,764.30	8,008.67	7,981.06	27.61	290.014	
1,500.00	1,499.98	1,459.98	1,459.98	5.15	24.57	96.17	-5,559.82	5,764.30	8,008.86	7,979.14	29.72	269.513	
1,600.00	1,599.84	1,559.84	1,559.84	5.51	26.31	96.19	-5,559.82	5,764.30	8,009.42	7,977.61	31.81	251.758	
1,700.00	1,699.45	1,659.45	1,659.45	5.87	28.05	96.24	-5,559.82	5,764.30	8,010.37	7,976.46	33.91	236.222	
1,800.00	1,798.70	1,758.70	1,758.70	6.23	29.78	96.30	-5,559.82	5,764.30	8,011.71	7,975.71	36.01	222.510	
1,900.00	1,897.47	1,857.47	1,857.47	6.60	31.50	96.37	-5,559.82	5,764.30	8,013.46	7,975.36	38.10	210.311	
2,000.00	1,995.62	1,955.62	1,955.62	6.99	33.22	96.46	-5,559.82	5,764.30	8,015.63	7,975.43	40.20	199.378	
2,100.00	2,093.06	2,053.06	2,053.06	7.39	34.92	96.56	-5,559.82	5,764.30	8,018.25	7,975.94	42.31	189.514	
2,200.00	2,189.64	2,149.64	2,149.64	7.82	36.60	96.68	-5,559.82	5,764.30	8,021.34	7,976.91	44.43	180.559	
2,300.00	2,285.27	2,245.27	2,245.27	8.28	38.27	96.81	-5,559.82	5,764.30	8,024.93	7,978.37	46.55	172.385	
2,400.00	2,379.82	2,339.82	2,339.82	8.77	39.92	96.94	-5,559.82	5,764.30	8,029.05	7,980.35	48.69	164.886	
2,500.00	2,473.17	2,433.17	2,433.17	9.31	41.55	97.09	-5,559.82	5,764.30	8,033.73	7,982.88	50.85	157.978	
2,600.00	2,565.21	2,525.21	2,525.21	9.88	43.16	97.24	-5,559.82	5,764.30	8,039.02	7,985.99	53.03	151.589	
2,660.67	2,620.37	2,580.37	2,580.37	10.25	44.12	97.33	-5,559.82	5,764.30	8,042.53	7,988.17	54.36	147.943	
2,700.00	2,655.96	2,615.96	2,615.96	10.50	44.74	97.44	-5,559.82	5,764.30	8,044.91	7,989.68	55.23	145.664	
2,800.00	2,746.43	2,706.43	2,706.43	11.15	46.32	97.71	-5,559.82	5,764.30	8,051.10	7,993.65	57.45	140.138	
2,900.00	2,836.90	2,803.10	2,796.90	11.82	48.01	97.98	-5,559.82	5,764.30	8,057.52	7,997.72	59.80	134.739	
3,000.00	2,927.37	2,887.37	2,887.37	12.50	49.48	98.25	-5,559.82	5,764.30	8,064.15	8,002.20	61.95	130.170	
3,100.00	3,017.85	2,977.85	2,977.85	13.21	51.06	98.53	-5,559.82	5,764.30	8,071.01	8,006.78	64.22	125.672	
3,200.00	3,108.32	3,068.32	3,068.32	13.92	52.64	98.80	-5,559.82	5,764.30	8,078.08	8,011.57	66.51	121.463	
3,300.00	3,198.79	3,158.79	3,158.79	14.64	54.22	99.07	-5,559.82	5,764.30	8,085.37	8,016.57	68.80	117.522	
3,400.00	3,289.27	3,249.27	3,249.27	15.38	55.79	99.34	-5,559.82	5,764.30	8,092.88	8,021.78	71.10	113.824	
3,500.00	3,379.74	3,339.74	3,339.74	16.12	57.37	99.61	-5,559.82	5,764.30	8,100.60	8,027.20	73.41	110.351	
3,600.00	3,470.21	3,430.21	3,430.21	16.87	58.95	99.88	-5,559.82	5,764.30	8,108.55	8,032.83	75.72	107.085	
3,700.00	3,560.68	3,520.68	3,520.68	17.62	60.53	100.15	-5,559.82	5,764.30	8,116.70	8,038.67	78.04	104.009	
3,800.00	3,651.16	3,611.16	3,611.16	18.39	62.11	100.41	-5,559.82	5,764.30	8,125.08	8,044.72	80.36	101.109	
3,900.00	3,741.63	3,701.63	3,701.63	19.15	63.69	100.68	-5,559.82	5,764.30	8,133.66	8,050.98	82.68	98.369	
4,000.00	3,832.10	3,807.90	3,792.10	19.92	65.54	100.95	-5,559.82	5,764.30	8,142.47	8,057.18	85.29	95.470	
4,100.00	3,922.57	3,882.57	3,882.57	20.69	66.85	101.22	-5,559.82	5,764.30	8,151.48	8,064.14	87.34	93.328	
4,200.00	4,013.05	3,973.05	3,973.05	21.47	68.43	101.48	-5,559.82	5,764.30	8,160.71	8,071.03	89.67	91.004	
4,300.00	4,103.52	4,063.52	4,063.52	22.25	70.01	101.75	-5,559.82	5,764.30	8,170.15	8,078.14	92.01	88.799	
4,400.00	4,193.99	4,153.99	4,153.99	23.03	71.58	102.01	-5,559.82	5,764.30	8,179.80	8,085.45	94.34	86.704	
4,500.00	4,284.47	4,244.47	4,244.47	23.81	73.16	102.28	-5,559.82	5,764.30	8,189.65	8,092.98	96.68	84.712	
4,600.00	4,374.94	4,334.94	4,334.94	24.60	74.74	102.54	-5,559.82	5,764.30	8,199.72	8,100.71	99.01	82.816	
4,700.00	4,465.41	4,425.41	4,425.41	25.39	76.32	102.81	-5,559.82	5,764.30	8,210.00	8,108.65	101.35	81.009	
4,800.00	4,555.88	4,515.88	4,515.88	26.18	77.90	103.07	-5,559.82	5,764.30	8,220.49	8,116.81	103.68	79.285	
4,900.00	4,646.36	4,606.36	4,606.36	26.97	79.48	103.33	-5,559.82	5,764.30	8,231.18	8,125.16	106.02	77.639	
5,000.00	4,736.83	4,703.17	4,696.83	27.76	81.17	103.60	-5,559.82	5,764.30	8,242.08	8,133.62	108.46	75.989	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	4,827.30	4,787.30	4,787.30	28.55	82.64	103.86	-5,559.82	5,764.30	8,253.18	8,142.50	110.69	74.562	
5,200.00	4,917.77	4,877.77	4,877.77	29.35	84.22	104.12	-5,559.82	5,764.30	8,264.49	8,151.47	113.02	73.122	
5,300.00	5,008.25	4,968.25	4,968.25	30.15	85.80	104.38	-5,559.82	5,764.30	8,276.01	8,160.65	115.36	71.743	
5,400.00	5,098.72	5,058.72	5,058.72	30.94	87.38	104.64	-5,559.82	5,764.30	8,287.72	8,170.03	117.69	70.420	
5,500.00	5,189.19	5,149.19	5,149.19	31.74	88.95	104.90	-5,559.82	5,764.30	8,299.64	8,179.62	120.02	69.151	
5,600.00	5,279.67	5,239.67	5,239.67	32.54	90.53	105.16	-5,559.82	5,764.30	8,311.76	8,189.41	122.35	67.933	
5,700.00	5,370.14	5,330.14	5,330.14	33.34	92.11	105.42	-5,559.82	5,764.30	8,324.08	8,199.40	124.68	66.762	
5,800.00	5,460.61	5,420.61	5,420.61	34.14	93.69	105.67	-5,559.82	5,764.30	8,336.60	8,209.59	127.01	65.637	
5,900.00	5,551.08	5,425.00	5,425.00	34.94	93.77	105.69	-5,559.82	5,764.30	8,349.76	8,221.95	127.82	65.327	
6,000.00	5,641.56	5,425.00	5,425.00	35.75	93.77	105.69	-5,559.82	5,764.30	8,364.10	8,235.57	128.53	65.077	
6,100.00	5,732.03	5,425.00	5,425.00	36.55	93.77	105.69	-5,559.82	5,764.30	8,379.60	8,250.38	129.22	64.848	
6,200.00	5,822.50	5,425.00	5,425.00	37.35	93.77	105.69	-5,559.82	5,764.30	8,396.27	8,266.37	129.90	64.638	
6,300.00	5,912.97	5,425.00	5,425.00	38.16	93.77	105.69	-5,559.82	5,764.30	8,414.09	8,283.53	130.56	64.448	
6,400.00	6,003.45	5,425.00	5,425.00	38.96	93.77	105.69	-5,559.82	5,764.30	8,433.06	8,301.86	131.20	64.277	
6,500.00	6,093.92	5,425.00	5,425.00	39.77	93.77	105.69	-5,559.82	5,764.30	8,453.17	8,321.35	131.82	64.125	
6,600.00	6,184.39	5,425.00	5,425.00	40.57	93.77	105.69	-5,559.82	5,764.30	8,474.42	8,341.98	132.43	63.990	
6,700.00	6,274.87	5,425.00	5,425.00	41.38	93.77	105.69	-5,559.82	5,764.30	8,496.78	8,363.76	133.02	63.874	
6,800.00	6,365.34	5,425.00	5,425.00	42.18	93.77	105.69	-5,559.82	5,764.30	8,520.27	8,386.67	133.60	63.775	
6,900.00	6,455.81	5,425.00	5,425.00	42.99	93.77	105.69	-5,559.82	5,764.30	8,544.85	8,410.70	134.15	63.694	
7,000.00	6,546.28	5,425.00	5,425.00	43.80	93.77	105.69	-5,559.82	5,764.30	8,570.54	8,435.84	134.69	63.629	
7,100.00	6,636.76	5,425.00	5,425.00	44.61	93.77	105.69	-5,559.82	5,764.30	8,597.31	8,462.09	135.22	63.581	
7,200.00	6,727.23	5,425.00	5,425.00	45.41	93.77	105.69	-5,559.82	5,764.30	8,625.16	8,489.43	135.72	63.549	
7,300.00	6,817.70	5,425.00	5,425.00	46.22	93.77	105.69	-5,559.82	5,764.30	8,654.07	8,517.86	136.21	63.533	
7,383.79	6,893.51	5,425.00	5,425.00	46.90	93.77	105.69	-5,559.82	5,764.30	8,679.11	8,542.50	136.61	63.531	
7,400.00	6,908.25	5,425.00	5,425.00	47.03	93.77	103.61	-5,559.82	5,764.30	8,683.86	8,547.17	136.69	63.532	
7,450.00	6,954.52	5,425.00	5,425.00	47.40	93.77	95.35	-5,559.82	5,764.30	8,696.35	8,559.46	136.89	63.527	
7,500.00	7,001.74	5,425.00	5,425.00	47.72	93.77	83.71	-5,559.82	5,764.30	8,705.55	8,568.49	137.06	63.515	
7,550.00	7,049.55	5,425.00	5,425.00	47.99	93.77	68.57	-5,559.82	5,764.30	8,711.39	8,574.20	137.20	63.496	
7,600.00	7,097.58	5,425.00	5,425.00	48.21	93.77	51.46	-5,559.82	5,764.30	8,713.83	8,576.55	137.29	63.473	
7,650.00	7,145.48	5,425.00	5,425.00	48.37	93.77	35.30	-5,559.82	5,764.30	8,712.86	8,575.53	137.33	63.444	
7,700.00	7,192.88	5,425.00	5,425.00	48.48	93.77	22.09	-5,559.82	5,764.30	8,708.48	8,571.15	137.34	63.410	
7,750.00	7,239.41	5,425.00	5,425.00	48.54	93.77	12.00	-5,559.82	5,764.30	8,700.73	8,563.42	137.30	63.369	
7,800.00	7,284.72	5,425.00	5,425.00	48.56	93.77	4.32	-5,559.82	5,764.30	8,689.64	8,552.41	137.23	63.321	
7,850.00	7,328.47	5,425.00	5,425.00	48.54	93.77	-1.70	-5,559.82	5,764.30	8,675.30	8,538.17	137.13	63.264	
7,900.00	7,370.32	5,425.00	5,425.00	48.47	93.77	-6.65	-5,559.82	5,764.30	8,657.80	8,520.80	136.99	63.199	
7,950.00	7,409.96	5,425.00	5,425.00	48.37	93.77	-10.93	-5,559.82	5,764.30	8,637.25	8,500.42	136.83	63.124	
8,000.00	7,447.08	5,425.00	5,425.00	48.24	93.77	-14.83	-5,559.82	5,764.30	8,613.78	8,477.14	136.64	63.039	
8,050.00	7,481.41	5,425.00	5,425.00	48.07	93.77	-18.58	-5,559.82	5,764.30	8,587.56	8,451.13	136.43	62.945	
8,100.00	7,512.67	5,425.00	5,425.00	47.87	93.77	-22.32	-5,559.82	5,764.30	8,558.75	8,422.55	136.20	62.841	
8,150.00	7,540.64	5,425.00	5,425.00	47.65	93.77	-26.21	-5,559.82	5,764.30	8,527.55	8,391.60	135.95	62.726	
8,200.00	7,565.09	5,425.00	5,425.00	47.40	93.77	-30.37	-5,559.82	5,764.30	8,494.18	8,358.49	135.69	62.601	
8,250.00	7,585.85	5,425.00	5,425.00	47.14	93.77	-34.90	-5,559.82	5,764.30	8,458.86	8,323.45	135.42	62.465	
8,300.00	7,602.75	5,425.00	5,425.00	46.86	93.77	-39.91	-5,559.82	5,764.30	8,421.85	8,286.71	135.14	62.319	
8,350.00	7,615.67	5,425.00	5,425.00	46.58	93.77	-45.47	-5,559.82	5,764.30	8,383.39	8,248.53	134.86	62.163	
8,400.00	7,624.51	5,425.00	5,425.00	46.28	93.77	-51.60	-5,559.82	5,764.30	8,343.77	8,209.18	134.58	61.996	
8,450.00	7,629.19	5,425.00	5,425.00	45.98	93.77	-58.26	-5,559.82	5,764.30	8,303.27	8,168.96	134.31	61.821	
8,481.00	7,630.00	5,425.00	5,425.00	45.79	93.77	-62.60	-5,559.82	5,764.30	8,277.85	8,143.70	134.15	61.708	
8,500.00	7,630.00	5,425.00	5,425.00	45.68	93.77	-62.60	-5,559.82	5,764.30	8,262.23	8,128.18	134.05	61.637	
8,600.00	7,630.00	5,425.00	5,425.00	45.11	93.77	-62.60	-5,559.82	5,764.30	8,180.22	8,046.70	133.52	61.266	
8,700.00	7,630.00	5,425.00	5,425.00	44.56	93.77	-62.60	-5,559.82	5,764.30	8,098.62	7,965.62	133.00	60.892	
8,800.00	7,630.00	5,425.00	5,425.00	44.05	93.77	-62.60	-5,559.82	5,764.30	8,017.43	7,884.94	132.49	60.515	
8,900.00	7,630.00	5,425.00	5,425.00	43.57	93.77	-62.60	-5,559.82	5,764.30	7,936.67	7,804.69	131.98	60.133	

