

CRESTONE PEAK RESOURCES

WELD COUNTY

SEC 25-T4N-R65W

SHELTON 25W-25-16

OWB

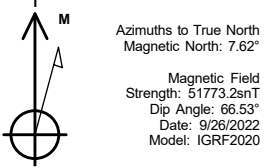
Design: FINAL SURVEY

Standard Survey Report

30 January, 2023

Project: WELD COUNTY
Site: SEC 25-T4N-R65W
Well: SHELTON 25W-25-16
Wellbore: OWB
Design: FINAL SURVEY

PROJECT DETAILS: WELD COUNTY
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
System Datum: Mean Sea Level

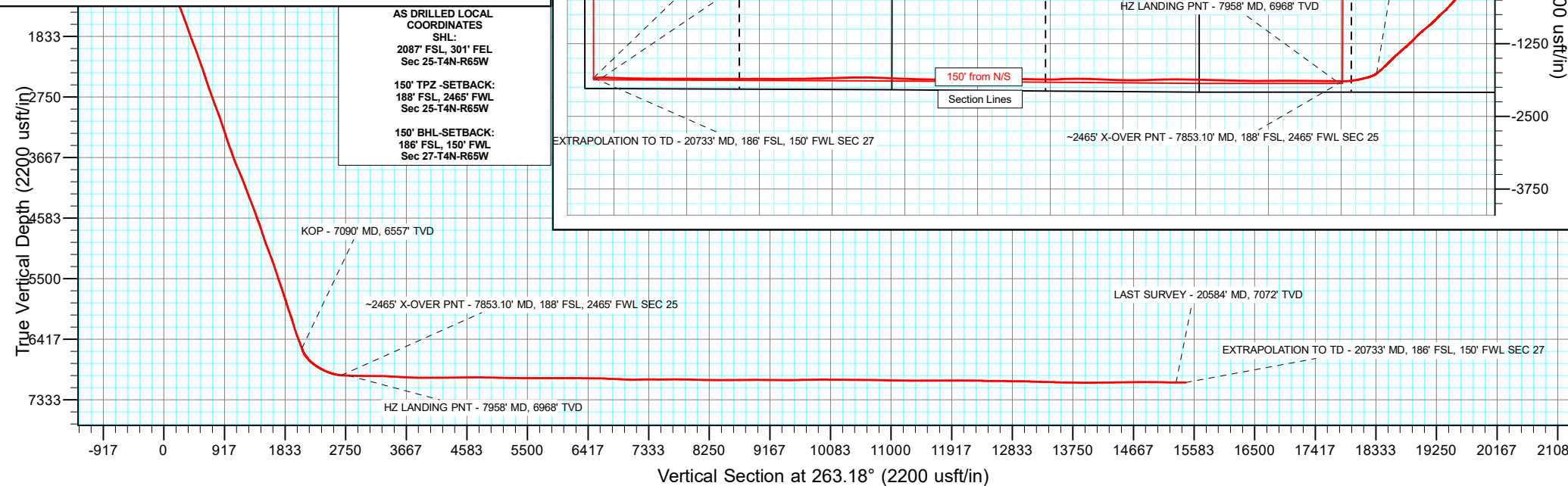
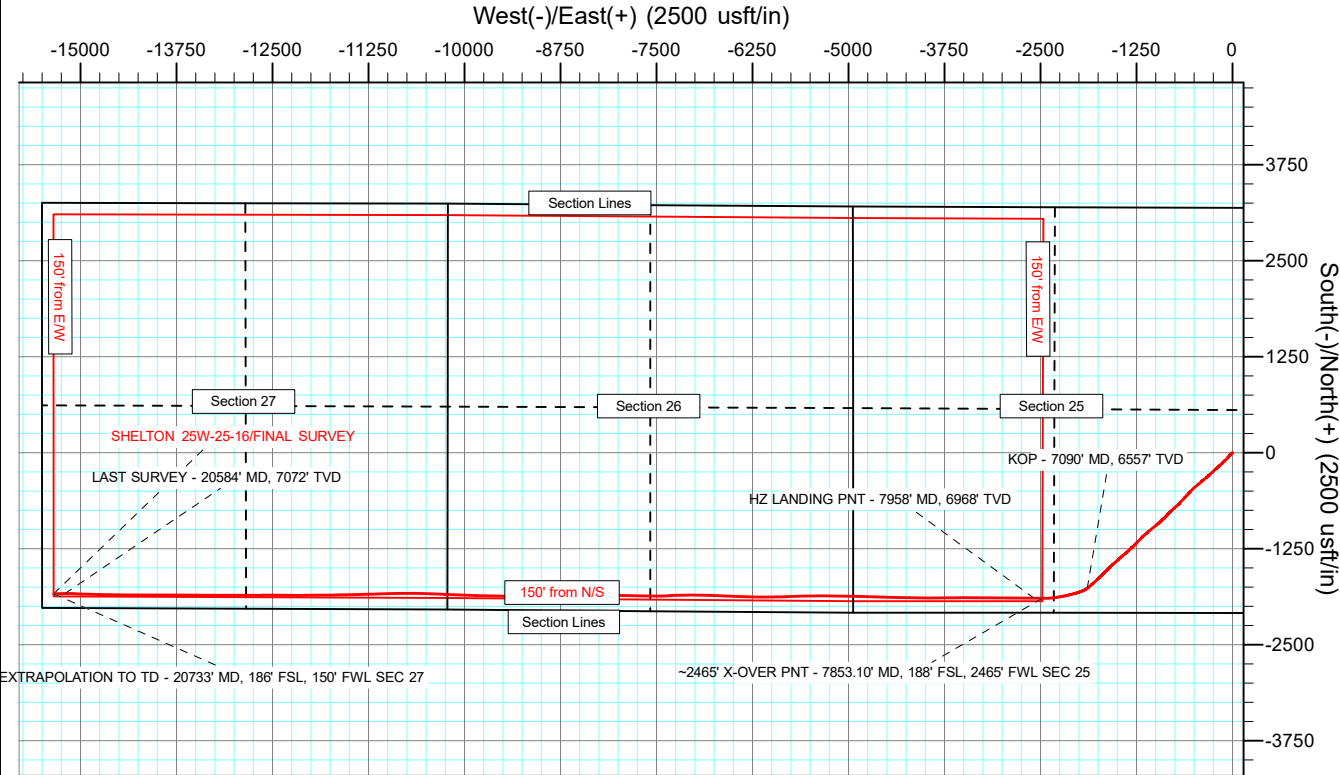
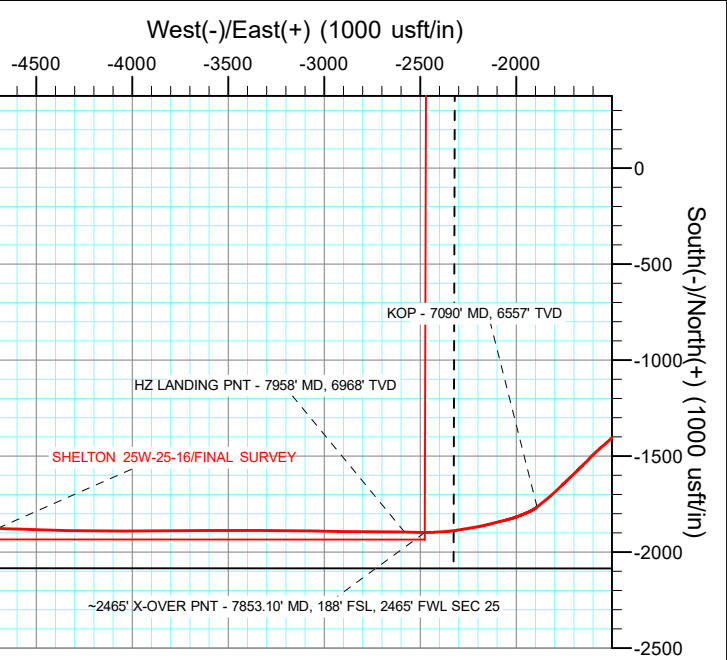


