

EXTRACTION OIL & GAS

Location: COLORADO Slot: SLOT#08 COYOTE TRAILS 34S-20-9N (1146'FSL & 2157'FEL, SEC.28)
Field: WELD COUNTY (NAD83/TRUE NORTH) Well: COYOTE TRAILS 34S-20-9N
Facility: SEC.28-T01N-R68W Wellbore: COYOTE TRAILS 34S-20-9N PWB

Plot reference wellpath is COYOTE TRAILS 34S-20-9N PWP (REV-B.0)

True vertical depths are referenced to PATTERSON 901 (29'KB) (RKB)

Measured depths are referenced to PATTERSON 901 (29'KB) (RKB)

PATTERSON 901 (29'KB) (RKB) to Mean Sea Level: 5299 feet

Mean Sea Level to Mud line (At Slot: SLOT#08 COYOTE TRAILS 34S-20-9N (1146'FSL & 2157'FEL, SEC.28)): 0 feet

Coordinates are in feet referenced to Slot

Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet

* = Wellpath was transformed from a different geodetic datum

North Reference: True north

Scale: True distance

Depths are in feet

Created by: ingnjm on 2018-04-25

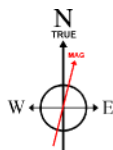
Database: Denver



BAKER DRILLED USING THIRD PARTY MWD-FIRST SURVEY : 0.71° Inc, 214.00ft MD, 214.00ft TVD, -0.22ft VS

Scale 1 inch = 2000

True Vertical Depth (ft)



BGGM (1900.0 to 2019.0) Dip: 66.49° Field: 52043.6 nT
Magnetic North is 8.42 degrees East of True North (at 3/23/2018)

To correct azimuth from Magnetic to True add 8.42 degrees

CROSSED 460'SETBACK (460'FNL & 303'FEL, SEC.33) : 83.04° Inc, 8684.00ft MD, 7991.57ft TVD, 1884.02ft VS

COYOTE TRAILS 34S-20-9N LP REV-1 (460'FNL & 306'FEL, SEC.33)

BAKER DRILLED USING THIRD PARTY MWD-LAST SURVEY
(206'FSL & 760'FEL, SEC.04) : 8024.83ft TVD, 11196.14ft S, 1910.14ft E

PROJECTION TO BIT (175'FSL & 761'FEL, SEC.04) :
8025.01ft TVD, 11227.12ft S, 1911.30ft E

COYOTE TRAILS 34S-20-9N BHL REV-1 (150'FSL & 762'FEL, SEC.04)

BAKER DRILLED USING THIRD PARTY MWD-LAST SURVEY
(206'FSL & 760'FEL, SEC.04) : 89.66° Inc, 18295.00ft MD, 8024.83ft TVD, 11357.91ft VS

PROJECTION TO BIT (175'FSL & 761'FEL, SEC.04) : 89.66° Inc, 18326.00ft MD, 8025.01ft TVD, 11388.65ft VS

COYOTE TRAILS 34S-20-9N BHL REV-1 (150'FSL & 762'FEL, SEC.04)

Vertical Section (ft)

Azimuth 170.36° with reference 0.00 N, 0.00 E

Easting (ft)

Scale 1 inch = 2200

SLOT#08 COYOTE TRAILS 34S-20-9N (1146'FSL & 2157'FEL, SEC.28)

BAKER DRILLED USING THIRD PARTY MWD-FIRST SURVEY : 214.00ft TVD, 0.40ft N, 1.07ft E

SEC.28-T01N-R68W

SEC.33-T01N-R68W (460'FNL SETBACKS)

CROSSED 460'SETBACK (460'FNL & 303'FEL, SEC.33) :
7991.57ft TVD, 1593.38ft S, 1869.48ft E

COYOTE TRAILS 34S-20-9N LP REV-1
(460'FNL & 306'FEL, SEC.33)

SEC.27-T01N-R68W

SEC.34-T01N-R68W (460'FNL SETBACKS)

SEC.33-T01N-R68W

SEC.04-T01S-R68W

SEC.34-T01N-R68W

SEC.03-T01S-R68W

SEC.04-T01S-R68W (150'FSL SETBACKS)

SEC.03-T01S-R68W (150'FSL SETBACKS)

Northing (ft)

Scale 1 inch = 2000



Actual Wellpath Report

COYOTE TRAILS 34S-20-9N AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#08 COYOTE TRAILS 34S-20-9N (1146'FSL & 2157'FEL, SEC.28)
Area	COLORADO	Well	COYOTE TRAILS 34S-20-9N
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	COYOTE TRAILS 34S-20-9N AWP
Facility	SEC.28-T01N-R68W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Ingmjmr
Scale	0.999965	Report Generated	4/25/2018 at 1:40:42 PM
Convergence at slot	0.32° East	Database/Source file	Denver/COYOTE_TRAILS_34S-20-9N_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.71	-126.04	3138143.88	1249778.86	40°01'04.710"N	105°00'24.361"W
Facility Reference Pt			3138269.92	1249778.85	40°01'04.703"N	105°00'22.741"W
Field Reference Pt			3185481.27	1419166.81	40°28'55.560"N	104°49'59.556"W

