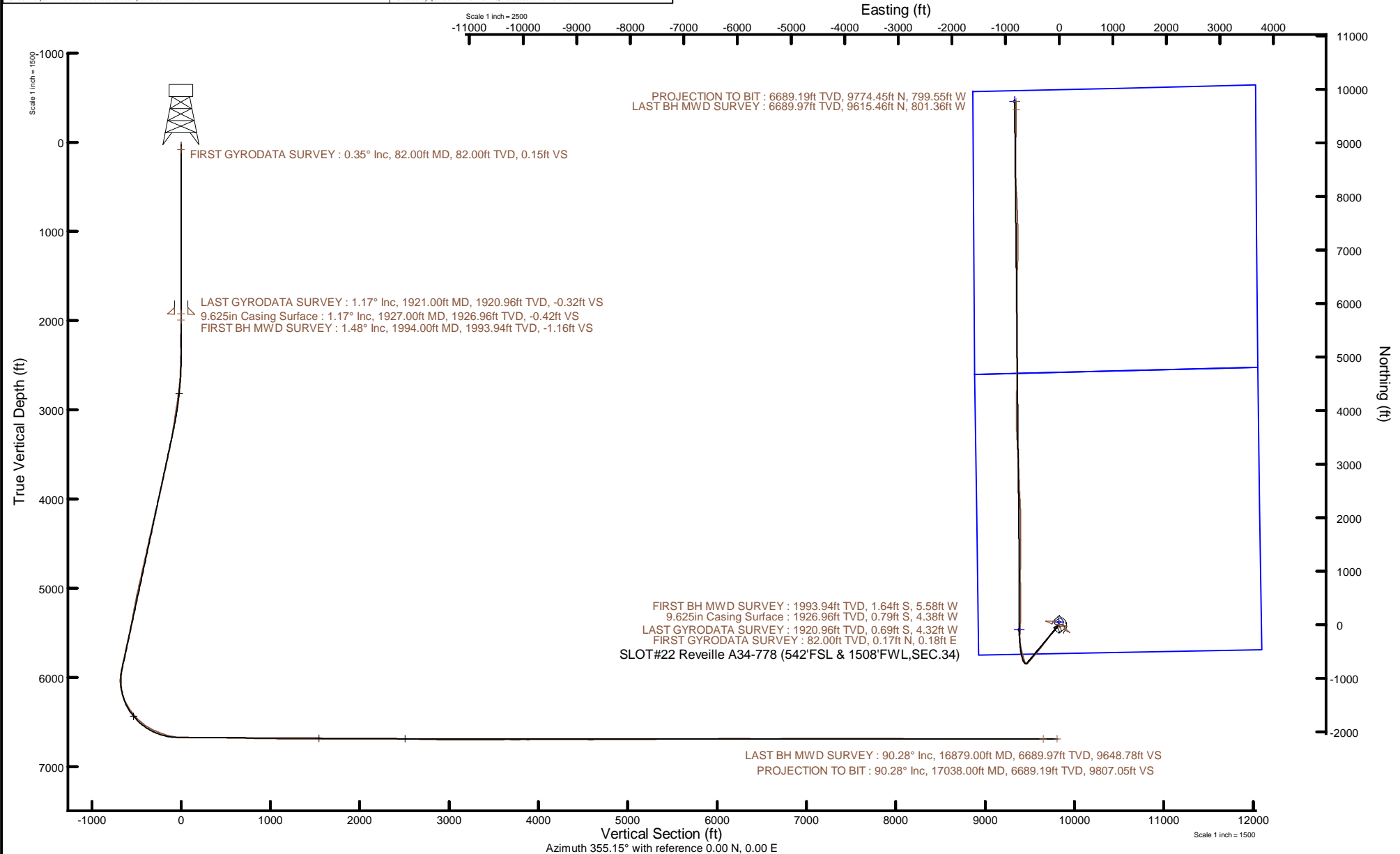


NOBLE ENERGY, INC

Location: COLORADO Slot: SLOT#22 Reveille A34-778 (542°FSL & 1508°FWL, SEC.34)
Field: WELD COUNTY (NOBLE NAD 83 GRID) Well: Reveille A34-778
Facility: SEC.34-T06N-R64W Wellbore: Reveille A34-778 PWB



Plot reference wellpath is Reveille A34-778 PWP Rev-C.0	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to H&P 517 (30) (RT)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 517 (30) (RT)	Scale: True distance
H&P 517 (30) (RT) to Mean Sea Level: 4661 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Mud line (At Slot: SLOT#22 Reveille A34-778 (542°FSL & 1508°FWL, SEC.34)): 0 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: painsrtr on 2021-02-15; Database: WellArchitectDB



REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Reveille A34-778
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API	0512350791
Facility	SEC.34-T06N-R64W	Wellbore	Reveille A34-778 AWB
Slot	SLOT#22 Reveille A34-778 (542'FSL & 1508'FWL,SEC.34)		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Painsetr
Scale	0.999962	Report Generated	2/15/2021 at 1:31:47 PM
Convergence at slot	0.62° East	Database	WellArchitectDB

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-2710.89	887.50	3267126.90	1403488.56	40.4370100°	-104.5403300°
Facility Reference Pt			3266239.44	1406199.34	40.4444770°	-104.5434130°
Field Reference Pt			3000000.00	4454105.15	48.7761986°	-105.5000000°

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 517 (30') (RT) to Facility Vertical Datum	4661.00ft
Horizontal Reference Pt	Slot	H&P 517 (30') (RT) to Mean Sea Level	4661.00ft
Vertical Reference Pt	H&P 517 (30') (RT)	H&P 517 (30') (RT) to Mud Line at Slot (SLOT#22 Reveille A34-778 (542'FSL & 1508'FWL,SEC.34))	4661.00ft
MD Reference Pt	H&P 517 (30') (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	355.15°

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Reveille A34-778
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API	0512350791
Facility	SEC.34-T06N-R64W	Wellbore	Reveille A34-778 AWB
Slot	SLOT#22 Reveille A34-778 (542'FSL & 1508'FWL,SEC.34)		

WELLPATH DATA (173 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	47.040	0.00	0.00	0.00	0.00	3267126.90	1403488.56	40.4370100	-104.5403300	0.00	
82.00	0.350	47.040	82.00	0.15	0.17	0.18	3267127.08	1403488.73	40.4370105	-104.5403294	0.43	FIRST GYRODATA SURVEY
175.00	0.190	53.660	175.00	0.41	0.46	0.52	3267127.42	1403489.02	40.4370112	-104.5403281	0.17	
266.00	0.280	225.750	266.00	0.35	0.39	0.48	3267127.38	1403488.95	40.4370111	-104.5403283	0.52	
330.00	0.220	252.900	330.00	0.22	0.24	0.25	3267127.15	1403488.80	40.4370107	-104.5403291	0.20	
424.00	0.380	278.750	424.00	0.26	0.24	-0.23	3267126.67	1403488.80	40.4370107	-104.5403308	0.22	
519.00	0.120	359.750	519.00	0.43	0.39	-0.54	3267126.36	1403488.95	40.4370111	-104.5403320	0.40	
614.00	0.110	356.110	614.00	0.62	0.58	-0.55	3267126.35	1403489.14	40.4370116	-104.5403320	0.01	
709.00	0.690	275.960	708.99	0.82	0.73	-1.13	3267125.77	1403489.29	40.4370120	-104.5403340	0.72	
803.00	0.340	235.560	802.99	0.79	0.63	-1.92	3267124.98	1403489.19	40.4370118	-104.5403369	0.52	
898.00	0.160	176.530	897.99	0.52	0.34	-2.14	3267124.76	1403488.90	40.4370110	-104.5403377	0.31	
992.00	0.180	221.680	991.99	0.28	0.10	-2.23	3267124.67	1403488.66	40.4370103	-104.5403380	0.14	
1087.00	0.300	249.930	1086.99	0.12	-0.10	-2.57	3267124.33	1403488.46	40.4370098	-104.5403392	0.17	
1182.00	0.500	244.200	1181.98	-0.10	-0.37	-3.17	3267123.73	1403488.19	40.4370091	-104.5403414	0.21	
1276.00	0.360	350.560	1275.98	0.05	-0.25	-3.59	3267123.31	1403488.31	40.4370094	-104.5403429	0.74	
1371.00	0.220	15.030	1370.98	0.52	0.22	-3.59	3267123.31	1403488.78	40.4370107	-104.5403429	0.19	
1466.00	0.320	205.830	1465.98	0.46	0.15	-3.66	3267123.24	1403488.71	40.4370105	-104.5403432	0.57	
1561.00	0.340	293.240	1560.98	0.37	0.03	-4.04	3267122.86	1403488.59	40.4370102	-104.5403445	0.48	
1655.00	0.580	352.340	1654.98	0.97	0.61	-4.36	3267122.55	1403489.17	40.4370118	-104.5403456	0.53	
1750.00	0.420	90.920	1749.98	1.42	1.08	-4.07	3267122.83	1403489.64	40.4370131	-104.5403446	0.81	
1845.00	0.730	190.330	1844.97	0.80	0.48	-3.83	3267123.07	1403489.04	40.4370114	-104.5403438	0.95	
1876.00	0.930	200.960	1875.97	0.38	0.05	-3.96	3267122.94	1403488.61	40.4370103	-104.5403442	0.81	
1921.00	1.170	210.140	1920.96	-0.32	-0.69	-4.32	3267122.58	1403487.87	40.4370082	-104.5403456	0.65	LAST GYRODATA SURVEY
1994.00	1.480	251.050	1993.94	-1.16	-1.64	-5.58	3267121.32	1403486.92	40.4370057	-104.5403501	1.33	FIRST BH MWD SURVEY
2089.00	0.130	180.980	2088.93	-1.57	-2.15	-6.75	3267120.15	1403486.41	40.4370043	-104.5403543	1.52	
2183.00	0.060	111.370	2182.93	-1.70	-2.27	-6.70	3267120.20	1403486.29	40.4370040	-104.5403542	0.13	
2373.00	0.130	37.110	2372.93	-1.58	-2.14	-6.48	3267120.42	1403486.42	40.4370043	-104.5403534	0.07	
2467.00	2.600	216.830	2466.90	-3.09	-3.76	-7.69	3267119.21	1403484.80	40.4369999	-104.5403578	2.90	
2562.00	3.880	222.910	2561.75	-6.86	-7.84	-11.17	3267115.73	1403480.72	40.4369888	-104.5403705	1.39	
2657.00	5.750	217.970	2656.41	-12.52	-13.94	-16.29	3267110.61	1403474.62	40.4369722	-104.5403891	2.01	

