

NOBLE ENERGY, INC

Location: COLORADO Slot: SLOT#10 BENNETT LD19-758 (380°FSL & 1435°FWL, SEC.19)
Field: WELD COUNTY (NOBLE NAD 83 GRID) Well: BENNETT LD19-758
Facility: SEC.19-T09N-R58W Wellbore: BENNETT LD19-758 PWB

Plot reference wellpath is BENNETT LD19-758 PWP (REV-C.0)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to H&P 517 (30KB) (RKB)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to H&P 517 (30KB) (RKB)	North Reference: Grid north
H&P 517 (30KB) (RKB) to Mean Sea Level: 4877 feet	Scale: True distance
Mean Sea Level to Ground level (At Slot: SLOT#10 BENNETT LD19-758 (380°FSL & 1435°FWL, SEC.19)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: ingmjmr on 2016-12-07
	Database: WA_DEN_Denver_Deln



Scale 1 inch = 1500

Easting (ft)

-1500

0

1500

3000

4500

BENNETT LD19-758 BHL ON PLAT REV-2 (140°FNL & 2080°FWL, SEC.19)

PROJECTION TO BIT : 5903.29ft TVD, 4811.62ft N, 521.04ft E
LAST BHI SURVEY : 5903.28ft TVD, 4787.76ft N, 523.58ft E

SEC.19-T09N-R58W HARDLINES (200°FNL & 300°FSL/FWL)

SEC.19-T09N-R58W

SLOT#10 BENNETT LD19-758
(380°FSL & 1435°FWL, SEC.19)

Northing (ft)

4500

3000

1500

0

Scale 1 inch = 1500

2250

3000

3750

4500

5250

6000

6750

9.625in Casing Surface : 0.23° Inc, 1927.00ft MD, 1926.99ft TVD, -1.10ft VS
TIED ONTO GYRO SURVEYS : 0.26° Inc, 1919.00ft MD, 1918.99ft TVD, -1.12ft VS
FIRST BHI SURVEY : 0.34° Inc, 1979.00ft MD, 1978.98ft TVD, -0.89ft VS

CROSS 300' SETBACK : 5893.40ft TVD, 68.33ft S, 679.34ft E
FIRST BHI SURVEY : 1978.98ft TVD, 1.14ft S, 2.38ft E
TIED ONTO GYRO SURVEYS : 1918.99ft TVD, 1.38ft S, 2.40ft E
9.625in Casing Surface : 1926.99ft TVD, 1.38ft S, 2.37ft E

CROSS 300' SETBACK : 59.06° Inc, 6071.00ft MD, 5893.40ft TVD, 8.58ft VS

LAST BHI SURVEY : 89.97° Inc, 10939.00ft MD, 5903.28ft TVD, 4816.27ft VS
PROJECTION TO BIT : 89.97° Inc, 10963.00ft MD, 5903.29ft TVD, 4839.74ft VS
BENNETT LD19-758 BHL ON PLAT REV-2 (140°FNL & 2080°FWL, SEC.19)

Vertical Section (ft)

Azimuth 6.05° with reference 0.00 N, 0.00 E

Scale 1 inch = 1500

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Slot	SLOT#10 BENNETT LD19-758 (380'FSL & 1435'FWL, SEC.19)
Area	COLORADO	Well	BENNETT LD19-758
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	BENNETT LD19-758 AWB
Facility	SEC.19-T09N-R58W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Ingmjmr
Scale	0.999992	Report Generated	12/7/2016 at 5:23:48 PM
Convergence at slot	1.03° East	Database/Source file	WA_DEN_Denver_Defn/BENNETT_LD19-758_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-60.78	-2368.98	3440257.37	1512799.87	40°43'48.720"N	103°54'41.112"W
Facility Reference Pt			3442626.33	1512860.65	40°43'48.900"N	103°54'10.332"W
Field Reference Pt			3000000.00	4454105.15	48°46'34.315"N	105°30'00.000"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 517 (30'KB) (RKB) to Facility Vertical Datum	4877.00ft
Horizontal Reference Pt	Slot	H&P 517 (30'KB) (RKB) to Mean Sea Level	4877.00ft
Vertical Reference Pt	H&P 517 (30'KB) (RKB)	H&P 517 (30'KB) (RKB) to Ground Level at Slot (SLOT#10 BENNETT LD19-758 (380'FSL & 1435'FWL, SEC.19))	4877.00ft
MD Reference Pt	H&P 517 (30'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	6.05°

