

Actual Wellpath Report

ECHEVERRIA 2F-2H-D267 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CRESTONE PEAK RESOURCES OPERATING LLC	Slot	SLOT#04 ECHEVERRIA 2F-2H-D267 (898'FNL & 609'FWL SEC.2)
Area	COLORADO	Well	ECHEVERRIA 2F-2H-D267
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ECHEVERRIA 2F-2H-D267 AWB
Facility	SEC.02-T02N-R67W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Adamkat
Scale	0.999958	Report Generated	5/9/2019 at 1:14:44 PM
Convergence at slot	0.42° East	Database/Source file	Denver/ECHEVERRIA_2F-2H-D267_AWP.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-0.40	29.89	3177505.40	1306149.55	40°10'19.311"N	104°51'53.251"W
Facility Reference Pt			3177475.51	1306149.74	40°10'19.315"N	104°51'53.636"W
Field Reference Pt			3124921.48	1267514.84	40°04'00.678"N	105°03'13.165"W

WELLPATH DATUM			
Calculation method	Minimum curvature	ENSIGN 142 (4882'GL&28'RIG @4910'RKB) (RKB) to Facility Vertical Datum	4910.00ft
Horizontal Reference Pt	Slot	ENSIGN 142 (4882'GL&28'RIG @4910'RKB) (RKB) to Mean Sea Level	4910.00ft
Vertical Reference Pt	ENSIGN 142 (4882'GL&28'RIG @4910'RKB) (RKB)	ENSIGN 142 (4882'GL&28'RIG @4910'RKB) (RKB) to Ground Level at Slot (SLOT#04 ECHEVERRIA 2F-2H-D267 (898'FNL & 609'FWL SEC.2))	4910.00ft
MD Reference Pt	ENSIGN 142 (4882'GL&28'RIG @4910'RKB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	176.30°

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Area	COLORADO	Well	ECHEVERRIA 2F-2H-D267
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ECHEVERRIA 2F-2H-D267 AWB
Facility	SEC.02-T02N-R67W		

