

CRESTONE PEAK RESOURCES

WELD COUNTY

SEC 25-T4N-R65W

SHELTON 25W-25-15

OWB

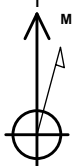
Design: FINAL SURVEY

Standard Survey Report

24 January, 2023

Project: WELD COUNTY
Site: SEC 25-T4N-R65W
Well: SHELTON 25W-25-15
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



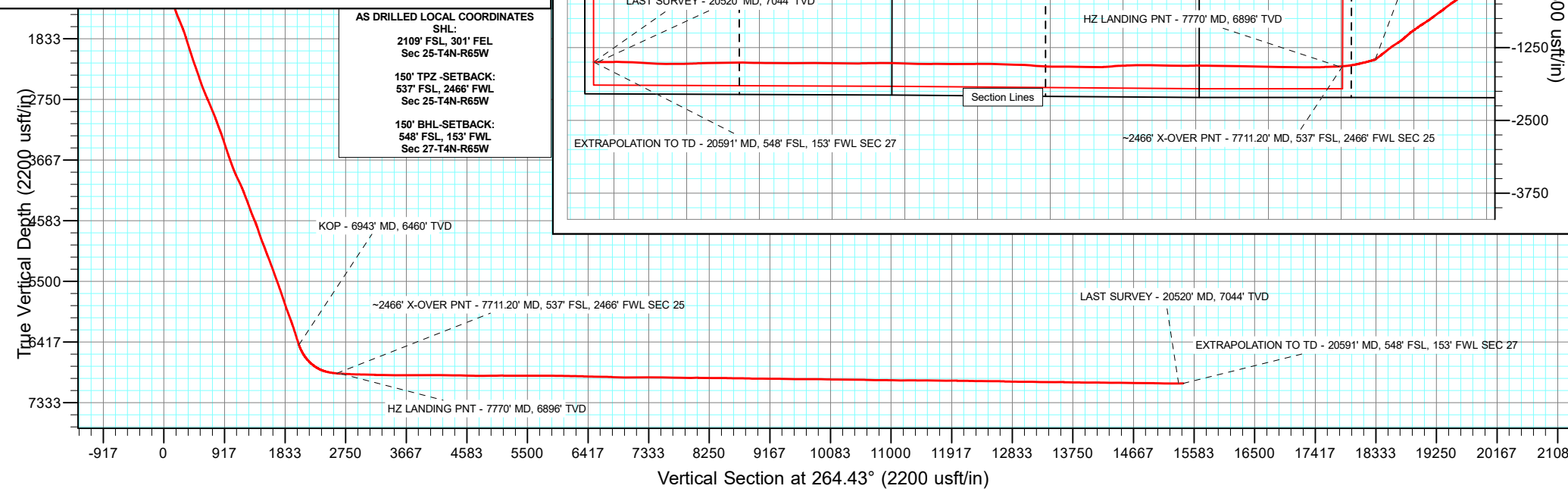
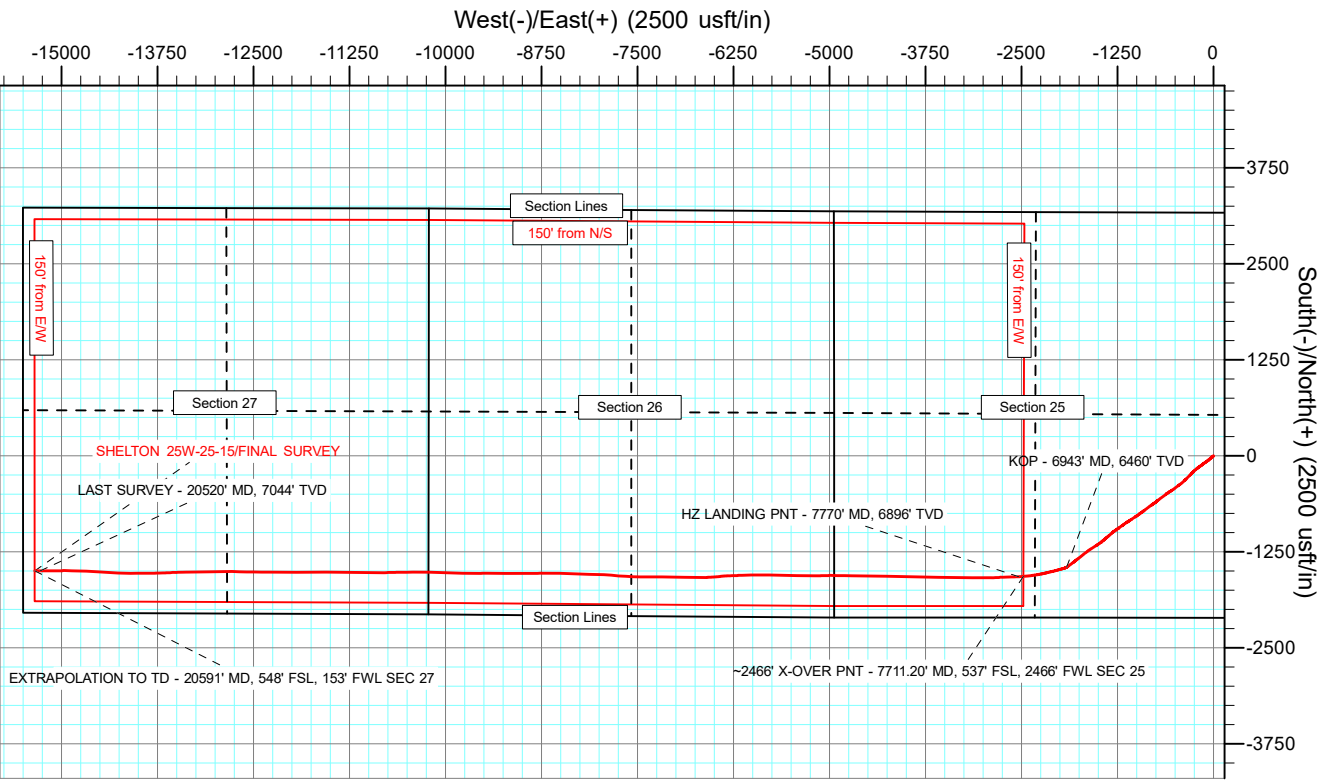
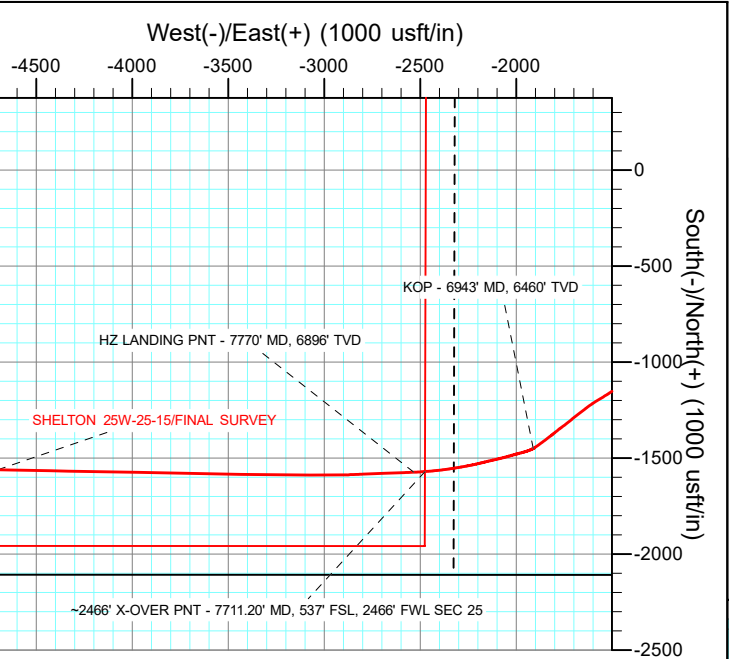
Azimuths to True North
Magnetic North: 7.62°
Magnetic Field
Strength: 51773.3nT
Dip Angle: 66.53°
Date: 9/26/2022
Model: IGRF2020

