



Crestone Peak Resources

Sec 2 T2N-R67W

Echeverria Pad

ECHEVERRIA 2K-2H-D267

Wellbore #1

Design: Wellbore #1

Standard Survey Report

04 April, 2019



Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well ECHEVERRIA 2K-2H-D267
Project:	Sec 2 T2N-R67W	TVD Reference:	GL 4881' & RKB 28' @ 4909.000usft (Ensign 142)
Site:	Echeverria Pad	MD Reference:	GL 4881' & RKB 28' @ 4909.000usft (Ensign 142)
Well:	ECHEVERRIA 2K-2H-D267	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Project	Sec 2 T2N-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		Echeverria Pad						
Site Position:		Northing:	1,306,149.76	usft	Latitude:	40.1720320		
From:	Lat/Long	Easting:	3,177,475.48	usft	Longitude:	-104.8648990		
Position Uncertainty:	0.000	usft	Slot Radius:	13-3/16	"	Grid Convergence:	0.41	°

Well	ECHEVERRIA 2K-2H-D267					
Well Position	+N/-S	0.000 usft	Northing:	1,306,149.57 usft	Latitude:	40.1720299
	+E/-W	0.000 usft	Easting:	3,177,555.40 usft	Longitude:	-104.8646130
Position Uncertainty		0.000 usft	Wellhead Elevation:	0.000 usft	Ground Level:	4,881.000 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	3/9/2019	8.33	66.55	52,121

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.000
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.000	0.000	0.000	156.02	

Survey Program	Date	4/4/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
5.000	2,307.000	Survey #1 - Surface MWD Survey (Wellbo	MWD+HDGM	OWSG MWD + HDGM	
2,394.000	6,737.000	Survey #2 - Intermediate MWD Survey (W	MWD+HDGM	OWSG MWD + HDGM	
6,782.000	8,206.000	Survey #3 - Curve MWD Survey (Wellbore	MWD+HDGM	OWSG MWD + HDGM	
8,295.000	12,425.000	Survey #4 - Lateral MWD Survey (Wellbor	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.000	0.00	0.00	0.000	0.000	0.000	0.000	0.00	0.00	0.00	
5.000	0.00	0.00	5.000	0.000	0.000	0.000	0.00	0.00	0.00	
170.000	0.18	64.42	170.000	0.112	0.234	-0.007	0.11	0.11	0.00	
265.000	0.88	33.31	264.995	0.786	0.769	-0.406	0.77	0.74	-32.75	
359.000	1.32	40.69	358.978	2.210	1.871	-1.259	0.49	0.47	7.85	
453.000	4.13	42.71	452.862	5.519	4.874	-3.062	2.99	2.99	2.15	