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

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,630.00	5,425.00	5,425.00	43.12	93.77	-62.60	-5,559.82	5,764.30	7,856.36	7,724.87	131.49	59.747	
9,100.00	7,630.00	5,425.00	5,425.00	42.70	93.77	-62.60	-5,559.82	5,764.30	7,776.50	7,645.49	131.02	59.355	
9,200.00	7,630.00	5,425.00	5,425.00	42.31	93.77	-62.60	-5,559.82	5,764.30	7,697.12	7,566.56	130.55	58.957	
9,300.00	7,630.00	5,425.00	5,425.00	41.94	93.77	-62.60	-5,559.82	5,764.30	7,618.22	7,488.11	130.11	58.552	
9,400.00	7,630.00	5,425.00	5,425.00	41.59	93.77	-62.60	-5,559.82	5,764.30	7,539.81	7,410.13	129.68	58.140	
9,500.00	7,630.00	5,425.00	5,425.00	41.26	93.77	-62.60	-5,559.82	5,764.30	7,461.93	7,332.65	129.28	57.718	
9,600.00	7,630.00	5,425.00	5,425.00	40.96	93.77	-62.60	-5,559.82	5,764.30	7,384.58	7,255.68	128.90	57.287	
9,700.00	7,630.00	5,425.00	5,425.00	40.68	93.77	-62.60	-5,559.82	5,764.30	7,307.78	7,179.22	128.55	56.846	
9,800.00	7,630.00	5,425.00	5,425.00	40.42	93.77	-62.60	-5,559.82	5,764.30	7,231.54	7,103.31	128.23	56.393	
9,900.00	7,630.00	5,425.00	5,425.00	40.17	93.77	-62.60	-5,559.82	5,764.30	7,155.89	7,027.95	127.95	55.928	
10,000.00	7,630.00	5,425.00	5,425.00	39.96	93.77	-62.60	-5,559.82	5,764.30	7,080.85	6,953.15	127.70	55.449	
10,100.00	7,630.00	5,425.00	5,425.00	40.05	93.77	-62.60	-5,559.82	5,764.30	7,006.43	6,878.94	127.49	54.956	
10,200.00	7,630.00	5,425.00	5,425.00	40.95	93.77	-62.60	-5,559.82	5,764.30	6,932.65	6,805.33	127.33	54.448	
10,300.00	7,630.00	5,425.00	5,425.00	41.94	93.77	-62.60	-5,559.82	5,764.30	6,859.54	6,732.33	127.21	53.925	
10,400.00	7,630.00	5,425.00	5,425.00	42.98	93.77	-62.60	-5,559.82	5,764.30	6,787.11	6,659.97	127.14	53.384	
10,500.00	7,630.00	5,425.00	5,425.00	44.06	93.77	-62.60	-5,559.82	5,764.30	6,715.39	6,588.27	127.12	52.827	
10,600.00	7,630.00	5,425.00	5,425.00	45.17	93.77	-62.60	-5,559.82	5,764.30	6,644.40	6,517.24	127.16	52.252	
10,700.00	7,630.00	5,425.00	5,425.00	46.32	93.77	-62.60	-5,559.82	5,764.30	6,574.17	6,446.91	127.26	51.660	
10,800.00	7,630.00	5,425.00	5,425.00	47.50	93.77	-62.60	-5,559.82	5,764.30	6,504.71	6,377.29	127.42	51.049	
10,900.00	7,630.00	5,425.00	5,425.00	48.70	93.77	-62.60	-5,559.82	5,764.30	6,436.06	6,308.42	127.64	50.422	
11,000.00	7,630.00	5,425.00	5,425.00	49.94	93.77	-62.60	-5,559.82	5,764.30	6,368.24	6,240.30	127.94	49.777	
11,100.00	7,630.00	5,425.00	5,425.00	51.20	93.77	-62.60	-5,559.82	5,764.30	6,301.28	6,172.98	128.30	49.115	
11,200.00	7,630.00	5,425.00	5,425.00	52.48	93.77	-62.60	-5,559.82	5,764.30	6,235.20	6,106.47	128.73	48.438	
11,300.00	7,630.00	5,425.00	5,425.00	53.79	93.77	-62.60	-5,559.82	5,764.30	6,170.03	6,040.81	129.23	47.746	
11,400.00	7,630.00	5,425.00	5,425.00	55.12	93.77	-62.60	-5,559.82	5,764.30	6,105.81	5,976.01	129.80	47.040	
11,500.00	7,630.00	5,425.00	5,425.00	56.46	93.77	-62.60	-5,559.82	5,764.30	6,042.56	5,912.11	130.45	46.323	
11,600.00	7,630.00	5,425.00	5,425.00	57.83	93.77	-62.60	-5,559.82	5,764.30	5,980.31	5,849.15	131.16	45.594	
11,700.00	7,630.00	5,425.00	5,425.00	59.22	93.77	-62.60	-5,559.82	5,764.30	5,919.10	5,787.14	131.96	44.857	
11,800.00	7,630.00	5,425.00	5,425.00	60.62	93.77	-62.60	-5,559.82	5,764.30	5,858.95	5,726.13	132.82	44.112	
11,900.00	7,630.00	5,425.00	5,425.00	62.04	93.77	-62.60	-5,559.82	5,764.30	5,799.91	5,666.15	133.76	43.362	
12,000.00	7,630.00	5,425.00	5,425.00	63.48	93.77	-62.60	-5,559.82	5,764.30	5,742.00	5,607.23	134.76	42.608	
12,100.00	7,630.00	5,425.00	5,425.00	64.93	93.77	-62.60	-5,559.82	5,764.30	5,685.26	5,549.41	135.84	41.852	
12,200.00	7,630.00	5,425.00	5,425.00	66.39	93.77	-62.60	-5,559.82	5,764.30	5,629.72	5,492.73	136.99	41.097	
12,300.00	7,630.00	5,425.00	5,425.00	67.86	93.77	-62.60	-5,559.82	5,764.30	5,575.42	5,437.22	138.20	40.344	
12,400.00	7,630.00	5,425.00	5,425.00	69.35	93.77	-62.60	-5,559.82	5,764.30	5,522.40	5,382.93	139.48	39.594	
12,500.00	7,630.00	5,425.00	5,425.00	70.85	93.77	-62.60	-5,559.82	5,764.30	5,470.70	5,329.88	140.82	38.850	
12,600.00	7,630.00	5,425.00	5,425.00	72.36	93.77	-62.60	-5,559.82	5,764.30	5,420.35	5,278.13	142.22	38.113	
12,700.00	7,630.00	5,425.00	5,425.00	73.88	93.77	-62.60	-5,559.82	5,764.30	5,371.38	5,227.70	143.68	37.384	
12,800.00	7,630.00	5,425.00	5,425.00	75.41	93.77	-62.60	-5,559.82	5,764.30	5,323.85	5,178.65	145.20	36.666	
12,900.00	7,630.00	5,425.00	5,425.00	76.95	93.77	-62.60	-5,559.82	5,764.30	5,277.78	5,131.01	146.77	35.959	
13,000.00	7,630.00	5,425.00	5,425.00	78.49	93.77	-62.60	-5,559.82	5,764.30	5,233.22	5,084.82	148.39	35.266	
13,100.00	7,630.00	5,425.00	5,425.00	80.05	93.77	-62.60	-5,559.82	5,764.30	5,190.20	5,040.13	150.07	34.586	
13,200.00	7,630.00	5,425.00	5,425.00	81.61	93.77	-62.60	-5,559.82	5,764.30	5,148.76	4,996.98	151.79	33.921	
13,300.00	7,630.00	5,425.00	5,425.00	83.18	93.77	-62.60	-5,559.82	5,764.30	5,108.95	4,955.40	153.55	33.272	
13,400.00	7,630.00	5,425.00	5,425.00	84.76	93.77	-62.60	-5,559.82	5,764.30	5,070.80	4,915.44	155.36	32.640	
13,500.00	7,630.00	5,425.00	5,425.00	86.34	93.77	-62.60	-5,559.82	5,764.30	5,034.34	4,877.14	157.20	32.025	
13,600.00	7,630.00	5,425.00	5,425.00	87.94	93.77	-62.60	-5,559.82	5,764.30	4,999.62	4,840.54	159.08	31.429	
13,700.00	7,630.00	5,425.00	5,425.00	89.53	93.77	-62.60	-5,559.82	5,764.30	4,966.67	4,805.68	160.98	30.852	
13,800.00	7,630.00	5,425.00	5,425.00	91.13	93.77	-62.60	-5,559.82	5,764.30	4,935.52	4,772.60	162.92	30.294	
13,900.00	7,630.00	5,425.00	5,425.00	92.74	93.77	-62.60	-5,559.82	5,764.30	4,906.22	4,741.34	164.88	29.756	
14,000.00	7,630.00	5,425.00	5,425.00	94.35	93.77	-62.60	-5,559.82	5,764.30	4,878.79	4,711.93	166.87	29.238	
14,100.00	7,630.00	5,425.00	5,425.00	95.97	93.77	-62.60	-5,559.82	5,764.30	4,853.27	4,684.40	168.87	28.740	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,200.00	7,630.00	5,425.00	5,425.00	97.60	93.77	-62.60	-5,559.82	5,764.30	4,829.68	4,658.80	170.88	28.263	
14,300.00	7,630.00	5,425.00	5,425.00	99.22	93.77	-62.60	-5,559.82	5,764.30	4,808.06	4,635.15	172.91	27.807	
14,400.00	7,630.00	5,425.00	5,425.00	100.85	93.77	-62.60	-5,559.82	5,764.30	4,788.43	4,613.49	174.94	27.372	
14,500.00	7,630.00	5,425.00	5,425.00	102.49	93.77	-62.60	-5,559.82	5,764.30	4,770.81	4,593.83	176.98	26.957	
14,600.00	7,630.00	5,425.00	5,425.00	104.13	93.77	-62.60	-5,559.82	5,764.30	4,755.23	4,576.22	179.01	26.564	
14,700.00	7,630.00	5,425.00	5,425.00	105.77	93.77	-62.60	-5,559.82	5,764.30	4,741.71	4,560.67	181.04	26.191	
14,800.00	7,630.00	5,425.00	5,425.00	107.42	93.77	-62.60	-5,559.82	5,764.30	4,730.27	4,547.20	183.07	25.839	
14,900.00	7,630.00	5,425.00	5,425.00	109.07	93.77	-62.60	-5,559.82	5,764.30	4,720.92	4,535.84	185.08	25.508	
15,000.00	7,630.00	5,425.00	5,425.00	110.72	93.77	-62.60	-5,559.82	5,764.30	4,713.67	4,526.59	187.07	25.197	
15,100.00	7,630.00	5,425.00	5,425.00	112.38	93.77	-62.60	-5,559.82	5,764.30	4,708.53	4,519.48	189.05	24.906	
15,200.00	7,630.00	5,425.00	5,425.00	114.04	93.77	-62.60	-5,559.82	5,764.30	4,705.51	4,514.51	191.01	24.635	
15,291.98	7,630.00	5,425.00	5,425.00	115.57	93.77	-62.60	-5,559.82	5,764.30	4,704.62	4,511.83	192.78	24.404	CC
15,300.00	7,630.00	5,425.00	5,425.00	115.71	93.77	-62.60	-5,559.82	5,764.30	4,704.62	4,511.69	192.94	24.384	
15,400.00	7,630.00	5,425.00	5,425.00	117.37	93.77	-62.60	-5,559.82	5,764.30	4,705.86	4,511.02	194.84	24.153	ES
15,500.00	7,630.00	5,425.00	5,425.00	119.04	93.77	-62.60	-5,559.82	5,764.30	4,709.21	4,512.51	196.71	23.940	
15,600.00	7,630.00	5,425.00	5,425.00	120.71	93.77	-62.60	-5,559.82	5,764.30	4,714.69	4,516.15	198.54	23.747	
15,700.00	7,630.00	5,425.00	5,425.00	122.39	93.77	-62.60	-5,559.82	5,764.30	4,722.28	4,521.94	200.34	23.572	
15,800.00	7,630.00	5,425.00	5,425.00	124.06	93.77	-62.60	-5,559.82	5,764.30	4,731.97	4,529.87	202.09	23.415	
15,900.00	7,630.00	5,425.00	5,425.00	125.74	93.77	-62.60	-5,559.82	5,764.30	4,743.74	4,539.94	203.81	23.276	
16,000.00	7,630.00	5,425.00	5,425.00	127.42	93.77	-62.60	-5,559.82	5,764.30	4,757.59	4,552.12	205.48	23.154	
16,100.00	7,630.00	5,425.00	5,425.00	129.10	93.77	-62.60	-5,559.82	5,764.30	4,773.50	4,566.40	207.10	23.049	
16,200.00	7,630.00	5,425.00	5,425.00	130.79	93.77	-62.60	-5,559.82	5,764.30	4,791.44	4,582.77	208.68	22.961	
16,300.00	7,630.00	5,425.00	5,425.00	132.48	93.77	-62.60	-5,559.82	5,764.30	4,811.39	4,601.19	210.20	22.889	
16,400.00	7,630.00	5,425.00	5,425.00	134.17	93.77	-62.60	-5,559.82	5,764.30	4,833.33	4,621.66	211.68	22.833	
16,500.00	7,630.00	5,425.00	5,425.00	135.86	93.77	-62.60	-5,559.82	5,764.30	4,857.23	4,644.13	213.10	22.793	
16,600.00	7,630.00	5,425.00	5,425.00	137.55	93.77	-62.60	-5,559.82	5,764.30	4,883.07	4,668.59	214.48	22.767	
16,700.00	7,630.00	5,425.00	5,425.00	139.24	93.77	-62.60	-5,559.82	5,764.30	4,910.80	4,695.00	215.80	22.757	SF
16,800.00	7,630.00	5,425.00	5,425.00	140.94	93.77	-62.60	-5,559.82	5,764.30	4,940.40	4,723.33	217.06	22.760	
16,900.00	7,630.00	5,425.00	5,425.00	142.64	93.77	-62.60	-5,559.82	5,764.30	4,971.84	4,753.56	218.28	22.777	
17,000.00	7,630.00	5,425.00	5,425.00	144.34	93.77	-62.60	-5,559.82	5,764.30	5,005.07	4,785.63	219.44	22.808	
17,100.00	7,630.00	5,425.00	5,425.00	146.04	93.77	-62.60	-5,559.82	5,764.30	5,040.08	4,819.52	220.55	22.852	
17,200.00	7,630.00	5,425.00	5,425.00	147.74	93.77	-62.60	-5,559.82	5,764.30	5,076.81	4,855.20	221.61	22.909	
17,300.00	7,630.00	5,425.00	5,425.00	149.44	93.77	-62.60	-5,559.82	5,764.30	5,115.23	4,892.61	222.62	22.978	
17,400.00	7,630.00	5,425.00	5,425.00	151.15	93.77	-62.60	-5,559.82	5,764.30	5,155.31	4,931.73	223.57	23.059	
17,500.00	7,630.00	5,425.00	5,425.00	152.86	93.77	-62.60	-5,559.82	5,764.30	5,197.00	4,972.52	224.48	23.151	
17,600.00	7,630.00	5,425.00	5,425.00	154.56	93.77	-62.60	-5,559.82	5,764.30	5,240.27	5,014.93	225.34	23.255	
17,700.00	7,630.00	5,425.00	5,425.00	156.27	93.77	-62.60	-5,559.82	5,764.30	5,285.07	5,058.92	226.15	23.370	
17,800.00	7,630.00	5,425.00	5,425.00	157.98	93.77	-62.60	-5,559.82	5,764.30	5,331.38	5,104.46	226.91	23.495	
17,900.00	7,630.00	5,425.00	5,425.00	159.70	93.77	-62.60	-5,559.82	5,764.30	5,379.14	5,151.51	227.63	23.631	
18,000.00	7,630.00	5,425.00	5,425.00	161.41	93.77	-62.60	-5,559.82	5,764.30	5,428.33	5,200.02	228.31	23.776	
18,100.00	7,630.00	5,425.00	5,425.00	163.12	93.77	-62.60	-5,559.82	5,764.30	5,478.91	5,249.96	228.94	23.931	
18,154.00	7,630.00	5,425.00	5,425.00	164.05	93.77	-62.60	-5,559.82	5,764.30	5,506.78	5,277.51	229.27	24.019	