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Reveille A34-778
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API	0512350791
Facility	SEC.34-T06N-R64W	Wellbore	Reveille A34-778 AWB
Slot	SLOT#22 Reveille A34-778 (542'FSL & 1508'FWL,SEC.34)		

WELLPATH DATA (173 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
2751.00	8.490	218.540	2749.68	-21.01	-23.08	-23.51	3267103.39	1403465.48	40.4369473	-104.5404154	2.92	
2846.00	10.640	218.140	2843.35	-32.52	-35.47	-33.30	3267093.60	1403453.09	40.4369136	-104.5404510	2.26	
2941.00	11.930	218.200	2936.51	-46.12	-50.08	-44.79	3267082.11	1403438.48	40.4368739	-104.5404928	1.36	
3036.00	11.870	217.880	3029.47	-60.47	-65.51	-56.86	3267070.04	1403423.05	40.4368319	-104.5405368	0.09	
3131.00	11.330	218.340	3122.53	-74.45	-80.54	-68.65	3267058.26	1403408.02	40.4367910	-104.5405797	0.58	
3225.00	11.410	219.110	3214.68	-87.87	-95.00	-80.24	3267046.66	1403393.56	40.4367516	-104.5406219	0.18	
3320.00	14.660	218.440	3307.22	-103.39	-111.71	-93.65	3267033.26	1403376.85	40.4367062	-104.5406707	3.42	
3414.00	16.100	218.200	3397.85	-121.57	-131.27	-109.10	3267017.80	1403357.29	40.4366529	-104.5407270	1.53	
3509.00	16.180	221.170	3489.11	-140.39	-151.59	-125.96	3267000.94	1403336.98	40.4365977	-104.5407884	0.87	
3603.00	16.830	217.790	3579.24	-159.49	-172.20	-142.92	3266983.98	1403316.37	40.4365416	-104.5408501	1.23	
3792.00	16.740	218.050	3760.19	-199.56	-215.26	-176.46	3266950.44	1403273.31	40.4364244	-104.5409723	0.06	
3887.00	17.160	218.080	3851.06	-219.84	-237.06	-193.54	3266933.37	1403251.51	40.4363651	-104.5410344	0.44	
3981.00	17.200	218.020	3940.87	-240.18	-258.93	-210.65	3266916.26	1403229.64	40.4363056	-104.5410968	0.05	
4075.00	17.040	218.160	4030.70	-260.44	-280.71	-227.72	3266899.19	1403207.87	40.4362463	-104.5411589	0.18	
4170.00	17.030	217.940	4121.53	-280.82	-302.62	-244.88	3266882.03	1403185.95	40.4361867	-104.5412214	0.07	
4264.00	16.870	218.190	4211.45	-300.89	-324.20	-261.77	3266865.14	1403164.38	40.4361279	-104.5412829	0.19	
4359.00	17.030	217.080	4302.32	-321.32	-346.13	-278.68	3266848.23	1403142.44	40.4360682	-104.5413445	0.38	
4453.00	17.270	217.530	4392.14	-341.86	-368.18	-295.48	3266831.43	1403120.40	40.4360082	-104.5414057	0.29	
4548.00	16.530	218.260	4483.04	-362.14	-389.97	-312.44	3266814.47	1403098.60	40.4359489	-104.5414675	0.81	
4643.00	16.790	217.880	4574.05	-382.09	-411.41	-329.24	3266797.68	1403077.16	40.4358906	-104.5415286	0.30	
4738.00	17.180	218.240	4664.91	-402.41	-433.26	-346.34	3266780.57	1403055.31	40.4358311	-104.5415910	0.43	
4832.00	16.960	218.440	4754.77	-422.53	-454.91	-363.46	3266763.45	1403033.67	40.4357722	-104.5416533	0.24	
4927.00	16.800	217.830	4845.67	-442.71	-476.60	-380.50	3266746.42	1403011.98	40.4357132	-104.5417153	0.25	
5021.00	16.950	217.770	4935.63	-462.78	-498.16	-397.22	3266729.70	1402990.42	40.4356545	-104.5417762	0.16	
5115.00	16.650	218.060	5025.61	-482.72	-519.60	-413.91	3266713.00	1402968.98	40.4355961	-104.5418370	0.33	
5210.00	16.160	220.820	5116.75	-501.93	-540.32	-430.95	3266695.97	1402948.26	40.4355398	-104.5418990	0.97	
5304.00	15.920	223.730	5207.09	-519.60	-559.53	-448.41	3266678.51	1402929.05	40.4354875	-104.5419625	0.89	
5399.00	15.570	224.310	5298.53	-536.55	-578.07	-466.32	3266660.60	1402910.51	40.4354372	-104.5420275	0.40	
5493.00	16.790	223.450	5388.80	-553.83	-596.96	-484.47	3266642.45	1402891.63	40.4353859	-104.5420935	1.32	
5588.00	16.340	218.580	5479.86	-572.67	-617.37	-502.24	3266624.68	1402871.22	40.4353304	-104.5421581	1.54	