WELL DETAILS: SHELTON 25W-25-16

+N/-S	+E/-W	Northing	Easting	4836.00	Latitude	Longitude	Slot
0.00	0.00	1346726.34	3250146.97		40.281692°N	104.603389°W	

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
7090.00	22.85	231.79	6556.98	-1764.45	-1890.99	2087.07	2591.52	KOP - 7090' MD, 6557' TVD
7853.10	85.02	269.74	6962.51	-1897.12	-2475.55	2683.26	3197.48	~2465' X-OVER PNT - 7853.10' MD, 188' FSL, 2465' FWL SEC 25
7958.00	88.48	271.31	6968.12	-1895.95	-2580.28	2787.10	3302.16	HZ LANDING PNT - 7958' MD, 6968' TVD
20584.00	90.60	269.48	7071.73	-1833.77	-15200.50	15310.70	15925.70	LAST SURVEY - 20584' MD, 7072' TVD
20733.00	90.60	269.48	7070.17	-1835.12	-15349.48	15458.79	16074.69	EXTRAPOLATION TO TD - 20733' MD, 186' FSL, 150' FWL SEC 27



AS DRILLED LOCAL COORDINATES SHL:

2087' FSL, 301' FEL
Sec 25-T4N-R65W

150' TPZ -SETBACK:
188' FSL, 2465' FWL
Sec 25-T4N-R65W

150' BHL-SETBACK:
186' FSL, 150' FWL
Sec 27-T4N-R65W

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well SHELTON 25W-25-16
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4861.00usft
Site:	SEC 25-T4N-R65W	MD Reference:	KB 25' @ 4861.00usft
Well:	SHELTON 25W-25-16	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

Project	WELD COUNTY		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site		SEC 25-T4N-R65W			
Site Position:		Northing:	1,344,643.82 usft	Latitude:	40.275967°N
From:	Lat/Long	Easting:	3,250,457.11 usft	Longitude:	104.602353°W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.58 °