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

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	133.63	-4,237.73	4,444.68	6,141.24				
100.00	100.00	64.00	64.00	0.13	0.50	133.63	-4,237.73	4,444.68	6,141.14	6,140.50	0.64	9,639.470	
200.00	200.00	164.00	164.00	0.49	1.90	133.63	-4,237.73	4,444.68	6,141.14	6,138.74	2.40	2,563.819	
300.00	300.00	264.00	264.00	0.85	3.65	133.63	-4,237.73	4,444.68	6,141.14	6,136.64	4.50	1,364.967	
400.00	400.00	364.00	364.00	1.21	5.39	133.63	-4,237.73	4,444.68	6,141.14	6,134.53	6.60	930.065	
500.00	500.00	464.00	464.00	1.57	7.14	133.63	-4,237.73	4,444.68	6,141.14	6,132.43	8.71	705.334	
600.00	600.00	564.00	564.00	1.93	8.88	133.63	-4,237.73	4,444.68	6,141.14	6,130.33	10.81	568.071	
700.00	700.00	664.00	664.00	2.29	10.63	133.63	-4,237.73	4,444.68	6,141.14	6,128.22	12.91	475.530	
800.00	800.00	764.00	764.00	2.64	12.37	133.63	-4,237.73	4,444.68	6,141.14	6,126.12	15.02	408.915	
900.00	900.00	864.00	864.00	3.00	14.12	133.63	-4,237.73	4,444.68	6,141.14	6,124.02	17.12	358.671	
1,000.00	1,000.00	964.00	964.00	3.36	15.87	133.63	-4,237.73	4,444.68	6,141.14	6,121.91	19.23	319.423	
1,100.00	1,100.00	1,064.00	1,064.00	3.72	17.61	133.63	-4,237.73	4,444.68	6,141.14	6,119.81	21.33	287.917	
1,200.00	1,200.00	1,164.00	1,164.00	4.08	19.36	133.63	-4,237.73	4,444.68	6,141.14	6,117.70	23.43	262.069	
1,300.00	1,300.00	1,264.00	1,264.00	4.44	21.10	133.63	-4,237.73	4,444.68	6,141.14	6,115.60	25.54	240.479	
1,400.00	1,400.00	1,364.00	1,364.00	4.79	22.85	133.63	-4,237.73	4,444.68	6,141.14	6,113.50	27.64	222.176	
1,500.00	1,499.98	1,463.98	1,463.98	5.15	24.59	95.84	-4,237.73	4,444.68	6,141.31	6,111.57	29.74	206.485	
1,600.00	1,599.84	1,563.84	1,563.84	5.51	26.33	95.88	-4,237.73	4,444.68	6,141.85	6,110.01	31.84	192.896	
1,700.00	1,699.45	1,663.45	1,663.45	5.87	28.07	95.94	-4,237.73	4,444.68	6,142.75	6,108.81	33.94	181.007	
1,800.00	1,798.70	1,762.70	1,762.70	6.23	29.81	96.03	-4,237.73	4,444.68	6,144.03	6,108.00	36.03	170.515	
1,900.00	1,897.47	1,861.47	1,861.47	6.60	31.53	96.14	-4,237.73	4,444.68	6,145.71	6,107.58	38.13	161.182	
2,000.00	1,995.62	1,959.62	1,959.62	6.99	33.24	96.27	-4,237.73	4,444.68	6,147.81	6,107.58	40.23	152.819	
2,100.00	2,093.06	2,057.06	2,057.06	7.39	34.94	96.42	-4,237.73	4,444.68	6,150.36	6,108.02	42.34	145.276	
2,200.00	2,189.64	2,153.64	2,153.64	7.82	36.63	96.59	-4,237.73	4,444.68	6,153.40	6,108.94	44.45	138.430	
2,300.00	2,285.27	2,249.27	2,249.27	8.28	38.30	96.78	-4,237.73	4,444.68	6,156.95	6,110.38	46.58	132.184	
2,400.00	2,379.82	2,343.82	2,343.82	8.77	39.95	96.98	-4,237.73	4,444.68	6,161.08	6,112.36	48.72	126.457	
2,500.00	2,473.17	2,437.17	2,437.17	9.31	41.58	97.20	-4,237.73	4,444.68	6,165.81	6,114.93	50.88	121.185	
2,600.00	2,565.21	2,529.21	2,529.21	9.88	43.18	97.42	-4,237.73	4,444.68	6,171.21	6,118.15	53.06	116.312	
2,660.67	2,620.37	2,584.37	2,584.37	10.25	44.15	97.56	-4,237.73	4,444.68	6,174.82	6,120.44	54.39	113.533	
2,700.00	2,655.96	2,619.96	2,619.96	10.50	44.77	97.70	-4,237.73	4,444.68	6,177.28	6,122.02	55.25	111.797	
2,800.00	2,746.43	2,710.43	2,710.43	11.15	46.35	98.06	-4,237.73	4,444.68	6,183.72	6,126.24	57.48	107.589	
2,900.00	2,836.90	2,800.90	2,800.90	11.82	47.93	98.41	-4,237.73	4,444.68	6,190.45	6,130.73	59.72	103.665	
3,000.00	2,927.37	2,908.63	2,891.37	12.50	49.81	98.76	-4,237.73	4,444.68	6,197.46	6,135.19	62.27	99.520	
3,100.00	3,017.85	2,981.85	2,981.85	13.21	51.08	99.12	-4,237.73	4,444.68	6,204.76	6,140.52	64.24	96.584	
3,200.00	3,108.32	3,072.32	3,072.32	13.92	52.66	99.47	-4,237.73	4,444.68	6,212.34	6,145.82	66.52	93.386	
3,300.00	3,198.79	3,162.79	3,162.79	14.64	54.24	99.82	-4,237.73	4,444.68	6,220.21	6,151.39	68.81	90.393	
3,400.00	3,289.27	3,253.27	3,253.27	15.38	55.82	100.17	-4,237.73	4,444.68	6,228.35	6,157.24	71.11	87.587	
3,500.00	3,379.74	3,343.74	3,343.74	16.12	57.40	100.52	-4,237.73	4,444.68	6,236.78	6,163.36	73.41	84.953	
3,600.00	3,470.21	3,434.21	3,434.21	16.87	58.98	100.87	-4,237.73	4,444.68	6,245.48	6,169.76	75.72	82.478	
3,700.00	3,560.68	3,524.68	3,524.68	17.62	60.56	101.22	-4,237.73	4,444.68	6,254.46	6,176.43	78.04	80.149	
3,800.00	3,651.16	3,615.16	3,615.16	18.39	62.14	101.57	-4,237.73	4,444.68	6,263.72	6,183.37	80.35	77.954	
3,900.00	3,741.63	3,705.63	3,705.63	19.15	63.72	101.91	-4,237.73	4,444.68	6,273.26	6,190.59	82.67	75.883	
4,000.00	3,832.10	3,803.90	3,796.10	19.92	65.43	102.26	-4,237.73	4,444.68	6,283.07	6,197.94	85.13	73.808	
4,100.00	3,922.57	3,886.57	3,886.57	20.69	66.87	102.60	-4,237.73	4,444.68	6,293.15	6,205.84	87.31	72.076	
4,200.00	4,013.05	3,977.05	3,977.05	21.47	68.45	102.95	-4,237.73	4,444.68	6,303.51	6,213.87	89.64	70.323	
4,300.00	4,103.52	4,067.52	4,067.52	22.25	70.03	103.29	-4,237.73	4,444.68	6,314.13	6,222.17	91.96	68.661	
4,400.00	4,193.99	4,157.99	4,157.99	23.03	71.61	103.63	-4,237.73	4,444.68	6,325.03	6,230.74	94.28	67.084	
4,500.00	4,284.47	4,248.47	4,248.47	23.81	73.19	103.97	-4,237.73	4,444.68	6,336.19	6,239.58	96.61	65.586	
4,600.00	4,374.94	4,338.94	4,338.94	24.60	74.77	104.31	-4,237.73	4,444.68	6,347.62	6,248.68	98.93	64.161	
4,700.00	4,465.41	4,429.41	4,429.41	25.39	76.35	104.65	-4,237.73	4,444.68	6,359.31	6,258.05	101.26	62.804	
4,800.00	4,555.88	4,519.88	4,519.88	26.18	77.93	104.99	-4,237.73	4,444.68	6,371.27	6,267.69	103.58	61.511	
4,900.00	4,646.36	4,610.36	4,610.36	26.97	79.51	105.32	-4,237.73	4,444.68	6,383.48	6,277.58	105.90	60.277	
5,000.00	4,736.83	4,700.83	4,700.83	27.76	81.09	105.66	-4,237.73	4,444.68	6,395.96	6,287.74	108.22	59.100	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,100.00	4,827.30	4,808.70	4,791.30	28.55	82.97	105.99	-4,237.73	4,444.68	6,408.70	6,297.85	110.85	57.816	
5,200.00	4,917.77	4,881.77	4,881.77	29.35	84.24	106.33	-4,237.73	4,444.68	6,421.70	6,308.83	112.86	56.899	
5,300.00	5,008.25	4,972.25	4,972.25	30.15	85.82	106.66	-4,237.73	4,444.68	6,434.95	6,319.77	115.18	55.870	
5,400.00	5,098.72	5,062.72	5,062.72	30.94	87.40	106.99	-4,237.73	4,444.68	6,448.45	6,330.96	117.49	54.884	
5,500.00	5,189.19	5,153.19	5,153.19	31.74	88.98	107.32	-4,237.73	4,444.68	6,462.21	6,342.40	119.81	53.939	
5,600.00	5,279.67	5,243.67	5,243.67	32.54	90.56	107.65	-4,237.73	4,444.68	6,476.22	6,354.10	122.12	53.033	
5,700.00	5,370.14	5,334.14	5,334.14	33.34	92.14	107.98	-4,237.73	4,444.68	6,490.47	6,366.05	124.43	52.163	
5,800.00	5,460.61	5,424.61	5,424.61	34.14	93.72	108.30	-4,237.73	4,444.68	6,504.98	6,378.25	126.73	51.328	
5,900.00	5,551.08	5,450.00	5,450.00	34.94	94.16	108.40	-4,237.73	4,444.68	6,520.06	6,392.17	127.88	50.985	
6,000.00	5,641.56	5,450.00	5,450.00	35.75	94.16	108.40	-4,237.73	4,444.68	6,536.58	6,408.02	128.55	50.847	
6,100.00	5,732.03	5,450.00	5,450.00	36.55	94.16	108.40	-4,237.73	4,444.68	6,554.58	6,425.39	129.20	50.733	
6,200.00	5,822.50	5,450.00	5,450.00	37.35	94.16	108.40	-4,237.73	4,444.68	6,574.06	6,444.25	129.82	50.641	
6,300.00	5,912.97	5,450.00	5,450.00	38.16	94.16	108.40	-4,237.73	4,444.68	6,595.00	6,464.59	130.41	50.572	
6,400.00	6,003.45	5,450.00	5,450.00	38.96	94.16	108.40	-4,237.73	4,444.68	6,617.38	6,486.41	130.97	50.526	
6,500.00	6,093.92	5,450.00	5,450.00	39.77	94.16	108.40	-4,237.73	4,444.68	6,641.20	6,509.69	131.51	50.500	
6,600.00	6,184.39	5,450.00	5,450.00	40.57	94.16	108.40	-4,237.73	4,444.68	6,666.42	6,534.41	132.02	50.496	
6,700.00	6,274.87	5,450.00	5,450.00	41.38	94.16	108.40	-4,237.73	4,444.68	6,693.05	6,560.55	132.50	50.513	
6,800.00	6,365.34	5,450.00	5,450.00	42.18	94.16	108.40	-4,237.73	4,444.68	6,721.06	6,588.10	132.96	50.550	
6,900.00	6,455.81	5,450.00	5,450.00	42.99	94.16	108.40	-4,237.73	4,444.68	6,750.44	6,617.04	133.39	50.606	
7,000.00	6,546.28	5,450.00	5,450.00	43.80	94.16	108.40	-4,237.73	4,444.68	6,781.16	6,647.36	133.80	50.682	
7,100.00	6,636.76	5,450.00	5,450.00	44.61	94.16	108.40	-4,237.73	4,444.68	6,813.21	6,679.03	134.18	50.776	
7,200.00	6,727.23	5,450.00	5,450.00	45.41	94.16	108.40	-4,237.73	4,444.68	6,846.57	6,712.03	134.54	50.889	
7,300.00	6,817.70	5,450.00	5,450.00	46.22	94.16	108.40	-4,237.73	4,444.68	6,881.23	6,746.35	134.87	51.020	
7,383.79	6,893.51	5,450.00	5,450.00	46.90	94.16	108.40	-4,237.73	4,444.68	6,911.24	6,776.11	135.14	51.143	
7,400.00	6,908.25	5,450.00	5,450.00	47.03	94.16	106.36	-4,237.73	4,444.68	6,916.97	6,781.79	135.18	51.168	
7,450.00	6,954.52	5,450.00	5,450.00	47.40	94.16	98.22	-4,237.73	4,444.68	6,932.50	6,797.19	135.31	51.236	
7,500.00	7,001.74	5,450.00	5,450.00	47.72	94.16	86.70	-4,237.73	4,444.68	6,944.73	6,809.34	135.39	51.293	
7,550.00	7,049.55	5,450.00	5,450.00	47.99	94.16	71.68	-4,237.73	4,444.68	6,953.60	6,818.15	135.44	51.339	
7,600.00	7,097.58	5,450.00	5,450.00	48.21	94.16	54.71	-4,237.73	4,444.68	6,959.04	6,823.59	135.45	51.377	
7,650.00	7,145.48	5,450.00	5,450.00	48.37	94.16	38.70	-4,237.73	4,444.68	6,961.02	6,825.61	135.42	51.405	
7,700.00	7,192.88	5,450.00	5,450.00	48.48	94.16	25.65	-4,237.73	4,444.68	6,959.54	6,824.20	135.34	51.423	
7,750.00	7,239.41	5,450.00	5,450.00	48.54	94.16	15.74	-4,237.73	4,444.68	6,954.59	6,819.37	135.22	51.430	
7,800.00	7,284.72	5,450.00	5,450.00	48.56	94.16	8.27	-4,237.73	4,444.68	6,946.22	6,811.14	135.07	51.425	
7,850.00	7,328.47	5,450.00	5,450.00	48.54	94.16	2.48	-4,237.73	4,444.68	6,934.46	6,799.57	134.89	51.407	
7,900.00	7,370.32	5,450.00	5,450.00	48.47	94.16	-2.20	-4,237.73	4,444.68	6,919.40	6,784.72	134.68	51.376	
7,950.00	7,409.96	5,450.00	5,450.00	48.37	94.16	-6.18	-4,237.73	4,444.68	6,901.13	6,766.68	134.45	51.330	
8,000.00	7,447.08	5,450.00	5,450.00	48.24	94.16	-9.74	-4,237.73	4,444.68	6,879.76	6,745.57	134.19	51.270	
8,050.00	7,481.41	5,450.00	5,450.00	48.07	94.16	-13.09	-4,237.73	4,444.68	6,855.42	6,721.52	133.91	51.196	
8,100.00	7,512.67	5,450.00	5,450.00	47.87	94.16	-16.39	-4,237.73	4,444.68	6,828.28	6,694.67	133.61	51.106	
8,150.00	7,540.64	5,450.00	5,450.00	47.65	94.16	-19.78	-4,237.73	4,444.68	6,798.50	6,665.19	133.30	51.000	
8,200.00	7,565.09	5,450.00	5,450.00	47.40	94.16	-23.39	-4,237.73	4,444.68	6,766.28	6,633.29	132.99	50.878	
8,250.00	7,585.85	5,450.00	5,450.00	47.14	94.16	-27.33	-4,237.73	4,444.68	6,731.83	6,599.16	132.67	50.741	
8,300.00	7,602.75	5,450.00	5,450.00	46.86	94.16	-31.73	-4,237.73	4,444.68	6,695.37	6,563.02	132.35	50.588	
8,350.00	7,615.67	5,450.00	5,450.00	46.58	94.16	-36.70	-4,237.73	4,444.68	6,657.17	6,525.13	132.04	50.420	
8,400.00	7,624.51	5,450.00	5,450.00	46.28	94.16	-42.36	-4,237.73	4,444.68	6,617.48	6,485.75	131.73	50.236	
8,450.00	7,629.19	5,450.00	5,450.00	45.98	94.16	-48.75	-4,237.73	4,444.68	6,576.57	6,445.14	131.43	50.037	
8,481.00	7,630.00	5,450.00	5,450.00	45.79	94.16	-53.07	-4,237.73	4,444.68	6,550.73	6,419.47	131.26	49.907	
8,500.00	7,630.00	5,450.00	5,450.00	45.68	94.16	-53.07	-4,237.73	4,444.68	6,534.80	6,403.65	131.15	49.825	
8,600.00	7,630.00	5,450.00	5,450.00	45.11	94.16	-53.07	-4,237.73	4,444.68	6,451.26	6,320.67	130.60	49.398	
8,700.00	7,630.00	5,450.00	5,450.00	44.56	94.16	-53.07	-4,237.73	4,444.68	6,368.19	6,238.16	130.04	48.972	
8,800.00	7,630.00	5,450.00	5,450.00	44.05	94.16	-53.07	-4,237.73	4,444.68	6,285.62	6,156.14	129.48	48.545	
8,900.00	7,630.00	5,450.00	5,450.00	43.57	94.16	-53.07	-4,237.73	4,444.68	6,203.56	6,074.63	128.93	48.117	