WELLPATH DATA (139 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS ["/100ft]	Comments
0.00	0.000	273.600	0.00	0.00	0.00	0.00	3177505.39	1306149.55	40°10'19.311"N	104°51'53.251"W	0.00	
172.00	0.260	273.600	172.00	-0.05	0.02	-0.39	3177505.01	1306149.58	40°10'19.311"N	104°51'53.256"W	0.15	
267.00	0.620	222.710	267.00	0.28	-0.34	-0.95	3177504.44	1306149.21	40°10'19.308"N	104°51'53.263"W	0.52	
361.00	1.500	20.480	360.99	-0.49	0.44	-0.87	3177504.52	1306149.99	40°10'19.315"N	104°51'53.262"W	2.22	
455.00	3.260	20.740	454.90	-4.05	4.09	0.51	3177505.87	1306153.65	40°10'19.351"N	104°51'53.244"W	1.87	
549.00	5.190	14.500	548.64	-10.52	10.71	2.52	3177507.84	1306160.28	40°10'19.417"N	104°51'53.219"W	2.11	
643.00	7.390	17.050	642.07	-20.22	20.60	5.36	3177510.60	1306170.20	40°10'19.515"N	104°51'53.182"W	2.36	
738.00	8.890	17.930	736.11	-32.75	33.43	9.41	3177514.56	1306183.05	40°10'19.641"N	104°51'53.130"W	1.58	
832.00	11.350	23.290	828.65	-47.75	48.84	15.30	3177520.35	1306198.50	40°10'19.794"N	104°51'53.054"W	2.80	
927.00	11.260	18.280	921.80	-64.68	66.23	21.91	3177526.83	1306215.94	40°10'19.966"N	104°51'52.969"W	1.04	
1001.00	10.960	19.600	994.42	-77.84	79.72	26.53	3177531.36	1306229.46	40°10'20.099"N	104°51'52.909"W	0.53	
1095.00	10.450	17.050	1086.78	-94.02	96.29	32.03	3177536.73	1306246.07	40°10'20.263"N	104°51'52.838"W	0.74	
1190.00	10.960	11.610	1180.13	-110.79	113.37	36.38	3177540.96	1306263.18	40°10'20.431"N	104°51'52.782"W	1.19	
1284.00	11.460	14.180	1272.34	-128.29	131.18	40.46	3177544.91	1306281.01	40°10'20.607"N	104°51'52.730"W	0.75	
1379.00	12.740	16.460	1365.23	-147.11	150.38	45.74	3177550.06	1306300.25	40°10'20.797"N	104°51'52.662"W	1.44	
1473.00	12.720	12.940	1456.92	-166.75	170.40	51.00	3177555.17	1306320.31	40°10'20.995"N	104°51'52.594"W	0.83	
1568.00	11.590	3.590	1549.79	-186.24	190.12	53.94	3177557.97	1306340.05	40°10'21.190"N	104°51'52.556"W	2.39	
1663.00	11.210	8.280	1642.92	-204.74	208.79	55.86	3177559.76	1306358.72	40°10'21.374"N	104°51'52.531"W	1.05	
1757.00	10.770	20.100	1735.21	-221.72	226.08	60.20	3177563.97	1306376.05	40°10'21.545"N	104°51'52.476"W	2.44	
1851.00	8.840	17.450	1827.83	-236.49	241.22	65.38	3177569.05	1306391.22	40°10'21.695"N	104°51'52.409"W	2.11	
1946.00	8.790	8.770	1921.71	-250.39	255.35	68.68	3177572.24	1306405.38	40°10'21.834"N	104°51'52.366"W	1.40	
2040.00	9.310	7.460	2014.54	-264.86	269.99	70.76	3177574.22	1306420.03	40°10'21.979"N	104°51'52.339"W	0.60	
2134.00	10.330	9.900	2107.17	-280.51	285.83	73.20	3177576.54	1306435.89	40°10'22.136"N	104°51'52.308"W	1.17	
2251.00	10.720	12.150	2222.20	-301.18	306.81	77.29	3177580.48	1306456.89	40°10'22.343"N	104°51'52.255"W	0.48	TIED TO 3RD PARTY SURFACE SURVEYS
2363.00	8.490	9.230	2332.62	-319.26	325.15	80.81	3177583.87	1306475.26	40°10'22.524"N	104°51'52.210"W	2.04	FIRST BHGE MWD SURVEY
2452.00	11.050	14.720	2420.33	-333.76	339.89	84.03	3177586.99	1306490.02	40°10'22.670"N	104°51'52.168"W	3.06	
2541.00	13.010	15.530	2507.37	-351.31	357.79	88.88	3177591.71	1306507.96	40°10'22.847"N	104°51'52.106"W	2.21	
2630.00	12.230	14.840	2594.22	-369.71	376.56	93.98	3177596.67	1306526.76	40°10'23.032"N	104°51'52.040"W	0.89	
2719.00	11.830	15.630	2681.26	-387.25	394.46	98.85	3177601.41	1306544.69	40°10'23.209"N	104°51'51.978"W	0.49	
2809.00	11.350	15.650	2769.43	-404.31	411.87	103.73	3177606.16	1306562.13	40°10'23.381"N	104°51'51.915"W	0.53	
2898.00	10.810	15.360	2856.77	-420.46	428.35	108.30	3177610.62	1306578.65	40°10'23.544"N	104°51'51.856"W	0.61	
2987.00	13.790	17.040	2943.71	-438.28	446.54	113.62	3177615.81	1306596.88	40°10'23.724"N	104°51'51.787"W	3.37	
3076.00	13.060	16.420	3030.28	-457.64	466.33	119.57	3177621.62	1306616.71	40°10'23.919"N	104°51'51.711"W	0.84	
3165.00	12.590	15.930	3117.06	-476.22	485.30	125.07	3177626.98	1306635.72	40°10'24.107"N	104°51'51.640"W	0.54	
3276.00	11.860	14.790	3225.54	-498.43	507.96	131.31	3177633.05	1306658.42	40°10'24.331"N	104°51'51.559"W	0.69	
3365.00	11.070	14.200	3312.77	-515.23	525.09	135.74	3177637.36	1306675.58	40°10'24.500"N	104°51'51.502"W	0.90	
3454.00	10.010	14.880	3400.26	-530.70	540.85	139.82	3177641.33	1306691.37	40°10'24.656"N	104°51'51.450"W	1.20	
3543.00	10.980	8.520	3487.78	-546.31	556.71	143.06	3177644.46	1306707.25	40°10'24.812"N	104°51'51.408"W	1.70	
3632.00	10.840	25.110	3575.19	-561.93	572.67	147.87	3177649.15	1306723.25	40°10'24.970"N	104°51'51.346"W	3.52	
3721.00	9.550	8.740	3662.80	-576.48	587.55	152.54	3177653.72	1306738.16	40°10'25.117"N	104°51'51.286"W	3.55	
3810.00	10.580	18.130	3750.44	-591.27	602.62	156.21	3177657.28	1306753.25	40°10'25.266"N	104°51'51.239"W	2.17	
3899.00	9.110	16.160	3838.12	-605.49	617.15	160.71	3177661.68	1306767.81	40°10'25.410"N	104°51'51.181"W	1.69	
3988.00	10.350	9.590	3925.84	-619.89	631.80	164.01	3177664.86	1306782.48	40°10'25.554"N	104°51'51.138"W	1.87	
4077.00	10.030	9.110	4013.44	-635.23	647.34	166.57	3177667.31	1306798.04	40°10'25.708"N	104°51'51.105"W	0.37	
4166.00	11.310	16.950	4100.90	-650.96	663.34	170.34	3177670.97	1306814.07	40°10'25.866"N	104°51'51.057"W	2.17	