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Well:	ECHEVERRIA 2K-2H-D267	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
547.000	6.25	47.37	546.472	11.472	10.935	-6.038	2.30	2.26	4.96
641.000	7.74	49.31	639.769	19.065	19.500	-9.494	1.60	1.59	2.06
716.000	9.49	56.03	713.922	25.813	28.458	-12.019	2.69	2.33	8.96
810.000	12.27	57.64	806.224	35.491	43.325	-14.820	2.97	2.96	1.71
905.000	13.64	54.99	898.804	47.321	61.027	-18.434	1.57	1.44	-2.79
999.000	14.37	52.76	990.010	60.739	79.392	-23.231	0.97	0.78	-2.37
1,093.000	15.89	49.84	1,080.750	76.098	98.514	-29.492	1.81	1.62	-3.11
1,188.000	18.13	52.19	1,171.590	93.549	120.133	-36.651	2.47	2.36	2.47
1,282.000	18.73	54.17	1,260.769	111.350	143.925	-43.246	0.92	0.64	2.11
1,377.000	19.38	60.95	1,350.574	127.935	170.073	-47.772	2.43	0.68	7.14
1,471.000	18.71	58.93	1,439.429	143.289	196.622	-51.011	1.00	-0.71	-2.15
1,566.000	20.09	56.44	1,529.035	160.173	223.271	-55.607	1.69	1.45	-2.62
1,661.000	18.21	53.01	1,618.777	178.126	248.727	-61.665	2.31	-1.98	-3.61
1,755.000	19.04	52.67	1,707.853	196.262	272.650	-68.512	0.89	0.88	-0.36
1,849.000	18.89	55.04	1,796.752	214.279	297.313	-74.950	0.83	-0.16	2.52
1,944.000	18.47	58.33	1,886.750	230.992	322.725	-79.893	1.19	-0.44	3.46
2,038.000	17.15	56.83	1,976.243	246.393	346.999	-84.099	1.49	-1.40	-1.60
2,132.000	17.65	54.19	2,065.943	262.314	370.157	-89.234	0.99	0.53	-2.81
2,227.000	18.56	56.38	2,156.240	279.112	394.428	-94.719	1.20	0.96	2.31
2,307.000	18.76	54.62	2,232.035	293.610	415.519	-99.394	0.75	0.25	-2.20
2,394.000	17.42	54.53	2,314.733	309.268	437.532	-104.753	1.54	-1.54	-0.10
2,483.000	17.41	52.80	2,399.654	325.048	458.988	-110.452	0.58	-0.01	-1.94
2,572.000	18.16	55.47	2,484.401	340.961	481.020	-116.036	1.24	0.84	3.00
2,662.000	19.19	54.10	2,569.662	357.585	504.557	-121.660	1.24	1.14	-1.52
2,751.000	19.87	52.90	2,653.541	375.285	528.469	-128.114	0.89	0.76	-1.35
2,840.000	20.34	53.00	2,737.118	393.718	552.886	-135.032	0.53	0.53	0.11
2,929.000	19.20	51.92	2,820.871	412.053	576.760	-142.082	1.35	-1.28	-1.21
3,018.000	19.08	53.77	2,904.952	429.677	600.013	-148.734	0.69	-0.13	2.08
3,107.000	17.29	53.82	2,989.503	446.083	622.425	-154.616	2.01	-2.01	0.06
3,196.000	18.01	55.21	3,074.313	461.741	644.400	-159.992	0.94	0.81	1.56
3,285.000	19.02	55.99	3,158.706	477.704	667.721	-165.098	1.17	1.13	0.88
3,374.000	18.13	49.80	3,243.077	494.755	690.322	-171.492	2.43	-1.00	-6.96
3,463.000	17.59	51.51	3,327.788	512.063	711.425	-178.730	0.85	-0.61	1.92
3,552.000	17.10	53.24	3,412.741	528.264	732.434	-184.994	0.80	-0.55	1.94
3,641.000	17.66	56.43	3,497.680	543.560	754.166	-190.137	1.24	0.63	3.58
3,730.000	20.24	58.27	3,581.850	559.124	778.512	-194.463	2.98	2.90	2.07
3,819.000	20.59	57.47	3,665.260	575.636	804.801	-198.866	0.50	0.39	-0.90
3,931.000	20.73	56.30	3,770.058	597.224	837.896	-205.141	0.39	0.13	-1.04
4,020.000	19.94	51.99	3,853.515	615.311	862.960	-211.480	1.90	-0.89	-4.84
4,109.000	20.59	53.45	3,937.006	633.976	887.489	-218.565	0.93	0.73	1.64
4,198.000	22.91	56.51	4,019.667	652.858	914.513	-224.834	2.90	2.61	3.44
4,287.000	21.14	55.56	4,102.169	671.495	942.198	-230.610	2.03	-1.99	-1.07