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

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,630.00	5,450.00	5,450.00	43.12	94.16	-53.07	-4,237.73	4,444.68	6,122.03	5,993.66	128.38	47.688	
9,100.00	7,630.00	5,450.00	5,450.00	42.70	94.16	-53.07	-4,237.73	4,444.68	6,041.06	5,913.23	127.83	47.258	
9,200.00	7,630.00	5,450.00	5,450.00	42.31	94.16	-53.07	-4,237.73	4,444.68	5,960.67	5,833.37	127.29	46.826	
9,300.00	7,630.00	5,450.00	5,450.00	41.94	94.16	-53.07	-4,237.73	4,444.68	5,880.87	5,754.11	126.77	46.391	
9,400.00	7,630.00	5,450.00	5,450.00	41.59	94.16	-53.07	-4,237.73	4,444.68	5,801.71	5,675.45	126.25	45.953	
9,500.00	7,630.00	5,450.00	5,450.00	41.26	94.16	-53.07	-4,237.73	4,444.68	5,723.19	5,597.44	125.75	45.511	
9,600.00	7,630.00	5,450.00	5,450.00	40.96	94.16	-53.07	-4,237.73	4,444.68	5,645.36	5,520.08	125.27	45.064	
9,700.00	7,630.00	5,450.00	5,450.00	40.68	94.16	-53.07	-4,237.73	4,444.68	5,568.23	5,443.42	124.81	44.612	
9,800.00	7,630.00	5,450.00	5,450.00	40.42	94.16	-53.07	-4,237.73	4,444.68	5,491.84	5,367.46	124.38	44.153	
9,900.00	7,630.00	5,450.00	5,450.00	40.17	94.16	-53.07	-4,237.73	4,444.68	5,416.22	5,292.25	123.98	43.688	
10,000.00	7,630.00	5,450.00	5,450.00	39.96	94.16	-53.07	-4,237.73	4,444.68	5,341.40	5,217.80	123.60	43.214	
10,100.00	7,630.00	5,450.00	5,450.00	40.05	94.16	-53.07	-4,237.73	4,444.68	5,267.42	5,144.15	123.27	42.731	
10,200.00	7,630.00	5,450.00	5,450.00	40.95	94.16	-53.07	-4,237.73	4,444.68	5,194.31	5,071.33	122.97	42.239	
10,300.00	7,630.00	5,450.00	5,450.00	41.94	94.16	-53.07	-4,237.73	4,444.68	5,122.11	4,999.38	122.73	41.736	
10,400.00	7,630.00	5,450.00	5,450.00	42.98	94.16	-53.07	-4,237.73	4,444.68	5,050.85	4,928.32	122.53	41.222	
10,500.00	7,630.00	5,450.00	5,450.00	44.06	94.16	-53.07	-4,237.73	4,444.68	4,980.58	4,858.20	122.39	40.696	
10,600.00	7,630.00	5,450.00	5,450.00	45.17	94.16	-53.07	-4,237.73	4,444.68	4,911.35	4,789.05	122.30	40.158	
10,700.00	7,630.00	5,450.00	5,450.00	46.32	94.16	-53.07	-4,237.73	4,444.68	4,843.19	4,720.91	122.28	39.607	
10,800.00	7,630.00	5,450.00	5,450.00	47.50	94.16	-53.07	-4,237.73	4,444.68	4,776.15	4,653.82	122.33	39.043	
10,900.00	7,630.00	5,450.00	5,450.00	48.70	94.16	-53.07	-4,237.73	4,444.68	4,710.28	4,587.83	122.45	38.467	
11,000.00	7,630.00	5,450.00	5,450.00	49.94	94.16	-53.07	-4,237.73	4,444.68	4,645.63	4,522.98	122.65	37.878	
11,100.00	7,630.00	5,450.00	5,450.00	51.20	94.16	-53.07	-4,237.73	4,444.68	4,582.25	4,459.33	122.92	37.278	
11,200.00	7,630.00	5,450.00	5,450.00	52.48	94.16	-53.07	-4,237.73	4,444.68	4,520.19	4,396.91	123.28	36.667	
11,300.00	7,630.00	5,450.00	5,450.00	53.79	94.16	-53.07	-4,237.73	4,444.68	4,459.51	4,335.80	123.72	36.046	
11,400.00	7,630.00	5,450.00	5,450.00	55.12	94.16	-53.07	-4,237.73	4,444.68	4,400.27	4,276.03	124.24	35.418	
11,500.00	7,630.00	5,450.00	5,450.00	56.46	94.16	-53.07	-4,237.73	4,444.68	4,342.52	4,217.67	124.85	34.782	
11,600.00	7,630.00	5,450.00	5,450.00	57.83	94.16	-53.07	-4,237.73	4,444.68	4,286.33	4,160.79	125.55	34.142	
11,700.00	7,630.00	5,450.00	5,450.00	59.22	94.16	-53.07	-4,237.73	4,444.68	4,231.76	4,105.43	126.33	33.498	
11,800.00	7,630.00	5,450.00	5,450.00	60.62	94.16	-53.07	-4,237.73	4,444.68	4,178.86	4,051.67	127.19	32.854	
11,900.00	7,630.00	5,450.00	5,450.00	62.04	94.16	-53.07	-4,237.73	4,444.68	4,127.71	3,999.57	128.15	32.211	
12,000.00	7,630.00	5,450.00	5,450.00	63.48	94.16	-53.07	-4,237.73	4,444.68	4,078.38	3,949.20	129.18	31.571	
12,100.00	7,630.00	5,450.00	5,450.00	64.93	94.16	-53.07	-4,237.73	4,444.68	4,030.92	3,900.62	130.30	30.936	
12,200.00	7,630.00	5,450.00	5,450.00	66.39	94.16	-53.07	-4,237.73	4,444.68	3,985.40	3,853.91	131.49	30.309	
12,300.00	7,630.00	5,450.00	5,450.00	67.86	94.16	-53.07	-4,237.73	4,444.68	3,941.90	3,809.13	132.76	29.692	
12,400.00	7,630.00	5,450.00	5,450.00	69.35	94.16	-53.07	-4,237.73	4,444.68	3,900.47	3,766.37	134.10	29.086	
12,500.00	7,630.00	5,450.00	5,450.00	70.85	94.16	-53.07	-4,237.73	4,444.68	3,861.19	3,725.68	135.52	28.493	
12,600.00	7,630.00	5,450.00	5,450.00	72.36	94.16	-53.07	-4,237.73	4,444.68	3,824.12	3,687.13	136.99	27.915	
12,700.00	7,630.00	5,450.00	5,450.00	73.88	94.16	-53.07	-4,237.73	4,444.68	3,789.33	3,650.80	138.53	27.354	
12,800.00	7,630.00	5,450.00	5,450.00	75.41	94.16	-53.07	-4,237.73	4,444.68	3,756.88	3,616.76	140.13	26.810	
12,900.00	7,630.00	5,450.00	5,450.00	76.95	94.16	-53.07	-4,237.73	4,444.68	3,726.84	3,585.06	141.78	26.286	
13,000.00	7,630.00	5,450.00	5,450.00	78.49	94.16	-53.07	-4,237.73	4,444.68	3,699.25	3,555.77	143.48	25.783	
13,100.00	7,630.00	5,450.00	5,450.00	80.05	94.16	-53.07	-4,237.73	4,444.68	3,674.18	3,528.96	145.22	25.301	
13,200.00	7,630.00	5,450.00	5,450.00	81.61	94.16	-53.07	-4,237.73	4,444.68	3,651.67	3,504.68	146.99	24.842	
13,300.00	7,630.00	5,450.00	5,450.00	83.18	94.16	-53.07	-4,237.73	4,444.68	3,631.78	3,482.97	148.81	24.406	
13,400.00	7,630.00	5,450.00	5,450.00	84.76	94.16	-53.07	-4,237.73	4,444.68	3,614.55	3,463.90	150.64	23.994	
13,500.00	7,630.00	5,450.00	5,450.00	86.34	94.16	-53.07	-4,237.73	4,444.68	3,600.01	3,447.51	152.50	23.606	
13,600.00	7,630.00	5,450.00	5,450.00	87.94	94.16	-53.07	-4,237.73	4,444.68	3,588.20	3,433.82	154.38	23.243	
13,700.00	7,630.00	5,450.00	5,450.00	89.53	94.16	-53.07	-4,237.73	4,444.68	3,579.15	3,422.89	156.26	22.904	
13,800.00	7,630.00	5,450.00	5,450.00	91.13	94.16	-53.07	-4,237.73	4,444.68	3,572.88	3,414.73	158.15	22.591	
13,900.00	7,630.00	5,450.00	5,450.00	92.74	94.16	-53.07	-4,237.73	4,444.68	3,569.40	3,409.36	160.04	22.303	
13,974.36	7,630.00	5,450.00	5,450.00	93.94	94.16	-53.07	-4,237.73	4,444.68	3,568.62	3,407.19	161.44	22.105	CC
14,000.00	7,630.00	5,450.00	5,450.00	94.35	94.16	-53.07	-4,237.73	4,444.68	3,568.71	3,406.80	161.92	22.040	ES

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

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

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,630.00	5,450.00	5,450.00	95.97	94.16	-53.07	-4,237.73	4,444.68	3,570.83	3,407.05	163.78	21.803	
14,200.00	7,630.00	5,450.00	5,450.00	97.60	94.16	-53.07	-4,237.73	4,444.68	3,575.75	3,410.13	165.62	21.590	
14,300.00	7,630.00	5,450.00	5,450.00	99.22	94.16	-53.07	-4,237.73	4,444.68	3,583.45	3,416.01	167.44	21.401	
14,400.00	7,630.00	5,450.00	5,450.00	100.85	94.16	-53.07	-4,237.73	4,444.68	3,593.92	3,424.69	169.23	21.237	
14,500.00	7,630.00	5,450.00	5,450.00	102.49	94.16	-53.07	-4,237.73	4,444.68	3,607.13	3,436.15	170.98	21.097	
14,600.00	7,630.00	5,450.00	5,450.00	104.13	94.16	-53.07	-4,237.73	4,444.68	3,623.05	3,450.36	172.69	20.980	
14,700.00	7,630.00	5,450.00	5,450.00	105.77	94.16	-53.07	-4,237.73	4,444.68	3,641.65	3,467.29	174.36	20.886	
14,800.00	7,630.00	5,450.00	5,450.00	107.42	94.16	-53.07	-4,237.73	4,444.68	3,662.89	3,486.91	175.98	20.815	
14,900.00	7,630.00	5,450.00	5,450.00	109.07	94.16	-53.07	-4,237.73	4,444.68	3,686.72	3,509.17	177.54	20.765	
15,000.00	7,630.00	5,450.00	5,450.00	110.72	94.16	-53.07	-4,237.73	4,444.68	3,713.09	3,534.03	179.06	20.737	
15,100.00	7,630.00	5,450.00	5,450.00	112.38	94.16	-53.07	-4,237.73	4,444.68	3,741.94	3,561.43	180.52	20.729	SF
15,200.00	7,630.00	5,450.00	5,450.00	114.04	94.16	-53.07	-4,237.73	4,444.68	3,773.23	3,591.32	181.91	20.742	
15,300.00	7,630.00	5,450.00	5,450.00	115.71	94.16	-53.07	-4,237.73	4,444.68	3,806.89	3,623.64	183.25	20.774	
15,400.00	7,630.00	5,450.00	5,450.00	117.37	94.16	-53.07	-4,237.73	4,444.68	3,842.85	3,658.32	184.53	20.825	
15,500.00	7,630.00	5,450.00	5,450.00	119.04	94.16	-53.07	-4,237.73	4,444.68	3,881.06	3,695.32	185.75	20.894	
15,600.00	7,630.00	5,450.00	5,450.00	120.71	94.16	-53.07	-4,237.73	4,444.68	3,921.45	3,734.55	186.90	20.981	
15,700.00	7,630.00	5,450.00	5,450.00	122.39	94.16	-53.07	-4,237.73	4,444.68	3,963.95	3,775.95	188.00	21.085	
15,800.00	7,630.00	5,450.00	5,450.00	124.06	94.16	-53.07	-4,237.73	4,444.68	4,008.50	3,819.46	189.03	21.205	
15,900.00	7,630.00	5,450.00	5,450.00	125.74	94.16	-53.07	-4,237.73	4,444.68	4,055.02	3,865.01	190.01	21.341	
16,000.00	7,630.00	5,450.00	5,450.00	127.42	94.16	-53.07	-4,237.73	4,444.68	4,103.45	3,912.53	190.92	21.493	
16,100.00	7,630.00	5,450.00	5,450.00	129.10	94.16	-53.07	-4,237.73	4,444.68	4,153.72	3,961.94	191.78	21.658	
16,200.00	7,630.00	5,450.00	5,450.00	130.79	94.16	-53.07	-4,237.73	4,444.68	4,205.78	4,013.19	192.59	21.838	
16,300.00	7,630.00	5,450.00	5,450.00	132.48	94.16	-53.07	-4,237.73	4,444.68	4,259.54	4,066.20	193.34	22.031	
16,400.00	7,630.00	5,450.00	5,450.00	134.17	94.16	-53.07	-4,237.73	4,444.68	4,314.95	4,120.91	194.04	22.237	
16,500.00	7,630.00	5,450.00	5,450.00	135.86	94.16	-53.07	-4,237.73	4,444.68	4,371.95	4,177.26	194.69	22.456	
16,600.00	7,630.00	5,450.00	5,450.00	137.55	94.16	-53.07	-4,237.73	4,444.68	4,430.47	4,235.18	195.30	22.686	
16,700.00	7,630.00	5,450.00	5,450.00	139.24	94.16	-53.07	-4,237.73	4,444.68	4,490.46	4,294.60	195.85	22.928	
16,800.00	7,630.00	5,450.00	5,450.00	140.94	94.16	-53.07	-4,237.73	4,444.68	4,551.85	4,355.48	196.37	23.180	
16,900.00	7,630.00	5,450.00	5,450.00	142.64	94.16	-53.07	-4,237.73	4,444.68	4,614.59	4,417.75	196.84	23.443	
17,000.00	7,630.00	5,450.00	5,450.00	144.34	94.16	-53.07	-4,237.73	4,444.68	4,678.63	4,481.35	197.28	23.716	
17,100.00	7,630.00	5,450.00	5,450.00	146.04	94.16	-53.07	-4,237.73	4,444.68	4,743.91	4,546.24	197.68	23.999	
17,200.00	7,630.00	5,450.00	5,450.00	147.74	94.16	-53.07	-4,237.73	4,444.68	4,810.39	4,612.35	198.04	24.290	
17,300.00	7,630.00	5,450.00	5,450.00	149.44	94.16	-53.07	-4,237.73	4,444.68	4,878.01	4,679.64	198.37	24.591	
17,400.00	7,630.00	5,450.00	5,450.00	151.15	94.16	-53.07	-4,237.73	4,444.68	4,946.73	4,748.06	198.67	24.899	
17,500.00	7,630.00	5,450.00	5,450.00	152.86	94.16	-53.07	-4,237.73	4,444.68	5,016.50	4,817.56	198.94	25.216	
17,600.00	7,630.00	5,450.00	5,450.00	154.56	94.16	-53.07	-4,237.73	4,444.68	5,087.27	4,888.09	199.18	25.541	
17,700.00	7,630.00	5,450.00	5,450.00	156.27	94.16	-53.07	-4,237.73	4,444.68	5,159.02	4,959.62	199.40	25.873	
17,800.00	7,630.00	5,450.00	5,450.00	157.98	94.16	-53.07	-4,237.73	4,444.68	5,231.69	5,032.10	199.59	26.212	
17,900.00	7,630.00	5,450.00	5,450.00	159.70	94.16	-53.07	-4,237.73	4,444.68	5,305.26	5,105.49	199.76	26.558	
18,000.00	7,630.00	5,450.00	5,450.00	161.41	94.16	-53.07	-4,237.73	4,444.68	5,379.67	5,179.76	199.91	26.910	
18,100.00	7,630.00	5,450.00	5,450.00	163.12	94.16	-53.07	-4,237.73	4,444.68	5,454.91	5,254.86	200.05	27.268	
18,154.00	7,630.00	5,450.00	5,450.00	164.05	94.16	-53.07	-4,237.73	4,444.68	5,495.86	5,295.76	200.11	27.464	