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Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ECHEVERRIA 2F-2H-D267 AWB
Facility	SEC.02-T02N-R67W		

WELLPATH DATA (139 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4256.00	9.940	15.730	4189.36	-666.54	679.26	175.02	3177675.53	1306830.02	40°10'26.023"N	104°51'50.996"W	1.54	
4345.00	8.780	15.260	4277.17	-680.21	693.20	178.89	3177679.30	1306843.99	40°10'26.161"N	104°51'50.947"W	1.31	
4434.00	11.720	8.520	4364.75	-695.47	708.70	182.01	3177682.32	1306859.51	40°10'26.314"N	104°51'50.906"W	3.56	
4523.00	10.640	5.610	4452.06	-712.42	725.82	184.16	3177684.34	1306876.64	40°10'26.484"N	104°51'50.879"W	1.37	
4612.00	12.520	20.110	4539.26	-729.36	743.06	188.28	3177688.34	1306893.91	40°10'26.654"N	104°51'50.826"W	3.88	
4701.00	11.810	20.480	4626.26	-746.49	760.65	194.78	3177694.71	1306911.55	40°10'26.828"N	104°51'50.742"W	0.80	
4790.00	11.780	8.580	4713.39	-763.68	778.17	199.32	3177699.13	1306929.09	40°10'27.001"N	104°51'50.683"W	2.73	
4879.00	10.870	9.690	4800.66	-780.72	795.42	202.09	3177701.78	1306946.37	40°10'27.171"N	104°51'50.648"W	1.05	
4969.00	9.950	10.080	4889.18	-796.53	811.44	204.88	3177704.45	1306962.41	40°10'27.330"N	104°51'50.612"W	1.03	
5058.00	9.300	7.970	4976.93	-811.04	826.14	207.22	3177706.69	1306977.12	40°10'27.475"N	104°51'50.581"W	0.83	
5147.00	10.680	13.760	5064.58	-825.95	841.27	210.18	3177709.54	1306992.27	40°10'27.624"N	104°51'50.543"W	1.92	
5236.00	9.400	13.950	5152.21	-840.74	856.33	213.90	3177713.14	1307007.36	40°10'27.773"N	104°51'50.495"W	1.44	
5325.00	11.940	10.050	5239.67	-856.61	872.46	217.26	3177716.39	1307023.51	40°10'27.933"N	104°51'50.452"W	2.97	
5414.00	14.340	12.930	5326.33	-876.12	892.27	221.33	3177720.32	1307043.34	40°10'28.128"N	104°51'50.400"W	2.79	
5503.00	12.780	11.550	5412.85	-896.18	912.65	225.77	3177724.61	1307063.76	40°10'28.330"N	104°51'50.343"W	1.79	
5592.00	10.700	8.860	5499.98	-913.74	930.46	229.01	3177727.72	1307081.59	40°10'28.506"N	104°51'50.301"W	2.42	
5681.00	9.440	6.390	5587.61	-928.99	945.88	231.10	3177729.70	1307097.03	40°10'28.658"N	104°51'50.274"W	1.50	
5770.00	11.410	10.000	5675.14	-944.73	961.81	233.44	3177731.93	1307112.97	40°10'28.816"N	104°51'50.244"W	2.33	
5860.00	9.120	7.810	5763.69	-960.37	977.64	235.95	3177734.33	1307128.82	40°10'28.972"N	104°51'50.211"W	2.58	
5949.00	10.820	16.530	5851.35	-975.12	992.64	239.29	3177737.56	1307143.84	40°10'29.120"N	104°51'50.168"W	2.55	
6038.00	8.990	14.050	5939.02	-989.59	1007.40	243.35	3177741.52	1307158.62	40°10'29.266"N	104°51'50.116"W	2.11	
6127.00	11.150	9.890	6026.64	-1004.57	1022.62	246.52	3177744.57	1307173.87	40°10'29.417"N	104°51'50.075"W	2.56	