Well		SHELTON 25W-25-16				
Well Position	+N/-S	0.00 usft	Northing:	1,346,726.34 usft	Latitude:	40.281692°N
	+E/-W	0.00 usft	Easting:	3,250,146.97 usft	Longitude:	104.603389°W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,836.00 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	9/26/2022	7.62	66.53	51,773.22585755

Design	FINAL SURVEY				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	263.18	

Survey Program	Date	1/30/2023			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
152.00	1,857.00	SURFACE SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	
1,960.00	20,733.00	FINAL SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
152.00	0.90	142.20	151.99	-0.94	0.73	-0.61	0.59	0.59	0.00	
243.00	1.20	223.20	242.98	-2.20	0.52	-0.25	1.52	0.33	89.01	
335.00	3.40	238.40	334.90	-4.33	-2.47	2.96	2.46	2.39	16.52	
427.00	5.90	237.70	426.59	-8.29	-8.79	9.71	2.72	2.72	-0.76	
517.00	8.20	231.50	515.91	-14.76	-17.72	19.35	2.69	2.56	-6.89	
606.00	10.70	221.90	603.70	-24.86	-28.21	30.96	3.31	2.81	-10.79	
698.00	12.80	216.90	693.77	-39.37	-40.03	44.42	2.53	2.28	-5.43	
787.00	14.60	220.80	780.23	-55.75	-53.28	59.52	2.27	2.02	4.38	
877.00	16.30	225.70	866.98	-73.16	-69.74	77.93	2.38	1.89	5.44	

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well SHELTON 25W-25-16
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4861.00usft
Site:	SEC 25-T4N-R65W	MD Reference:	KB 25' @ 4861.00usft
Well:	SHELTON 25W-25-16	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
970.00	18.50	225.70	955.72	-92.58	-89.64	100.00	2.37	2.37	0.00
1,060.00	20.80	223.60	1,040.48	-114.13	-110.88	123.65	2.67	2.56	-2.33
1,149.00	22.60	226.60	1,123.17	-137.32	-134.21	149.56	2.38	2.02	3.37
1,242.00	21.30	225.70	1,209.42	-161.40	-159.28	177.31	1.44	-1.40	-0.97
1,332.00	22.90	228.20	1,292.81	-184.49	-184.04	204.64	2.06	1.78	2.78
1,421.00	25.20	230.50	1,374.08	-208.09	-211.57	234.77	2.79	2.58	2.58
1,512.00	25.30	227.80	1,456.39	-233.47	-240.92	266.94	1.27	0.11	-2.97
1,602.00	25.00	226.00	1,537.86	-259.60	-268.85	297.77	0.91	-0.33	-2.00
1,694.00	24.70	226.70	1,621.34	-286.29	-296.82	328.71	0.46	-0.33	0.76
1,786.00	22.20	227.90	1,705.74	-311.13	-323.71	358.36	2.77	-2.72	1.30
1,857.00	23.10	231.80	1,771.26	-328.74	-344.61	381.20	2.47	1.27	5.49
1,960.00	23.01	232.69	1,866.04	-353.43	-376.50	415.80	0.35	-0.09	0.86
2,055.00	25.03	230.32	1,952.81	-377.52	-406.74	448.68	2.36	2.13	-2.49
2,150.00	24.31	230.24	2,039.14	-402.86	-437.24	481.97	0.76	-0.76	-0.08
2,245.00	23.16	229.01	2,126.10	-427.62	-466.38	513.84	1.32	-1.21	-1.29
2,435.00	24.21	225.07	2,300.10	-479.65	-522.17	575.41	1.00	0.55	-2.07
2,530.00	22.29	224.31	2,387.39	-506.30	-548.54	604.77	2.05	-2.02	-0.80
2,623.00	24.32	222.39	2,472.79	-533.07	-573.78	633.00	2.33	2.18	-2.06
2,718.00	23.05	222.56	2,559.79	-561.22	-599.55	661.93	1.34	-1.34	0.18
2,814.00	25.77	223.21	2,647.20	-590.27	-626.55	692.19	2.85	2.83	0.68
2,909.00	25.31	222.83	2,732.92	-620.22	-654.49	723.49	0.51	-0.48	-0.40
3,003.00	25.04	221.82	2,817.99	-649.78	-681.42	753.74	0.54	-0.29	-1.07
3,098.00	25.46	228.52	2,903.93	-678.29	-710.13	785.63	3.04	0.44	7.05
3,194.00	25.06	227.41	2,990.75	-705.72	-740.56	819.10	0.65	-0.42	-1.16
3,289.00	23.27	227.12	3,077.42	-732.11	-769.12	850.59	1.89	-1.88	-0.31
3,383.00	22.02	226.78	3,164.18	-756.81	-795.57	879.79	1.34	-1.33	-0.36
3,478.00	24.21	224.61	3,251.54	-782.88	-822.23	909.35	2.47	2.31	-2.28
3,574.00	21.12	222.86	3,340.12	-809.57	-847.83	937.94	3.29	-3.22	-1.82
3,692.00	24.36	224.36	3,448.94	-842.57	-879.31	973.11	2.79	2.75	1.27
3,786.00	25.40	228.75	3,534.22	-869.72	-908.02	1,004.85	2.25	1.11	4.67
3,882.00	22.02	227.91	3,622.10	-895.37	-936.87	1,036.53	3.54	-3.52	-0.87
4,072.00	26.97	230.78	3,794.95	-946.52	-996.72	1,102.03	2.68	2.61	1.51
4,167.00	26.66	231.16	3,879.74	-973.51	-1,030.01	1,138.29	0.37	-0.33	0.40
4,262.00	26.51	230.63	3,964.69	-1,000.32	-1,063.00	1,174.23	0.30	-0.16	-0.56
4,357.00	25.61	228.77	4,050.04	-1,027.30	-1,094.83	1,209.04	1.28	-0.95	-1.96
4,453.00	23.18	229.86	4,137.46	-1,053.16	-1,124.88	1,241.95	2.57	-2.53	1.14
4,642.00	26.66	224.62	4,308.86	-1,107.34	-1,183.13	1,306.22	2.18	1.84	-2.77
4,832.00	25.95	224.26	4,479.18	-1,167.46	-1,242.08	1,371.89	0.38	-0.37	-0.19
4,927.00	24.17	222.91	4,565.24	-1,196.59	-1,269.83	1,402.90	1.97	-1.87	-1.42
5,022.00	25.42	230.07	4,651.50	-1,223.93	-1,298.72	1,434.83	3.42	1.32	7.54
5,117.00	22.16	224.63	4,738.42	-1,249.78	-1,326.95	1,465.93	4.13	-3.43	-5.73
5,211.00	21.25	227.52	4,825.76	-1,273.90	-1,351.97	1,493.64	1.49	-0.97	3.07
5,305.00	22.12	229.53	4,913.11	-1,296.89	-1,378.00	1,522.21	1.22	0.93	2.14