WELLPATH DATUM

Calculation method	Minimum curvature	PATTERSON 901 (29'KB) (RKB) to Facility Vertical Datum	5299.00ft
Horizontal Reference Pt	Slot	PATTERSON 901 (29'KB) (RKB) to Mean Sea Level	5299.00ft
Vertical Reference Pt	PATTERSON 901 (29'KB) (RKB)	PATTERSON 901 (29'KB) (RKB) to Mud Line at Slot (SLOT#08 COYOTE TRAILS 34S-20-9N (1146'FSL & 2157'FEL, SEC.28))	5299.00ft
MD Reference Pt	PATTERSON 901 (29'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	170.36°



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Area	COLORADO	Well	COYOTE TRAILS 34S-20-9N
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	COYOTE TRAILS 34S-20-9N AWB
Facility	SEC.28-T01N-R68W		

WELLPATH DATA (194 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	69.340	0.00	0.00	0.00	0.00	40°01'04.710"N	105°00'24.361"W	0.00	
29.00	0.000	69.340	29.00	0.00	0.00	0.00	40°01'04.710"N	105°00'24.361"W	0.00	
214.00	0.710	69.340	214.00	-0.22	0.40	1.07	40°01'04.714"N	105°00'24.347"W	0.38	BAKER DRILLED USING THIRD PARTY MWD-FIRST SURVEY
305.00	0.620	70.620	304.99	-0.41	0.77	2.06	40°01'04.718"N	105°00'24.334"W	0.10	
401.00	0.400	90.430	400.99	-0.44	0.94	2.89	40°01'04.719"N	105°00'24.324"W	0.29	
496.00	0.490	120.640	495.98	-0.12	0.73	3.57	40°01'04.717"N	105°00'24.315"W	0.26	
591.00	0.310	102.260	590.98	0.24	0.47	4.17	40°01'04.715"N	105°00'24.307"W	0.23	
687.00	0.310	133.550	686.98	0.54	0.23	4.61	40°01'04.712"N	105°00'24.302"W	0.17	
782.00	1.680	126.940	781.96	1.76	-0.78	5.91	40°01'04.702"N	105°00'24.285"W	1.44	
877.00	3.580	111.030	876.86	4.29	-2.68	9.79	40°01'04.683"N	105°00'24.235"W	2.12	
973.00	5.790	122.930	972.53	9.09	-6.39	16.66	40°01'04.647"N	105°00'24.147"W	2.50	
1068.00	6.810	123.240	1066.96	16.17	-12.09	25.39	40°01'04.591"N	105°00'24.035"W	1.07	
1163.00	7.690	112.750	1161.20	23.41	-17.63	35.96	40°01'04.536"N	105°00'23.899"W	1.67	
1259.00	8.620	108.650	1256.23	30.26	-22.42	48.70	40°01'04.488"N	105°00'23.735"W	1.14	
1354.00	9.810	114.160	1350.01	38.13	-28.00	62.83	40°01'04.433"N	105°00'23.553"W	1.56	
1450.00	11.400	114.420	1444.36	48.00	-35.27	78.94	40°01'04.361"N	105°00'23.346"W	1.66	
1545.00	13.390	112.220	1537.15	59.07	-43.32	97.67	40°01'04.282"N	105°00'23.106"W	2.15	
1661.00	13.240	111.810	1650.03	73.09	-53.33	122.44	40°01'04.183"N	105°00'22.787"W	0.15	
1756.00	16.200	116.690	1741.90	86.62	-63.33	144.38	40°01'04.084"N	105°00'22.505"W	3.38	
1852.00	18.670	123.510	1833.49	105.07	-77.83	169.17	40°01'03.941"N	105°00'22.187"W	3.34	
1947.00	20.040	125.200	1923.12	126.95	-95.61	195.15	40°01'03.765"N	105°00'21.853"W	1.56	
2043.00	21.210	124.250	2012.97	150.59	-114.86	222.94	40°01'03.575"N	105°00'21.496"W	1.27	
2138.00	23.690	119.570	2100.77	174.57	-133.96	253.75	40°01'03.386"N	105°00'21.100"W	3.22	
2234.00	23.550	117.230	2188.73	198.27	-152.25	287.58	40°01'03.205"N	105°00'20.665"W	0.99	
2329.00	22.910	115.500	2276.03	220.31	-168.90	321.15	40°01'03.041"N	105°00'20.233"W	0.98	
2424.00	22.700	118.860	2363.61	242.36	-185.71	353.89	40°01'02.875"N	105°00'19.812"W	1.39	
2520.00	22.790	122.060	2452.14	266.27	-204.52	385.87	40°01'02.689"N	105°00'19.401"W	1.29	
2615.00	23.450	124.010	2539.51	291.56	-224.86	417.14	40°01'02.488"N	105°00'19.000"W	1.06	
2711.00	22.870	123.360	2627.78	317.46	-245.80	448.55	40°01'02.281"N	105°00'18.596"W	0.66	
2806.00	24.840	120.770	2714.66	342.99	-266.16	481.12	40°01'02.080"N	105°00'18.177"W	2.35	