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Reveille A34-778
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API	0512350791
Facility	SEC.34-T06N-R64W	Wellbore	Reveille A34-778 AWB
Slot	SLOT#22 Reveille A34-778 (542'FSL & 1508'FWL,SEC.34)		

WELLPATH DATA (173 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
5682.00	16.580	218.270	5570.01	-592.06	-638.23	-518.80	3266608.13	1402850.35	40.4352736	-104.5422184	0.27	
5777.00	16.560	218.530	5661.06	-611.79	-659.47	-535.62	3266591.30	1402829.12	40.4352159	-104.5422796	0.08	
5871.00	16.660	218.140	5751.14	-631.38	-680.54	-552.29	3266574.63	1402808.04	40.4351585	-104.5423403	0.16	
5966.00	16.640	218.960	5842.16	-651.16	-701.83	-569.25	3266557.67	1402786.76	40.4351006	-104.5424021	0.25	
6061.00	16.910	222.170	5933.12	-670.39	-722.65	-587.08	3266539.84	1402765.94	40.4350440	-104.5424669	1.02	
6156.00	11.710	258.960	6025.32	-680.88	-734.76	-605.87	3266521.06	1402753.82	40.4350113	-104.5425349	10.76	
6250.00	12.770	310.390	6117.44	-674.51	-729.85	-623.19	3266503.73	1402758.74	40.4350253	-104.5425969	11.28	
6345.00	20.230	336.810	6208.59	-651.40	-707.88	-637.70	3266489.23	1402780.70	40.4350860	-104.5426482	10.95	
6440.00	29.110	341.800	6294.84	-613.25	-670.76	-651.41	3266475.51	1402817.83	40.4351883	-104.5426960	9.59	
6534.00	35.620	343.400	6374.20	-564.15	-622.75	-666.39	3266460.54	1402865.84	40.4353205	-104.5427479	6.98	
6629.00	42.740	345.080	6447.79	-505.24	-565.01	-682.62	3266444.31	1402923.57	40.4354795	-104.5428040	7.58	
6723.00	51.370	347.850	6511.78	-437.28	-498.16	-698.59	3266428.34	1402990.42	40.4356634	-104.5428588	9.43	
6818.00	60.130	349.940	6565.20	-359.30	-421.18	-713.62	3266413.31	1403067.40	40.4358752	-104.5429098	9.40	
6913.00	68.600	352.690	6606.27	-273.93	-336.59	-726.47	3266400.46	1403151.99	40.4361077	-104.5429526	9.29	
7007.00	70.930	358.970	6638.81	-185.79	-248.68	-732.84	3266394.09	1403239.89	40.4363492	-104.5429721	6.74	
7102.00	80.010	2.240	6662.62	-94.36	-156.83	-731.82	3266395.11	1403331.73	40.4366013	-104.5429649	10.12	
7196.00	89.380	2.320	6671.30	-1.59	-63.41	-728.10	3266398.83	1403425.15	40.4368576	-104.5429479	9.97	
7291.00	89.010	2.830	6672.64	92.60	31.48	-723.83	3266403.10	1403520.04	40.4371179	-104.5429289	0.66	
7385.00	89.140	0.980	6674.16	185.93	125.41	-720.71	3266406.22	1403613.97	40.4373756	-104.5429140	1.97	
7480.00	89.880	359.360	6674.97	280.56	220.40	-720.43	3266406.50	1403708.96	40.4376363	-104.5429093	1.87	
7575.00	89.380	359.840	6675.58	375.27	315.40	-721.09	3266405.84	1403803.95	40.4378971	-104.5429080	0.73	
7669.00	89.140	359.640	6676.80	468.96	409.39	-721.52	3266405.41	1403897.93	40.4381551	-104.5429059	0.33	
7764.00	89.140	359.880	6678.22	563.64	504.38	-721.91	3266405.02	1403992.92	40.4384158	-104.5429037	0.25	
7859.00	88.770	359.780	6679.95	658.31	599.36	-722.20	3266404.73	1404087.90	40.4386765	-104.5429010	0.40	
7954.00	89.110	359.100	6681.71	753.02	694.34	-723.12	3266403.81	1404182.87	40.4389372	-104.5429007	0.80	
8048.00	88.830	359.530	6683.40	846.76	788.32	-724.25	3266402.68	1404276.85	40.4391952	-104.5429010	0.55	
8143.00	89.020	359.550	6685.18	941.46	883.30	-725.01	3266401.92	1404371.82	40.4394559	-104.5429001	0.20	
8237.00	88.980	0.560	6686.82	1035.10	977.28	-724.92	3266402.01	1404465.80	40.4397139	-104.5428961	1.08	
8332.00	89.010	0.940	6688.49	1129.63	1072.26	-723.68	3266403.25	1404560.78	40.4399745	-104.5428880	0.40	
8427.00	89.910	0.140	6689.39	1224.21	1167.25	-722.78	3266404.15	1404655.76	40.4402352	-104.5428811	1.27	