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

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	141.36	-5,560.10	4,444.92	7,118.51				
100.00	100.00	65.00	65.00	0.13	0.51	141.36	-5,560.10	4,444.92	7,118.43	7,117.78	0.64	N/A	
200.00	200.00	165.00	165.00	0.49	1.92	141.36	-5,560.10	4,444.92	7,118.43	7,116.01	2.41	2,950.323	
300.00	300.00	265.00	265.00	0.85	3.67	141.36	-5,560.10	4,444.92	7,118.43	7,113.91	4.52	1,576.072	
400.00	400.00	365.00	365.00	1.21	5.41	141.36	-5,560.10	4,444.92	7,118.43	7,111.81	6.62	1,075.232	
500.00	500.00	465.00	465.00	1.57	7.16	141.36	-5,560.10	4,444.92	7,118.43	7,109.70	8.72	815.944	
600.00	600.00	565.00	565.00	1.93	8.90	141.36	-5,560.10	4,444.92	7,118.43	7,107.60	10.83	657.411	
700.00	700.00	665.00	665.00	2.29	10.65	141.36	-5,560.10	4,444.92	7,118.43	7,105.49	12.93	550.460	
800.00	800.00	765.00	765.00	2.64	12.39	141.36	-5,560.10	4,444.92	7,118.43	7,103.39	15.04	473.439	
900.00	900.00	865.00	865.00	3.00	14.14	141.36	-5,560.10	4,444.92	7,118.43	7,101.29	17.14	415.326	
1,000.00	1,000.00	965.00	965.00	3.36	15.88	141.36	-5,560.10	4,444.92	7,118.43	7,099.18	19.24	369.920	
1,100.00	1,100.00	1,065.00	1,065.00	3.72	17.63	141.36	-5,560.10	4,444.92	7,118.43	7,097.08	21.35	333.463	
1,200.00	1,200.00	1,165.00	1,165.00	4.08	19.37	141.36	-5,560.10	4,444.92	7,118.43	7,094.97	23.45	303.548	
1,300.00	1,300.00	1,265.00	1,265.00	4.44	21.12	141.36	-5,560.10	4,444.92	7,118.43	7,092.87	25.55	278.558	
1,400.00	1,400.00	1,365.00	1,365.00	4.79	22.86	141.36	-5,560.10	4,444.92	7,118.43	7,090.77	27.66	257.370	
1,500.00	1,499.98	1,464.98	1,464.98	5.15	24.61	103.56	-5,560.10	4,444.92	7,118.83	7,089.08	29.76	239.210	
1,600.00	1,599.84	1,564.84	1,564.84	5.51	26.35	103.58	-5,560.10	4,444.92	7,120.06	7,088.21	31.86	223.494	
1,700.00	1,699.45	1,664.45	1,664.45	5.87	28.09	103.60	-5,560.10	4,444.92	7,122.12	7,088.17	33.95	209.754	
1,800.00	1,798.70	1,763.70	1,763.70	6.23	29.82	103.64	-5,560.10	4,444.92	7,125.01	7,088.96	36.05	197.639	
1,900.00	1,897.47	1,862.47	1,862.47	6.60	31.55	103.69	-5,560.10	4,444.92	7,128.75	7,090.60	38.15	186.874	
2,000.00	1,995.62	1,960.62	1,960.62	6.99	33.26	103.75	-5,560.10	4,444.92	7,133.36	7,093.11	40.25	177.240	
2,100.00	2,093.06	2,058.06	2,058.06	7.39	34.96	103.81	-5,560.10	4,444.92	7,138.85	7,096.50	42.35	168.560	
2,200.00	2,189.64	2,154.64	2,154.64	7.82	36.65	103.88	-5,560.10	4,444.92	7,145.25	7,100.78	44.46	160.695	
2,300.00	2,285.27	2,250.27	2,250.27	8.28	38.31	103.96	-5,560.10	4,444.92	7,152.58	7,106.00	46.59	153.528	
2,400.00	2,379.82	2,344.82	2,344.82	8.77	39.96	104.04	-5,560.10	4,444.92	7,160.88	7,112.16	48.72	146.967	
2,500.00	2,473.17	2,438.17	2,438.17	9.31	41.59	104.11	-5,560.10	4,444.92	7,170.18	7,119.30	50.88	140.935	
2,600.00	2,565.21	2,530.21	2,530.21	9.88	43.20	104.19	-5,560.10	4,444.92	7,180.51	7,127.46	53.04	135.370	
2,660.67	2,620.37	2,585.37	2,585.37	10.25	44.16	104.24	-5,560.10	4,444.92	7,187.29	7,132.92	54.37	132.200	
2,700.00	2,655.96	2,620.96	2,620.96	10.50	44.78	104.36	-5,560.10	4,444.92	7,191.83	7,136.60	55.23	130.220	
2,800.00	2,746.43	2,711.43	2,711.43	11.15	46.36	104.66	-5,560.10	4,444.92	7,203.54	7,146.11	57.44	125.420	
2,900.00	2,836.90	2,801.90	2,801.90	11.82	47.94	104.96	-5,560.10	4,444.92	7,215.49	7,155.83	59.66	120.942	
3,000.00	2,927.37	2,907.63	2,892.37	12.50	49.79	105.25	-5,560.10	4,444.92	7,227.67	7,165.50	62.17	116.261	
3,100.00	3,017.85	2,982.85	2,982.85	13.21	51.10	105.55	-5,560.10	4,444.92	7,240.08	7,175.92	64.15	112.854	
3,200.00	3,108.32	3,073.32	3,073.32	13.92	52.68	105.84	-5,560.10	4,444.92	7,252.71	7,186.30	66.42	109.199	
3,300.00	3,198.79	3,163.79	3,163.79	14.64	54.26	106.14	-5,560.10	4,444.92	7,265.58	7,196.89	68.69	105.775	
3,400.00	3,289.27	3,254.27	3,254.27	15.38	55.84	106.43	-5,560.10	4,444.92	7,278.67	7,207.70	70.97	102.564	
3,500.00	3,379.74	3,344.74	3,344.74	16.12	57.42	106.73	-5,560.10	4,444.92	7,291.99	7,218.73	73.25	99.547	
3,600.00	3,470.21	3,435.21	3,435.21	16.87	59.00	107.02	-5,560.10	4,444.92	7,305.53	7,229.99	75.54	96.711	
3,700.00	3,560.68	3,525.68	3,525.68	17.62	60.57	107.31	-5,560.10	4,444.92	7,319.29	7,241.46	77.83	94.039	
3,800.00	3,651.16	3,616.16	3,616.16	18.39	62.15	107.60	-5,560.10	4,444.92	7,333.27	7,253.15	80.13	91.519	
3,900.00	3,741.63	3,706.63	3,706.63	19.15	63.73	107.89	-5,560.10	4,444.92	7,347.48	7,265.05	82.43	89.140	
4,000.00	3,832.10	3,802.90	3,797.10	19.92	65.41	108.18	-5,560.10	4,444.92	7,361.90	7,277.08	84.83	86.788	
4,100.00	3,922.57	3,887.57	3,887.57	20.69	66.89	108.47	-5,560.10	4,444.92	7,376.55	7,289.52	87.03	84.762	
4,200.00	4,013.05	3,978.05	3,978.05	21.47	68.47	108.75	-5,560.10	4,444.92	7,391.41	7,302.08	89.33	82.745	
4,300.00	4,103.52	4,068.52	4,068.52	22.25	70.05	109.04	-5,560.10	4,444.92	7,406.48	7,314.85	91.63	80.830	
4,400.00	4,193.99	4,158.99	4,158.99	23.03	71.63	109.32	-5,560.10	4,444.92	7,421.77	7,327.84	93.93	79.011	
4,500.00	4,284.47	4,249.47	4,249.47	23.81	73.21	109.61	-5,560.10	4,444.92	7,437.27	7,341.03	96.24	77.282	
4,600.00	4,374.94	4,339.94	4,339.94	24.60	74.79	109.89	-5,560.10	4,444.92	7,452.98	7,354.44	98.54	75.636	
4,700.00	4,465.41	4,430.41	4,430.41	25.39	76.37	110.17	-5,560.10	4,444.92	7,468.90	7,368.06	100.84	74.068	
4,800.00	4,555.88	4,520.88	4,520.88	26.18	77.94	110.45	-5,560.10	4,444.92	7,485.03	7,381.89	103.14	72.572	
4,900.00	4,646.36	4,611.36	4,611.36	26.97	79.52	110.73	-5,560.10	4,444.92	7,501.37	7,395.93	105.44	71.144	
5,000.00	4,736.83	4,701.83	4,701.83	27.76	81.10	111.01	-5,560.10	4,444.92	7,517.91	7,410.18	107.74	69.779	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,100.00	4,827.30	4,807.70	4,792.30	28.55	82.95	111.29	-5,560.10	4,444.92	7,534.66	7,424.36	110.31	68.307	
5,200.00	4,917.77	4,882.77	4,882.77	29.35	84.26	111.56	-5,560.10	4,444.92	7,551.61	7,439.28	112.33	67.225	
5,300.00	5,008.25	4,973.25	4,973.25	30.15	85.84	111.84	-5,560.10	4,444.92	7,568.77	7,454.14	114.63	66.029	
5,400.00	5,098.72	5,063.72	5,063.72	30.94	87.42	112.11	-5,560.10	4,444.92	7,586.12	7,469.20	116.92	64.882	
5,500.00	5,189.19	5,154.19	5,154.19	31.74	89.00	112.39	-5,560.10	4,444.92	7,603.67	7,484.46	119.21	63.782	
5,600.00	5,279.67	5,244.67	5,244.67	32.54	90.58	112.66	-5,560.10	4,444.92	7,621.42	7,499.92	121.50	62.726	
5,700.00	5,370.14	5,335.14	5,335.14	33.34	92.16	112.93	-5,560.10	4,444.92	7,639.37	7,515.58	123.79	61.711	
5,800.00	5,460.61	5,425.61	5,425.61	34.14	93.73	113.20	-5,560.10	4,444.92	7,657.51	7,531.43	126.08	60.736	
5,900.00	5,551.08	5,450.00	5,450.00	34.94	94.16	113.27	-5,560.10	4,444.92	7,676.13	7,548.94	127.19	60.352	
6,000.00	5,641.56	5,450.00	5,450.00	35.75	94.16	113.27	-5,560.10	4,444.92	7,695.96	7,568.12	127.85	60.196	
6,100.00	5,732.03	5,450.00	5,450.00	36.55	94.16	113.27	-5,560.10	4,444.92	7,717.04	7,588.56	128.49	60.061	
6,200.00	5,822.50	5,450.00	5,450.00	37.35	94.16	113.27	-5,560.10	4,444.92	7,739.36	7,610.25	129.11	59.946	
6,300.00	5,912.97	5,450.00	5,450.00	38.16	94.16	113.27	-5,560.10	4,444.92	7,762.90	7,633.19	129.70	59.851	
6,400.00	6,003.45	5,450.00	5,450.00	38.96	94.16	113.27	-5,560.10	4,444.92	7,787.65	7,657.37	130.28	59.775	
6,500.00	6,093.92	5,450.00	5,450.00	39.77	94.16	113.27	-5,560.10	4,444.92	7,813.60	7,682.76	130.84	59.719	
6,600.00	6,184.39	5,450.00	5,450.00	40.57	94.16	113.27	-5,560.10	4,444.92	7,840.75	7,709.37	131.38	59.680	
6,700.00	6,274.87	5,450.00	5,450.00	41.38	94.16	113.27	-5,560.10	4,444.92	7,869.07	7,737.17	131.90	59.660	
6,800.00	6,365.34	5,450.00	5,450.00	42.18	94.16	113.27	-5,560.10	4,444.92	7,898.55	7,766.15	132.40	59.658	
6,900.00	6,455.81	5,450.00	5,450.00	42.99	94.16	113.27	-5,560.10	4,444.92	7,929.19	7,796.31	132.88	59.673	
7,000.00	6,546.28	5,450.00	5,450.00	43.80	94.16	113.27	-5,560.10	4,444.92	7,960.96	7,827.62	133.34	59.705	
7,100.00	6,636.76	5,450.00	5,450.00	44.61	94.16	113.27	-5,560.10	4,444.92	7,993.86	7,860.08	133.78	59.753	
7,200.00	6,727.23	5,450.00	5,450.00	45.41	94.16	113.27	-5,560.10	4,444.92	8,027.87	7,893.67	134.21	59.818	
7,300.00	6,817.70	5,450.00	5,450.00	46.22	94.16	113.27	-5,560.10	4,444.92	8,062.98	7,928.37	134.61	59.898	
7,383.79	6,893.51	5,450.00	5,450.00	46.90	94.16	113.27	-5,560.10	4,444.92	8,093.23	7,958.29	134.94	59.978	
7,400.00	6,908.25	5,450.00	5,450.00	47.03	94.16	111.19	-5,560.10	4,444.92	8,098.98	7,963.98	135.00	59.994	
7,450.00	6,954.52	5,450.00	5,450.00	47.40	94.16	102.93	-5,560.10	4,444.92	8,114.43	7,979.27	135.17	60.033	
7,500.00	7,001.74	5,450.00	5,450.00	47.72	94.16	91.31	-5,560.10	4,444.92	8,126.38	7,991.08	135.30	60.060	
7,550.00	7,049.55	5,450.00	5,450.00	47.99	94.16	76.20	-5,560.10	4,444.92	8,134.75	7,999.34	135.41	60.075	
7,600.00	7,097.58	5,450.00	5,450.00	48.21	94.16	59.16	-5,560.10	4,444.92	8,139.49	8,004.00	135.48	60.079	
7,650.00	7,145.48	5,450.00	5,450.00	48.37	94.16	43.10	-5,560.10	4,444.92	8,140.56	8,005.04	135.51	60.072	
7,700.00	7,192.88	5,450.00	5,450.00	48.48	94.16	30.02	-5,560.10	4,444.92	8,137.96	8,002.45	135.51	60.056	
7,750.00	7,239.41	5,450.00	5,450.00	48.54	94.16	20.09	-5,560.10	4,444.92	8,131.71	7,996.24	135.47	60.027	
7,800.00	7,284.72	5,450.00	5,450.00	48.56	94.16	12.61	-5,560.10	4,444.92	8,121.84	7,986.44	135.40	59.986	
7,850.00	7,328.47	5,450.00	5,450.00	48.54	94.16	6.82	-5,560.10	4,444.92	8,108.42	7,973.13	135.29	59.932	
7,900.00	7,370.32	5,450.00	5,450.00	48.47	94.16	2.15	-5,560.10	4,444.92	8,091.53	7,956.37	135.16	59.864	
7,950.00	7,409.96	5,450.00	5,450.00	48.37	94.16	-1.82	-5,560.10	4,444.92	8,071.29	7,936.28	135.01	59.782	
8,000.00	7,447.08	5,450.00	5,450.00	48.24	94.16	-5.36	-5,560.10	4,444.92	8,047.81	7,912.97	134.83	59.686	
8,050.00	7,481.41	5,450.00	5,450.00	48.07	94.16	-8.70	-5,560.10	4,444.92	8,021.25	7,886.61	134.64	59.576	
8,100.00	7,512.67	5,450.00	5,450.00	47.87	94.16	-12.01	-5,560.10	4,444.92	7,991.78	7,857.36	134.43	59.451	
8,150.00	7,540.64	5,450.00	5,450.00	47.65	94.16	-15.44	-5,560.10	4,444.92	7,959.60	7,825.40	134.20	59.311	
8,200.00	7,565.09	5,450.00	5,450.00	47.40	94.16	-19.15	-5,560.10	4,444.92	7,924.92	7,790.96	133.97	59.156	
8,250.00	7,585.85	5,450.00	5,450.00	47.14	94.16	-23.29	-5,560.10	4,444.92	7,887.98	7,754.25	133.72	58.987	
8,300.00	7,602.75	5,450.00	5,450.00	46.86	94.16	-28.04	-5,560.10	4,444.92	7,849.01	7,715.53	133.48	58.804	
8,350.00	7,615.67	5,450.00	5,450.00	46.58	94.16	-33.59	-5,560.10	4,444.92	7,808.30	7,675.07	133.23	58.607	
8,400.00	7,624.51	5,450.00	5,450.00	46.28	94.16	-40.12	-5,560.10	4,444.92	7,766.12	7,633.13	132.99	58.397	
8,450.00	7,629.19	5,450.00	5,450.00	45.98	94.16	-47.79	-5,560.10	4,444.92	7,722.78	7,590.03	132.75	58.174	
8,481.00	7,630.00	5,450.00	5,450.00	45.79	94.16	-53.11	-5,560.10	4,444.92	7,695.46	7,562.85	132.61	58.030	
8,500.00	7,630.00	5,450.00	5,450.00	45.68	94.16	-53.11	-5,560.10	4,444.92	7,678.64	7,546.12	132.53	57.940	
8,600.00	7,630.00	5,450.00	5,450.00	45.11	94.16	-53.11	-5,560.10	4,444.92	7,590.27	7,458.20	132.07	57.470	
8,700.00	7,630.00	5,450.00	5,450.00	44.56	94.16	-53.11	-5,560.10	4,444.92	7,502.19	7,370.57	131.62	56.999	
8,800.00	7,630.00	5,450.00	5,450.00	44.05	94.16	-53.11	-5,560.10	4,444.92	7,414.41	7,283.25	131.17	56.527	
8,900.00	7,630.00	5,450.00	5,450.00	43.57	94.16	-53.11	-5,560.10	4,444.92	7,326.95	7,196.24	130.71	56.053	