Actual Wellpath Report

COYOTE TRAILS 34S-20-9N AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EXTRACTION OIL & GAS	Slot	SLOT#08 COYOTE TRAILS 34S-20-9N (1146'FSL & 2157'FEL, SEC.28)
Area	COLORADO	Well	COYOTE TRAILS 34S-20-9N
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	COYOTE TRAILS 34S-20-9N AWB
Facility	SEC.28-T01N-R68W		

WELLPATH DATA (194 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2902.00	23.640	119.240	2802.20	368.15	-285.88	515.24	40°01'01.885"N	105°00'17.739"W	1.41	
2997.00	21.920	118.280	2889.78	391.01	-303.59	547.48	40°01'01.710"N	105°00'17.324"W	1.85	
3093.00	22.960	118.100	2978.51	413.48	-320.90	579.78	40°01'01.539"N	105°00'16.909"W	1.09	
3188.00	22.950	117.810	3065.99	436.09	-338.26	612.51	40°01'01.367"N	105°00'16.489"W	0.12	
3284.00	24.100	121.980	3154.01	460.49	-357.38	645.69	40°01'01.178"N	105°00'16.062"W	2.11	
3379.00	22.270	121.610	3241.34	485.25	-377.09	677.48	40°01'00.983"N	105°00'15.654"W	1.93	
3475.00	22.570	122.590	3330.08	509.62	-396.55	708.49	40°01'00.791"N	105°00'15.255"W	0.50	
3570.00	22.840	122.250	3417.72	534.19	-416.20	739.44	40°01'00.597"N	105°00'14.857"W	0.32	
3665.00	25.530	123.270	3504.37	560.45	-437.28	772.16	40°01'00.389"N	105°00'14.437"W	2.87	
3761.00	24.330	122.890	3591.43	587.90	-459.37	806.06	40°01'00.170"N	105°00'14.001"W	1.26	
3857.00	24.410	118.970	3678.88	613.65	-479.71	840.03	40°00'59.969"N	105°00'13.564"W	1.69	
3953.00	24.410	118.980	3766.30	638.41	-498.93	874.73	40°00'59.779"N	105°00'13.118"W	0.00	
4048.00	24.290	117.800	3852.85	662.54	-517.56	909.19	40°00'59.595"N	105°00'12.675"W	0.53	
4143.00	24.900	116.430	3939.23	686.20	-535.57	944.38	40°00'59.417"N	105°00'12.223"W	0.88	
4239.00	22.830	117.850	4027.02	709.44	-553.27	978.95	40°00'59.242"N	105°00'11.779"W	2.24	
4335.00	23.870	120.780	4115.16	733.37	-571.91	1012.11	40°00'59.058"N	105°00'11.353"W	1.62	
4430.00	21.060	120.110	4202.94	756.75	-590.31	1043.39	40°00'58.876"N	105°00'10.951"W	2.97	
4526.00	20.390	122.180	4292.73	778.94	-607.87	1072.47	40°00'58.703"N	105°00'10.577"W	1.03	
4621.00	21.830	120.590	4381.35	801.38	-625.68	1101.68	40°00'58.527"N	105°00'10.201"W	1.63	
4717.00	20.740	117.130	4470.80	823.09	-642.51	1132.18	40°00'58.360"N	105°00'09.809"W	1.73	
4812.00	22.540	116.620	4559.11	843.93	-658.34	1163.43	40°00'58.204"N	105°00'09.408"W	1.91	
4908.00	26.420	117.810	4646.46	867.81	-676.56	1198.78	40°00'58.024"N	105°00'08.953"W	4.07	
5003.00	23.440	117.210	4732.60	892.00	-695.06	1234.29	40°00'57.841"N	105°00'08.497"W	3.15	
5099.00	24.080	115.040	4820.46	914.60	-712.08	1269.02	40°00'57.673"N	105°00'08.051"W	1.13	
5194.00	25.470	116.190	4906.72	937.59	-729.30	1304.91	40°00'57.502"N	105°00'07.590"W	1.55	
5290.00	23.040	115.780	4994.24	960.56	-746.59	1340.35	40°00'57.332"N	105°00'07.134"W	2.54	
5385.00	24.490	116.700	5081.18	983.01	-763.52	1374.68	40°00'57.164"N	105°00'06.693"W	1.58	
5481.00	26.370	120.840	5167.88	1008.65	-783.39	1410.77	40°00'56.968"N	105°00'06.229"W	2.69	
5576.00	22.850	120.590	5254.24	1034.26	-803.60	1444.77	40°00'56.768"N	105°00'05.792"W	3.71	
5671.00	21.610	119.650	5342.18	1057.26	-821.64	1475.86	40°00'56.590"N	105°00'05.392"W	1.36	



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COYOTE TRAILS 34S-20-9N AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#08 COYOTE TRAILS 34S-20-9N (1146'FSL & 2157'FEL, SEC.28)
Area	COLORADO	Well	COYOTE TRAILS 34S-20-9N
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	COYOTE TRAILS 34S-20-9N AWB
Facility	SEC.28-T01N-R68W		