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Reveille A34-778
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API	0512350791
Facility	SEC.34-T06N-R64W	Wellbore	Reveille A34-778 AWB
Slot	SLOT#22 Reveille A34-778 (542'FSL & 1508'FWL,SEC.34)		

WELLPATH DATA (173 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
8521.00	90.000	0.560	6689.46	1317.82	1261.25	-722.21	3266404.72	1404749.76	40.4404932	-104.5428754	0.46	
8616.00	90.280	1.200	6689.23	1412.35	1356.24	-720.75	3266406.18	1404844.74	40.4407539	-104.5428665	0.74	
8711.00	89.170	0.220	6689.68	1506.89	1451.23	-719.57	3266407.36	1404939.73	40.4410146	-104.5428585	1.56	
8806.00	89.510	0.430	6690.78	1601.50	1546.22	-719.03	3266407.90	1405034.72	40.4412753	-104.5428529	0.42	
8900.00	89.600	0.640	6691.51	1695.08	1640.21	-718.15	3266408.77	1405128.70	40.4415332	-104.5428461	0.24	
8995.00	89.690	359.240	6692.10	1789.75	1735.21	-718.25	3266408.68	1405223.70	40.4417940	-104.5428428	1.48	
9090.00	90.000	358.880	6692.35	1884.52	1830.19	-719.81	3266407.12	1405318.68	40.4420547	-104.5428447	0.50	
9185.00	91.200	0.130	6691.36	1979.24	1925.18	-720.63	3266406.30	1405413.66	40.4423155	-104.5428440	1.82	
9279.00	89.720	0.570	6690.60	2072.85	2019.17	-720.06	3266406.87	1405507.65	40.4425734	-104.5428383	1.64	
9374.00	90.340	357.530	6690.55	2167.61	2114.15	-721.63	3266405.30	1405602.62	40.4428342	-104.5428402	3.27	
9468.00	90.180	357.560	6690.13	2261.53	2208.06	-725.66	3266401.27	1405696.53	40.4430920	-104.5428511	0.17	
9563.00	90.180	357.160	6689.83	2356.46	2302.96	-730.04	3266396.89	1405791.43	40.4433526	-104.5428631	0.42	
9658.00	89.720	356.840	6689.91	2451.41	2397.83	-735.01	3266391.92	1405886.29	40.4436132	-104.5428773	0.59	
9752.00	89.230	356.430	6690.77	2545.37	2491.66	-740.52	3266386.40	1405980.12	40.4438709	-104.5428935	0.68	
9847.00	89.320	358.020	6691.98	2640.30	2586.54	-745.12	3266381.81	1406075.00	40.4441314	-104.5429063	1.68	
9942.00	87.660	358.320	6694.48	2735.13	2681.46	-748.16	3266378.77	1406169.91	40.4443920	-104.5429135	1.78	
10036.00	89.140	357.680	6697.10	2828.98	2775.36	-751.44	3266375.49	1406263.81	40.4446499	-104.5429217	1.72	
10131.00	89.140	357.500	6698.53	2923.88	2870.26	-755.43	3266371.50	1406358.71	40.4449105	-104.5429323	0.19	
10226.00	90.370	357.420	6698.94	3018.80	2965.17	-759.64	3266367.29	1406453.61	40.4451711	-104.5429438	1.30	
10320.00	90.030	357.540	6698.61	3112.72	3059.08	-763.77	3266363.16	1406547.51	40.4454290	-104.5429550	0.38	
10415.00	89.940	357.520	6698.63	3207.64	3153.99	-767.87	3266359.06	1406642.42	40.4456896	-104.5429660	0.10	
10509.00	90.030	356.790	6698.66	3301.58	3247.87	-772.53	3266354.40	1406736.30	40.4459474	-104.5429791	0.78	
10604.00	90.120	357.280	6698.53	3396.53	3342.74	-777.45	3266349.48	1406831.17	40.4462080	-104.5429931	0.52	
10698.00	90.180	356.960	6698.29	3490.47	3436.62	-782.17	3266344.76	1406925.05	40.4464658	-104.5430064	0.35	
10793.00	90.520	357.340	6697.71	3585.41	3531.50	-786.89	3266340.04	1407019.92	40.4467263	-104.5430197	0.54	
10888.00	89.780	356.610	6697.46	3680.36	3626.37	-791.91	3266335.03	1407114.79	40.4469869	-104.5430341	1.09	
10982.00	90.120	0.950	6697.54	3774.15	3720.33	-793.91	3266333.02	1407208.74	40.4472448	-104.5430376	4.63	
11077.00	89.940	0.120	6697.49	3868.73	3815.32	-793.02	3266333.91	1407303.73	40.4475055	-104.5430307	0.89	
11202.00	90.280	0.370	6697.25	3993.23	3940.32	-792.49	3266334.45	1407428.72	40.4478486	-104.5430240	0.34	
11296.00	90.250	0.340	6696.81	4086.85	4034.32	-791.90	3266335.03	1407522.72	40.4481066	-104.5430182	0.05	