WELL DETAILS: SHELTON 25W-25-15

+N/-S	+E/-W	Northing	Easting	4835.00	Latitude	Longitude	Slot
0.00	0.00	1346748.92	3250146.74		40.281754°N	104.603389°W	

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
6943.00	21.12	241.13	6460.08	-1449.43	-1910.56	2042.22	2406.39	KOP - 6943' MD, 6460' TVD
7711.20	64.56	265.83	6891.19	-1569.49	-2474.68	2615.34	2984.26	~2466' X-OVER PNT - 7711.20' MD, 537' FSL, 2466' FWL SEC 25
7770.00	86.47	267.37	6895.77	-1572.95	-2533.20	2673.91	3042.83	HZ LANDING PNT - 7770' MD, 6896' TVD
20520.00	91.07	270.06	7044.08	-1496.78	-15276.17	15349.32	15790.80	LAST SURVEY - 20520' MD, 7044' TVD
20591.00	91.07	270.06	7042.75	-1496.71	-15347.15	15419.96	15861.79	EXTRAPOLATION TO TD - 20591' MD, 548' FSL, 153' FWL SEC 27



AS DRILLED LOCAL COORDINATES
SHL:
2109' FSL, 301' FEL
Sec 25-T4N-R65W
150' TPZ -SETBACK:
537' FSL, 2466' FWL
Sec 25-T4N-R65W
150' BHL-SETBACK:
548' FSL, 153' FWL
Sec 27-T4N-R65W

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well SHELTON 25W-25-15
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4860.00usft
Site:	SEC 25-T4N-R65W	MD Reference:	KB 25' @ 4860.00usft
Well:	SHELTON 25W-25-15	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-25-15					
Well Position	+N/-S	0.00 usft	Northing:	1,346,748.92 usft	Latitude:	40.281754°N
	+E/-W	0.00 usft	Easting:	3,250,146.74 usft	Longitude:	104.603389°W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,835.00 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	9/26/2022	7.62	66.53	51,773.26624734