6216.00	9.820	6.340	6114.16	-1020.41	1038.64	248.84	3177746.77	1307189.91	40°10'29.575"N	104°51'50.045"W	1.66	
6305.00	12.150	15.010	6201.53	-1036.76	1055.24	252.10	3177749.92	1307206.52	40°10'29.739"N	104°51'50.003"W	3.20	
6394.00	10.650	12.650	6288.77	-1053.52	1072.31	256.33	3177754.02	1307223.62	40°10'29.908"N	104°51'49.949"W	1.76	
6483.00	9.310	7.560	6376.42	-1068.48	1087.47	259.08	3177756.66	1307238.80	40°10'30.057"N	104°51'49.913"W	1.80	
6572.00	10.470	4.060	6464.10	-1083.55	1102.67	260.60	3177758.07	1307254.02	40°10'30.208"N	104°51'49.894"W	1.47	
6662.00	6.780	10.100	6553.07	-1096.82	1116.07	262.11	3177759.49	1307267.42	40°10'30.340"N	104°51'49.874"W	4.22	
6751.00	4.250	182.830	6641.91	-1098.65	1117.95	262.87	3177760.24	1307269.31	40°10'30.359"N	104°51'49.865"W	12.37	
6840.00	4.420	244.180	6730.70	-1094.08	1113.16	259.62	3177757.02	1307264.49	40°10'30.311"N	104°51'49.906"W	4.97	
6929.00	11.150	239.260	6818.83	-1088.87	1107.26	249.12	3177746.57	1307258.52	40°10'30.253"N	104°51'50.042"W	7.59	
7018.00	18.640	223.690	6904.81	-1075.30	1092.55	231.87	3177729.42	1307243.69	40°10'30.108"N	104°51'50.264"W	9.47	
7107.00	24.490	197.630	6987.73	-1048.41	1064.60	216.41	3177714.16	1307215.63	40°10'29.831"N	104°51'50.463"W	12.46	
7196.00	31.010	180.250	7066.58	-1008.24	1023.98	210.71	3177708.75	1307174.97	40°10'29.430"N	104°51'50.537"W	11.61	
7285.00	38.840	178.700	7139.49	-957.41	973.08	211.24	3177709.65	1307124.07	40°10'28.927"N	104°51'50.530"W	8.85	
7374.00	44.280	173.070	7206.09	-898.44	914.27	215.63	3177714.46	1307065.30	40°10'28.346"N	104°51'50.473"W	7.41	
7463.00	52.190	172.370	7265.32	-832.24	848.48	224.06	3177723.36	1306999.58	40°10'27.696"N	104°51'50.365"W	8.91	
7552.00	63.690	171.970	7312.48	-757.14	773.88	234.33	3177734.17	1306925.06	40°10'26.958"N	104°51'50.232"W	12.93	
7641.00	70.260	171.680	7347.28	-675.52	692.85	245.98	3177746.39	1306844.12	40°10'26.158"N	104°51'50.082"W	7.39	
7730.00	73.560	175.400	7374.92	-591.05	608.81	255.47	3177756.48	1306760.15	40°10'25.327"N	104°51'49.960"W	5.43	
7820.00	80.150	175.570	7395.37	-503.47	521.49	262.36	3177764.00	1306672.89	40°10'24.464"N	104°51'49.871"W	7.32	
7909.00	83.840	173.450	7407.77	-415.40	433.78	270.80	3177773.07	1306585.24	40°10'23.598"N	104°51'49.763"W	4.77	
7924.00†	84.777	174.564	7409.25	-400.48	418.94	272.36	3177774.73	1306570.41	40°10'23.451"N	104°51'49.742"W	9.67	TPZ (480'FNL & 881'FWL, SEC.02)
7998.00	89.420	180.020	7413.00	-326.64	345.16	275.84	3177778.74	1306496.67	40°10'22.722"N	104°51'49.698"W	9.67	
8087.00	90.270	181.920	7413.24	-237.94	256.18	274.33	3177777.87	1306407.68	40°10'21.843"N	104°51'49.717"W	2.34	