WELLPATH DATA (194 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5767.00	25.280	119.600	5430.23	1081.43	-840.52	1509.05	40°00'56.403"N	105°00'04.966"W	3.82	
5863.00	22.280	119.500	5518.07	1105.89	-859.61	1542.72	40°00'56.215"N	105°00'04.533"W	3.13	
5958.00	19.240	119.480	5606.90	1127.14	-876.18	1572.03	40°00'56.051"N	105°00'04.156"W	3.20	
6053.00	19.330	119.680	5696.56	1146.98	-891.67	1599.32	40°00'55.898"N	105°00'03.806"W	0.12	
6149.00	19.870	121.560	5787.00	1167.80	-908.08	1627.02	40°00'55.736"N	105°00'03.450"W	0.86	
6244.00	20.600	117.200	5876.14	1188.45	-924.17	1655.65	40°00'55.577"N	105°00'03.082"W	1.76	
6340.00	21.580	115.490	5965.71	1208.74	-939.49	1686.60	40°00'55.425"N	105°00'02.684"W	1.21	
6435.00	20.860	117.380	6054.27	1228.98	-954.78	1717.39	40°00'55.274"N	105°00'02.288"W	1.05	
6531.00	19.030	119.800	6144.51	1249.22	-970.42	1746.16	40°00'55.119"N	105°00'01.919"W	2.09	
6627.00	15.510	113.970	6236.18	1266.27	-983.42	1771.48	40°00'54.991"N	105°00'01.593"W	4.08	
6722.00	15.070	121.440	6327.82	1281.42	-995.03	1793.62	40°00'54.876"N	105°00'01.309"W	2.12	
6818.00	13.130	122.370	6420.93	1296.92	-1007.37	1813.48	40°00'54.754"N	105°00'01.053"W	2.03	
6913.00	11.340	117.930	6513.77	1309.84	-1017.53	1830.85	40°00'54.654"N	105°00'00.830"W	2.13	
7009.00	8.650	125.260	6608.31	1320.69	-1026.12	1845.08	40°00'54.569"N	105°00'00.647"W	3.09	
7104.00	6.750	128.130	6702.44	1329.87	-1033.69	1855.31	40°00'54.494"N	105°00'00.516"W	2.04	
7200.00	2.700	113.140	6798.10	1335.28	-1038.06	1861.83	40°00'54.451"N	105°00'00.432"W	4.38	
7319.00	1.100	359.130	6917.06	1335.67	-1038.02	1864.39	40°00'54.451"N	105°00'00.399"W	2.78	
7414.00	1.240	347.550	7012.04	1333.74	-1036.11	1864.15	40°00'54.470"N	105°00'00.402"W	0.29	
7510.00	1.670	355.620	7108.01	1331.31	-1033.70	1863.82	40°00'54.494"N	105°00'00.406"W	0.50	
7605.00	1.990	358.340	7202.96	1328.29	-1030.67	1863.67	40°00'54.524"N	105°00'00.408"W	0.35	
7701.00	1.260	306.560	7298.92	1325.88	-1028.37	1862.77	40°00'54.547"N	105°00'00.420"W	1.63	
7796.00	5.510	188.700	7393.79	1329.46	-1032.26	1861.24	40°00'54.508"N	105°00'00.439"W	6.53	
7892.00	14.010	185.350	7488.31	1345.09	-1048.42	1859.46	40°00'54.349"N	105°00'00.462"W	8.87	
7987.00	23.070	181.710	7578.29	1374.51	-1078.54	1857.83	40°00'54.051"N	105°00'00.483"W	9.61	
8083.00	28.410	188.720	7664.75	1414.66	-1119.95	1853.80	40°00'53.642"N	105°00'00.535"W	6.39	
8179.00	35.830	179.450	7746.05	1464.18	-1170.72	1850.60	40°00'53.140"N	105°00'00.576"W	9.26	
8274.00	45.030	176.710	7818.29	1525.17	-1232.21	1852.80	40°00'52.532"N	105°00'00.548"W	9.86	
8369.00	52.510	175.690	7880.86	1596.20	-1303.45	1857.57	40°00'51.828"N	105°00'00.487"W	7.91	
8464.00	62.220	175.320	7932.03	1675.78	-1383.11	1863.85	40°00'51.041"N	105°00'00.406"W	10.23	
8560.00	73.670	178.740	7968.03	1763.98	-1471.80	1868.34	40°00'50.165"N	105°00'00.349"W	12.37	