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well SHELTON 25W-25-16
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4861.00usft
Site:	SEC 25-T4N-R65W	MD Reference:	KB 25' @ 4861.00usft
Well:	SHELTON 25W-25-16	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.00	24.82	230.48	5,000.24	-1,321.19	-1,406.99	1,553.88	2.87	2.84	1.00
5,496.00	23.90	228.71	5,087.69	-1,346.85	-1,437.15	1,586.87	1.22	-0.96	-1.84
5,591.00	25.42	229.41	5,174.03	-1,372.81	-1,467.09	1,619.69	1.63	1.60	0.74
5,685.00	23.24	225.76	5,259.68	-1,398.88	-1,495.70	1,651.19	2.82	-2.32	-3.88
5,876.00	21.10	230.15	5,436.56	-1,447.21	-1,549.10	1,709.95	1.42	-1.12	2.30
5,970.00	22.60	227.51	5,523.81	-1,470.26	-1,575.42	1,738.81	1.91	1.60	-2.81
6,064.00	24.28	225.40	5,610.05	-1,496.03	-1,602.50	1,768.76	2.00	1.79	-2.24
6,158.00	21.70	222.93	5,696.58	-1,522.33	-1,628.10	1,797.30	2.93	-2.74	-2.63
6,254.00	23.62	227.50	5,785.17	-1,548.32	-1,654.37	1,826.47	2.71	2.00	4.76
6,349.00	20.62	223.70	5,873.17	-1,573.28	-1,679.97	1,854.85	3.50	-3.16	-4.00
6,443.00	22.84	226.29	5,960.49	-1,597.86	-1,704.59	1,882.22	2.57	2.36	2.76
6,538.00	24.33	227.19	6,047.55	-1,623.90	-1,732.28	1,912.80	1.61	1.57	0.95
6,632.00	20.67	225.34	6,134.38	-1,648.73	-1,758.29	1,941.58	3.97	-3.89	-1.97
6,726.00	20.87	226.27	6,222.27	-1,671.96	-1,782.19	1,968.07	0.41	0.21	0.99
6,822.00	21.79	228.31	6,311.70	-1,695.63	-1,807.86	1,996.36	1.23	0.96	2.12
6,916.00	24.22	230.77	6,398.22	-1,719.43	-1,835.83	2,026.96	2.78	2.59	2.62
7,011.00	24.71	230.37	6,484.69	-1,744.42	-1,866.21	2,060.10	0.54	0.52	-0.42
7,090.00	22.85	231.79	6,556.98	-1,764.45	-1,890.99	2,087.07	2.46	-2.35	1.79
KOP - 7090' MD, 6557' TVD									
7,106.00	22.48	232.10	6,571.74	-1,768.25	-1,895.84	2,092.35	2.46	-2.34	1.96
7,201.00	35.03	246.32	6,654.95	-1,790.47	-1,935.35	2,134.21	14.96	13.21	14.97
7,295.00	43.35	248.99	6,727.75	-1,812.91	-1,990.27	2,191.41	9.03	8.85	2.84
7,390.00	53.73	256.33	6,790.61	-1,833.73	-2,058.16	2,261.29	12.35	10.93	7.73
7,485.00	58.02	255.41	6,843.90	-1,852.94	-2,134.40	2,339.27	4.59	4.52	-0.97
7,580.00	64.98	260.30	6,889.22	-1,870.37	-2,215.96	2,422.32	8.61	7.33	5.15
7,674.00	69.69	260.98	6,925.43	-1,884.46	-2,301.52	2,508.95	5.05	5.01	0.72
7,768.00	79.07	266.40	6,950.73	-1,894.30	-2,391.37	2,599.33	11.42	9.98	5.77
7,853.10	85.02	269.74	6,962.51	-1,897.12	-2,475.55	2,683.26	7.99	6.99	3.92
-2465' X-OVER PNT - 7853.10' MD, 188' FSL, 2465' FWL SEC 25									
7,863.00	85.71	270.12	6,963.31	-1,897.13	-2,485.42	2,693.06	7.99	7.00	3.87
7,958.00	88.48	271.31	6,968.12	-1,895.95	-2,580.28	2,787.10	3.17	2.92	1.25
HZ LANDING PNT - 7958' MD, 6968' TVD									
8,053.00	88.96	271.07	6,970.24	-1,893.97	-2,675.24	2,881.15	0.56	0.51	-0.25
8,148.00	88.78	270.04	6,972.12	-1,893.05	-2,770.21	2,975.35	1.10	-0.19	-1.08
8,242.00	90.05	270.69	6,973.08	-1,892.46	-2,864.20	3,068.60	1.52	1.35	0.69
8,336.00	89.37	270.79	6,973.55	-1,891.24	-2,958.19	3,161.79	0.73	-0.72	0.11
8,431.00	90.25	270.89	6,973.87	-1,889.85	-3,053.18	3,255.94	0.93	0.93	0.11
8,526.00	86.75	270.70	6,976.36	-1,888.53	-3,148.13	3,350.05	3.69	-3.68	-0.20
8,621.00	86.50	270.51	6,981.95	-1,887.53	-3,242.96	3,444.09	0.33	-0.26	-0.20
8,716.00	86.97	270.31	6,987.36	-1,886.85	-3,337.80	3,538.19	0.54	0.49	-0.21
8,811.00	87.42	269.77	6,992.01	-1,886.79	-3,432.68	3,632.39	0.74	0.47	-0.57
8,906.00	88.28	269.80	6,995.57	-1,887.14	-3,527.62	3,726.70	0.91	0.91	0.03
9,001.00	87.38	269.71	6,999.17	-1,887.55	-3,622.55	3,821.00	0.95	-0.95	-0.09
9,096.00	90.41	269.76	7,001.00	-1,887.99	-3,717.52	3,915.35	3.19	3.19	0.05