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Reveille A34-778
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API	0512350791
Facility	SEC.34-T06N-R64W	Wellbore	Reveille A34-778 AWB
Slot	SLOT#22 Reveille A34-778 (542'FSL & 1508'FWL,SEC.34)		

WELLPATH DATA (173 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
11391.00	90.030	359.950	6696.58	4181.48	4129.32	-791.66	3266335.27	1407617.71	40.4483673	-104.5430137	0.47	
11486.00	90.120	359.980	6696.46	4276.15	4224.32	-791.72	3266335.21	1407712.71	40.4486280	-104.5430102	0.10	
11580.00	90.090	0.580	6696.29	4369.77	4318.31	-791.26	3266335.67	1407806.70	40.4488860	-104.5430049	0.64	
11675.00	89.350	0.870	6696.75	4464.32	4413.31	-790.06	3266336.87	1407901.69	40.4491467	-104.5429969	0.84	
11769.00	89.720	359.770	6697.51	4557.93	4507.30	-789.53	3266337.40	1407995.68	40.4494047	-104.5429914	1.23	
11864.00	90.650	0.410	6697.21	4652.58	4602.30	-789.39	3266337.55	1408090.67	40.4496654	-104.5429872	1.19	
11958.00	90.800	359.830	6696.02	4746.21	4696.29	-789.19	3266337.74	1408184.66	40.4499234	-104.5429828	0.64	
12053.00	89.970	359.890	6695.38	4840.89	4791.29	-789.42	3266337.51	1408279.65	40.4501841	-104.5429800	0.88	
12148.00	90.460	359.620	6695.02	4935.58	4886.28	-789.83	3266337.10	1408374.65	40.4504449	-104.5429777	0.59	
12242.00	89.780	0.430	6694.83	5029.24	4980.28	-789.79	3266337.15	1408468.64	40.4507029	-104.5429740	1.13	
12337.00	90.430	0.500	6694.65	5123.83	5075.28	-789.01	3266337.92	1408563.64	40.4509636	-104.5429675	0.69	
12431.00	90.580	359.820	6693.82	5217.47	5169.27	-788.75	3266338.18	1408657.63	40.4512216	-104.5429629	0.74	
12526.00	90.800	0.200	6692.68	5312.12	5264.27	-788.74	3266338.20	1408752.62	40.4514823	-104.5429592	0.46	
12621.00	90.650	0.530	6691.48	5406.72	5359.26	-788.13	3266338.80	1408847.60	40.4517430	-104.5429533	0.38	
12715.00	91.380	0.460	6689.81	5500.29	5453.24	-787.32	3266339.61	1408941.58	40.4520010	-104.5429467	0.78	
12810.00	90.030	0.130	6688.64	5594.90	5548.23	-786.83	3266340.10	1409036.57	40.4522617	-104.5429413	1.46	
12999.00	90.060	359.870	6688.49	5783.22	5737.23	-786.83	3266340.10	1409225.56	40.4527804	-104.5429340	0.14	
13094.00	90.220	359.850	6688.26	5877.90	5832.23	-787.06	3266339.87	1409320.55	40.4530412	-104.5429311	0.17	
13188.00	90.400	0.130	6687.75	5971.56	5926.22	-787.08	3266339.85	1409414.55	40.4532992	-104.5429275	0.35	
13283.00	90.150	0.200	6687.30	6066.20	6021.22	-786.80	3266340.13	1409509.54	40.4535599	-104.5429229	0.27	
13377.00	90.180	0.710	6687.03	6159.79	6115.22	-786.06	3266340.87	1409603.54	40.4538179	-104.5429165	0.54	
13472.00	90.340	0.190	6686.60	6254.39	6210.22	-785.31	3266341.62	1409698.53	40.4540786	-104.5429102	0.57	
13567.00	88.980	0.430	6687.16	6349.00	6305.21	-784.80	3266342.13	1409793.52	40.4543393	-104.5429046	1.45	
13661.00	90.150	0.110	6687.87	6442.62	6399.20	-784.35	3266342.58	1409887.51	40.4545973	-104.5428994	1.29	
13756.00	90.150	0.130	6687.62	6537.26	6494.20	-784.16	3266342.78	1409982.50	40.4548580	-104.5428950	0.02	
13851.00	90.000	0.700	6687.50	6631.86	6589.20	-783.47	3266343.46	1410077.50	40.4551187	-104.5428889	0.62	
14040.00	90.060	4.950	6687.40	6819.12	6777.93	-774.15	3266352.78	1410266.22	40.4556365	-104.5428481	2.25	
14134.00	90.060	0.770	6687.30	6912.25	6871.79	-769.47	3266357.46	1410360.08	40.4558939	-104.5428276	4.45	
14229.00	90.250	0.770	6687.05	7006.79	6966.78	-768.19	3266358.74	1410455.06	40.4561546	-104.5428193	0.20	
14324.00	90.180	0.750	6686.69	7101.34	7061.77	-766.93	3266360.00	1410550.05	40.4564153	-104.5428111	0.08	