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	264.43	

Survey Program	Date	1/24/2023			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
152.00	1,885.00	SURFACE (OWB)	MWD OWSG	OWSG MWD - Standard	
2,055.00	20,591.00	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	131.20	151.99	-0.79	0.90	-0.82	0.59	0.59	0.00	
243.00	0.60	178.10	242.99	-1.73	1.45	-1.28	0.72	-0.33	51.54	
335.00	1.60	248.70	334.97	-2.68	0.27	-0.01	1.64	1.09	76.74	
427.00	3.30	236.50	426.88	-4.61	-3.13	3.57	1.92	1.85	-13.26	
517.00	5.70	239.40	516.60	-8.31	-9.14	9.91	2.68	2.67	3.22	
606.00	7.70	231.10	604.99	-14.31	-17.59	18.89	2.49	2.25	-9.33	
698.00	9.30	230.40	695.98	-22.92	-28.11	30.20	1.74	1.74	-0.76	
787.00	10.80	228.70	783.61	-33.01	-39.92	42.93	1.72	1.69	-1.91	
877.00	9.60	224.80	872.19	-43.90	-51.54	55.56	1.54	-1.33	-4.33	

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well SHELTON 25W-25-15
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4860.00usft
Site:	SEC 25-T4N-R65W	MD Reference:	KB 25' @ 4860.00usft
Well:	SHELTON 25W-25-15	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	10.40	230.50	963.77	-54.74	-63.48	68.50	1.37	0.86	6.13
1,060.00	12.30	234.60	1,052.01	-65.46	-77.57	83.56	2.29	2.11	4.56
1,149.00	14.00	235.10	1,138.68	-77.11	-94.13	101.17	1.91	1.91	0.56
1,242.00	16.40	235.50	1,228.42	-90.99	-114.17	122.47	2.58	2.58	0.43
1,332.00	19.00	232.10	1,314.15	-107.19	-136.21	145.97	3.11	2.89	-3.78
1,421.00	21.80	234.00	1,397.56	-125.80	-161.02	172.47	3.23	3.15	2.13
1,512.00	24.60	235.10	1,481.19	-146.58	-190.23	203.56	3.11	3.08	1.21
1,602.00	27.10	231.00	1,562.19	-170.20	-221.53	237.00	3.41	2.78	-4.56
1,694.00	27.30	227.20	1,644.02	-197.73	-253.30	271.29	1.90	0.22	-4.13
1,786.00	24.80	223.50	1,726.67	-226.06	-282.07	302.68	3.24	-2.72	-4.02
1,878.00	23.60	225.40	1,810.59	-252.99	-308.46	331.56	1.55	-1.30	2.07
1,885.00	22.70	225.00	1,817.02	-254.93	-310.41	333.69	13.05	-12.86	-5.71
2,055.00	22.07	222.82	1,974.22	-301.55	-355.32	382.91	0.61	-0.37	-1.28
2,150.00	21.42	229.71	2,062.47	-325.87	-380.69	410.52	2.77	-0.68	7.25
2,244.00	22.20	229.99	2,149.74	-348.38	-407.38	439.27	0.84	0.83	0.30
2,340.00	23.32	232.16	2,238.27	-371.70	-436.28	470.30	1.46	1.17	2.26
2,435.00	21.66	232.97	2,326.04	-393.80	-465.13	501.15	1.78	-1.75	0.85
2,530.00	21.72	232.98	2,414.31	-414.94	-493.16	531.11	0.06	0.06	0.01
2,623.00	22.37	235.50	2,500.51	-435.32	-521.48	561.28	1.23	0.70	2.71
2,718.00	23.42	238.05	2,588.03	-455.56	-552.40	594.01	1.52	1.11	2.68
2,813.00	25.11	237.15	2,674.64	-476.48	-585.36	628.84	1.82	1.78	-0.95
2,908.00	27.28	232.69	2,759.88	-500.62	-619.62	665.28	3.08	2.28	-4.69
3,098.00	26.10	232.66	2,929.63	-552.36	-687.48	737.85	0.62	-0.62	-0.02
3,194.00	24.89	232.28	3,016.28	-577.53	-720.25	772.91	1.27	-1.26	-0.40
3,289.00	22.25	231.93	3,103.35	-600.86	-750.23	805.01	2.78	-2.78	-0.37
3,383.00	24.41	235.57	3,189.67	-622.81	-780.27	837.03	2.76	2.30	3.87
3,478.00	21.81	234.95	3,277.03	-644.05	-810.91	869.59	2.75	-2.74	-0.65
3,573.00	21.11	234.22	3,365.45	-664.19	-839.24	899.74	0.79	-0.74	-0.77
3,692.00	21.47	232.29	3,476.33	-690.04	-873.85	936.70	0.66	0.30	-1.62
3,786.00	21.91	231.55	3,563.67	-711.47	-901.19	966.00	0.55	0.47	-0.79
3,882.00	21.74	237.12	3,652.80	-732.26	-930.16	996.84	2.16	-0.18	5.80
3,977.00	23.18	232.80	3,740.60	-753.12	-959.83	1,028.40	2.30	1.52	-4.55
4,072.00	25.18	234.34	3,827.26	-776.21	-991.14	1,061.80	2.21	2.11	1.62
4,167.00	27.95	237.41	3,912.23	-799.99	-1,026.33	1,099.13	3.25	2.92	3.23
4,262.00	28.22	237.47	3,996.04	-824.06	-1,064.02	1,138.99	0.29	0.28	0.06
4,357.00	26.43	236.68	4,080.44	-847.75	-1,100.63	1,177.72	1.92	-1.88	-0.83
4,452.00	23.07	235.87	4,166.70	-869.81	-1,133.72	1,212.79	3.55	-3.54	-0.85
4,546.00	24.68	235.09	4,252.65	-891.38	-1,165.06	1,246.08	1.75	1.71	-0.83
4,642.00	22.42	234.51	4,340.65	-913.48	-1,196.40	1,279.42	2.37	-2.35	-0.60
4,737.00	22.75	234.28	4,428.37	-934.72	-1,226.07	1,311.00	0.36	0.35	-0.24
4,832.00	25.01	235.95	4,515.23	-956.69	-1,257.62	1,344.54	2.48	2.38	1.76
4,927.00	26.48	232.53	4,600.80	-980.82	-1,291.07	1,380.18	2.20	1.55	-3.60
5,022.00	22.19	229.60	4,687.34	-1,005.35	-1,321.56	1,412.90	4.69	-4.52	-3.08