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Operator	CRESTONE PEAK RESOURCES OPERATING LLC	Slot	SLOT#04 ECHEVERRIA 2F-2H-D267 (898'FNL & 609'FWL SEC.2)
Area	COLORADO	Well	ECHEVERRIA 2F-2H-D267
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ECHEVERRIA 2F-2H-D267 AWB
Facility	SEC.02-T02N-R67W		

WELLPATH DATA (139 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8176.00	90.410	182.440	7412.71	-149.41	167.25	270.95	3177775.12	1306318.73	40°10'20.964"N	104°51'49.761"W	0.61	
8265.00	88.110	178.300	7413.86	-60.67	78.28	270.37	3177775.19	1306229.77	40°10'20.085"N	104°51'49.768"W	5.32	
8354.00	88.140	178.260	7416.78	28.23	-10.63	273.04	3177778.49	1306140.88	40°10'19.206"N	104°51'49.734"W	0.06	
8443.00	87.880	177.690	7419.87	117.14	-99.52	276.18	3177782.27	1306052.02	40°10'18.328"N	104°51'49.693"W	0.70	
8532.00	89.070	179.000	7422.24	206.05	-188.45	278.75	3177785.48	1305963.11	40°10'17.449"N	104°51'49.660"W	1.99	
8621.00	90.160	176.900	7422.83	295.00	-277.38	281.94	3177789.30	1305874.21	40°10'16.570"N	104°51'49.619"W	2.66	
8710.00	93.240	177.330	7420.19	383.95	-366.22	286.41	3177794.41	1305785.41	40°10'15.692"N	104°51'49.561"W	3.49	
8799.00	93.980	177.270	7414.59	472.75	-454.94	290.60	3177799.23	1305696.72	40°10'14.815"N	104°51'49.508"W	0.83	
8888.00	94.800	179.830	7407.78	561.42	-543.65	292.84	3177802.11	1305608.04	40°10'13.939"N	104°51'49.479"W	3.01	
8977.00	93.660	183.180	7401.21	649.79	-632.36	290.51	3177800.42	1305519.32	40°10'13.062"N	104°51'49.509"W	3.97	
9067.00	91.240	186.700	7397.36	738.67	-721.92	282.77	3177793.31	1305429.71	40°10'12.177"N	104°51'49.608"W	4.74	
9156.00	88.070	188.240	7397.90	825.97	-810.15	271.20	3177782.38	1305341.40	40°10'11.305"N	104°51'49.758"W	3.96	
9245.00	85.360	186.660	7403.00	913.13	-898.24	259.68	3177771.49	1305253.23	40°10'10.435"N	104°51'49.906"W	3.52	
9334.00	84.840	183.040	7410.60	1000.81	-986.59	252.18	3177764.63	1305164.84	40°10'09.562"N	104°51'50.003"W	4.09	
9423.00	87.390	179.130	7416.63	1089.27	-1075.34	250.51	3177763.59	1305076.08	40°10'08.684"N	104°51'50.024"W	5.24	
9512.00	88.450	176.620	7419.86	1178.17	-1164.21	253.80	3177767.52	1304987.24	40°10'07.806"N	104°51'49.982"W	3.06	
9601.00	91.120	176.670	7420.20	1267.16	-1253.05	259.01	3177773.36	1304898.45	40°10'06.928"N	104°51'49.915"W	3.00	
9691.00	91.090	176.930	7418.46	1357.14	-1342.89	264.03	3177779.03	1304808.64	40°10'06.040"N	104°51'49.850"W	0.29	
9780.00	91.190	177.060	7416.69	1446.11	-1431.75	268.70	3177784.33	1304719.82	40°10'05.162"N	104°51'49.790"W	0.18	
9869.00	92.070	176.940	7414.16	1535.07	-1520.60	273.36	3177789.62	1304631.02	40°10'04.284"N	104°51'49.730"W	1.00	
9958.00	92.760	179.530	7410.41	1623.93	-1609.47	276.09	3177793.00	1304542.18	40°10'03.406"N	104°51'49.695"W	3.01	