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well SHELTON 25W-25-16
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4861.00usft
Site:	SEC 25-T4N-R65W	MD Reference:	KB 25' @ 4861.00usft
Well:	SHELTON 25W-25-16	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,190.00	90.09	269.51	7,000.59	-1,888.59	-3,811.51	4,008.76	0.43	-0.34	-0.27
9,285.00	89.68	269.11	7,000.78	-1,889.73	-3,906.51	4,103.21	0.60	-0.43	-0.42
9,380.00	90.85	270.52	7,000.34	-1,890.04	-4,001.50	4,197.57	1.93	1.23	1.48
9,569.00	90.45	269.25	6,998.20	-1,890.42	-4,190.48	4,385.26	0.70	-0.21	-0.67
9,664.00	91.26	271.65	6,996.78	-1,889.67	-4,285.46	4,479.48	2.67	0.85	2.53
9,759.00	91.43	271.64	6,994.55	-1,886.94	-4,380.40	4,573.42	0.18	0.18	-0.01
9,854.00	89.78	272.21	6,993.55	-1,883.75	-4,475.33	4,667.31	1.84	-1.74	0.60
9,948.00	89.20	271.77	6,994.38	-1,880.49	-4,569.27	4,760.20	0.77	-0.62	-0.47
10,044.00	89.03	271.82	6,995.87	-1,877.48	-4,665.21	4,855.10	0.18	-0.18	0.05
10,138.00	88.82	271.91	6,997.63	-1,874.42	-4,759.15	4,948.01	0.24	-0.22	0.10
10,233.00	88.71	271.57	6,999.68	-1,871.54	-4,854.08	5,041.93	0.38	-0.12	-0.36
10,329.00	88.89	271.81	7,001.69	-1,868.71	-4,950.02	5,136.85	0.31	0.19	0.25
10,422.00	89.32	271.81	7,003.14	-1,865.77	-5,042.96	5,228.79	0.46	0.46	0.00
10,517.00	89.85	272.13	7,003.83	-1,862.51	-5,137.90	5,322.67	0.65	0.56	0.34
10,611.00	89.01	269.06	7,004.76	-1,861.53	-5,231.88	5,415.87	3.39	-0.89	-3.27
10,706.00	89.74	269.15	7,005.80	-1,863.01	-5,326.86	5,510.35	0.77	0.77	0.09
10,801.00	90.22	269.29	7,005.83	-1,864.31	-5,421.85	5,604.83	0.53	0.51	0.15
10,896.00	90.62	269.81	7,005.14	-1,865.05	-5,516.85	5,699.24	0.69	0.42	0.55
10,991.00	89.15	267.56	7,005.33	-1,867.23	-5,611.81	5,793.79	2.83	-1.55	-2.37
11,086.00	89.67	268.16	7,006.31	-1,870.78	-5,706.74	5,888.47	0.84	0.55	0.63
11,181.00	90.39	268.66	7,006.26	-1,873.42	-5,801.70	5,983.07	0.92	0.76	0.53
11,275.00	90.93	268.26	7,005.17	-1,875.94	-5,895.66	6,076.67	0.71	0.57	-0.43
11,370.00	89.18	269.36	7,005.08	-1,877.92	-5,990.64	6,171.21	2.18	-1.84	1.16
11,465.00	89.86	268.49	7,005.88	-1,879.70	-6,085.62	6,265.72	1.16	0.72	-0.92
11,560.00	88.84	271.40	7,006.96	-1,879.79	-6,180.60	6,360.05	3.25	-1.07	3.06
11,654.00	89.07	271.03	7,008.67	-1,877.80	-6,274.56	6,453.11	0.46	0.24	-0.39
11,750.00	90.37	271.96	7,009.14	-1,875.29	-6,370.52	6,548.09	1.66	1.35	0.97
11,845.00	87.24	273.05	7,011.12	-1,871.14	-6,465.40	6,641.81	3.49	-3.29	1.15
11,939.00	87.35	273.45	7,015.56	-1,865.82	-6,559.14	6,734.26	0.44	0.12	0.43
12,034.00	87.50	272.89	7,019.83	-1,860.57	-6,653.90	6,827.72	0.61	0.16	-0.59
12,130.00	87.76	272.58	7,023.79	-1,855.99	-6,749.71	6,922.31	0.42	0.27	-0.32
12,225.00	88.02	269.78	7,027.29	-1,854.04	-6,844.62	7,016.31	2.96	0.27	-2.95
12,320.00	90.14	269.68	7,028.82	-1,854.49	-6,939.60	7,110.67	2.23	2.23	-0.11
12,416.00	90.82	269.82	7,028.01	-1,854.91	-7,035.59	7,206.04	0.72	0.71	0.15
12,511.00	91.63	269.73	7,025.98	-1,855.28	-7,130.57	7,300.39	0.86	0.85	-0.09
12,606.00	89.35	269.05	7,025.17	-1,856.29	-7,225.55	7,394.82	2.50	-2.40	-0.72
12,701.00	89.01	266.08	7,026.53	-1,860.32	-7,320.45	7,489.52	3.15	-0.36	-3.13
12,891.00	92.20	270.52	7,024.52	-1,865.96	-7,510.28	7,678.68	2.88	1.68	2.34
13,081.00	88.10	270.98	7,024.03	-1,863.47	-7,700.22	7,866.99	2.17	-2.16	0.24
13,177.00	88.09	271.34	7,027.22	-1,861.53	-7,796.15	7,962.01	0.37	-0.01	0.37
13,272.00	88.64	270.53	7,029.93	-1,859.98	-7,891.10	8,056.10	1.03	0.58	-0.85
13,367.00	88.55	270.23	7,032.26	-1,859.35	-7,986.07	8,150.32	0.33	-0.09	-0.32
13,462.00	88.96	270.54	7,034.32	-1,858.71	-8,081.04	8,244.55	0.54	0.43	0.33