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Reveille A34-778
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API	0512350791
Facility	SEC.34-T06N-R64W	Wellbore	Reveille A34-778 AWB
Slot	SLOT#22 Reveille A34-778 (542'FSL & 1508'FWL,SEC.34)		

WELLPATH DATA (173 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
14418.00	90.090	358.950	6686.47	7195.02	7155.77	-767.18	3266359.76	1410644.04	40.4566733	-104.5428083	1.92	
14608.00	90.150	358.860	6686.07	7384.61	7345.73	-770.81	3266356.12	1410834.00	40.4571948	-104.5428140	0.06	
14702.00	89.940	358.810	6686.00	7478.41	7439.71	-772.72	3266354.21	1410927.98	40.4574528	-104.5428172	0.23	
14797.00	90.220	358.080	6685.86	7573.25	7534.68	-775.30	3266351.64	1411022.94	40.4577135	-104.5428228	0.82	
14892.00	89.750	358.330	6685.89	7668.12	7629.63	-778.27	3266348.66	1411117.89	40.4579743	-104.5428298	0.56	
14987.00	89.850	357.790	6686.22	7762.99	7724.57	-781.49	3266345.44	1411212.83	40.4582349	-104.5428377	0.58	
15081.00	89.970	358.270	6686.37	7856.88	7818.52	-784.72	3266342.21	1411306.77	40.4584929	-104.5428457	0.53	
15176.00	89.720	357.510	6686.62	7951.77	7913.45	-788.22	3266338.72	1411401.70	40.4587536	-104.5428546	0.84	
15270.00	89.570	356.580	6687.21	8045.71	8007.33	-793.06	3266333.87	1411495.57	40.4590114	-104.5428683	1.00	
15365.00	89.630	354.800	6687.87	8140.70	8102.05	-800.20	3266326.73	1411590.29	40.4592716	-104.5428903	1.87	
15554.00	89.880	357.660	6688.68	8329.65	8290.62	-812.63	3266314.31	1411778.85	40.4597895	-104.5429276	1.52	
15649.00	89.320	359.800	6689.34	8424.45	8385.59	-814.73	3266312.20	1411873.81	40.4600502	-104.5429315	2.33	
15743.00	89.940	359.970	6689.95	8518.13	8479.59	-814.92	3266312.01	1411967.81	40.4603082	-104.5429286	0.68	
15838.00	90.120	359.840	6689.90	8612.80	8574.59	-815.08	3266311.85	1412062.80	40.4605690	-104.5429254	0.23	
15933.00	90.150	0.860	6689.68	8707.41	8669.58	-814.50	3266312.43	1412157.80	40.4608297	-104.5429197	1.07	
16027.00	89.970	0.390	6689.58	8800.98	8763.58	-813.47	3266313.46	1412251.79	40.4610876	-104.5429123	0.54	
16217.00	89.780	1.230	6689.99	8990.05	8953.56	-810.79	3266316.15	1412441.76	40.4616090	-104.5428953	0.45	
16406.00	89.480	1.490	6691.21	9177.93	9142.50	-806.30	3266320.63	1412630.69	40.4621275	-104.5428719	0.21	
16500.00	90.150	0.890	6691.52	9271.41	9236.48	-804.35	3266322.58	1412724.67	40.4623853	-104.5428612	0.96	
16689.00	90.310	0.050	6690.76	9459.59	9425.47	-802.80	3266324.13	1412913.65	40.4629040	-104.5428483	0.45	
16784.00	90.180	0.520	6690.35	9554.21	9520.46	-802.33	3266324.61	1413008.64	40.4631647	-104.5428429	0.51	
16879.00	90.280	0.650	6689.97	9648.78	9615.46	-801.36	3266325.58	1413103.63	40.4634255	-104.5428358	0.17	LAST BH MWD SURVEY
17038.00‡	90.280	0.650	6689.19	9807.05	9774.45	-799.55	3266327.38	1413262.62	40.4638618	-104.5428231	0.00	PROJECTION TO BIT