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Facility	SEC.28-T01N-R68W		

WELLPATH DATA (194 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8656.00	82.300	179.960	7988.00	1856.63	-1565.60	1869.39	40°00'49.238"N	105°00'00.335"W	9.07	
8684.00†	83.037	179.658	7991.57	1884.02	-1593.38	1869.48	40°00'48.963"N	105°00'00.334"W	2.84	CROSSED 460'SETBACK (460'FNL & 303'FEL, SEC.33)
8751.00	84.800	178.940	7998.67	1949.83	-1659.99	1870.30	40°00'48.305"N	105°00'00.324"W	2.84	
8846.00	88.490	178.460	8004.23	2043.65	-1754.79	1872.45	40°00'47.368"N	105°00'00.296"W	3.92	
8942.00	90.680	178.730	8004.92	2138.65	-1850.75	1874.80	40°00'46.420"N	105°00'00.266"W	2.30	
9064.00	91.040	178.830	8003.09	2259.32	-1972.71	1877.40	40°00'45.214"N	105°00'00.233"W	0.31	
9159.00	90.470	178.580	8001.84	2353.31	-2067.67	1879.55	40°00'44.276"N	105°00'00.205"W	0.66	
9254.00	90.360	179.740	8001.15	2447.18	-2162.66	1880.94	40°00'43.337"N	105°00'00.187"W	1.23	
9350.00	90.450	179.870	8000.47	2541.88	-2258.66	1881.27	40°00'42.389"N	105°00'00.183"W	0.16	
9445.00	90.520	180.780	7999.67	2635.44	-2353.65	1880.73	40°00'41.450"N	105°00'00.190"W	0.96	
9541.00	90.450	179.940	7998.85	2729.98	-2449.65	1880.12	40°00'40.501"N	105°00'00.198"W	0.88	
9636.00	90.550	181.070	7998.03	2823.49	-2544.64	1879.29	40°00'39.562"N	105°00'00.209"W	1.19	
9731.00	90.600	182.170	7997.07	2916.65	-2639.59	1876.60	40°00'38.624"N	105°00'00.244"W	1.16	
9828.00	90.710	182.780	7995.96	3011.48	-2736.49	1872.41	40°00'37.666"N	105°00'00.298"W	0.64	
9922.00	90.980	183.310	7994.58	3103.18	-2830.35	1867.42	40°00'36.739"N	105°00'00.362"W	0.63	
10018.00	90.910	183.630	7992.99	3196.66	-2926.16	1861.61	40°00'35.792"N	105°00'00.437"W	0.34	
10113.00	90.980	184.000	7991.43	3289.04	-3020.94	1855.29	40°00'34.856"N	105°00'00.518"W	0.40	
10209.00	89.830	183.760	7990.75	3382.37	-3116.71	1848.80	40°00'33.909"N	105°00'00.601"W	1.22	
10304.00	90.060	183.730	7990.84	3474.79	-3211.51	1842.59	40°00'32.972"N	105°00'00.681"W	0.24	
10400.00	89.980	182.610	7990.81	3568.40	-3307.36	1837.28	40°00'32.025"N	105°00'00.750"W	1.17	
10495.00	89.980	181.120	7990.84	3661.49	-3402.31	1834.19	40°00'31.087"N	105°00'00.789"W	1.57	
10591.00	90.010	178.140	7990.85	3756.22	-3498.30	1834.81	40°00'30.138"N	105°00'00.781"W	3.10	
10686.00	90.410	176.030	7990.50	3850.56	-3593.17	1839.64	40°00'29.201"N	105°00'00.720"W	2.26	
10782.00	89.900	174.450	7990.24	3946.21	-3688.83	1847.61	40°00'28.255"N	105°00'00.617"W	1.73	
10877.00	90.000	173.570	7990.32	4041.01	-3783.31	1857.52	40°00'27.321"N	105°00'00.490"W	0.93	
10972.00	89.940	175.650	7990.37	4135.75	-3877.89	1866.44	40°00'26.387"N	105°00'00.375"W	2.19	
11068.00	89.960	176.360	7990.46	4231.28	-3973.65	1873.13	40°00'25.440"N	105°00'00.289"W	0.74	
11163.00	89.890	177.960	7990.58	4325.61	-4068.53	1877.84	40°00'24.503"N	105°00'00.229"W	1.69	
11259.00	89.870	180.970	7990.78	4420.39	-4164.52	1878.73	40°00'23.554"N	105°00'00.218"W	3.14	
11355.00	90.050	183.110	7990.85	4514.39	-4260.45	1875.32	40°00'22.606"N	105°00'00.262"W	2.24	



Actual Wellpath Report

COYOTE TRAILS 34S-20-9N AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EXTRACTION OIL & GAS	Slot	SLOT#08 COYOTE TRAILS 34S-20-9N (1146'FSL & 2157'FEL, SEC.28)
Area	COLORADO	Well	COYOTE TRAILS 34S-20-9N
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	COYOTE TRAILS 34S-20-9N AWB
Facility	SEC.28-T01N-R68W		