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well SHELTON 25W-25-15
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4860.00usft
Site:	SEC 25-T4N-R65W	MD Reference:	KB 25' @ 4860.00usft
Well:	SHELTON 25W-25-15	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)
5,117.00	22.23	228.78	4,775.30	-1,028.82	-1,348.74	1,442.23	0.33	0.04	-0.86
5,211.00	23.94	230.78	4,861.77	-1,052.60	-1,376.89	1,472.56	2.00	1.82	2.13
5,305.00	26.10	230.47	4,946.94	-1,077.82	-1,407.62	1,505.59	2.30	2.30	-0.33
5,400.00	24.15	227.32	5,032.95	-1,104.30	-1,438.03	1,538.42	2.49	-2.05	-3.32
5,495.00	24.73	235.15	5,119.46	-1,128.83	-1,468.63	1,571.26	3.46	0.61	8.24
5,591.00	23.27	234.80	5,207.16	-1,151.24	-1,500.61	1,605.26	1.53	-1.52	-0.36
5,685.00	22.47	237.99	5,293.77	-1,171.47	-1,531.01	1,637.49	1.57	-0.85	3.39
5,781.00	22.03	238.85	5,382.62	-1,190.50	-1,561.98	1,670.16	0.57	-0.46	0.90
5,876.00	21.80	237.68	5,470.76	-1,209.15	-1,592.13	1,701.98	0.52	-0.24	-1.23
5,969.00	22.49	234.45	5,556.90	-1,228.73	-1,621.20	1,732.81	1.50	0.74	-3.47
6,064.00	22.23	231.74	5,644.76	-1,250.42	-1,650.10	1,763.67	1.12	-0.27	-2.85
6,158.00	21.79	232.54	5,731.91	-1,272.04	-1,677.91	1,793.45	0.57	-0.47	0.85
6,254.00	22.15	230.49	5,820.94	-1,294.39	-1,706.01	1,823.59	0.88	0.37	-2.14
6,348.00	22.66	231.43	5,907.84	-1,316.96	-1,733.84	1,853.48	0.66	0.54	1.00
6,443.00	23.23	234.04	5,995.33	-1,339.37	-1,763.32	1,884.99	1.23	0.60	2.75
6,537.00	24.38	230.94	6,081.34	-1,362.48	-1,793.39	1,917.17	1.81	1.22	-3.30
6,632.00	21.52	232.61	6,168.81	-1,385.42	-1,822.46	1,948.33	3.09	-3.01	1.76
6,726.00	20.92	232.95	6,256.43	-1,406.00	-1,849.55	1,977.29	0.65	-0.64	0.36
6,822.00	20.03	233.25	6,346.37	-1,426.17	-1,876.41	2,005.98	0.93	-0.93	0.31
6,916.00	19.70	236.41	6,434.78	-1,444.56	-1,902.50	2,033.73	1.19	-0.35	3.36
6,943.00	21.12	241.13	6,460.08	-1,449.43	-1,910.56	2,042.22	8.05	5.27	17.47
KOP - 6943' MD, 6460' TVD									
7,011.00	25.17	250.56	6,522.62	-1,460.17	-1,934.94	2,067.53	8.05	5.95	13.87
7,106.00	32.03	255.75	6,605.99	-1,473.11	-1,978.47	2,112.11	7.67	7.22	5.46
7,201.00	41.50	253.73	6,682.01	-1,488.17	-2,033.23	2,168.07	10.05	9.97	-2.13
7,295.00	49.61	257.51	6,747.79	-1,504.66	-2,098.19	2,234.33	9.09	8.63	4.02
7,390.00	58.23	255.92	6,803.68	-1,522.35	-2,172.83	2,310.33	9.17	9.07	-1.67
7,485.00	69.04	259.34	6,845.82	-1,540.43	-2,255.86	2,394.72	11.82	11.38	3.60
7,579.00	78.38	261.53	6,872.16	-1,555.37	-2,344.73	2,484.63	10.18	9.94	2.33
7,674.00	83.32	264.83	6,887.27	-1,566.48	-2,437.82	2,578.35	6.23	5.20	3.47
7,711.20	84.56	265.83	6,891.19	-1,569.49	-2,474.68	2,615.34	4.27	3.33	2.69
~2466' X-OVER PNT - 7711.20' MD, 537' FSL, 2466' FWL SEC 25									
7,768.00	86.45	267.35	6,895.65	-1,572.86	-2,531.21	2,671.92	4.27	3.33	2.68
7,770.00	86.47	267.37	6,895.77	-1,572.95	-2,533.20	2,673.91	1.31	1.01	0.83
HZ LANDING PNT - 7770' MD, 6896' TVD									
7,863.00	87.41	268.14	6,900.74	-1,576.59	-2,625.99	2,766.62	1.31	1.01	0.83
7,958.00	87.99	268.01	6,904.55	-1,579.78	-2,720.86	2,861.35	0.63	0.61	-0.14
8,053.00	88.95	266.94	6,907.08	-1,583.96	-2,815.74	2,956.18	1.51	1.01	-1.13
8,148.00	88.26	269.78	6,909.40	-1,586.68	-2,910.66	3,050.92	3.08	-0.73	2.99
8,242.00	88.19	269.41	6,912.31	-1,587.35	-3,004.61	3,144.50	0.40	-0.07	-0.39
8,336.00	89.11	270.67	6,914.52	-1,587.28	-3,098.58	3,238.02	1.66	0.98	1.34
8,431.00	88.74	269.69	6,916.31	-1,586.98	-3,193.56	3,332.52	1.10	-0.39	-1.03
8,526.00	89.47	270.80	6,917.79	-1,586.58	-3,288.55	3,427.02	1.40	0.77	1.17
8,621.00	89.85	271.22	6,918.35	-1,584.90	-3,383.53	3,521.39	0.60	0.40	0.44

