

Survey Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well Herren 1B-33H-H367
Project:	Sec 33 T3N-R67W	TVD Reference:	WELL @ 4870.0ft (Original Well Elev)
Site:	Herren Pad	MD Reference:	WELL @ 4870.0ft (Original Well Elev)
Well:	Herren 1B-33H-H367	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Project	Sec 33 T3N-R67W, Weld County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Herren Pad			
Site Position:		Northing:	1,310,206.92 ft	Latitude:	40.183282
From:	Map	Easting:	3,171,259.40 ft	Longitude:	-104.887065
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.40 °

Well	Herren 1B-33H-H367					
Well Position	+N/-S	0.0 ft	Northing:	1,310,206.92 ft	Latitude:	40.183282
	+E/-W	0.0 ft	Easting:	3,171,259.40 ft	Longitude:	-104.887065
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,847.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/1/2018	8.42	66.57	52,135.30000000

Design	FINAL				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	296.75	

Survey Program	Date	12/6/2018			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
145.0	1,978.0	Survey #1 (Wellbore #1)	GYRO-MWD	OWSG Gyro MWD	
2,041.0	12,135.0	Survey #2 (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00		
145.0	0.26	149.94	145.0	-0.3	0.2	-0.3	0.18	0.18		
220.0	0.47	57.82	220.0	-0.3	0.5	-0.6	0.73	0.28		
314.0	1.14	17.11	314.0	0.8	1.1	-0.6	0.90	0.71		
409.0	2.62	22.97	408.9	3.7	2.2	-0.3	1.57	1.56		
503.0	4.53	19.02	502.7	9.2	4.3	0.3	2.05	2.03		
597.0	6.33	22.36	596.3	17.5	7.5	1.2	1.94	1.91		
691.0	9.42	26.76	689.4	29.2	12.9	1.6	3.35	3.29		
786.0	12.85	26.02	782.6	45.6	21.0	1.7	3.61	3.61		
880.0	15.30	24.08	873.8	66.3	30.7	2.5	2.65	2.61		
975.0	16.80	18.10	965.1	90.8	40.1	5.1	2.35	1.58		
1,069.0	18.13	15.41	1,054.8	117.9	48.2	10.0	1.65	1.41		