WELLPATH DATA (194 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11450.00	89.870	184.330	7990.91	4606.82	-4355.25	1869.15	40°00'21.669"N	105°00'00.341"W	1.30	
11546.00	89.920	185.980	7991.09	4699.63	-4450.86	1860.53	40°00'20.725"N	105°00'00.452"W	1.72	
11641.00	89.480	186.960	7991.59	4790.90	-4545.25	1849.82	40°00'19.792"N	105°00'00.590"W	1.13	
11737.00	91.240	182.060	7990.98	4883.95	-4640.92	1842.28	40°00'18.846"N	105°00'00.687"W	5.42	
11832.00	90.990	178.240	7989.14	4977.53	-4735.88	1842.03	40°00'17.908"N	105°00'00.690"W	4.03	
11928.00	89.390	178.350	7988.82	5072.61	-4831.84	1844.89	40°00'16.960"N	105°00'00.653"W	1.67	
12023.00	89.340	178.550	7989.87	5166.65	-4926.80	1847.46	40°00'16.021"N	105°00'00.620"W	0.22	
12119.00	89.300	177.200	7991.01	5261.82	-5022.72	1851.01	40°00'15.073"N	105°00'00.575"W	1.41	
12214.00	89.360	178.920	7992.12	5355.95	-5117.66	1854.23	40°00'14.135"N	105°00'00.533"W	1.81	
12310.00	89.520	178.040	7993.06	5450.98	-5213.62	1856.78	40°00'13.187"N	105°00'00.501"W	0.93	
12401.00	89.410	179.650	7993.91	5540.98	-5304.59	1858.61	40°00'12.288"N	105°00'00.477"W	1.77	
12496.00	89.080	181.410	7995.16	5634.47	-5399.58	1857.73	40°00'11.349"N	105°00'00.489"W	1.88	
12592.00	89.470	180.280	7996.37	5728.86	-5495.56	1856.32	40°00'10.401"N	105°00'00.507"W	1.25	
12687.00	90.050	183.600	7996.77	5821.91	-5590.49	1853.10	40°00'09.462"N	105°00'00.548"W	3.55	
12783.00	90.190	178.590	7996.57	5916.20	-5686.44	1851.27	40°00'08.514"N	105°00'00.572"W	5.22	
12879.00	90.170	178.940	7996.27	6011.17	-5782.42	1853.34	40°00'07.566"N	105°00'00.546"W	0.37	
12974.00	90.280	182.520	7995.90	6104.60	-5877.39	1852.13	40°00'06.627"N	105°00'00.561"W	3.77	
13070.00	88.830	177.780	7996.64	6199.17	-5973.36	1851.87	40°00'05.679"N	105°00'00.565"W	5.16	
13165.00	88.800	178.970	7998.61	6293.22	-6068.30	1854.57	40°00'04.741"N	105°00'00.530"W	1.25	
13260.00	88.810	180.010	8000.59	6386.99	-6163.27	1855.41	40°00'03.802"N	105°00'00.519"W	1.09	
13356.00	88.820	178.850	8002.57	6481.77	-6259.25	1856.37	40°00'02.854"N	105°00'00.507"W	1.21	
13451.00	89.700	179.690	8003.80	6575.61	-6354.23	1857.58	40°00'01.915"N	105°00'00.492"W	1.28	
13547.00	89.700	177.770	8004.30	6670.58	-6450.20	1859.71	40°00'00.967"N	105°00'00.464"W	2.00	
13642.00	89.800	178.540	8004.72	6764.70	-6545.15	1862.76	40°00'00.028"N	105°00'00.425"W	0.82	
13738.00	89.890	178.980	8004.98	6859.67	-6641.13	1864.84	39°59'59.080"N	105°00'00.399"W	0.47	
13833.00	90.060	178.690	8005.02	6953.63	-6736.11	1866.77	39°59'58.141"N	105°00'00.374"W	0.35	
13928.00	89.950	179.070	8005.01	7047.58	-6831.09	1868.63	39°59'57.202"N	105°00'00.350"W	0.42	
14024.00	89.860	179.140	8005.17	7142.47	-6927.08	1870.13	39°59'56.254"N	105°00'00.331"W	0.12	
14119.00	89.920	179.840	8005.35	7236.26	-7022.07	1870.98	39°59'55.315"N	105°00'00.320"W	0.74	
14215.00	90.040	178.980	8005.39	7331.06	-7118.06	1871.96	39°59'54.366"N	105°00'00.308"W	0.90	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	EXTRACTION OIL & GAS	Slot	SLOT#08 COYOTE TRAILS 34S-20-9N (1146'FSL & 2157'FEL, SEC.28)
Area	COLORADO	Well	COYOTE TRAILS 34S-20-9N
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	COYOTE TRAILS 34S-20-9N AWB
Facility	SEC.28-T01N-R68W		