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well SHELTON 25W-25-16
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4861.00usft
Site:	SEC 25-T4N-R65W	MD Reference:	KB 25' @ 4861.00usft
Well:	SHELTON 25W-25-16	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
13,557.00	89.25	270.36	7,035.81	-1,857.97	-8,176.03	8,338.77	0.36	0.31	-0.19	
13,653.00	89.80	270.29	7,036.60	-1,857.42	-8,272.02	8,434.03	0.58	0.57	-0.07	
13,748.00	90.53	270.18	7,036.33	-1,857.03	-8,367.02	8,528.31	0.78	0.77	-0.12	
13,843.00	91.09	269.70	7,034.99	-1,857.13	-8,462.01	8,622.64	0.78	0.59	-0.51	
13,939.00	91.55	269.77	7,032.77	-1,857.58	-8,557.98	8,717.98	0.48	0.48	0.07	
14,034.00	89.78	270.17	7,031.67	-1,857.63	-8,652.97	8,812.31	1.91	-1.86	0.42	
14,129.00	89.77	269.54	7,032.04	-1,857.87	-8,747.97	8,906.66	0.66	-0.01	-0.66	
14,223.00	89.53	267.24	7,032.62	-1,860.51	-8,841.93	9,000.27	2.46	-0.26	-2.45	
14,317.00	89.65	269.25	7,033.29	-1,863.39	-8,935.87	9,093.89	2.14	0.13	2.14	
14,413.00	89.57	267.86	7,033.94	-1,865.81	-9,031.84	9,189.47	1.45	-0.08	-1.45	
14,508.00	89.54	268.82	7,034.68	-1,868.56	-9,126.80	9,284.08	1.01	-0.03	1.01	
14,603.00	89.38	269.18	7,035.58	-1,870.22	-9,221.78	9,378.58	0.41	-0.17	0.38	
14,698.00	90.29	270.70	7,035.85	-1,870.32	-9,316.77	9,472.92	1.86	0.96	1.60	
14,793.00	91.25	270.50	7,034.57	-1,869.32	-9,411.76	9,567.11	1.03	1.01	-0.21	
14,888.00	91.71	269.94	7,032.12	-1,868.96	-9,506.72	9,661.37	0.76	0.48	-0.59	
14,983.00	90.13	272.03	7,030.60	-1,867.32	-9,601.69	9,755.47	2.76	-1.66	2.20	
15,172.00	91.45	271.15	7,027.99	-1,862.08	-9,790.59	9,942.41	0.84	0.70	-0.47	
15,268.00	88.57	272.62	7,027.97	-1,858.92	-9,886.53	10,037.29	3.37	-3.00	1.53	
15,362.00	88.76	272.23	7,030.16	-1,854.95	-9,980.42	10,130.05	0.46	0.20	-0.41	
15,458.00	89.96	272.87	7,031.24	-1,850.68	-10,076.32	10,224.76	1.42	1.25	0.67	
15,553.00	90.38	272.79	7,030.95	-1,845.99	-10,171.20	10,318.42	0.45	0.44	-0.08	
15,647.00	89.35	271.63	7,031.17	-1,842.36	-10,265.13	10,411.25	1.65	-1.10	-1.23	
15,741.00	90.09	271.72	7,031.63	-1,839.61	-10,359.08	10,504.22	0.79	0.79	0.10	
15,931.00	88.42	271.60	7,034.10	-1,834.11	-10,548.98	10,692.12	0.88	-0.88	-0.06	
16,025.00	88.55	271.01	7,036.59	-1,831.97	-10,642.92	10,785.14	0.64	0.14	-0.63	
16,120.00	88.71	270.84	7,038.86	-1,830.44	-10,737.88	10,879.25	0.25	0.17	-0.18	
16,216.00	88.87	268.60	7,040.89	-1,830.91	-10,833.86	10,974.60	2.34	0.17	-2.33	
16,311.00	89.16	268.70	7,042.52	-1,833.14	-10,928.82	11,069.15	0.32	0.31	0.11	
16,406.00	89.58	267.92	7,043.57	-1,835.95	-11,023.77	11,163.76	0.93	0.44	-0.82	
16,501.00	90.57	268.61	7,043.44	-1,838.82	-11,118.72	11,258.39	1.27	1.04	0.73	
16,596.00	90.94	268.14	7,042.19	-1,841.52	-11,213.67	11,352.99	0.63	0.39	-0.49	
16,691.00	89.08	268.56	7,042.17	-1,844.25	-11,308.63	11,447.60	2.01	-1.96	0.44	
16,785.00	89.00	268.87	7,043.75	-1,846.36	-11,402.59	11,541.15	0.34	-0.09	0.33	
16,881.00	89.70	269.12	7,044.84	-1,848.04	-11,498.57	11,636.65	0.77	0.73	0.26	
16,975.00	90.15	268.87	7,044.96	-1,849.69	-11,592.56	11,730.16	0.55	0.48	-0.27	
17,070.00	90.89	268.23	7,044.10	-1,852.09	-11,687.52	11,824.74	1.03	0.78	-0.67	
17,165.00	90.01	269.84	7,043.35	-1,853.69	-11,782.50	11,919.24	1.93	-0.93	1.69	
17,260.00	90.63	270.01	7,042.82	-1,853.82	-11,877.50	12,013.58	0.68	0.65	0.18	
17,355.00	89.08	268.96	7,043.06	-1,854.67	-11,972.49	12,108.00	1.97	-1.63	-1.11	
17,450.00	89.20	268.66	7,044.49	-1,856.65	-12,067.46	12,202.53	0.34	0.13	-0.32	
17,545.00	90.13	268.84	7,045.04	-1,858.72	-12,162.43	12,297.08	1.00	0.98	0.19	
17,641.00	88.74	271.38	7,045.99	-1,858.53	-12,258.42	12,392.37	3.02	-1.45	2.65	
17,736.00	88.75	271.45	7,048.07	-1,856.19	-12,353.37	12,486.37	0.07	0.01	0.07	