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,376.000	18.34	58.80	4,185.933	687.828	967.417	-235.285	3.38	-3.15	3.64	
4,465.000	18.26	57.49	4,270.432	702.575	991.152	-239.112	0.47	-0.09	-1.47	
4,554.000	17.68	55.84	4,355.091	717.658	1,014.094	-243.569	0.87	-0.65	-1.85	
4,643.000	17.52	54.22	4,439.925	733.079	1,036.145	-248.697	0.58	-0.18	-1.82	
4,732.000	19.90	54.10	4,524.216	749.796	1,059.286	-254.566	2.67	2.67	-0.13	
4,822.000	20.91	53.95	4,608.567	768.229	1,084.679	-261.088	1.12	1.12	-0.17	
4,911.000	19.88	54.31	4,691.987	786.404	1,109.811	-267.481	1.17	-1.16	0.40	
5,000.000	18.26	54.47	4,776.100	803.336	1,133.449	-273.344	1.82	-1.82	0.18	
5,089.000	18.12	52.37	4,860.653	819.889	1,155.758	-279.402	0.75	-0.16	-2.36	
5,178.000	19.80	51.95	4,944.822	837.631	1,178.590	-286.333	1.89	1.89	-0.47	
5,267.000	20.64	54.37	5,028.338	856.061	1,203.211	-293.166	1.33	0.94	2.72	
5,356.000	18.49	54.81	5,112.194	873.334	1,227.497	-299.077	2.42	-2.42	0.49	
5,445.000	17.50	52.88	5,196.840	889.543	1,249.701	-304.863	1.30	-1.11	-2.17	
5,534.000	17.45	54.70	5,281.733	905.329	1,271.262	-310.525	0.62	-0.06	2.04	
5,623.000	18.31	54.55	5,366.434	921.149	1,293.542	-315.924	0.97	0.97	-0.17	
5,712.000	17.94	56.24	5,451.018	936.875	1,316.326	-321.032	0.72	-0.42	1.90	
5,802.000	15.31	56.27	5,537.248	951.178	1,337.735	-325.400	2.92	-2.92	0.03	
5,891.000	17.34	55.08	5,622.656	965.296	1,358.384	-329.907	2.31	2.28	-1.34	
5,980.000	17.05	53.83	5,707.678	980.588	1,379.792	-335.179	0.53	-0.33	-1.40	
6,069.000	16.73	51.63	5,792.840	996.241	1,400.368	-341.118	0.80	-0.36	-2.47	
6,158.000	18.99	53.85	5,877.546	1,012.737	1,422.107	-347.355	2.65	2.54	2.49	
6,247.000	21.32	57.70	5,961.094	1,029.927	1,447.480	-352.750	3.01	2.62	4.33	
6,336.000	21.88	56.90	6,043.844	1,047.629	1,475.048	-357.720	0.71	0.63	-0.90	
6,426.000	22.26	54.50	6,127.251	1,066.687	1,502.975	-363.782	1.09	0.42	-2.67	
6,515.000	20.79	55.63	6,210.042	1,085.393	1,529.738	-369.998	1.72	-1.65	1.27	
6,604.000	18.64	56.76	6,293.821	1,102.109	1,554.674	-375.136	2.45	-2.42	1.27	
6,648.000	17.26	57.36	6,335.678	1,109.484	1,566.053	-377.250	3.16	-3.14	1.36	
6,693.000	16.47	61.64	6,378.744	1,116.115	1,577.288	-378.742	3.27	-1.76	9.51	
6,737.000	15.89	70.53	6,421.007	1,121.087	1,588.458	-378.745	5.78	-1.32	20.20	
6,782.000	16.05	82.03	6,464.282	1,124.003	1,600.429	-376.545	7.03	0.36	25.56	
6,826.000	16.31	92.62	6,506.548	1,124.564	1,612.628	-372.100	6.72	0.59	24.07	
6,871.000	16.19	101.33	6,549.757	1,123.043	1,625.093	-365.643	5.42	-0.27	19.36	
6,916.000	17.33	110.11	6,592.852	1,119.505	1,637.540	-357.352	6.16	2.53	19.51	
6,960.000	18.50	118.15	6,634.724	1,113.957	1,649.851	-347.280	6.21	2.66	18.27	
7,005.000	19.79	126.78	6,677.243	1,106.026	1,662.251	-334.994	6.90	2.87	19.18	
7,049.000	21.55	132.28	6,718.413	1,096.128	1,674.198	-321.095	5.95	4.00	12.50	
7,094.000	23.77	136.14	6,759.939	1,084.027	1,686.598	-304.998	5.94	4.93	8.58	
7,138.000	25.88	140.08	6,799.874	1,070.266	1,698.907	-287.422	6.09	4.80	8.95	
7,227.000	30.30	148.16	6,878.399	1,036.267	1,723.237	-246.470	6.54	4.97	9.08	
7,316.000	33.60	154.94	6,953.931	994.861	1,745.525	-199.579	5.47	3.71	7.62	
7,361.000	36.42	158.21	6,990.788	971.171	1,755.761	-173.774	7.52	6.27	7.27	
7,405.000	39.01	157.34	7,025.592	946.259	1,765.946	-146.873	6.01	5.89	-1.98	