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well SHELTON 25W-25-15
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4860.00usft
Site:	SEC 25-T4N-R65W	MD Reference:	KB 25' @ 4860.00usft
Well:	SHELTON 25W-25-15	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)
8,716.00	90.02	270.91	6,918.46	-1,583.14	-3,478.51	3,615.75	0.37	0.18	-0.33
8,811.00	89.98	271.33	6,918.46	-1,581.28	-3,573.50	3,710.11	0.44	-0.04	0.44
8,906.00	90.17	270.78	6,918.34	-1,579.53	-3,668.48	3,804.47	0.61	0.20	-0.58
9,001.00	90.72	271.18	6,917.60	-1,577.90	-3,763.46	3,898.85	0.72	0.58	0.42
9,096.00	91.04	270.64	6,916.14	-1,576.40	-3,858.44	3,993.23	0.66	0.34	-0.57
9,190.00	88.88	271.40	6,916.21	-1,574.72	-3,952.42	4,086.60	2.44	-2.30	0.81
9,285.00	89.15	271.43	6,917.84	-1,572.38	-4,047.37	4,180.88	0.29	0.28	0.03
9,380.00	89.08	271.05	6,919.31	-1,570.32	-4,142.34	4,275.20	0.41	-0.07	-0.40
9,475.00	89.15	270.79	6,920.77	-1,568.80	-4,237.32	4,369.58	0.28	0.07	-0.27
9,569.00	89.18	270.98	6,922.14	-1,567.34	-4,331.30	4,462.98	0.20	0.03	0.20
9,664.00	88.81	271.23	6,923.81	-1,565.51	-4,426.26	4,557.32	0.47	-0.39	0.26
9,759.00	88.47	271.04	6,926.06	-1,563.63	-4,521.22	4,651.64	0.41	-0.36	-0.20
9,854.00	89.89	271.15	6,927.42	-1,561.82	-4,616.19	4,745.99	1.50	1.49	0.12
9,948.00	90.23	270.08	6,927.33	-1,560.81	-4,710.18	4,839.44	1.19	0.36	-1.14
10,043.00	90.63	271.19	6,926.61	-1,559.75	-4,805.17	4,933.88	1.24	0.42	1.17
10,138.00	91.11	271.10	6,925.17	-1,557.86	-4,900.14	5,028.21	0.51	0.51	-0.09
10,233.00	89.42	269.45	6,924.73	-1,557.40	-4,995.13	5,122.71	2.49	-1.78	-1.74
10,328.00	89.96	268.09	6,925.25	-1,559.44	-5,090.11	5,217.44	1.54	0.57	-1.43
10,422.00	89.20	270.99	6,925.93	-1,560.19	-5,184.09	5,311.05	3.19	-0.81	3.09
10,517.00	89.71	270.55	6,926.84	-1,558.92	-5,279.08	5,405.46	0.71	0.54	-0.46
10,706.00	91.01	269.93	6,925.65	-1,558.13	-5,468.07	5,593.48	0.76	0.69	-0.33
10,801.00	89.65	271.65	6,925.10	-1,556.82	-5,563.05	5,687.89	2.31	-1.43	1.81
10,896.00	90.09	271.86	6,925.32	-1,553.91	-5,658.00	5,782.12	0.51	0.46	0.22
10,991.00	88.83	270.52	6,926.21	-1,551.93	-5,752.98	5,876.45	1.94	-1.33	-1.41
11,086.00	89.48	271.28	6,927.62	-1,550.44	-5,847.95	5,970.83	1.05	0.68	0.80
11,181.00	88.21	269.18	6,929.53	-1,550.06	-5,942.93	6,065.32	2.58	-1.34	-2.21
11,275.00	88.65	268.05	6,932.11	-1,552.33	-6,036.86	6,159.03	1.29	0.47	-1.20
11,370.00	89.44	268.09	6,933.69	-1,555.53	-6,131.79	6,253.82	0.83	0.83	0.04
11,465.00	87.94	268.38	6,935.86	-1,558.46	-6,226.72	6,348.59	1.61	-1.58	0.31
11,559.00	88.34	267.45	6,938.91	-1,561.87	-6,320.61	6,442.36	1.08	0.43	-0.99
11,654.00	88.65	263.70	6,941.41	-1,569.20	-6,415.27	6,537.29	3.96	0.33	-3.95
11,749.00	89.19	265.55	6,943.20	-1,578.10	-6,509.84	6,632.27	2.03	0.57	1.95
11,845.00	88.40	268.54	6,945.22	-1,583.04	-6,605.67	6,728.14	3.22	-0.82	3.11
11,939.00	87.73	270.50	6,948.39	-1,583.83	-6,699.61	6,821.71	2.20	-0.71	2.09
12,034.00	88.56	271.48	6,951.47	-1,582.19	-6,794.55	6,916.04	1.35	0.87	1.03
12,130.00	89.04	270.12	6,953.48	-1,580.85	-6,890.51	7,011.42	1.50	0.50	-1.42
12,225.00	89.44	270.81	6,954.74	-1,580.08	-6,985.50	7,105.88	0.84	0.42	0.73
12,320.00	90.64	271.55	6,954.67	-1,578.12	-7,080.48	7,200.22	1.48	1.26	0.78
12,416.00	92.12	270.47	6,952.36	-1,576.43	-7,176.43	7,295.56	1.91	1.54	-1.12
12,511.00	89.92	269.40	6,950.67	-1,576.54	-7,271.41	7,390.10	2.58	-2.32	-1.13
12,606.00	88.49	270.12	6,951.99	-1,576.94	-7,366.40	7,484.68	1.69	-1.51	0.76
12,701.00	89.75	270.70	6,953.45	-1,576.26	-7,461.38	7,579.15	1.46	1.33	0.61
12,796.00	88.28	271.72	6,955.08	-1,574.25	-7,556.34	7,673.46	1.88	-1.55	1.07