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well SHELTON 25W-25-16
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4861.00usft
Site:	SEC 25-T4N-R65W	MD Reference:	KB 25' @ 4861.00usft
Well:	SHELTON 25W-25-16	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
17,831.00	89.35	270.31	7,049.65	-1,854.73	-12,448.34	12,580.49	1.36	0.63	-1.20
17,926.00	90.22	269.95	7,050.00	-1,854.51	-12,543.34	12,674.79	0.99	0.92	-0.38
18,021.00	88.13	269.41	7,051.37	-1,855.04	-12,638.32	12,769.17	2.27	-2.20	-0.57
18,116.00	89.39	269.38	7,053.43	-1,856.05	-12,733.29	12,863.59	1.33	1.33	-0.03
18,211.00	89.98	269.09	7,053.95	-1,857.32	-12,828.28	12,958.06	0.69	0.62	-0.31
18,305.00	88.34	270.82	7,055.33	-1,857.39	-12,922.27	13,051.38	2.54	-1.74	1.84
18,400.00	88.08	270.39	7,058.29	-1,856.39	-13,017.21	13,145.54	0.53	-0.27	-0.45
18,494.00	88.21	270.12	7,061.34	-1,855.97	-13,111.16	13,238.78	0.32	0.14	-0.29
18,589.00	88.72	269.94	7,063.88	-1,855.92	-13,206.13	13,333.06	0.57	0.54	-0.19
18,683.00	88.32	269.26	7,066.31	-1,856.58	-13,300.09	13,426.44	0.84	-0.43	-0.72
18,778.00	88.58	271.05	7,068.88	-1,856.32	-13,395.06	13,520.70	1.90	0.27	1.88
18,873.00	88.83	270.75	7,071.03	-1,854.83	-13,490.02	13,614.82	0.41	0.26	-0.32
18,968.00	89.13	270.11	7,072.72	-1,854.11	-13,585.00	13,709.04	0.74	0.32	-0.67
19,063.00	89.57	269.18	7,073.80	-1,854.70	-13,679.99	13,803.43	1.08	0.46	-0.98
19,159.00	89.63	271.35	7,074.47	-1,854.26	-13,775.98	13,898.69	2.26	0.06	2.26
19,253.00	90.10	270.77	7,074.69	-1,852.52	-13,869.97	13,991.80	0.79	0.50	-0.62
19,348.00	90.48	270.21	7,074.21	-1,851.71	-13,964.96	14,086.03	0.71	0.40	-0.59
19,443.00	90.25	269.50	7,073.60	-1,851.95	-14,059.96	14,180.38	0.79	-0.24	-0.75
19,538.00	90.45	270.94	7,073.02	-1,851.58	-14,154.95	14,274.66	1.53	0.21	1.52
19,633.00	90.65	270.02	7,072.11	-1,850.79	-14,249.94	14,368.89	0.99	0.21	-0.97
19,728.00	91.13	269.89	7,070.63	-1,850.86	-14,344.93	14,463.21	0.52	0.51	-0.14
19,823.00	91.43	268.61	7,068.51	-1,852.10	-14,439.90	14,557.66	1.38	0.32	-1.35
19,919.00	90.42	271.46	7,066.96	-1,852.05	-14,535.87	14,652.95	3.15	-1.05	2.97
20,014.00	91.39	271.37	7,065.46	-1,849.70	-14,630.83	14,746.96	1.03	1.02	-0.09
20,109.00	89.05	271.53	7,065.10	-1,847.30	-14,725.79	14,840.96	2.47	-2.46	0.17
20,204.00	89.73	271.72	7,066.11	-1,844.60	-14,820.75	14,934.93	0.74	0.72	0.20
20,300.00	88.41	272.14	7,067.67	-1,841.37	-14,916.68	15,029.79	1.44	-1.37	0.44
20,394.00	88.64	272.52	7,070.08	-1,837.55	-15,010.57	15,122.57	0.47	0.24	0.40
20,489.00	89.39	271.28	7,071.72	-1,834.40	-15,105.50	15,216.45	1.53	0.79	-1.31
20,584.00	90.60	269.48	7,071.73	-1,833.77	-15,200.50	15,310.70	2.28	1.27	-1.89
LAST SURVEY - 20584' MD, 7072' TVD									
20,733.00	90.60	269.48	7,070.17	-1,835.12	-15,349.48	15,458.79	0.00	0.00	0.00
EXTRAPOLATION TO TD - 20733' MD, 186' FSL, 150' FWL SEC 27									