10047.00	90.350	182.410	7407.99	1712.59	-1698.40	274.59	3177792.13	1304453.23	40°10'02.527"N	104°51'49.714"W	4.22	
10136.00	87.820	184.380	7409.42	1800.88	-1787.23	269.32	3177787.50	1304364.38	40°10'01.650"N	104°51'49.782"W	3.60	
10225.00	85.340	182.840	7414.72	1888.99	-1875.88	263.72	3177782.54	1304275.69	40°10'00.773"N	104°51'49.854"W	3.28	
10314.00	84.850	179.980	7422.34	1977.30	-1964.52	261.54	3177780.99	1304187.05	40°09'59.898"N	104°51'49.882"W	3.25	
10403.00	86.500	175.460	7429.05	2066.00	-2053.17	265.07	3177785.16	1304098.43	40°09'59.022"N	104°51'49.837"W	5.39	
10492.00	90.150	173.000	7431.65	2154.88	-2141.66	274.02	3177794.73	1304010.01	40°09'58.147"N	104°51'49.721"W	4.94	
10581.00	93.290	174.330	7428.98	2243.73	-2230.06	283.83	3177805.18	1303921.68	40°09'57.273"N	104°51'49.595"W	3.83	
10670.00	93.460	177.950	7423.74	2332.56	-2318.69	289.81	3177811.80	1303833.10	40°09'56.398"N	104°51'49.518"W	4.06	
10759.00	94.070	180.410	7417.89	2421.25	-2407.48	291.09	3177813.70	1303744.32	40°09'55.520"N	104°51'49.502"W	2.84	
10849.00	92.950	181.310	7412.38	2510.80	-2497.30	289.74	3177813.00	1303654.50	40°09'54.633"N	104°51'49.519"W	1.60	
10938.00	91.420	182.130	7408.99	2599.33	-2586.19	287.07	3177810.97	1303565.60	40°09'53.754"N	104°51'49.553"W	1.95	
11027.00	87.850	182.240	7409.56	2687.84	-2675.11	283.67	3177808.21	1303476.66	40°09'52.875"N	104°51'49.597"W	4.01	
11116.00	87.590	181.740	7413.10	2776.33	-2763.99	280.59	3177805.76	1303387.77	40°09'51.997"N	104°51'49.637"W	0.63	
11205.00	89.790	179.610	7415.13	2865.04	-2852.95	279.54	3177805.35	1303298.81	40°09'51.118"N	104°51'49.650"W	3.44	
11294.00	91.410	180.610	7414.20	2953.84	-2941.94	279.37	3177805.82	1303209.82	40°09'50.239"N	104°51'49.653"W	2.14	
11383.00	91.950	180.550	7411.59	3042.55	-3030.89	278.47	3177805.55	1303120.87	40°09'49.360"N	104°51'49.664"W	0.61	
11472.00	91.130	183.640	7409.20	3131.05	-3119.79	275.22	3177802.94	1303031.95	40°09'48.481"N	104°51'49.706"W	3.59	
11561.00	88.840	185.370	7409.22	3219.13	-3208.51	268.23	3177796.58	1302943.19	40°09'47.604"N	104°51'49.796"W	3.22	
11650.00	88.640	184.950	7411.18	3307.05	-3297.12	260.22	3177789.22	1302854.52	40°09'46.729"N	104°51'49.899"W	0.52	
11740.00	88.680	183.000	7413.29	3396.21	-3386.88	253.99	3177783.62	1302764.73	40°09'45.842"N	104°51'49.980"W	2.17	
11829.00	89.650	183.640	7414.58	3484.53	-3475.72	248.83	3177779.11	1302675.86	40°09'44.964"N	104°51'50.046"W	1.31	
11918.00	89.900	183.110	7414.93	3572.85	-3564.56	243.59	3177774.50	1302586.98	40°09'44.086"N	104°51'50.113"W	0.66	
12007.00	87.410	180.890	7417.02	3661.38	-3653.47	240.49	3177772.03	1302498.06	40°09'43.207"N	104°51'50.153"W	3.75	
12096.00	87.780	176.730	7420.76	3750.19	-3742.36	242.33	3177774.52	1302409.20	40°09'42.329"N	104°51'50.130"W	4.69	