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well SHELTON 25W-25-15
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4860.00usft
Site:	SEC 25-T4N-R65W	MD Reference:	KB 25' @ 4860.00usft
Well:	SHELTON 25W-25-15	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)	
12,891.00	89.30	273.98	6,957.09	-1,569.53	-7,651.20	7,767.41	2.61	1.07	2.38	
12,986.00	89.61	274.15	6,957.99	-1,562.80	-7,745.95	7,861.07	0.37	0.33	0.18	
13,081.00	90.25	275.40	6,958.11	-1,554.89	-7,840.62	7,954.52	1.48	0.67	1.32	
13,177.00	90.22	273.54	6,957.71	-1,547.41	-7,936.32	8,049.05	1.94	-0.03	-1.94	
13,272.00	88.35	270.37	6,958.90	-1,544.17	-8,031.24	8,143.20	3.87	-1.97	-3.34	
13,367.00	89.29	271.16	6,960.85	-1,542.90	-8,126.21	8,237.60	1.29	0.99	0.83	
13,462.00	89.84	271.76	6,961.57	-1,540.48	-8,221.18	8,331.88	0.86	0.58	0.63	
13,557.00	90.60	273.61	6,961.21	-1,536.03	-8,316.07	8,425.89	2.11	0.80	1.95	
13,653.00	88.12	270.80	6,962.28	-1,532.33	-8,411.98	8,520.99	3.90	-2.58	-2.93	
13,748.00	88.67	270.97	6,964.94	-1,530.87	-8,506.93	8,615.35	0.61	0.58	0.18	
13,843.00	89.98	271.36	6,966.06	-1,528.94	-8,601.90	8,709.68	1.44	1.38	0.41	
13,939.00	88.51	269.38	6,967.33	-1,528.32	-8,697.88	8,805.15	2.57	-1.53	-2.06	
14,033.00	89.20	268.73	6,969.21	-1,529.87	-8,791.85	8,898.83	1.01	0.73	-0.69	
14,129.00	90.71	270.35	6,969.28	-1,530.64	-8,887.84	8,994.44	2.31	1.57	1.69	
14,223.00	88.31	269.46	6,970.09	-1,530.79	-8,981.83	9,088.00	2.72	-2.55	-0.95	
14,317.00	89.35	271.10	6,972.00	-1,530.33	-9,075.80	9,181.49	2.07	1.11	1.74	
14,413.00	89.88	268.92	6,972.65	-1,530.32	-9,171.79	9,277.02	2.34	0.55	-2.27	
14,507.00	88.11	270.22	6,974.30	-1,531.02	-9,265.77	9,370.63	2.34	-1.88	1.38	
14,603.00	88.85	270.73	6,976.85	-1,530.23	-9,361.73	9,466.06	0.94	0.77	0.53	
14,698.00	89.90	270.35	6,977.88	-1,529.33	-9,456.72	9,560.51	1.18	1.11	-0.40	
14,793.00	89.71	268.07	6,978.20	-1,530.64	-9,551.71	9,655.17	2.41	-0.20	-2.40	
14,888.00	89.84	271.27	6,978.58	-1,531.19	-9,646.69	9,749.76	3.37	0.14	3.37	
14,982.00	90.76	270.77	6,978.09	-1,529.51	-9,740.67	9,843.14	1.11	0.98	-0.53	
15,077.00	88.42	271.94	6,978.77	-1,527.27	-9,835.64	9,937.44	2.75	-2.46	1.23	
15,172.00	88.74	271.35	6,981.12	-1,524.54	-9,930.57	10,031.65	0.71	0.34	-0.62	
15,267.00	89.90	273.59	6,982.25	-1,520.45	-10,025.46	10,125.71	2.66	1.22	2.36	
15,362.00	88.70	271.00	6,983.41	-1,516.64	-10,120.37	10,219.80	3.00	-1.26	-2.73	
15,457.00	90.01	270.88	6,984.48	-1,515.09	-10,215.35	10,314.17	1.38	1.38	-0.13	
15,553.00	88.71	270.57	6,985.55	-1,513.87	-10,311.33	10,409.59	1.39	-1.35	-0.32	
15,647.00	89.72	269.23	6,986.84	-1,514.04	-10,405.32	10,503.15	1.78	1.07	-1.43	
15,741.00	88.14	268.90	6,988.59	-1,515.57	-10,499.29	10,596.82	1.72	-1.68	-0.35	
15,835.00	88.78	269.49	6,991.12	-1,516.89	-10,593.25	10,690.46	0.93	0.68	0.63	
15,931.00	89.55	269.02	6,992.52	-1,518.14	-10,689.23	10,786.11	0.94	0.80	-0.49	
16,025.00	90.43	268.10	6,992.53	-1,520.50	-10,783.20	10,879.86	1.35	0.94	-0.98	
16,120.00	88.21	270.37	6,993.66	-1,521.77	-10,878.17	10,974.51	3.34	-2.34	2.39	
16,216.00	88.66	270.66	6,996.28	-1,520.91	-10,974.13	11,069.93	0.56	0.47	0.30	
16,311.00	89.75	271.14	6,997.60	-1,519.41	-11,069.11	11,164.32	1.25	1.15	0.51	
16,406.00	91.15	270.45	6,996.86	-1,518.10	-11,164.09	11,258.73	1.64	1.47	-0.73	
16,501.00	88.82	270.46	6,996.88	-1,517.34	-11,259.08	11,353.20	2.45	-2.45	0.01	
16,596.00	89.55	270.30	6,998.23	-1,516.71	-11,354.07	11,447.67	0.79	0.77	-0.17	
16,691.00	90.62	271.47	6,998.09	-1,515.24	-11,449.05	11,542.07	1.67	1.13	1.23	
16,785.00	88.31	269.50	6,998.97	-1,514.45	-11,543.04	11,635.53	3.23	-2.46	-2.10	
16,881.00	89.05	269.84	7,001.18	-1,515.00	-11,639.01	11,731.10	0.85	0.77	0.35	