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well SHELTON 25W-25-16
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4861.00usft
Site:	SEC 25-T4N-R65W	MD Reference:	KB 25' @ 4861.00usft
Well:	SHELTON 25W-25-16	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LP-SHELTON 25W-16 - actual wellpath misses target center by 26.14usft at 7854.14usft MD (6962.60 TVD, -1897.12 N, -2476.59 E) - Point	0.00	0.00	6,975.00	-1,920.12	-2,475.55	1,344,781.37	3,247,691.06	40.276421°N	104.612261°W
PBHL-SHELTON 25W-1 - actual wellpath misses target center by 58.84usft at 20732.82usft MD (7070.17 TVD, -1835.12 N, -15349.30 E) - Point	0.00	0.00	7,125.00	-1,856.46	-15,349.68	1,344,714.85	3,234,817.50	40.276583°N	104.658400°W

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
7,090.00	6,556.98	-1,764.45	-1,890.99	KOP - 7090' MD, 6557' TVD	
7,853.10	6,962.51	-1,897.12	-2,475.55	~2465' X-OVER PNT - 7853.10' MD, 188' FSL, 2465' FWL SEC 25	
7,958.00	6,968.12	-1,895.95	-2,580.28	HZ LANDING PNT - 7958' MD, 6968' TVD	
20,584.00	7,071.73	-1,833.77	-15,200.50	LAST SURVEY - 20584' MD, 7072' TVD	
20,733.00	7,070.17	-1,835.12	-15,349.48	EXTRAPOLATION TO TD - 20733' MD, 186' FSL, 150' FWL SEC 27	

Checked By: _____	Approved By: _____	Date: _____
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