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Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	BENNETT LD19-758 AWB
Facility	SEC.19-T09N-R58W		

WELLPATH DATA (92 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
1919.00	0.260	306.240	1918.99	-1.12	-1.38	2.40	40°43'48.706"N	103°54'41.081"W	0.22	TIED ONTO GYRO SURVEYS
1979.00	0.340	29.600	1978.98	-0.89	-1.14	2.38	40°43'48.708"N	103°54'41.081"W	0.67	FIRST BHI SURVEY
2073.00	3.830	108.210	2072.91	-1.29	-1.88	5.50	40°43'48.700"N	103°54'41.041"W	4.02	
2168.00	5.040	107.810	2167.63	-2.81	-4.15	12.49	40°43'48.677"N	103°54'40.951"W	1.27	
2263.00	5.120	109.730	2262.25	-4.67	-6.86	20.45	40°43'48.649"N	103°54'40.848"W	0.20	
2357.00	7.260	116.520	2355.70	-7.74	-10.93	29.71	40°43'48.607"N	103°54'40.729"W	2.40	
2452.00	9.050	121.180	2449.74	-13.01	-17.47	41.48	40°43'48.540"N	103°54'40.577"W	2.01	
2546.00	11.110	123.100	2542.28	-20.27	-26.25	55.39	40°43'48.451"N	103°54'40.399"W	2.22	
2641.00	13.030	123.600	2635.18	-29.39	-37.17	71.98	40°43'48.340"N	103°54'40.186"W	2.02	
2736.00	12.890	121.330	2727.76	-38.87	-48.61	89.95	40°43'48.224"N	103°54'39.955"W	0.56	
2830.00	13.010	119.380	2819.37	-47.54	-59.25	108.13	40°43'48.115"N	103°54'39.722"W	0.48	
2925.00	13.020	118.920	2911.93	-55.93	-69.67	126.81	40°43'48.009"N	103°54'39.481"W	0.11	
3019.00	12.920	121.230	3003.53	-64.52	-80.24	145.07	40°43'47.902"N	103°54'39.247"W	0.56	
3114.00	12.920	123.570	3096.13	-73.95	-91.62	163.00	40°43'47.786"N	103°54'39.016"W	0.55	
3209.00	12.960	126.420	3188.71	-84.24	-103.82	180.42	40°43'47.662"N	103°54'38.793"W	0.67	
3303.00	12.990	123.250	3280.32	-94.40	-115.87	197.74	40°43'47.540"N	103°54'38.571"W	0.76	
3398.00	13.100	120.600	3372.86	-103.76	-127.21	215.93	40°43'47.425"N	103°54'38.337"W	0.64	
3492.00	12.880	117.950	3464.46	-112.09	-137.54	234.36	40°43'47.320"N	103°54'38.100"W	0.68	
3587.00	13.000	114.690	3557.05	-119.46	-146.97	253.42	40°43'47.223"N	103°54'37.855"W	0.78	
3681.00	13.010	115.180	3648.64	-126.30	-155.88	272.60	40°43'47.132"N	103°54'37.608"W	0.12	
3776.00	13.030	119.280	3741.20	-134.03	-165.67	291.62	40°43'47.032"N	103°54'37.363"W	0.97	
3870.00	12.900	120.200	3832.80	-142.51	-176.13	309.93	40°43'46.925"N	103°54'37.128"W	0.26	
3965.00	12.860	129.940	3925.42	-152.74	-188.25	327.20	40°43'46.802"N	103°54'36.906"W	2.28	
4059.00	12.970	132.900	4017.04	-164.90	-202.15	342.95	40°43'46.662"N	103°54'36.705"W	0.71	
4154.00	13.000	133.580	4109.62	-177.81	-216.77	358.50	40°43'46.515"N	103°54'36.507"W	0.16	
4249.00	12.890	129.120	4202.20	-190.10	-230.83	374.46	40°43'46.373"N	103°54'36.303"W	1.06	
4343.00	12.840	124.540	4293.85	-200.81	-243.36	391.20	40°43'46.246"N	103°54'36.088"W	1.09	
4438.00	12.910	121.290	4386.46	-210.37	-254.86	408.96	40°43'46.130"N	103°54'35.860"W	0.77	
4532.00	12.840	120.220	4478.10	-219.12	-265.57	426.96	40°43'46.021"N	103°54'35.629"W	0.26	
4627.00	12.880	121.010	4570.71	-227.92	-276.34	445.16	40°43'45.911"N	103°54'35.395"W	0.19	