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Survey									
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7,492.000	43.49	164.30	7,091.020	892.114	1,784.616	-89.814	7.37	5.15	8.00
7,537.000	48.51	171.25	7,122.290	860.509	1,791.379	-58.188	15.73	11.16	15.44
7,581.000	54.43	175.40	7,149.693	826.344	1,795.325	-25.368	15.34	13.45	9.43
7,626.000	61.83	177.64	7,173.439	788.227	1,797.613	10.389	16.98	16.44	4.98
7,670.000	65.30	180.17	7,193.026	748.845	1,798.353	46.672	9.42	7.89	5.75
7,715.000	68.88	181.02	7,210.542	707.404	1,797.918	84.360	8.14	7.96	1.89
7,759.000	73.06	181.13	7,224.885	665.825	1,797.138	122.032	9.50	9.50	0.25
7,804.000	76.09	179.50	7,236.854	622.454	1,796.904	161.565	7.58	6.73	-3.62
7,849.000	77.92	178.65	7,246.972	578.614	1,797.613	201.909	4.46	4.07	-1.89
7,893.000	79.64	179.33	7,255.533	535.464	1,798.372	241.644	4.19	3.91	1.55
7,938.000	81.86	179.32	7,262.766	491.055	1,798.895	282.432	4.93	4.93	-0.03
7,982.000	85.53	180.36	7,267.598	447.329	1,799.015	322.433	8.67	8.34	2.36
8,027.000	89.63	181.25	7,269.498	402.384	1,798.383	363.242	9.32	9.11	1.98
8,051.189	89.60	180.98	7,269.661	378.200	1,797.912	385.147	1.12	-0.14	-1.11
TPZ @ 8051' MD / 7269' TVD - (480' FNL & 2457.912' FWL)									
8,117.000	89.50	180.25	7,270.181	312.395	1,797.205	444.984	1.12	-0.14	-1.11
8,206.000	88.43	178.65	7,271.789	223.418	1,798.059	526.629	2.16	-1.20	-1.80
8,295.000	91.58	179.81	7,271.781	134.439	1,799.255	608.414	3.77	3.54	1.30
8,384.000	92.08	179.24	7,268.939	45.488	1,799.992	689.987	0.85	0.56	-0.64
8,473.000	91.28	180.12	7,266.329	-43.471	1,800.489	771.469	1.34	-0.90	0.99
8,562.000	90.23	179.77	7,265.157	-132.462	1,800.574	852.814	1.24	-1.18	-0.39
8,651.000	90.07	179.08	7,264.924	-221.456	1,801.468	934.490	0.80	-0.18	-0.78
8,740.000	89.43	177.75	7,265.312	-310.419	1,803.929	1,016.775	1.66	-0.72	-1.49
8,829.000	89.26	178.54	7,266.329	-399.366	1,806.810	1,099.215	0.91	-0.19	0.89
8,919.000	89.13	178.70	7,267.594	-489.331	1,808.977	1,182.296	0.23	-0.14	0.18
9,008.000	88.76	179.61	7,269.233	-578.305	1,810.290	1,264.124	1.10	-0.42	1.02
9,097.000	90.27	180.65	7,269.986	-667.298	1,810.088	1,345.353	2.06	1.70	1.17
9,186.000	90.57	180.47	7,269.334	-756.291	1,809.218	1,426.312	0.39	0.34	-0.20
9,275.000	89.43	179.68	7,269.334	-845.289	1,809.101	1,507.580	1.56	-1.28	-0.89
9,364.000	89.10	179.61	7,270.475	-934.279	1,809.653	1,589.114	0.38	-0.37	-0.08
9,453.000	90.94	181.23	7,270.444	-1,023.270	1,809.000	1,670.159	2.75	2.07	1.82
9,542.000	91.17	180.27	7,268.805	-1,112.246	1,807.836	1,750.982	1.11	0.26	-1.08
9,631.000	91.14	179.90	7,267.011	-1,201.228	1,807.704	1,832.230	0.42	-0.03	-0.42
9,721.000	91.51	178.93	7,264.930	-1,291.198	1,808.622	1,914.807	1.15	0.41	-1.08
9,810.000	91.64	181.23	7,262.484	-1,380.158	1,808.498	1,996.039	2.59	0.15	2.58
9,899.000	91.68	180.61	7,259.906	-1,469.109	1,807.070	2,076.732	0.70	0.04	-0.70
9,988.000	91.85	181.62	7,257.164	-1,558.049	1,805.339	2,157.291	1.15	0.19	1.13
10,077.000	90.37	181.82	7,255.440	-1,646.990	1,802.668	2,237.470	1.68	-1.66	0.22
10,166.000	90.24	179.90	7,254.966	-1,735.974	1,801.332	2,318.231	2.16	-0.15	-2.16
10,255.000	89.83	179.21	7,254.912	-1,824.971	1,802.023	2,399.827	0.90	-0.46	-0.78
10,344.000	89.40	177.11	7,255.510	-1,913.918	1,804.881	2,482.258	2.41	-0.48	-2.36
10,433.000	90.67	179.85	7,255.456	-2,002.876	1,807.241	2,564.497	3.39	1.43	3.08