WELLPATH DATA (194 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
14310.00	90.100	179.360	8005.27	7424.94	-7213.05	1873.34	39°59'53.428"N	105°00'00.290"W	0.40	
14406.00	90.060	178.110	8005.14	7519.92	-7309.03	1875.46	39°59'52.479"N	105°00'00.263"W	1.30	
14502.00	90.150	178.960	8004.96	7614.94	-7405.00	1877.91	39°59'51.531"N	105°00'00.231"W	0.89	
14596.00	89.790	178.380	8005.01	7707.95	-7498.97	1880.10	39°59'50.602"N	105°00'00.203"W	0.73	
14692.00	89.970	178.440	8005.21	7803.00	-7594.93	1882.76	39°59'49.654"N	105°00'00.169"W	0.20	
14787.00	89.980	178.900	8005.25	7897.00	-7689.91	1884.96	39°59'48.715"N	105°00'00.141"W	0.48	
14883.00	89.940	178.570	8005.32	7991.98	-7785.88	1887.08	39°59'47.767"N	105°00'00.114"W	0.35	
14978.00	89.920	178.800	8005.43	8085.98	-7880.86	1889.26	39°59'46.828"N	105°00'00.086"W	0.24	
15074.00	90.060	178.140	8005.45	8181.02	-7976.82	1891.83	39°59'45.880"N	105°00'00.053"W	0.70	
15169.00	89.840	177.920	8005.53	8275.17	-8071.77	1895.09	39°59'44.942"N	105°00'00.011"W	0.33	
15264.00	89.910	178.360	8005.74	8369.29	-8166.72	1898.18	39°59'44.003"N	104°59'59.972"W	0.47	
15360.00	89.780	178.440	8006.00	8464.35	-8262.68	1900.86	39°59'43.055"N	104°59'59.937"W	0.16	
15455.00	89.940	178.260	8006.23	8558.42	-8357.64	1903.59	39°59'42.117"N	104°59'59.902"W	0.25	
15551.00	90.110	178.150	8006.19	8653.52	-8453.59	1906.60	39°59'41.168"N	104°59'59.864"W	0.21	
15647.00	89.860	178.510	8006.22	8748.59	-8549.55	1909.40	39°59'40.220"N	104°59'59.828"W	0.46	
15742.00	89.800	178.270	8006.50	8842.66	-8644.51	1912.07	39°59'39.282"N	104°59'59.794"W	0.26	
15837.00	90.190	177.870	8006.51	8936.80	-8739.46	1915.27	39°59'38.343"N	104°59'59.753"W	0.59	
15932.00	89.820	178.850	8006.50	9030.87	-8834.42	1917.98	39°59'37.405"N	104°59'59.718"W	1.10	
16028.00	89.900	179.320	8006.73	9125.76	-8930.41	1919.52	39°59'36.456"N	104°59'59.698"W	0.50	
16123.00	89.600	177.950	8007.15	9219.77	-9025.38	1921.78	39°59'35.518"N	104°59'59.669"W	1.48	
16219.00	89.870	178.490	8007.59	9314.87	-9121.33	1924.76	39°59'34.570"N	104°59'59.631"W	0.63	
16314.00	89.870	181.870	8007.81	9408.46	-9216.31	1924.46	39°59'33.631"N	104°59'59.635"W	3.56	
16410.00	90.010	182.020	8007.91	9502.50	-9312.26	1921.21	39°59'32.683"N	104°59'59.677"W	0.21	
16505.00	89.360	181.540	8008.43	9595.62	-9407.21	1918.25	39°59'31.744"N	104°59'59.715"W	0.85	
16600.00	89.460	183.500	8009.41	9688.48	-9502.11	1914.08	39°59'30.807"N	104°59'59.769"W	2.07	
16696.00	89.550	183.330	8010.24	9781.99	-9597.93	1908.36	39°59'29.860"N	104°59'59.842"W	0.20	
16791.00	89.490	182.530	8011.03	9874.71	-9692.81	1903.50	39°59'28.922"N	104°59'59.905"W	0.84	
16886.00	89.360	180.030	8011.99	9967.97	-9787.77	1901.38	39°59'27.984"N	104°59'59.932"W	2.64	
16981.00	89.590	181.810	8012.86	10061.36	-9882.75	1899.86	39°59'27.045"N	104°59'59.952"W	1.89	
17077.00	89.420	181.710	8013.69	10155.46	-9978.70	1896.91	39°59'26.097"N	104°59'59.990"W	0.21	



Actual Wellpath Report

COYOTE TRAILS 34S-20-9N AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EXTRACTION OIL & GAS	Slot	SLOT#08 COYOTE TRAILS 34S-20-9N (1146'FSL & 2157'FEL, SEC.28)
Area	COLORADO	Well	COYOTE TRAILS 34S-20-9N
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	COYOTE TRAILS 34S-20-9N AWB
Facility	SEC.28-T01N-R68W		

WELLPATH DATA (194 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
17172.00	89.470	179.490	8014.61	10248.93	-10073.69	1895.91	39°59'25.158"N	105°00'00.003"W	2.34	
17268.00	89.520	181.820	8015.45	10343.38	-10169.67	1894.82	39°59'24.210"N	105°00'00.017"W	2.43	
17363.00	89.530	182.080	8016.24	10436.44	-10264.61	1891.58	39°59'23.271"N	105°00'00.059"W	0.27	
17459.00	89.290	181.540	8017.23	10530.52	-10360.56	1888.55	39°59'22.323"N	105°00'00.098"W	0.62	
17555.00	89.520	179.830	8018.23	10624.95	-10456.54	1887.40	39°59'21.375"N	105°00'00.112"W	1.80	
17650.00	89.660	178.420	8018.91	10718.84	-10551.53	1888.85	39°59'20.436"N	105°00'00.094"W	1.49	
17746.00	89.720	177.920	8019.43	10813.95	-10647.47	1891.92	39°59'19.488"N	105°00'00.055"W	0.52	
17841.00	89.250	178.690	8020.28	10908.03	-10742.43	1894.73	39°59'18.549"N	105°00'00.019"W	0.95	
17936.00	89.320	177.910	8021.47	11002.11	-10837.38	1897.55	39°59'17.611"N	104°59'59.982"W	0.82	
18032.00	89.540	177.870	8022.42	11097.28	-10933.31	1901.08	39°59'16.663"N	104°59'59.937"W	0.23	
18127.00	89.370	178.330	8023.32	11191.40	-11028.25	1904.23	39°59'15.725"N	104°59'59.897"W	0.52	
18222.00	89.480	177.850	8024.28	11285.54	-11123.19	1907.40	39°59'14.786"N	104°59'59.856"W	0.52	
18295.00	89.660	177.850	8024.83	11357.91	-11196.14	1910.14	39°59'14.066"N	104°59'59.821"W	0.25	BAKER DRILLED USING THIRD PARTY MWD-LAST SURVEY (206'FSL & 760'FEL, SEC.04)
18326.00	89.660	177.850	8025.01	11388.65	-11227.12	1911.30	39°59'13.759"N	104°59'59.806"W	0.00	PROJECTION TO BIT (175'FSL & 761'FEL, SEC.04)