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Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
1,164.0	19.30	13.91	1,144.7	147.3	55.9	16.4	1.33	1.23	
1,258.0	20.81	15.38	1,233.0	178.5	64.0	23.2	1.69	1.61	
1,353.0	20.65	10.42	1,321.9	211.3	71.5	31.2	1.86	-0.17	
1,447.0	20.05	10.53	1,410.0	243.4	77.5	40.4	0.64	-0.64	
1,541.0	18.28	10.70	1,498.8	273.7	83.2	48.9	1.88	-1.88	
1,636.0	17.89	11.28	1,589.1	302.7	88.8	57.0	0.45	-0.41	
1,730.0	16.38	13.57	1,678.9	329.7	94.7	63.8	1.76	-1.61	
1,825.0	16.90	15.50	1,770.0	356.1	101.6	69.6	0.80	0.55	
1,920.0	17.77	14.85	1,860.7	383.4	109.0	75.3	0.94	0.92	
1,978.0	18.82	16.32	1,915.7	400.9	113.9	78.8	1.98	1.81	
2,041.0	17.36	15.18	1,975.6	419.8	119.2	82.5	2.38	-2.32	
2,073.0	16.57	13.68	2,006.2	428.8	121.5	84.5	2.82	-2.47	
2,167.0	18.90	21.51	2,095.8	456.0	130.3	88.9	3.54	2.48	
2,261.0	19.73	21.42	2,184.5	484.9	141.6	91.8	0.88	0.88	
2,355.0	20.87	20.89	2,272.6	515.3	153.4	95.0	1.23	1.21	
2,449.0	21.89	22.30	2,360.2	547.2	166.0	98.0	1.22	1.09	
2,544.0	19.42	22.12	2,449.0	578.2	178.7	100.7	2.60	-2.60	
2,638.0	21.89	21.42	2,537.0	609.0	191.0	103.6	2.64	2.63	
2,733.0	20.74	19.75	2,625.5	641.3	203.1	107.3	1.37	-1.21	
2,827.0	22.72	17.29	2,712.8	674.3	214.2	112.3	2.32	2.11	
2,921.0	21.27	14.91	2,800.0	708.1	223.9	118.8	1.81	-1.54	
3,016.0	19.78	16.32	2,888.9	740.2	232.9	125.2	1.65	-1.57	
3,110.0	20.52	20.63	2,977.2	770.9	243.2	129.8	1.76	0.79	
3,205.0	18.85	19.57	3,066.6	800.9	254.2	133.5	1.80	-1.76	
3,299.0	16.30	17.81	3,156.2	827.8	263.3	137.5	2.77	-2.71	
3,394.0	16.04	21.24	3,247.5	852.7	272.1	140.8	1.04	-0.27	
3,489.0	16.35	19.66	3,338.7	877.6	281.4	143.7	0.57	0.33	
3,583.0	17.31	18.25	3,428.7	903.3	290.2	147.4	1.11	1.02	
3,678.0	18.06	17.29	3,519.2	930.8	299.0	151.9	0.85	0.79	
3,796.0	18.46	20.19	3,631.3	965.8	310.9	157.1	0.84	0.34	
3,891.0	19.56	18.34	3,721.1	995.0	321.1	161.1	1.32	1.16	
3,986.0	20.87	17.29	3,810.2	1,026.3	331.1	166.2	1.43	1.38	
4,080.0	23.82	15.97	3,897.2	1,060.5	341.3	172.5	3.18	3.14	
4,175.0	22.46	14.12	3,984.5	1,096.6	351.0	180.1	1.62	-1.43	
4,269.0	21.75	17.81	4,071.6	1,130.5	360.7	186.7	1.66	-0.76	
4,364.0	17.40	15.97	4,161.1	1,161.0	370.0	192.1	4.62	-4.58	
4,459.0	17.71	19.31	4,251.7	1,188.3	378.7	196.6	1.11	0.33	
4,553.0	19.56	16.85	4,340.7	1,216.8	388.0	201.2	2.14	1.97	
4,648.0	21.49	21.24	4,429.7	1,248.3	398.9	205.6	2.60	2.03	
4,742.0	20.17	20.19	4,517.6	1,279.5	410.8	209.1	1.46	-1.40	
4,836.0	20.13	14.74	4,605.8	1,310.4	420.5	214.3	2.00	-0.04	
4,931.0	18.90	11.66	4,695.4	1,341.3	427.7	221.7	1.69	-1.29	
5,025.0	18.55	18.52	4,784.4	1,370.4	435.6	227.8	2.37	-0.37	
5,120.0	20.17	20.10	4,874.0	1,400.1	446.0	231.9	1.79	1.71	
5,214.0	18.41	19.84	4,962.7	1,429.3	456.6	235.6	1.87	-1.87	
5,309.0	17.62	21.07	5,053.1	1,456.8	466.9	238.8	0.92	-0.83	
5,404.0	18.33	19.75	5,143.5	1,484.3	477.1	242.0	0.86	0.75	
5,498.0	20.17	16.58	5,232.2	1,513.7	486.7	246.7	2.25	1.96	
5,593.0	19.34	20.63	5,321.6	1,544.1	496.9	251.3	1.68	-0.87	
5,687.0	18.02	20.10	5,410.7	1,572.3	507.4	254.6	1.42	-1.40	
5,782.0	16.00	20.36	5,501.5	1,598.4	517.0	257.8	2.13	-2.13	
5,876.0	16.70	15.00	5,591.7	1,623.6	525.0	262.0	1.77	0.74	
5,970.0	17.53	12.54	5,681.5	1,650.5	531.6	268.2	1.17	0.88	