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well ECHEVERRIA 2K-2H-D267
Project:	Sec 2 T2N-R67W	TVD Reference:	GL 4881' & RKB 28' @ 4909.000usft (Ensign 142)
Site:	Echeverria Pad	MD Reference:	GL 4881' & RKB 28' @ 4909.000usft (Ensign 142)
Well:	ECHEVERRIA 2K-2H-D267	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Grand Junction District

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,522.000	89.77	178.69	7,255.114	-2,091.866	1,808.375	2,646.267	1.65	-1.01	-1.30	
10,611.000	89.50	177.36	7,255.681	-2,180.809	1,811.442	2,728.780	1.52	-0.30	-1.49	
10,700.000	91.84	178.36	7,254.640	-2,269.733	1,814.765	2,811.379	2.86	2.63	1.12	
10,790.000	92.62	179.33	7,251.138	-2,359.645	1,816.578	2,894.268	1.38	0.87	1.08	
10,879.000	91.51	179.21	7,247.931	-2,448.579	1,817.711	2,975.986	1.25	-1.25	-0.13	
10,968.000	91.41	179.18	7,245.664	-2,537.541	1,818.961	3,057.777	0.12	-0.11	-0.03	
11,057.000	90.23	179.04	7,244.390	-2,626.520	1,820.344	3,139.638	1.34	-1.33	-0.16	
11,146.000	88.16	179.66	7,245.640	-2,715.500	1,821.353	3,221.348	2.43	-2.33	0.70	
11,235.000	88.89	182.00	7,247.932	-2,804.454	1,820.064	3,302.101	2.75	0.82	2.63	
11,324.000	87.28	183.94	7,250.906	-2,893.278	1,815.457	3,381.385	2.83	-1.81	2.18	
11,413.000	87.01	183.27	7,255.339	-2,981.991	1,809.867	3,460.170	0.81	-0.30	-0.75	
11,502.000	86.50	182.02	7,260.377	-3,070.751	1,805.767	3,539.602	1.51	-0.57	-1.40	
11,591.000	88.52	181.41	7,264.243	-3,159.623	1,803.106	3,619.722	2.37	2.27	-0.69	
11,681.000	89.40	183.94	7,265.877	-3,249.501	1,798.907	3,700.136	2.98	0.98	2.81	
11,770.000	88.99	182.60	7,267.128	-3,338.346	1,793.830	3,779.249	1.57	-0.46	-1.51	
11,859.000	87.89	182.48	7,269.551	-3,427.224	1,789.888	3,858.853	1.24	-1.24	-0.13	
11,948.000	89.73	182.75	7,271.399	-3,516.108	1,785.828	3,938.416	2.09	2.07	0.30	
12,037.000	88.92	182.24	7,272.447	-3,605.016	1,781.954	4,018.076	1.08	-0.91	-0.57	
12,126.000	90.81	180.72	7,272.657	-3,693.980	1,779.656	4,098.426	2.73	2.12	-1.71	
12,215.000	90.60	181.08	7,271.562	-3,782.962	1,778.258	4,179.160	0.47	-0.24	0.40	
12,304.000	90.74	179.77	7,270.521	-3,871.951	1,777.598	4,260.200	1.48	0.16	-1.47	
12,363.000	90.07	177.21	7,270.104	-3,930.924	1,779.152	4,314.715	4.48	-1.14	-4.34	
Last Survey @ 12,363' MD / 7270' TVD										
12,425.000	90.07	177.21	7,270.028	-3,992.851	1,782.170	4,372.523	0.00	0.00	0.00	
PTB @ 12,425' MD / 7270' TVD - (460' FSL & 2479.47' FWL)										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
8,051.189	7,269.661	378.200	1,797.912	TPZ @ 8051' MD / 7269' TVD	
8,051.189	7,269.661	378.200	1,797.912	(480' FNL & 2457.912' FWL)	
12,363.000	7,270.104	-3,930.924	1,779.152	Last Survey @ 12,363' MD / 7270' TVD	
12,425.000	7,270.028	-3,992.851	1,782.170	PTB @ 12,425' MD / 7270' TVD	
12,425.000	7,270.028	-3,992.851	1,782.170	(460' FSL & 2479.47' FWL)	

Checked By: _____ Approved By: _____ Date: _____