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well SHELTON 25W-25-15
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4860.00usft
Site:	SEC 25-T4N-R65W	MD Reference:	KB 25' @ 4860.00usft
Well:	SHELTON 25W-25-15	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)
16,975.00	89.79	269.79	7,002.13	-1,515.30	-11,733.00	11,824.68	0.79	0.79	-0.05
17,070.00	90.79	268.85	7,001.65	-1,516.43	-11,827.99	11,919.33	1.44	1.05	-0.99
17,165.00	88.73	270.40	7,002.05	-1,517.05	-11,922.98	12,013.93	2.71	-2.17	1.63
17,260.00	89.74	271.54	7,003.32	-1,515.45	-12,017.96	12,108.30	1.60	1.06	1.20
17,355.00	88.13	270.04	7,005.08	-1,514.14	-12,112.92	12,202.70	2.32	-1.69	-1.58
17,450.00	89.16	270.18	7,007.33	-1,513.95	-12,207.90	12,297.20	1.09	1.08	0.15
17,545.00	89.85	269.38	7,008.15	-1,514.32	-12,302.89	12,391.78	1.11	0.73	-0.84
17,641.00	89.24	271.24	7,008.91	-1,513.80	-12,398.88	12,487.27	2.04	-0.64	1.94
17,736.00	89.78	270.92	7,009.73	-1,512.01	-12,493.86	12,581.63	0.66	0.57	-0.34
17,831.00	88.08	270.72	7,011.50	-1,510.65	-12,588.83	12,676.02	1.80	-1.79	-0.21
17,926.00	88.55	271.66	7,014.29	-1,508.68	-12,683.77	12,770.31	1.11	0.49	0.99
18,021.00	88.92	270.69	7,016.39	-1,506.73	-12,778.72	12,864.63	1.09	0.39	-1.02
18,116.00	89.08	268.81	7,018.05	-1,507.14	-12,873.70	12,959.21	1.99	0.17	-1.98
18,211.00	90.38	268.81	7,018.50	-1,509.12	-12,968.68	13,053.92	1.37	1.37	0.00
18,305.00	88.40	270.33	7,019.50	-1,509.82	-13,062.66	13,147.53	2.66	-2.11	1.62
18,400.00	88.75	269.67	7,021.86	-1,509.82	-13,157.63	13,242.06	0.79	0.37	-0.69
18,494.00	89.21	268.76	7,023.53	-1,511.11	-13,251.61	13,335.71	1.08	0.49	-0.97
18,589.00	89.92	268.85	7,024.25	-1,513.09	-13,346.59	13,430.43	0.75	0.75	0.09
18,683.00	91.14	267.99	7,023.38	-1,515.68	-13,440.54	13,524.20	1.59	1.30	-0.91
18,777.00	88.27	268.27	7,023.87	-1,518.75	-13,534.48	13,617.99	3.07	-3.05	0.30
18,873.00	88.64	267.88	7,026.46	-1,521.97	-13,630.39	13,713.76	0.56	0.39	-0.41
18,968.00	89.81	267.58	7,027.74	-1,525.74	-13,725.31	13,808.59	1.27	1.23	-0.32
19,063.00	88.61	269.25	7,029.05	-1,528.36	-13,820.26	13,903.35	2.16	-1.26	1.76
19,158.00	89.69	270.54	7,030.46	-1,528.54	-13,915.24	13,997.90	1.77	1.14	1.36
19,252.00	90.62	269.12	7,030.21	-1,528.82	-14,009.24	14,091.48	1.81	0.99	-1.51
19,348.00	88.24	270.57	7,031.16	-1,529.08	-14,105.22	14,187.04	2.90	-2.48	1.51
19,443.00	89.07	271.29	7,033.39	-1,527.53	-14,200.18	14,281.40	1.16	0.87	0.76
19,538.00	90.34	272.07	7,033.88	-1,524.75	-14,295.14	14,375.64	1.57	1.34	0.82
19,633.00	89.17	273.78	7,034.29	-1,519.90	-14,390.01	14,469.59	2.18	-1.23	1.80
19,728.00	89.63	273.73	7,035.28	-1,513.68	-14,484.80	14,563.33	0.49	0.48	-0.05
19,823.00	90.66	273.86	7,035.04	-1,507.39	-14,579.59	14,657.06	1.09	1.08	0.14
19,919.00	88.63	272.94	7,035.64	-1,501.70	-14,675.41	14,751.88	2.32	-2.11	-0.96
20,014.00	88.87	271.63	7,037.71	-1,497.91	-14,770.31	14,845.96	1.40	0.25	-1.38
20,109.00	89.86	271.62	7,038.76	-1,495.22	-14,865.27	14,940.21	1.04	1.04	-0.01
20,204.00	87.84	269.09	7,040.67	-1,494.63	-14,960.23	15,034.67	3.41	-2.13	-2.66
20,299.00	88.75	269.97	7,043.49	-1,495.41	-15,055.19	15,129.25	1.33	0.96	0.93
20,425.00	89.95	269.28	7,044.92	-1,496.23	-15,181.17	15,254.72	1.10	0.95	-0.55
20,520.00	91.07	270.06	7,044.08	-1,496.78	-15,276.17	15,349.32	1.44	1.18	0.82
LAST SURVEY - 20520' MD, 7044' TVD									
20,591.00	91.07	270.06	7,042.75	-1,496.71	-15,347.15	15,419.96	0.00	0.00	0.00
EXTRAPOLATION TO TD - 20591' MD, 548' FSL, 153' FWL SEC 27									