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Formations / Comments
6,065.0	17.58	16.58	5,772.1	1,678.2	538.8	274.2	1.28	0.05	
6,160.0	19.95	19.40	5,862.1	1,707.2	548.3	278.8	2.67	2.49	
6,254.0	19.95	21.51	5,950.4	1,737.3	559.5	282.4	0.77	0.00	
6,348.0	17.97	21.42	6,039.3	1,765.7	570.6	285.2	2.11	-2.11	
6,443.0	18.15	21.68	6,129.6	1,793.1	581.5	287.8	0.21	0.19	
6,537.0	20.52	13.77	6,218.3	1,822.7	590.8	292.8	3.75	2.52	
6,632.0	22.59	7.71	6,306.7	1,857.0	597.2	302.5	3.20	2.18	
6,726.0	22.10	346.53	6,393.8	1,892.1	595.5	319.9	8.54	-0.52	
6,773.0	23.73	334.40	6,437.1	1,909.3	589.4	333.1	10.61	3.47	
6,820.0	24.61	328.33	6,480.0	1,926.1	580.1	348.9	5.61	1.87	
6,867.0	27.73	322.71	6,522.2	1,943.2	568.4	367.1	8.47	6.64	
6,915.0	29.66	318.75	6,564.3	1,961.0	553.8	388.1	5.64	4.02	
6,962.0	30.94	315.15	6,604.9	1,978.3	537.6	410.4	4.73	2.72	
7,010.0	31.42	309.70	6,645.9	1,995.0	519.2	434.3	5.96	1.00	
7,057.0	34.67	305.31	6,685.3	2,010.6	498.9	459.5	8.58	6.91	
7,105.0	38.32	298.98	6,723.9	2,025.7	474.7	487.8	10.92	7.60	
7,152.0	40.56	296.25	6,760.2	2,039.5	448.3	517.7	6.03	4.77	
7,199.0	40.96	294.06	6,795.8	2,052.6	420.5	548.4	3.16	0.85	
7,246.0	43.11	292.82	6,830.7	2,065.1	391.6	579.8	4.90	4.57	
7,294.0	44.30	288.96	6,865.4	2,076.9	360.6	612.8	6.08	2.48	
7,341.0	44.08	288.87	6,899.1	2,087.5	329.6	645.2	0.49	-0.47	
7,388.0	45.79	285.62	6,932.4	2,097.3	298.0	677.9	6.09	3.64	
7,435.0	48.30	281.57	6,964.5	2,105.4	264.5	711.4	8.26	5.34	
7,483.0	49.83	277.88	6,995.9	2,111.5	228.8	746.1	6.62	3.19	
7,530.0	51.46	277.44	7,025.7	2,116.3	192.8	780.4	3.54	3.47	
7,577.0	55.46	276.83	7,053.7	2,121.0	155.3	816.0	8.57	8.51	
7,624.0	59.94	276.56	7,078.8	2,125.6	115.9	853.3	9.54	9.53	
7,672.0	64.78	275.42	7,101.1	2,130.1	73.6	893.0	10.30	10.08	
7,719.0	67.76	275.95	7,120.0	2,134.3	30.8	933.2	6.42	6.34	
7,766.0	70.71	274.28	7,136.6	2,138.3	-13.0	974.0	7.10	6.28	
7,813.0	73.56	273.93	7,151.0	2,141.5	-57.6	1,015.3	6.11	6.06	
7,859.3	77.17	272.32	7,162.7	2,143.9	-102.3	1,056.3	8.49	7.79	TPZ - 7859.3' MD (113 FNL, 460 FEL)
7,861.0	77.30	272.26	7,163.1	2,144.0	-104.0	1,057.8	8.49	7.80	
7,908.0	81.39	271.99	7,171.8	2,145.7	-150.1	1,099.8	8.72	8.70	
7,955.0	84.86	271.64	7,177.4	2,147.1	-196.8	1,142.1	7.42	7.38	
8,050.0	88.11	270.32	7,183.3	2,148.8	-291.5	1,227.5	3.69	3.42	
8,144.0	88.95	269.97	7,185.7	2,149.0	-385.5	1,311.5	0.97	0.89	
8,239.0	88.99	270.24	7,187.4	2,149.2	-480.5	1,396.4	0.29	0.04	
8,333.0	89.78	269.36	7,188.4	2,148.8	-574.5	1,480.2	1.26	0.84	
8,428.0	89.30	268.65	7,189.2	2,147.2	-669.5	1,564.3	0.90	-0.51	
8,523.0	90.57	269.09	7,189.3	2,145.3	-764.5	1,648.2	1.41	1.34	
8,617.0	90.26	268.65	7,188.6	2,143.5	-858.4	1,731.3	0.57	-0.33	
8,711.0	89.87	268.04	7,188.5	2,140.8	-952.4	1,814.0	0.77	-0.41	
8,805.0	91.32	268.22	7,187.5	2,137.7	-1,046.3	1,896.5	1.55	1.54	
8,900.0	91.71	267.34	7,185.0	2,134.0	-1,141.2	1,979.6	1.01	0.41	
8,994.0	92.37	269.36	7,181.6	2,131.3	-1,235.1	2,062.2	2.26	0.70	
9,089.0	91.63	269.71	7,178.3	2,130.5	-1,330.1	2,146.7	0.86	-0.78	
9,184.0	90.35	271.64	7,176.7	2,131.7	-1,425.0	2,232.0	2.44	-1.35	
9,278.0	88.99	270.76	7,177.2	2,133.6	-1,519.0	2,316.8	1.72	-1.45	
9,373.0	88.46	270.59	7,179.3	2,134.7	-1,614.0	2,402.1	0.59	-0.56	
9,467.0	88.77	270.32	7,181.6	2,135.5	-1,708.0	2,486.3	0.44	0.33	
9,561.0	88.99	270.68	7,183.4	2,136.3	-1,801.9	2,570.6	0.45	0.23	
9,656.0	88.86	270.24	7,185.2	2,137.1	-1,896.9	2,655.8	0.48	-0.14	