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Reveille A34-778
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API	0512350791
Facility	SEC.34-T06N-R64W	Wellbore	Reveille A34-778 AWB
Slot	SLOT#22 Reveille A34-778 (542'FSL & 1508'FWL,SEC.34)		

HOLE & CASING SECTIONS - Ref Wellbore: Reveille A34-778 AWB Ref Wellpath: Reveille A34-778 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
9.625in Casing Surface	30.00	1927.00	1897.00	30.00	1926.96	0.02	0.02	-0.79	-4.38

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Reveille A34-778
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API	0512350791
Facility	SEC.34-T06N-R64W	Wellbore	Reveille A34-778 AWB
Slot	SLOT#22 Reveille A34-778 (542'FSL & 1508'FWL,SEC.34)		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.26-T06N-R64W	0.00	43.68	-3.25	3267123.65	1403532.24	40.4371300	-104.5403400	polygon
	2D Polygon: dimensions not calculated							
SEC.27-T06N-R64W	0.00	43.68	-3.25	3267123.65	1403532.24	40.4371300	-104.5403400	polygon
	2D Polygon: dimensions not calculated							
SEC.34-T06N-R64W	0.00	43.68	-3.25	3267123.65	1403532.24	40.4371300	-104.5403400	polygon
	2D Polygon: dimensions not calculated							
SEC.35-T06N-R64W	0.00	43.68	-3.25	3267123.65	1403532.24	40.4371300	-104.5403400	polygon
	2D Polygon: dimensions not calculated							
Reveille A34-778 TPZ REV-2 (460'FSL & 765'FWL,SEC.34)	6673.00	-97.56	-743.44	3266383.49	1403391.00	40.4367643	-104.5430043	point
Reveille A34-778 BHL REV-1 (200'FNL & 781'FWL,SEC.27)	6683.00	9775.18	-829.88	3266297.05	1413263.35	40.4638647	-104.5429321	point
Reveille A34-778 TPZ REV-1 (460'FSL & 765'FWL,SEC.34)	6683.00	-97.56	-743.44	3266383.49	1403391.00	40.4367643	-104.5430043	point
Reveille A34-778 BHL REV-2 (200'FNL & 781'FWL,SEC.27)	6688.00	9775.18	-829.88	3266297.05	1413263.35	40.4638647	-104.5429321	point

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Reveille A34-778
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API	0512350791
Facility	SEC.34-T06N-R64W	Wellbore	Reveille A34-778 AWB
Slot	SLOT#22 Reveille A34-778 (542'FSL & 1508'FWL,SEC.34)		

WELLPATH COMPOSITION - Ref Wellbore: Reveille A34-778 AWB Ref Wellpath: Reveille A34-778 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
0.00	1921.00	Gyrodatta 2015 - GC+DROP+COND	Gyrodatta 2015 - GC+DROP+COND 13-1/2" <82 - 1921>	Reveille A34-778 AWB	2/11/2021
1921.00	17038.00	OWSG MWD rev2 (MS+IFR1) NOBLE	OWSG MWD rev2 (MS+IFR1) NOBLE 8-1/2" <1994 - 16879>	Reveille A34-778 AWB	2/15/2021

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Well	Reveille A34-778
Field	WELD COUNTY (NOBLE NAD 83 GRID)	API	0512350791
Facility	SEC.34-T06N-R64W	Wellbore	Reveille A34-778 AWB
Slot	SLOT#22 Reveille A34-778 (542'FSL & 1508'FWL,SEC.34)		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
82.00	0.350	47.040	82.00	FIRST GYRODATA SURVEY
1921.00	1.170	210.140	1920.96	LAST GYRODATA SURVEY
1994.00	1.480	251.050	1993.94	FIRST BH MWD SURVEY
16879.00	90.280	0.650	6689.97	LAST BH MWD SURVEY
17038.00	90.280	0.650	6689.19	PROJECTION TO BIT