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

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,630.00	5,450.00	5,450.00	43.12	94.16	-53.11	-5,560.10	4,444.92	7,239.81	7,109.55	130.26	55.579	
9,100.00	7,630.00	5,450.00	5,450.00	42.70	94.16	-53.11	-5,560.10	4,444.92	7,153.01	7,023.19	129.81	55.102	
9,200.00	7,630.00	5,450.00	5,450.00	42.31	94.16	-53.11	-5,560.10	4,444.92	7,066.55	6,937.18	129.37	54.624	
9,300.00	7,630.00	5,450.00	5,450.00	41.94	94.16	-53.11	-5,560.10	4,444.92	6,980.46	6,851.53	128.93	54.143	
9,400.00	7,630.00	5,450.00	5,450.00	41.59	94.16	-53.11	-5,560.10	4,444.92	6,894.74	6,766.25	128.49	53.659	
9,500.00	7,630.00	5,450.00	5,450.00	41.26	94.16	-53.11	-5,560.10	4,444.92	6,809.41	6,681.35	128.06	53.172	
9,600.00	7,630.00	5,450.00	5,450.00	40.96	94.16	-53.11	-5,560.10	4,444.92	6,724.49	6,596.85	127.65	52.681	
9,700.00	7,630.00	5,450.00	5,450.00	40.68	94.16	-53.11	-5,560.10	4,444.92	6,639.99	6,512.75	127.24	52.185	
9,800.00	7,630.00	5,450.00	5,450.00	40.42	94.16	-53.11	-5,560.10	4,444.92	6,555.92	6,429.08	126.84	51.685	
9,900.00	7,630.00	5,450.00	5,450.00	40.17	94.16	-53.11	-5,560.10	4,444.92	6,472.31	6,345.84	126.47	51.179	
10,000.00	7,630.00	5,450.00	5,450.00	39.96	94.16	-53.11	-5,560.10	4,444.92	6,389.16	6,263.06	126.10	50.666	
10,100.00	7,630.00	5,450.00	5,450.00	40.05	94.16	-53.11	-5,560.10	4,444.92	6,306.51	6,180.75	125.76	50.147	
10,200.00	7,630.00	5,450.00	5,450.00	40.95	94.16	-53.11	-5,560.10	4,444.92	6,224.37	6,098.93	125.44	49.621	
10,300.00	7,630.00	5,450.00	5,450.00	41.94	94.16	-53.11	-5,560.10	4,444.92	6,142.75	6,017.61	125.14	49.086	
10,400.00	7,630.00	5,450.00	5,450.00	42.98	94.16	-53.11	-5,560.10	4,444.92	6,061.69	5,936.81	124.87	48.543	
10,500.00	7,630.00	5,450.00	5,450.00	44.06	94.16	-53.11	-5,560.10	4,444.92	5,981.20	5,856.56	124.63	47.990	
10,600.00	7,630.00	5,450.00	5,450.00	45.17	94.16	-53.11	-5,560.10	4,444.92	5,901.30	5,776.87	124.43	47.427	
10,700.00	7,630.00	5,450.00	5,450.00	46.32	94.16	-53.11	-5,560.10	4,444.92	5,822.03	5,697.77	124.26	46.853	
10,800.00	7,630.00	5,450.00	5,450.00	47.50	94.16	-53.11	-5,560.10	4,444.92	5,743.40	5,619.27	124.14	46.267	
10,900.00	7,630.00	5,450.00	5,450.00	48.70	94.16	-53.11	-5,560.10	4,444.92	5,665.45	5,541.40	124.05	45.670	
11,000.00	7,630.00	5,450.00	5,450.00	49.94	94.16	-53.11	-5,560.10	4,444.92	5,588.20	5,464.18	124.02	45.060	
11,100.00	7,630.00	5,450.00	5,450.00	51.20	94.16	-53.11	-5,560.10	4,444.92	5,511.68	5,387.65	124.03	44.438	
11,200.00	7,630.00	5,450.00	5,450.00	52.48	94.16	-53.11	-5,560.10	4,444.92	5,435.93	5,311.83	124.10	43.803	
11,300.00	7,630.00	5,450.00	5,450.00	53.79	94.16	-53.11	-5,560.10	4,444.92	5,360.97	5,236.74	124.23	43.155	
11,400.00	7,630.00	5,450.00	5,450.00	55.12	94.16	-53.11	-5,560.10	4,444.92	5,286.83	5,162.42	124.41	42.495	
11,500.00	7,630.00	5,450.00	5,450.00	56.46	94.16	-53.11	-5,560.10	4,444.92	5,213.57	5,088.91	124.66	41.822	
11,600.00	7,630.00	5,450.00	5,450.00	57.83	94.16	-53.11	-5,560.10	4,444.92	5,141.20	5,016.23	124.97	41.138	
11,700.00	7,630.00	5,450.00	5,450.00	59.22	94.16	-53.11	-5,560.10	4,444.92	5,069.77	4,944.42	125.36	40.443	
11,800.00	7,630.00	5,450.00	5,450.00	60.62	94.16	-53.11	-5,560.10	4,444.92	4,999.32	4,873.52	125.81	39.738	
11,900.00	7,630.00	5,450.00	5,450.00	62.04	94.16	-53.11	-5,560.10	4,444.92	4,929.90	4,803.57	126.33	39.023	
12,000.00	7,630.00	5,450.00	5,450.00	63.48	94.16	-53.11	-5,560.10	4,444.92	4,861.54	4,734.61	126.93	38.301	
12,100.00	7,630.00	5,450.00	5,450.00	64.93	94.16	-53.11	-5,560.10	4,444.92	4,794.29	4,666.69	127.60	37.573	
12,200.00	7,630.00	5,450.00	5,450.00	66.39	94.16	-53.11	-5,560.10	4,444.92	4,728.20	4,599.85	128.35	36.840	
12,300.00	7,630.00	5,450.00	5,450.00	67.86	94.16	-53.11	-5,560.10	4,444.92	4,663.32	4,534.15	129.17	36.103	
12,400.00	7,630.00	5,450.00	5,450.00	69.35	94.16	-53.11	-5,560.10	4,444.92	4,599.69	4,469.63	130.06	35.365	
12,500.00	7,630.00	5,450.00	5,450.00	70.85	94.16	-53.11	-5,560.10	4,444.92	4,537.38	4,406.35	131.03	34.628	
12,600.00	7,630.00	5,450.00	5,450.00	72.36	94.16	-53.11	-5,560.10	4,444.92	4,476.44	4,344.36	132.08	33.892	
12,700.00	7,630.00	5,450.00	5,450.00	73.88	94.16	-53.11	-5,560.10	4,444.92	4,416.92	4,283.72	133.20	33.160	
12,800.00	7,630.00	5,450.00	5,450.00	75.41	94.16	-53.11	-5,560.10	4,444.92	4,358.88	4,224.48	134.39	32.434	
12,900.00	7,630.00	5,450.00	5,450.00	76.95	94.16	-53.11	-5,560.10	4,444.92	4,302.38	4,166.72	135.66	31.715	
13,000.00	7,630.00	5,450.00	5,450.00	78.49	94.16	-53.11	-5,560.10	4,444.92	4,247.49	4,110.49	136.99	31.005	
13,100.00	7,630.00	5,450.00	5,450.00	80.05	94.16	-53.11	-5,560.10	4,444.92	4,194.26	4,055.86	138.40	30.306	
13,200.00	7,630.00	5,450.00	5,450.00	81.61	94.16	-53.11	-5,560.10	4,444.92	4,142.76	4,002.89	139.86	29.620	
13,300.00	7,630.00	5,450.00	5,450.00	83.18	94.16	-53.11	-5,560.10	4,444.92	4,093.06	3,951.66	141.40	28.947	
13,400.00	7,630.00	5,450.00	5,450.00	84.76	94.16	-53.11	-5,560.10	4,444.92	4,045.21	3,902.22	142.99	28.290	
13,500.00	7,630.00	5,450.00	5,450.00	86.34	94.16	-53.11	-5,560.10	4,444.92	3,999.30	3,854.66	144.64	27.649	
13,600.00	7,630.00	5,450.00	5,450.00	87.94	94.16	-53.11	-5,560.10	4,444.92	3,955.39	3,809.03	146.35	27.027	
13,700.00	7,630.00	5,450.00	5,450.00	89.53	94.16	-53.11	-5,560.10	4,444.92	3,913.53	3,765.42	148.11	26.423	
13,800.00	7,630.00	5,450.00	5,450.00	91.13	94.16	-53.11	-5,560.10	4,444.92	3,873.81	3,723.89	149.92	25.839	
13,900.00	7,630.00	5,450.00	5,450.00	92.74	94.16	-53.11	-5,560.10	4,444.92	3,836.28	3,684.50	151.78	25.276	
14,000.00	7,630.00	5,450.00	5,450.00	94.35	94.16	-53.11	-5,560.10	4,444.92	3,801.01	3,647.34	153.67	24.735	
14,100.00	7,630.00	5,450.00	5,450.00	95.97	94.16	-53.11	-5,560.10	4,444.92	3,768.07	3,612.47	155.60	24.216	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
14,200.00	7,630.00	5,450.00	5,450.00	97.60	94.16	-53.11	-5,560.10	4,444.92	3,737.52	3,579.95	157.57	23.720	
14,300.00	7,630.00	5,450.00	5,450.00	99.22	94.16	-53.11	-5,560.10	4,444.92	3,709.40	3,549.85	159.56	23.248	
14,400.00	7,630.00	5,450.00	5,450.00	100.85	94.16	-53.11	-5,560.10	4,444.92	3,683.79	3,522.22	161.57	22.800	
14,500.00	7,630.00	5,450.00	5,450.00	102.49	94.16	-53.11	-5,560.10	4,444.92	3,660.74	3,497.13	163.60	22.376	
14,600.00	7,630.00	5,450.00	5,450.00	104.13	94.16	-53.11	-5,560.10	4,444.92	3,640.28	3,474.63	165.65	21.976	
14,700.00	7,630.00	5,450.00	5,450.00	105.77	94.16	-53.11	-5,560.10	4,444.92	3,622.47	3,454.78	167.70	21.601	
14,800.00	7,630.00	5,450.00	5,450.00	107.42	94.16	-53.11	-5,560.10	4,444.92	3,607.35	3,437.60	169.75	21.251	
14,900.00	7,630.00	5,450.00	5,450.00	109.07	94.16	-53.11	-5,560.10	4,444.92	3,594.94	3,423.15	171.79	20.926	
15,000.00	7,630.00	5,450.00	5,450.00	110.72	94.16	-53.11	-5,560.10	4,444.92	3,585.29	3,411.46	173.82	20.626	
15,100.00	7,630.00	5,450.00	5,450.00	112.38	94.16	-53.11	-5,560.10	4,444.92	3,578.40	3,402.56	175.84	20.350	
15,200.00	7,630.00	5,450.00	5,450.00	114.04	94.16	-53.11	-5,560.10	4,444.92	3,574.30	3,396.46	177.84	20.099	
15,296.71	7,630.00	5,450.00	5,450.00	115.65	94.16	-53.11	-5,560.10	4,444.92	3,572.99	3,393.25	179.74	19.879	CC
15,300.00	7,630.00	5,450.00	5,450.00	115.71	94.16	-53.11	-5,560.10	4,444.92	3,572.99	3,393.19	179.80	19.872	
15,400.00	7,630.00	5,450.00	5,450.00	117.37	94.16	-53.11	-5,560.10	4,444.92	3,574.48	3,392.75	181.73	19.669	ES
15,500.00	7,630.00	5,450.00	5,450.00	119.04	94.16	-53.11	-5,560.10	4,444.92	3,578.77	3,395.14	183.63	19.489	
15,600.00	7,630.00	5,450.00	5,450.00	120.71	94.16	-53.11	-5,560.10	4,444.92	3,585.84	3,400.36	185.48	19.333	
15,700.00	7,630.00	5,450.00	5,450.00	122.39	94.16	-53.11	-5,560.10	4,444.92	3,595.68	3,408.40	187.28	19.200	
15,800.00	7,630.00	5,450.00	5,450.00	124.06	94.16	-53.11	-5,560.10	4,444.92	3,608.26	3,419.23	189.03	19.089	
15,900.00	7,630.00	5,450.00	5,450.00	125.74	94.16	-53.11	-5,560.10	4,444.92	3,623.56	3,432.84	190.72	19.000	
16,000.00	7,630.00	5,450.00	5,450.00	127.42	94.16	-53.11	-5,560.10	4,444.92	3,641.55	3,449.20	192.35	18.932	
16,100.00	7,630.00	5,450.00	5,450.00	129.10	94.16	-53.11	-5,560.10	4,444.92	3,662.17	3,468.26	193.91	18.886	
16,200.00	7,630.00	5,450.00	5,450.00	130.79	94.16	-53.11	-5,560.10	4,444.92	3,685.40	3,489.98	195.41	18.859	
16,300.00	7,630.00	5,450.00	5,450.00	132.48	94.16	-53.11	-5,560.10	4,444.92	3,711.18	3,514.33	196.85	18.853	SF
16,400.00	7,630.00	5,450.00	5,450.00	134.17	94.16	-53.11	-5,560.10	4,444.92	3,739.45	3,541.24	198.21	18.866	
16,500.00	7,630.00	5,450.00	5,450.00	135.86	94.16	-53.11	-5,560.10	4,444.92	3,770.16	3,570.66	199.51	18.898	
16,600.00	7,630.00	5,450.00	5,450.00	137.55	94.16	-53.11	-5,560.10	4,444.92	3,803.26	3,602.53	200.73	18.947	
16,700.00	7,630.00	5,450.00	5,450.00	139.24	94.16	-53.11	-5,560.10	4,444.92	3,838.68	3,636.80	201.88	19.015	
16,800.00	7,630.00	5,450.00	5,450.00	140.94	94.16	-53.11	-5,560.10	4,444.92	3,876.35	3,673.39	202.96	19.099	
16,900.00	7,630.00	5,450.00	5,450.00	142.64	94.16	-53.11	-5,560.10	4,444.92	3,916.22	3,712.24	203.98	19.199	
17,000.00	7,630.00	5,450.00	5,450.00	144.34	94.16	-53.11	-5,560.10	4,444.92	3,958.21	3,753.29	204.92	19.316	
17,100.00	7,630.00	5,450.00	5,450.00	146.04	94.16	-53.11	-5,560.10	4,444.92	4,002.26	3,796.46	205.80	19.448	
17,200.00	7,630.00	5,450.00	5,450.00	147.74	94.16	-53.11	-5,560.10	4,444.92	4,048.30	3,841.69	206.61	19.594	
17,300.00	7,630.00	5,450.00	5,450.00	149.44	94.16	-53.11	-5,560.10	4,444.92	4,096.27	3,888.91	207.36	19.755	
17,400.00	7,630.00	5,450.00	5,450.00	151.15	94.16	-53.11	-5,560.10	4,444.92	4,146.09	3,938.04	208.05	19.929	
17,500.00	7,630.00	5,450.00	5,450.00	152.86	94.16	-53.11	-5,560.10	4,444.92	4,197.70	3,989.03	208.67	20.116	
17,600.00	7,630.00	5,450.00	5,450.00	154.56	94.16	-53.11	-5,560.10	4,444.92	4,251.04	4,041.80	209.25	20.316	
17,700.00	7,630.00	5,450.00	5,450.00	156.27	94.16	-53.11	-5,560.10	4,444.92	4,306.05	4,096.28	209.77	20.528	
17,800.00	7,630.00	5,450.00	5,450.00	157.98	94.16	-53.11	-5,560.10	4,444.92	4,362.65	4,152.41	210.23	20.752	
17,900.00	7,630.00	5,450.00	5,450.00	159.70	94.16	-53.11	-5,560.10	4,444.92	4,420.78	4,210.13	210.65	20.986	
18,000.00	7,630.00	5,450.00	5,450.00	161.41	94.16	-53.11	-5,560.10	4,444.92	4,480.40	4,269.38	211.02	21.232	
18,100.00	7,630.00	5,450.00	5,450.00	163.12	94.16	-53.11	-5,560.10	4,444.92	4,541.44	4,330.09	211.35	21.488	
18,154.00	7,630.00	5,450.00	5,450.00	164.05	94.16	-53.11	-5,560.10	4,444.92	4,574.97	4,363.46	211.51	21.630	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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	126.32	-4,237.46	5,763.72	7,154.05				
100.00	100.00	37.00	37.00	0.13	0.30	126.32	-4,237.46	5,763.72	7,153.78	7,153.35	0.43	N/A	
200.00	200.00	137.00	137.00	0.49	1.45	126.32	-4,237.46	5,763.72	7,153.78	7,151.84	1.94	3,684.622	
300.00	300.00	237.00	237.00	0.85	3.19	126.32	-4,237.46	5,763.72	7,153.78	7,149.73	4.05	1,768.407	
400.00	400.00	337.00	337.00	1.21	4.94	126.32	-4,237.46	5,763.72	7,153.78	7,147.63	6.15	1,163.381	
500.00	500.00	437.00	437.00	1.57	6.68	126.32	-4,237.46	5,763.72	7,153.78	7,145.52	8.25	866.817	
600.00	600.00	537.00	537.00	1.93	8.43	126.32	-4,237.46	5,763.72	7,153.78	7,143.42	10.36	690.737	
700.00	700.00	637.00	637.00	2.29	10.18	126.32	-4,237.46	5,763.72	7,153.78	7,141.32	12.46	574.115	
800.00	800.00	737.00	737.00	2.64	11.92	126.32	-4,237.46	5,763.72	7,153.78	7,139.21	14.56	491.185	
900.00	900.00	837.00	837.00	3.00	13.67	126.32	-4,237.46	5,763.72	7,153.78	7,137.11	16.67	429.189	
1,000.00	1,000.00	937.00	937.00	3.36	15.41	126.32	-4,237.46	5,763.72	7,153.78	7,135.01	18.77	381.089	
1,100.00	1,100.00	1,037.00	1,037.00	3.72	17.16	126.32	-4,237.46	5,763.72	7,153.78	7,132.90	20.88	342.684	
1,200.00	1,200.00	1,137.00	1,137.00	4.08	18.90	126.32	-4,237.46	5,763.72	7,153.78	7,130.80	22.98	311.311	
1,300.00	1,300.00	1,237.00	1,237.00	4.44	20.65	126.32	-4,237.46	5,763.72	7,153.78	7,128.69	25.08	285.200	
1,400.00	1,400.00	1,337.00	1,337.00	4.79	22.39	126.32	-4,237.46	5,763.72	7,153.78	7,126.59	27.19	263.131	
1,500.00	1,499.98	1,436.98	1,436.98	5.15	24.14	88.53	-4,237.46	5,763.72	7,153.73	7,124.44	29.29	244.252	
1,600.00	1,599.84	1,536.84	1,536.84	5.51	25.88	88.58	-4,237.46	5,763.72	7,153.60	7,122.21	31.39	227.923	
1,700.00	1,699.45	1,636.45	1,636.45	5.87	27.62	88.65	-4,237.46	5,763.72	7,153.39	7,119.91	33.48	213.649	
1,800.00	1,798.70	1,735.70	1,735.70	6.23	29.35	88.75	-4,237.46	5,763.72	7,153.11	7,117.53	35.58	201.059	
1,900.00	1,897.47	1,834.47	1,834.47	6.60	31.07	88.88	-4,237.46	5,763.72	7,152.78	7,115.11	37.67	189.862	
2,000.00	1,995.62	1,932.62	1,932.62	6.99	32.79	89.04	-4,237.46	5,763.72	7,152.43	7,112.66	39.77	179.829	
2,100.00	2,093.06	2,030.06	2,030.06	7.39	34.49	89.22	-4,237.46	5,763.72	7,152.08	7,110.20	41.88	170.777	
2,200.00	2,189.64	2,126.64	2,126.64	7.82	36.17	89.43	-4,237.46	5,763.72	7,151.76	7,107.77	44.00	162.557	
2,300.00	2,285.27	2,222.27	2,222.27	8.28	37.84	89.66	-4,237.46	5,763.72	7,151.52	7,105.40	46.12	155.052	
2,400.00	2,379.82	2,316.82	2,316.82	8.77	39.49	89.91	-4,237.46	5,763.72	7,151.39	7,103.12	48.27	148.164	
2,435.76	2,413.34	2,350.34	2,350.34	8.96	40.08	90.00	-4,237.46	5,763.72	7,151.38	7,102.34	49.04	145.824	
2,500.00	2,473.17	2,410.17	2,410.17	9.31	41.12	90.17	-4,237.46	5,763.72	7,151.42	7,100.99	50.43	141.814	
2,600.00	2,565.21	2,502.21	2,502.21	9.88	42.73	90.46	-4,237.46	5,763.72	7,151.65	7,099.04	52.61	135.938	
2,660.67	2,620.37	2,557.37	2,557.37	10.25	43.69	90.64	-4,237.46	5,763.72	7,151.92	7,097.97	53.94	132.583	
2,700.00	2,655.96	2,607.04	2,592.96	10.50	44.56	90.76	-4,237.46	5,763.72	7,152.14	7,097.08	55.06	129.903	
2,800.00	2,746.43	2,683.43	2,683.43	11.15	45.89	91.07	-4,237.46	5,763.72	7,152.89	7,095.85	57.04	125.402	