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9,750.0	90.04	268.83	7,186.1	2,136.3	-1,990.9	2,739.4	1.96	1.26	
9,844.0	90.70	268.65	7,185.5	2,134.2	-2,084.9	2,822.4	0.73	0.70	
9,939.0	90.97	267.60	7,184.1	2,131.1	-2,179.8	2,905.7	1.14	0.28	
10,033.0	91.32	267.60	7,182.3	2,127.2	-2,273.7	2,987.8	0.37	0.37	
10,127.0	91.19	266.98	7,180.2	2,122.8	-2,367.6	3,069.7	0.67	-0.14	
10,222.0	91.36	268.04	7,178.1	2,118.6	-2,462.5	3,152.5	1.13	0.18	
10,316.0	89.52	269.01	7,177.4	2,116.2	-2,556.4	3,235.3	2.21	-1.96	
10,411.0	88.55	268.65	7,179.0	2,114.3	-2,651.4	3,319.3	1.09	-1.02	
10,505.0	90.53	270.32	7,179.7	2,113.4	-2,745.4	3,402.8	2.76	2.11	
10,600.0	91.19	269.97	7,178.3	2,113.7	-2,840.4	3,487.7	0.79	0.69	
10,694.0	91.45	269.18	7,176.1	2,113.0	-2,934.3	3,571.3	0.88	0.28	
10,789.0	90.48	269.53	7,174.5	2,111.9	-3,029.3	3,655.7	1.09	-1.02	
10,883.0	90.53	269.09	7,173.7	2,110.8	-3,123.3	3,739.1	0.47	0.05	
10,978.0	91.10	269.09	7,172.3	2,109.3	-3,218.3	3,823.2	0.60	0.60	
11,073.0	91.01	271.03	7,170.6	2,109.4	-3,313.3	3,908.1	2.04	-0.09	
11,167.0	90.18	272.79	7,169.6	2,112.5	-3,407.2	3,993.4	2.07	-0.88	
11,262.0	89.03	274.37	7,170.3	2,118.4	-3,502.0	4,080.7	2.06	-1.21	
11,356.0	88.64	276.74	7,172.2	2,127.5	-3,595.5	4,168.3	2.55	-0.41	
11,451.0	89.03	276.56	7,174.1	2,138.5	-3,689.9	4,257.5	0.45	0.41	
11,546.0	89.52	276.83	7,175.3	2,149.6	-3,784.2	4,346.8	0.59	0.52	
11,640.0	88.02	277.27	7,177.3	2,161.1	-3,877.5	4,435.2	1.66	-1.60	
11,735.0	87.14	276.13	7,181.4	2,172.2	-3,971.8	4,524.4	1.52	-0.93	
11,829.0	86.44	275.95	7,186.6	2,182.1	-4,065.1	4,612.2	0.77	-0.74	
11,924.0	86.35	274.19	7,192.6	2,190.5	-4,159.5	4,700.3	1.85	-0.09	
12,018.0	88.11	274.98	7,197.1	2,198.0	-4,253.1	4,787.2	2.05	1.87	
12,065.0	87.89	274.63	7,198.8	2,201.9	-4,299.9	4,830.8	0.88	-0.47	LAST SURVEY - 12065.0' MD
12,135.0	87.89	274.63	7,201.3	2,207.5	-4,369.6	4,895.6	0.00	0.00	PTB - 12135.0' MD (103 FNL, 468 FWL)