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.03-T01S-R68W	-4.00	-0.71	126.04	3138269.92	1249778.85	40°01'04.703"N	105°00'22.741"W	polygon
SEC.04-T01S-R68W	-4.00	-0.71	126.04	3138269.92	1249778.85	40°01'04.703"N	105°00'22.741"W	polygon
SEC.27-T01N-R68W	-4.00	-0.71	126.04	3138269.92	1249778.85	40°01'04.703"N	105°00'22.741"W	point
SEC.28-T01N-R68W	-4.00	-0.71	126.04	3138269.92	1249778.85	40°01'04.703"N	105°00'22.741"W	polygon
SEC.33-T01N-R68W	-4.00	-0.71	126.04	3138269.92	1249778.85	40°01'04.703"N	105°00'22.741"W	polygon
SEC.34-T01N-R68W	-4.00	-0.71	126.04	3138269.92	1249778.85	40°01'04.703"N	105°00'22.741"W	polygon
COYOTE TRAILS 34S-20-9N BHL (150'FSL & 762'FEL, SEC.04)	7807.00	-11252.40	1911.90	3140118.27	1238537.68	39°59'13.510"N	104°59'59.798"W	point
COYOTE TRAILS 34S-20-9N LP (460'FNL & 306'FEL, SEC.33)	7807.00	-1607.53	1854.02	3140006.74	1248181.72	40°00'48.823"N	105°00'00.533"W	point

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.03-T01S-R68W (150'FSL SETBACKS)	7896.00	-0.71	126.04	3138269.92	1249778.85	40°01'04.703"N	105°00'22.741"W	polygon
SEC.04-T01S-R68W (150'FSL SETBACKS)	7896.00	0.00	0.00	3138143.88	1249778.86	40°01'04.710"N	105°00'24.361"W	polygon
SEC.33-T01N-R68W (460'FNL SETBACKS)	7896.00	-0.71	126.04	3138269.92	1249778.85	40°01'04.703"N	105°00'22.741"W	polygon
SEC.34-T01N-R68W (460'FNL SETBACKS)	7896.00	-0.71	126.04	3138269.92	1249778.85	40°01'04.703"N	105°00'22.741"W	polygon

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
COYOTE TRAILS 34S-20-9N BHL REV-1 (150'FSL & 762'FEL, SEC.04)	8020.00	-11252.36	1911.94	3140118.30	1238537.72	39°59'13.510"N	104°59'59.798"W	point
COYOTE TRAILS 34S-20-9N LP REV-1 (460'FNL & 306'FEL, SEC.33)	8020.00	-1607.55	1854.01	3140006.73	1248181.70	40°00'48.823"N	105°00'00.533"W	point



Actual Wellpath Report

COYOTE TRAILS 34S-20-9N AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EXTRACTION OIL & GAS	Slot	SLOT#08 COYOTE TRAILS 34S-20-9N (1146'FSL & 2157'FEL, SEC.28)
Area	COLORADO	Well	COYOTE TRAILS 34S-20-9N
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	COYOTE TRAILS 34S-20-9N AWB
Facility	SEC.28-T01N-R68W		

WELLPATH COMPOSITION - Ref Wellbore: COYOTE TRAILS 34S-20-9N AWB Ref Wellpath: COYOTE TRAILS 34S-20-9N AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
29.00	1545.00	ISCWSA MWD, Rev. 4 (Standard)	13.5" SURFACE- BAKER DRILLED USING THIRD PARTY MWD <214-1545>	COYOTE TRAILS 34S-20-9N AWB
1545.00	18295.00	ISCWSA MWD, Rev. 4 (Standard)	BAKER DRILLED USING THIRD PARTY MWD <1661-18295>	COYOTE TRAILS 34S-20-9N AWB
18295.00	18326.00	Blind Drilling (std)	Projection to bit	COYOTE TRAILS 34S-20-9N AWB



Actual Wellpath Report

COYOTE TRAILS 34S-20-9N AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	EXTRACTION OIL & GAS	Slot	SLOT#08 COYOTE TRAILS 34S-20-9N (1146'FSL & 2157'FEL, SEC.28)
Area	COLORADO	Well	COYOTE TRAILS 34S-20-9N
Field	WELD COUNTY (NAD83/TRUE NORTH)	Wellbore	COYOTE TRAILS 34S-20-9N AWP
Facility	SEC.28-T01N-R68W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
214.00	0.710	69.340	214.00	BAKER DRILLED USING THIRD PARTY MWD-FIRST SURVEY
8684.00	83.037	179.658	7991.57	CROSSED 460'SETBACK (460'FNL & 303'FEL, SEC.33)
18295.00	89.660	177.850	8024.83	BAKER DRILLED USING THIRD PARTY MWD-LAST SURVEY (206'FSL & 760'FEL, SEC.04)
18326.00	89.660	177.850	8025.01	PROJECTION TO BIT (175'FSL & 761'FEL, SEC.04)