2,900.00	2,836.90	2,773.90	2,773.90	11.82	47.47	91.37	-4,237.46	5,763.72	7,153.89	7,094.61	59.29	120.663	
3,000.00	2,927.37	2,864.37	2,864.37	12.50	49.05	91.68	-4,237.46	5,763.72	7,155.15	7,093.60	61.55	116.242	
3,100.00	3,017.85	2,954.85	2,954.85	13.21	50.63	91.99	-4,237.46	5,763.72	7,156.66	7,092.83	63.83	112.113	
3,200.00	3,108.32	3,045.32	3,045.32	13.92	52.21	92.30	-4,237.46	5,763.72	7,158.42	7,092.30	66.13	108.252	
3,300.00	3,198.79	3,135.79	3,135.79	14.64	53.79	92.61	-4,237.46	5,763.72	7,160.44	7,092.01	68.43	104.639	
3,400.00	3,289.27	3,226.27	3,226.27	15.38	55.37	92.92	-4,237.46	5,763.72	7,162.71	7,091.97	70.74	101.251	
3,500.00	3,379.74	3,316.74	3,316.74	16.12	56.95	93.22	-4,237.46	5,763.72	7,165.23	7,092.17	73.06	98.072	
3,600.00	3,470.21	3,407.21	3,407.21	16.87	58.52	93.53	-4,237.46	5,763.72	7,168.00	7,092.62	75.39	95.084	
3,700.00	3,560.68	3,502.32	3,497.68	17.62	60.18	93.84	-4,237.46	5,763.72	7,171.03	7,093.23	77.80	92.175	
3,800.00	3,651.16	3,588.16	3,588.16	18.39	61.68	94.15	-4,237.46	5,763.72	7,174.30	7,094.25	80.05	89.620	
3,900.00	3,741.63	3,678.63	3,678.63	19.15	63.26	94.45	-4,237.46	5,763.72	7,177.83	7,095.44	82.39	87.119	
4,000.00	3,832.10	3,769.10	3,769.10	19.92	64.84	94.76	-4,237.46	5,763.72	7,181.61	7,096.88	84.73	84.755	
4,100.00	3,922.57	3,859.57	3,859.57	20.69	66.42	95.07	-4,237.46	5,763.72	7,185.64	7,098.56	87.08	82.519	
4,200.00	4,013.05	3,950.05	3,950.05	21.47	68.00	95.37	-4,237.46	5,763.72	7,189.92	7,100.49	89.43	80.400	
4,300.00	4,103.52	4,040.52	4,040.52	22.25	69.58	95.68	-4,237.46	5,763.72	7,194.45	7,102.68	91.78	78.392	
4,400.00	4,193.99	4,130.99	4,130.99	23.03	71.16	95.98	-4,237.46	5,763.72	7,199.23	7,105.10	94.13	76.484	
4,500.00	4,284.47	4,221.47	4,221.47	23.81	72.74	96.29	-4,237.46	5,763.72	7,204.26	7,107.78	96.48	74.672	
4,600.00	4,374.94	4,311.94	4,311.94	24.60	74.32	96.59	-4,237.46	5,763.72	7,209.53	7,110.70	98.83	72.948	
4,700.00	4,465.41	4,402.41	4,402.41	25.39	75.89	96.90	-4,237.46	5,763.72	7,215.06	7,113.87	101.19	71.305	
4,800.00	4,555.88	4,507.12	4,492.88	26.18	77.72	97.20	-4,237.46	5,763.72	7,220.83	7,117.04	103.79	69.573	
4,900.00	4,646.36	4,583.36	4,583.36	26.97	79.05	97.51	-4,237.46	5,763.72	7,226.84	7,120.95	105.89	68.246	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
5,000.00	4,736.83	4,673.83	4,673.83	27.76	80.63	97.81	-4,237.46	5,763.72	7,233.11	7,124.86	108.25	66.819	
5,100.00	4,827.30	4,764.30	4,764.30	28.55	82.21	98.11	-4,237.46	5,763.72	7,239.62	7,129.01	110.60	65.456	
5,200.00	4,917.77	4,854.77	4,854.77	29.35	83.79	98.42	-4,237.46	5,763.72	7,246.37	7,133.41	112.96	64.152	
5,300.00	5,008.25	4,945.25	4,945.25	30.15	85.37	98.72	-4,237.46	5,763.72	7,253.37	7,138.06	115.31	62.903	
5,400.00	5,098.72	5,035.72	5,035.72	30.94	86.95	99.02	-4,237.46	5,763.72	7,260.61	7,142.94	117.66	61.707	
5,500.00	5,189.19	5,126.19	5,126.19	31.74	88.53	99.32	-4,237.46	5,763.72	7,268.09	7,148.07	120.02	60.559	
5,600.00	5,279.67	5,216.67	5,216.67	32.54	90.11	99.62	-4,237.46	5,763.72	7,275.81	7,153.44	122.37	59.459	
5,700.00	5,370.14	5,307.14	5,307.14	33.34	91.68	99.92	-4,237.46	5,763.72	7,283.78	7,159.06	124.72	58.402	
5,800.00	5,460.61	5,397.61	5,397.61	34.14	93.26	100.22	-4,237.46	5,763.72	7,291.98	7,164.91	127.07	57.387	
5,900.00	5,551.08	5,400.00	5,400.00	34.94	93.31	100.23	-4,237.46	5,763.72	7,300.96	7,173.10	127.86	57.102	
6,000.00	5,641.56	5,400.00	5,400.00	35.75	93.31	100.23	-4,237.46	5,763.72	7,311.29	7,182.70	128.59	56.859	
6,100.00	5,732.03	5,400.00	5,400.00	36.55	93.31	100.23	-4,237.46	5,763.72	7,322.97	7,193.68	129.29	56.638	
6,200.00	5,822.50	5,400.00	5,400.00	37.35	93.31	100.23	-4,237.46	5,763.72	7,336.00	7,206.02	129.98	56.440	
6,300.00	5,912.97	5,400.00	5,400.00	38.16	93.31	100.23	-4,237.46	5,763.72	7,350.37	7,219.73	130.64	56.263	
6,400.00	6,003.45	5,400.00	5,400.00	38.96	93.31	100.23	-4,237.46	5,763.72	7,366.06	7,234.78	131.28	56.107	
6,500.00	6,093.92	5,400.00	5,400.00	39.77	93.31	100.23	-4,237.46	5,763.72	7,383.08	7,251.18	131.91	55.973	
6,600.00	6,184.39	5,400.00	5,400.00	40.57	93.31	100.23	-4,237.46	5,763.72	7,401.41	7,268.91	132.50	55.858	
6,700.00	6,274.87	5,400.00	5,400.00	41.38	93.31	100.23	-4,237.46	5,763.72	7,421.04	7,287.96	133.08	55.764	
6,800.00	6,365.34	5,400.00	5,400.00	42.18	93.31	100.23	-4,237.46	5,763.72	7,441.96	7,308.33	133.64	55.689	
6,900.00	6,455.81	5,400.00	5,400.00	42.99	93.31	100.23	-4,237.46	5,763.72	7,464.17	7,330.00	134.17	55.633	
7,000.00	6,546.28	5,400.00	5,400.00	43.80	93.31	100.23	-4,237.46	5,763.72	7,487.64	7,352.96	134.68	55.596	
7,100.00	6,636.76	5,400.00	5,400.00	44.61	93.31	100.23	-4,237.46	5,763.72	7,512.37	7,377.20	135.17	55.577	
7,200.00	6,727.23	5,400.00	5,400.00	45.41	93.31	100.23	-4,237.46	5,763.72	7,538.35	7,402.71	135.64	55.576	
7,300.00	6,817.70	5,400.00	5,400.00	46.22	93.31	100.23	-4,237.46	5,763.72	7,565.56	7,429.47	136.09	55.593	
7,383.79	6,893.51	5,400.00	5,400.00	46.90	93.31	100.23	-4,237.46	5,763.72	7,589.30	7,452.85	136.45	55.621	
7,400.00	6,908.25	5,400.00	5,400.00	47.03	93.31	98.18	-4,237.46	5,763.72	7,593.82	7,457.31	136.51	55.627	
7,450.00	6,954.52	5,400.00	5,400.00	47.40	93.31	89.98	-4,237.46	5,763.72	7,605.79	7,469.10	136.69	55.643	
7,500.00	7,001.74	5,400.00	5,400.00	47.72	93.31	78.39	-4,237.46	5,763.72	7,614.73	7,477.91	136.83	55.653	
7,550.00	7,049.55	5,400.00	5,400.00	47.99	93.31	63.29	-4,237.46	5,763.72	7,620.58	7,483.67	136.92	55.659	
7,600.00	7,097.58	5,400.00	5,400.00	48.21	93.31	46.22	-4,237.46	5,763.72	7,623.30	7,486.34	136.96	55.661	
7,650.00	7,145.48	5,400.00	5,400.00	48.37	93.31	30.09	-4,237.46	5,763.72	7,622.88	7,485.93	136.95	55.660	
7,700.00	7,192.88	5,400.00	5,400.00	48.48	93.31	16.89	-4,237.46	5,763.72	7,619.31	7,482.41	136.90	55.655	
7,750.00	7,239.41	5,400.00	5,400.00	48.54	93.31	6.81	-4,237.46	5,763.72	7,612.63	7,475.82	136.81	55.645	
7,800.00	7,284.72	5,400.00	5,400.00	48.56	93.31	-0.86	-4,237.46	5,763.72	7,602.87	7,466.19	136.68	55.627	
7,850.00	7,328.47	5,400.00	5,400.00	48.54	93.31	-6.88	-4,237.46	5,763.72	7,590.09	7,453.58	136.51	55.602	
7,900.00	7,370.32	5,400.00	5,400.00	48.47	93.31	-11.82	-4,237.46	5,763.72	7,574.38	7,438.08	136.31	55.569	
7,950.00	7,409.96	5,400.00	5,400.00	48.37	93.31	-16.10	-4,237.46	5,763.72	7,555.84	7,419.77	136.07	55.527	
8,000.00	7,447.08	5,400.00	5,400.00	48.24	93.31	-19.98	-4,237.46	5,763.72	7,534.59	7,398.78	135.82	55.476	
8,050.00	7,481.41	5,400.00	5,400.00	48.07	93.31	-23.66	-4,237.46	5,763.72	7,510.78	7,375.24	135.54	55.415	
8,100.00	7,512.67	5,400.00	5,400.00	47.87	93.31	-27.31	-4,237.46	5,763.72	7,484.54	7,349.31	135.24	55.345	
8,150.00	7,540.64	5,400.00	5,400.00	47.65	93.31	-31.04	-4,237.46	5,763.72	7,456.08	7,321.16	134.92	55.263	
8,200.00	7,565.09	5,400.00	5,400.00	47.40	93.31	-34.95	-4,237.46	5,763.72	7,425.56	7,290.97	134.59	55.171	
8,250.00	7,585.85	5,400.00	5,400.00	47.14	93.31	-39.10	-4,237.46	5,763.72	7,393.21	7,258.96	134.26	55.067	
8,300.00	7,602.75	5,400.00	5,400.00	46.86	93.31	-43.58	-4,237.46	5,763.72	7,359.25	7,225.33	133.92	54.952	
8,350.00	7,615.67	5,400.00	5,400.00	46.58	93.31	-48.39	-4,237.46	5,763.72	7,323.91	7,190.33	133.59	54.825	
8,400.00	7,624.51	5,400.00	5,400.00	46.28	93.31	-53.56	-4,237.46	5,763.72	7,287.45	7,154.20	133.26	54.688	
8,450.00	7,629.19	5,400.00	5,400.00	45.98	93.31	-59.04	-4,237.46	5,763.72	7,250.13	7,117.20	132.93	54.539	
8,481.00	7,630.00	5,400.00	5,400.00	45.79	93.31	-62.55	-4,237.46	5,763.72	7,226.68	7,093.93	132.74	54.442	
8,500.00	7,630.00	5,400.00	5,400.00	45.68	93.31	-62.55	-4,237.46	5,763.72	7,212.26	7,079.63	132.62	54.381	
8,600.00	7,630.00	5,400.00	5,400.00	45.11	93.31	-62.55	-4,237.46	5,763.72	7,136.72	7,004.70	132.01	54.060	
8,700.00	7,630.00	5,400.00	5,400.00	44.56	93.31	-62.55	-4,237.46	5,763.72	7,061.78	6,930.37	131.42	53.736	
8,800.00	7,630.00	5,400.00	5,400.00	44.05	93.31	-62.55	-4,237.46	5,763.72	6,987.48	6,856.65	130.83	53.409	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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
8,900.00	7,630.00	5,400.00	5,400.00	43.57	93.31	-62.55	-4,237.46	5,763.72	6,913.82	6,783.56	130.26	53.077	
9,000.00	7,630.00	5,400.00	5,400.00	43.12	93.31	-62.55	-4,237.46	5,763.72	6,840.84	6,711.12	129.71	52.739	
9,100.00	7,630.00	5,400.00	5,400.00	42.70	93.31	-62.55	-4,237.46	5,763.72	6,768.54	6,639.36	129.18	52.395	
9,200.00	7,630.00	5,400.00	5,400.00	42.31	93.31	-62.55	-4,237.46	5,763.72	6,696.95	6,568.27	128.68	52.044	
9,300.00	7,630.00	5,400.00	5,400.00	41.94	93.31	-62.55	-4,237.46	5,763.72	6,626.10	6,497.90	128.20	51.684	
9,400.00	7,630.00	5,400.00	5,400.00	41.59	93.31	-62.55	-4,237.46	5,763.72	6,556.01	6,428.25	127.76	51.315	
9,500.00	7,630.00	5,400.00	5,400.00	41.26	93.31	-62.55	-4,237.46	5,763.72	6,486.71	6,359.36	127.35	50.935	
9,600.00	7,630.00	5,400.00	5,400.00	40.96	93.31	-62.55	-4,237.46	5,763.72	6,418.21	6,291.23	126.99	50.543	
9,700.00	7,630.00	5,400.00	5,400.00	40.68	93.31	-62.55	-4,237.46	5,763.72	6,350.56	6,223.89	126.66	50.138	
9,800.00	7,630.00	5,400.00	5,400.00	40.42	93.31	-62.55	-4,237.46	5,763.72	6,283.76	6,157.37	126.39	49.718	
9,900.00	7,630.00	5,400.00	5,400.00	40.17	93.31	-62.55	-4,237.46	5,763.72	6,217.85	6,091.69	126.16	49.284	
10,000.00	7,630.00	5,400.00	5,400.00	39.96	93.31	-62.55	-4,237.46	5,763.72	6,152.87	6,026.87	126.00	48.833	
10,100.00	7,630.00	5,400.00	5,400.00	40.05	93.31	-62.55	-4,237.46	5,763.72	6,088.83	5,962.94	125.89	48.365	
10,200.00	7,630.00	5,400.00	5,400.00	40.95	93.31	-62.55	-4,237.46	5,763.72	6,025.77	5,899.92	125.85	47.880	
10,300.00	7,630.00	5,400.00	5,400.00	41.94	93.31	-62.55	-4,237.46	5,763.72	5,963.72	5,837.84	125.88	47.376	
10,400.00	7,630.00	5,400.00	5,400.00	42.98	93.31	-62.55	-4,237.46	5,763.72	5,902.72	5,776.74	125.98	46.854	
10,500.00	7,630.00	5,400.00	5,400.00	44.06	93.31	-62.55	-4,237.46	5,763.72	5,842.79	5,716.63	126.15	46.314	
10,600.00	7,630.00	5,400.00	5,400.00	45.17	93.31	-62.55	-4,237.46	5,763.72	5,783.96	5,657.56	126.41	45.757	
10,700.00	7,630.00	5,400.00	5,400.00	46.32	93.31	-62.55	-4,237.46	5,763.72	5,726.28	5,599.54	126.74	45.182	
10,800.00	7,630.00	5,400.00	5,400.00	47.50	93.31	-62.55	-4,237.46	5,763.72	5,669.78	5,542.62	127.15	44.590	
10,900.00	7,630.00	5,400.00	5,400.00	48.70	93.31	-62.55	-4,237.46	5,763.72	5,614.49	5,486.84	127.65	43.984	
11,000.00	7,630.00	5,400.00	5,400.00	49.94	93.31	-62.55	-4,237.46	5,763.72	5,560.44	5,432.22	128.23	43.364	
11,100.00	7,630.00	5,400.00	5,400.00	51.20	93.31	-62.55	-4,237.46	5,763.72	5,507.69	5,378.80	128.89	42.732	
11,200.00	7,630.00	5,400.00	5,400.00	52.48	93.31	-62.55	-4,237.46	5,763.72	5,456.25	5,326.62	129.63	42.090	
11,300.00	7,630.00	5,400.00	5,400.00	53.79	93.31	-62.55	-4,237.46	5,763.72	5,406.18	5,275.72	130.46	41.439	
11,400.00	7,630.00	5,400.00	5,400.00	55.12	93.31	-62.55	-4,237.46	5,763.72	5,357.50	5,226.13	131.37	40.783	
11,500.00	7,630.00	5,400.00	5,400.00	56.46	93.31	-62.55	-4,237.46	5,763.72	5,310.26	5,177.91	132.35	40.122	
11,600.00	7,630.00	5,400.00	5,400.00	57.83	93.31	-62.55	-4,237.46	5,763.72	5,264.50	5,131.09	133.41	39.460	
11,700.00	7,630.00	5,400.00	5,400.00	59.22	93.31	-62.55	-4,237.46	5,763.72	5,220.25	5,085.70	134.55	38.798	
11,800.00	7,630.00	5,400.00	5,400.00	60.62	93.31	-62.55	-4,237.46	5,763.72	5,177.56	5,041.80	135.76	38.138	
11,900.00	7,630.00	5,400.00	5,400.00	62.04	93.31	-62.55	-4,237.46	5,763.72	5,136.46	4,999.42	137.03	37.483	
12,000.00	7,630.00	5,400.00	5,400.00	63.48	93.31	-62.55	-4,237.46	5,763.72	5,096.99	4,958.61	138.37	36.835	
12,100.00	7,630.00	5,400.00	5,400.00	64.93	93.31	-62.55	-4,237.46	5,763.72	5,059.18	4,919.41	139.78	36.195	
12,200.00	7,630.00	5,400.00	5,400.00	66.39	93.31	-62.55	-4,237.46	5,763.72	5,023.09	4,881.85	141.24	35.565	
12,300.00	7,630.00	5,400.00	5,400.00	67.86	93.31	-62.55	-4,237.46	5,763.72	4,988.74	4,845.98	142.75	34.946	
12,400.00	7,630.00	5,400.00	5,400.00	69.35	93.31	-62.55	-4,237.46	5,763.72	4,956.17	4,811.84	144.32	34.341	
12,500.00	7,630.00	5,400.00	5,400.00	70.85	93.31	-62.55	-4,237.46	5,763.72	4,925.41	4,779.47	145.94	33.750	
12,600.00	7,630.00	5,400.00	5,400.00	72.36	93.31	-62.55	-4,237.46	5,763.72	4,896.50	4,748.91	147.59	33.176	
12,700.00	7,630.00	5,400.00	5,400.00	73.88	93.31	-62.55	-4,237.46	5,763.72	4,869.48	4,720.18	149.29	32.617	
12,800.00	7,630.00	5,400.00	5,400.00	75.41	93.31	-62.55	-4,237.46	5,763.72	4,844.36	4,693.34	151.02	32.077	
12,900.00	7,630.00	5,400.00	5,400.00	76.95	93.31	-62.55	-4,237.46	5,763.72	4,821.20	4,668.41	152.79	31.555	
13,000.00	7,630.00	5,400.00	5,400.00	78.49	93.31	-62.55	-4,237.46	5,763.72	4,800.00	4,645.42	154.58	31.052	
13,100.00	7,630.00	5,400.00	5,400.00	80.05	93.31	-62.55	-4,237.46	5,763.72	4,780.81	4,624.41	156.40	30.569	
13,200.00	7,630.00	5,400.00	5,400.00	81.61	93.31	-62.55	-4,237.46	5,763.72	4,763.63	4,605.40	158.23	30.106	
13,300.00	7,630.00	5,400.00	5,400.00	83.18	93.31	-62.55	-4,237.46	5,763.72	4,748.50	4,588.42	160.08	29.663	
13,400.00	7,630.00	5,400.00	5,400.00	84.76	93.31	-62.55	-4,237.46	5,763.72	4,735.43	4,573.49	161.94	29.241	
13,500.00	7,630.00	5,400.00	5,400.00	86.34	93.31	-62.55	-4,237.46	5,763.72	4,724.45	4,560.64	163.81	28.841	
13,600.00	7,630.00	5,400.00	5,400.00	87.94	93.31	-62.55	-4,237.46	5,763.72	4,715.56	4,549.87	165.68	28.461	
13,700.00	7,630.00	5,400.00	5,400.00	89.53	93.31	-62.55	-4,237.46	5,763.72	4,708.77	4,541.22	167.55	28.103	
13,800.00	7,630.00	5,400.00	5,400.00	91.13	93.31	-62.55	-4,237.46	5,763.72	4,704.11	4,534.69	169.42	27.766	
13,900.00	7,630.00	5,400.00	5,400.00	92.74	93.31	-62.55	-4,237.46	5,763.72	4,701.56	4,530.28	171.28	27.450	
13,969.63	7,630.00	5,400.00	5,400.00	93.86	93.31	-62.55	-4,237.46	5,763.72	4,701.05	4,528.48	172.57	27.242 CC	