Survey Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well Herren 1B-33H-H367
Project:	Sec 33 T3N-R67W	TVD Reference:	WELL @ 4870.0ft (Original Well Elev)
Site:	Herren Pad	MD Reference:	WELL @ 4870.0ft (Original Well Elev)
Well:	Herren 1B-33H-H367	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
Herren 1B 1648' TGT	0.00	0.00	7,183.0	2,131.0	-1,648.0	1,312,326.45	3,169,596.71	40.189132	-104.892964
- actual wellpath misses target center by 4.9ft at 9407.1ft MD (7180.2 TVD, 2135.1 N, -1648.0 E)									
- Point									
Herren 1B 3436' TGT	0.00	0.00	7,179.0	2,125.1	-3,436.0	1,312,308.23	3,167,808.80	40.189115	-104.899364
- actual wellpath misses target center by 14.5ft at 11196.6ft MD (7169.6 TVD, 2114.1 N, -3436.8 E)									
- Point									
Herren 1B 102' TGT	0.00	0.00	7,183.0	2,152.6	-102.0	1,312,358.72	3,171,142.53	40.189191	-104.887430
- actual wellpath misses target center by 21.6ft at 7863.1ft MD (7163.6 TVD, 2144.0 N, -106.0 E)									
- Point									
HERREN 41-33 TD @ 7	0.00	0.00	7,923.0	1,724.1	-229.3	1,311,929.37	3,171,018.22	40.188015	-104.887886
- actual wellpath misses target center by 854.6ft at 8026.0ft MD (7182.3 TVD, 2148.6 N, -267.5 E)									
- Circle (radius 50.0)									
HERREN 42-33 TD @ 7	0.00	0.00	7,953.8	91.8	-221.3	1,310,297.23	3,171,037.45	40.183534	-104.887857
- actual wellpath misses target center by 2196.9ft at 7992.1ft MD (7180.3 TVD, 2148.0 N, -233.7 E)									
- Circle (radius 50.0)									
SMITH 11-34 TD @ 745	0.00	0.00	7,475.0	1,368.7	675.2	1,311,580.28	3,171,925.17	40.187039	-104.884648
- actual wellpath misses target center by 983.4ft at 7365.4ft MD (6916.5 TVD, 2092.8 N, 313.4 E)									
- Circle (radius 50.0)									
Herren 1B-33H-H367 Bf	0.00	0.00	7,189.0	2,206.4	-4,377.9	1,312,383.02	3,166,866.32	40.189338	-104.902735
- actual wellpath misses target center by 14.9ft at 12135.0ft MD (7201.3 TVD, 2207.5 N, -4369.6 E)									
- Point									
Herren 1B-33H-H367 TF	0.00	0.00	7,150.0	2,152.6	-102.3	1,312,358.71	3,171,142.21	40.189191	-104.887431
- actual wellpath misses target center by 15.2ft at 7856.5ft MD (7162.1 TVD, 2143.8 N, -99.6 E)									
- Point									
HERREN 31-33 TD @ 7	0.00	0.00	7,911.9	1,824.6	-1,817.6	1,312,018.92	3,169,429.27	40.188291	-104.893571
- actual wellpath misses target center by 792.1ft at 9587.8ft MD (7183.9 TVD, 2136.6 N, -1828.7 E)									
- Circle (radius 50.0)									

Design Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
7,859.3	7,162.7	2,143.9	-102.3	TPZ - 7859.3' MD (113 FNL, 460 FEL)
12,065.0	7,198.8	2,201.9	-4,299.9	LAST SURVEY - 12065.0' MD
12,135.0	7,201.3	2,207.5	-4,369.6	PTB - 12135.0' MD (103 FNL, 468 FWL)

Checked By: _____ Approved By: _____ Date: _____