Actual Wellpath Report

ECHEVERRIA 2F-2H-D267 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	CRESTONE PEAK RESOURCES OPERATING LLC	Slot	SLOT#04 ECHEVERRIA 2F-2H-D267 (898'FNL & 609'FWL SEC.2)
Area	COLORADO	Well	ECHEVERRIA 2F-2H-D267
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ECHEVERRIA 2F-2H-D267 AWB
Facility	SEC.02-T02N-R67W		

WELLPATH DATA (139 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS ["/100ft]	Comments
12185.00	90.820	176.180	7421.84	3839.18	-3831.17	247.84	3177780.66	1302320.43	40°09'41.451"N	104°51'50.059"W	3.47	
12274.00	91.180	176.180	7420.29	3928.16	-3919.96	253.76	3177787.22	1302231.69	40°09'40.574"N	104°51'49.983"W	0.40	
12280.00	91.190	176.490	7420.17	3934.16	-3925.94	254.15	3177787.65	1302225.71	40°09'40.515"N	104°51'49.978"W	5.17	LAST BHGE MWD SURVEY (398'FSL & 900'FWL, SEC.02)
12335.00	91.190	176.490	7419.03	3989.15	-3980.83	257.51	3177791.41	1302170.85	40°09'39.972"N	104°51'49.934"W	0.00	PROJECTION TO BIT (453'FSL & 902'FWL, SEC.02)

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.02-T02N-R67W	-1.00	0.35	-29.92	3177475.48	1306149.69	40°10'19.314"N	104°51'53.636"W	polygon
ECHEVERRIA 2F-2H-D267 TPZ REV-1 (460'FNL & 900'FWL SEC.2)	7414.00	432.10	293.40	3177795.68	1306583.72	40°10'23.581"N	104°51'49.471"W	point
ECHEVERRIA 2F-2H-D267 BHL REV-1 (460'FSL & 900'FWL SEC.2)	7422.00	-3987.73	254.60	3177788.54	1302163.93	40°09'39.904"N	104°51'49.972"W	point

WELLPATH COMPOSITION - Ref Wellbore: ECHEVERRIA 2F-2H-D267 AWB Ref Wellpath: ECHEVERRIA 2F-2H-D267 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	2251.00	ISCWSA MWD, Rev. 4 (Standard)	SURFACE SURVEYS FROM CRESTONE PEAK <172-2251>	ECHEVERRIA 2F-2H-D267 AWB
2251.00	12280.00	BHI NaviTrak (Rotating+Axial Corr)	BHGE NAVITRAK (ROTATING + AXIAL) 8 1/2" MONOBORE <2251 - 12280>	ECHEVERRIA 2F-2H-D267 AWB
12280.00	12335.00	Blind Drilling (std)	Projection to bit	ECHEVERRIA 2F-2H-D267 AWB

Actual Wellpath Report

ECHEVERRIA 2F-2H-D267 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	CRESTONE PEAK RESOURCES OPERATING LLC	Slot	SLOT#04 ECHEVERRIA 2F-2H-D267 (898'FNL & 609'FWL SEC.2)
Area	COLORADO	Well	ECHEVERRIA 2F-2H-D267
Field	WELD COUNTY (NAD83/TRUE)	Wellbore	ECHEVERRIA 2F-2H-D267 AWB
Facility	SEC.02-T02N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
2251.00	10.720	12.150	2222.20	TIED TO 3RD PARTY SURFACE SURVEYS
2363.00	8.490	9.230	2332.62	FIRST BHGE MWD SURVEY
7924.00	84.777	174.564	7409.25	TPZ (480'FNL & 881'FWL, SEC.02)
12280.00	91.190	176.490	7420.17	LAST BHGE MWD SURVEY (398'FSL & 900'FWL, SEC.02)
12335.00	91.190	176.490	7419.03	PROJECTION TO BIT (453'FSL & 902'FWL, SEC.02)