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well SHELTON 25W-25-15
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 4860.00usft
Site:	SEC 25-T4N-R65W	MD Reference:	KB 25' @ 4860.00usft
Well:	SHELTON 25W-25-15	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-15 - actual wellpath misses target center by 19.42usft at 7712.92usft MD (6891.36 TVD, -1569.62 N, -2476.40 E) - Point	0.00	0.00	6,900.00	-1,586.92	-2,474.68	1,345,137.13	3,247,688.34	40.277398°N	104.612258°W
PBHL-SHELTON 25W-1 - actual wellpath misses target center by 13.28usft at 20591.00usft MD (7042.75 TVD, -1496.71 N, -15347.15 E) - Point	0.00	0.00	7,030.00	-1,499.35	-15,349.76	1,345,094.52	3,234,813.59	40.277625°N	104.658401°W

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
6,943.00	6,460.08	-1,449.43	-1,910.56	KOP - 6943' MD, 6460' TVD	
7,711.20	6,891.19	-1,569.49	-2,474.68	~2466' X-OVER PNT - 7711.20' MD, 537' FSL, 2466' FWL SEC 25	
7,770.00	6,895.77	-1,572.95	-2,533.20	HZ LANDING PNT - 7770' MD, 6896' TVD	
20,520.00	7,044.08	-1,496.78	-15,276.17	LAST SURVEY - 20520' MD, 7044' TVD	
20,591.00	7,042.75	-1,496.71	-15,347.15	EXTRAPOLATION TO TD - 20591' MD, 548' FSL, 153' FWL SEC 27	

Checked By: _____	Approved By: _____	Date: _____
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