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

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST FED 1A-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST FED 1A-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 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

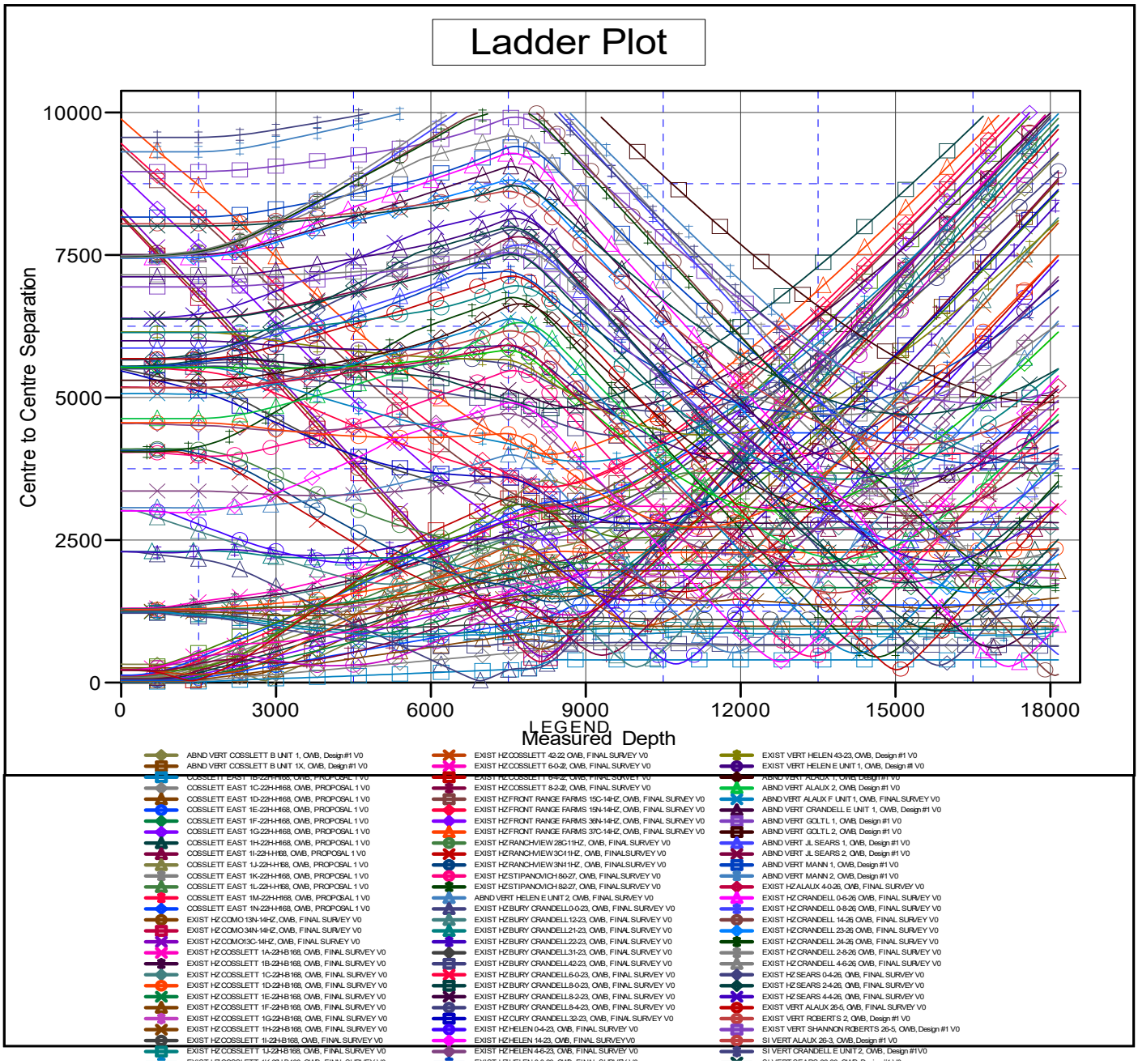
Offset Well Error: 0.00 usft

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
14,000.00	7,630.00	5,400.00	5,400.00	94.35	93.31	-62.55	-4,237.46	5,763.72	4,701.15	4,528.02	173.13	27.155	
14,100.00	7,630.00	5,400.00	5,400.00	95.97	93.31	-62.55	-4,237.46	5,763.72	4,702.86	4,527.90	174.96	26.880	ES
14,200.00	7,630.00	5,400.00	5,400.00	97.60	93.31	-62.55	-4,237.46	5,763.72	4,706.69	4,529.92	176.77	26.626	
14,300.00	7,630.00	5,400.00	5,400.00	99.22	93.31	-62.55	-4,237.46	5,763.72	4,712.64	4,534.08	178.56	26.393	
14,400.00	7,630.00	5,400.00	5,400.00	100.85	93.31	-62.55	-4,237.46	5,763.72	4,720.71	4,540.38	180.32	26.179	
14,500.00	7,630.00	5,400.00	5,400.00	102.49	93.31	-62.55	-4,237.46	5,763.72	4,730.87	4,548.81	182.06	25.985	
14,600.00	7,630.00	5,400.00	5,400.00	104.13	93.31	-62.55	-4,237.46	5,763.72	4,743.12	4,559.35	183.77	25.810	
14,700.00	7,630.00	5,400.00	5,400.00	105.77	93.31	-62.55	-4,237.46	5,763.72	4,757.45	4,572.00	185.44	25.655	
14,800.00	7,630.00	5,400.00	5,400.00	107.42	93.31	-62.55	-4,237.46	5,763.72	4,773.82	4,586.74	187.08	25.517	
14,900.00	7,630.00	5,400.00	5,400.00	109.07	93.31	-62.55	-4,237.46	5,763.72	4,792.23	4,603.54	188.68	25.398	
15,000.00	7,630.00	5,400.00	5,400.00	110.72	93.31	-62.55	-4,237.46	5,763.72	4,812.64	4,622.40	190.25	25.297	
15,100.00	7,630.00	5,400.00	5,400.00	112.38	93.31	-62.55	-4,237.46	5,763.72	4,835.04	4,643.27	191.77	25.213	
15,200.00	7,630.00	5,400.00	5,400.00	114.04	93.31	-62.55	-4,237.46	5,763.72	4,859.39	4,666.14	193.25	25.146	
15,300.00	7,630.00	5,400.00	5,400.00	115.71	93.31	-62.55	-4,237.46	5,763.72	4,885.67	4,690.98	194.68	25.095	
15,400.00	7,630.00	5,400.00	5,400.00	117.37	93.31	-62.55	-4,237.46	5,763.72	4,913.84	4,717.76	196.08	25.061	
15,500.00	7,630.00	5,400.00	5,400.00	119.04	93.31	-62.55	-4,237.46	5,763.72	4,943.87	4,746.45	197.42	25.042	
15,600.00	7,630.00	5,400.00	5,400.00	120.71	93.31	-62.55	-4,237.46	5,763.72	4,975.74	4,777.01	198.73	25.038	SF
15,700.00	7,630.00	5,400.00	5,400.00	122.39	93.31	-62.55	-4,237.46	5,763.72	5,009.40	4,809.41	199.98	25.049	
15,800.00	7,630.00	5,400.00	5,400.00	124.06	93.31	-62.55	-4,237.46	5,763.72	5,044.81	4,843.62	201.19	25.074	
15,900.00	7,630.00	5,400.00	5,400.00	125.74	93.31	-62.55	-4,237.46	5,763.72	5,081.95	4,879.59	202.36	25.113	
16,000.00	7,630.00	5,400.00	5,400.00	127.42	93.31	-62.55	-4,237.46	5,763.72	5,120.77	4,917.29	203.48	25.166	
16,100.00	7,630.00	5,400.00	5,400.00	129.10	93.31	-62.55	-4,237.46	5,763.72	5,161.23	4,956.68	204.55	25.232	
16,200.00	7,630.00	5,400.00	5,400.00	130.79	93.31	-62.55	-4,237.46	5,763.72	5,203.31	4,997.72	205.58	25.310	
16,300.00	7,630.00	5,400.00	5,400.00	132.48	93.31	-62.55	-4,237.46	5,763.72	5,246.95	5,040.38	206.57	25.400	
16,400.00	7,630.00	5,400.00	5,400.00	134.17	93.31	-62.55	-4,237.46	5,763.72	5,292.12	5,084.61	207.51	25.503	
16,500.00	7,630.00	5,400.00	5,400.00	135.86	93.31	-62.55	-4,237.46	5,763.72	5,338.79	5,130.38	208.41	25.617	
16,600.00	7,630.00	5,400.00	5,400.00	137.55	93.31	-62.55	-4,237.46	5,763.72	5,386.90	5,177.63	209.27	25.742	
16,700.00	7,630.00	5,400.00	5,400.00	139.24	93.31	-62.55	-4,237.46	5,763.72	5,436.43	5,226.35	210.09	25.877	
16,800.00	7,630.00	5,400.00	5,400.00	140.94	93.31	-62.55	-4,237.46	5,763.72	5,487.34	5,276.47	210.86	26.023	
16,900.00	7,630.00	5,400.00	5,400.00	142.64	93.31	-62.55	-4,237.46	5,763.72	5,539.58	5,327.98	211.60	26.179	
17,000.00	7,630.00	5,400.00	5,400.00	144.34	93.31	-62.55	-4,237.46	5,763.72	5,593.12	5,380.82	212.30	26.345	
17,100.00	7,630.00	5,400.00	5,400.00	146.04	93.31	-62.55	-4,237.46	5,763.72	5,647.93	5,434.96	212.97	26.520	
17,200.00	7,630.00	5,400.00	5,400.00	147.74	93.31	-62.55	-4,237.46	5,763.72	5,703.96	5,490.37	213.60	26.705	
17,300.00	7,630.00	5,400.00	5,400.00	149.44	93.31	-62.55	-4,237.46	5,763.72	5,761.18	5,546.99	214.19	26.898	
17,400.00	7,630.00	5,400.00	5,400.00	151.15	93.31	-62.55	-4,237.46	5,763.72	5,819.56	5,604.81	214.75	27.099	
17,500.00	7,630.00	5,400.00	5,400.00	152.86	93.31	-62.55	-4,237.46	5,763.72	5,879.06	5,663.78	215.28	27.309	
17,600.00	7,630.00	5,400.00	5,400.00	154.56	93.31	-62.55	-4,237.46	5,763.72	5,939.65	5,723.87	215.78	27.526	
17,700.00	7,630.00	5,400.00	5,400.00	156.27	93.31	-62.55	-4,237.46	5,763.72	6,001.30	5,785.04	216.25	27.751	
17,800.00	7,630.00	5,400.00	5,400.00	157.98	93.31	-62.55	-4,237.46	5,763.72	6,063.96	5,847.27	216.69	27.984	
17,900.00	7,630.00	5,400.00	5,400.00	159.70	93.31	-62.55	-4,237.46	5,763.72	6,127.62	5,910.51	217.11	28.224	
18,000.00	7,630.00	5,400.00	5,400.00	161.41	93.31	-62.55	-4,237.46	5,763.72	6,192.23	5,974.73	217.50	28.470	
18,100.00	7,630.00	5,400.00	5,400.00	163.12	93.31	-62.55	-4,237.46	5,763.72	6,257.78	6,039.92	217.86	28.723	
18,154.00	7,630.00	5,400.00	5,400.00	164.05	93.31	-62.55	-4,237.46	5,763.72	6,293.56	6,075.51	218.05	28.863	

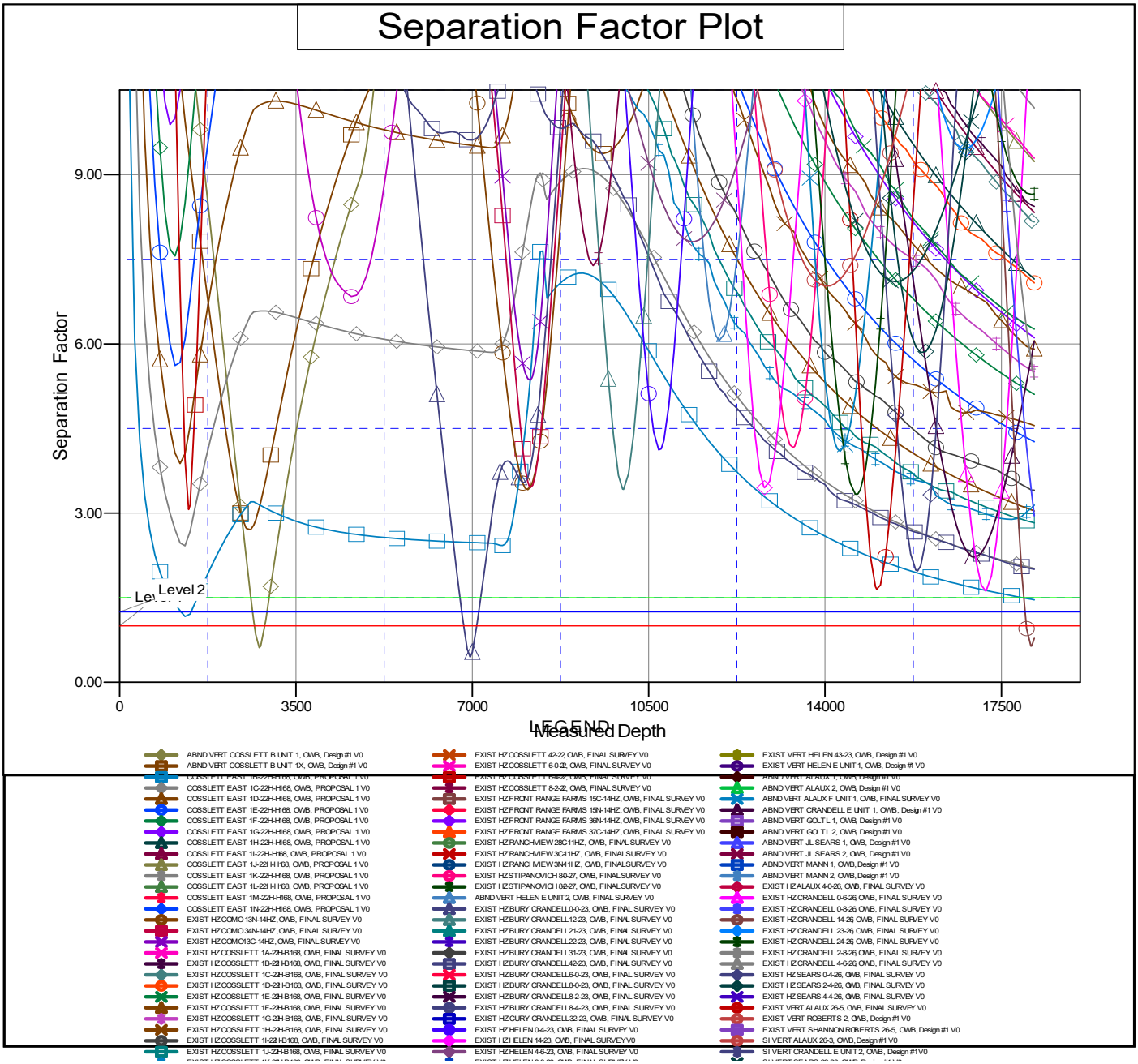
Anticollision Report

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

Reference Depths are relative to KB 25' @ 5208.00usft	Coordinates are relative to: COSSLETT EAST FED 1A-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°



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

Reference Depths are relative to KB 25' @ 5208.00usft	Coordinates are relative to: COSSLETT EAST FED 1A-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°

Separation Factor Plot