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Slot	SLOT#10 BENNETT LD19-758 (380'FSL & 1435'FWL, SEC.19)
Area	COLORADO	Well	BENNETT LD19-758
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	BENNETT LD19-758 AWB
Facility	SEC.19-T09N-R58W		

WELLPATH DATA (92 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4722.00	12.740	123.560	4663.35	-237.22	-287.59	462.96	40°43'45.797"N	103°54'35.166"W	0.61	
4911.00	12.850	120.670	4847.66	-255.61	-309.83	498.41	40°43'45.571"N	103°54'34.711"W	0.34	
5005.00	12.850	118.470	4939.30	-263.95	-320.14	516.59	40°43'45.466"N	103°54'34.478"W	0.52	
5100.00	12.860	119.410	5031.92	-272.17	-330.37	535.08	40°43'45.361"N	103°54'34.240"W	0.22	
5194.00	12.890	117.480	5123.56	-280.15	-340.34	553.50	40°43'45.260"N	103°54'34.003"W	0.46	
5289.00	12.810	114.100	5216.18	-287.29	-349.53	572.51	40°43'45.165"N	103°54'33.758"W	0.80	
5383.00	13.240	100.160	5307.79	-291.29	-355.69	592.62	40°43'45.101"N	103°54'33.498"W	3.37	
5478.00	14.940	57.840	5400.16	-284.48	-351.08	613.76	40°43'45.143"N	103°54'33.223"W	10.74	
5572.00	16.550	21.280	5490.85	-264.02	-332.11	628.91	40°43'45.328"N	103°54'33.022"W	10.52	
5667.00	22.710	9.730	5580.32	-232.62	-301.38	636.93	40°43'45.630"N	103°54'32.910"W	7.63	
5761.00	24.720	8.640	5666.38	-194.87	-264.06	642.95	40°43'45.997"N	103°54'32.824"W	2.19	
5856.00	35.210	13.040	5748.58	-147.71	-217.61	652.14	40°43'46.455"N	103°54'32.693"W	11.28	
5951.00	46.180	12.480	5820.49	-86.28	-157.28	665.77	40°43'47.048"N	103°54'32.502"W	11.55	
6045.00	56.070	6.080	5879.45	-13.36	-85.17	677.26	40°43'47.759"N	103°54'32.336"W	11.77	
6071.00†	59.061	4.807	5893.40	8.58	-63.33	679.34	40°43'47.974"N	103°54'32.304"W	12.22	CROSS 300'SETBACK
6140.00	67.050	1.770	5924.64	69.96	-1.97	682.81	40°43'48.580"N	103°54'32.245"W	12.22	
6234.00	79.350	1.090	5951.76	159.48	87.81	685.03	40°43'49.466"N	103°54'32.195"W	13.10	
6329.00	90.680	0.290	5960.00	253.55	182.29	686.16	40°43'50.399"N	103°54'32.158"W	11.96	
6374.00	90.770	359.820	5959.43	298.30	227.29	686.21	40°43'50.844"N	103°54'32.147"W	1.06	
6423.00	90.740	359.540	5958.79	346.99	276.28	685.93	40°43'51.328"N	103°54'32.139"W	0.57	
6518.00	90.890	358.610	5957.44	441.28	371.26	684.40	40°43'52.267"N	103°54'32.137"W	0.99	
6612.00	90.770	357.110	5956.08	534.31	465.18	680.89	40°43'53.195"N	103°54'32.161"W	1.60	
6706.00	90.830	356.360	5954.76	627.06	559.02	675.54	40°43'54.123"N	103°54'32.209"W	0.80	
6801.00	90.680	356.400	5953.51	720.71	653.82	669.54	40°43'55.061"N	103°54'32.264"W	0.16	
6896.00	90.890	357.140	5952.21	814.45	748.66	664.19	40°43'55.999"N	103°54'32.312"W	0.81	
6990.00	90.770	357.660	5950.85	907.38	842.55	659.92	40°43'56.927"N	103°54'32.345"W	0.57	
7085.00	90.740	358.230	5949.60	1001.42	937.49	656.52	40°43'57.866"N	103°54'32.367"W	0.60	
7180.00	90.710	358.320	5948.39	1095.54	1032.43	653.66	40°43'58.804"N	103°54'32.382"W	0.10	
7274.00	90.680	358.390	5947.25	1188.69	1126.39	650.96	40°43'59.733"N	103°54'32.396"W	0.08	
7369.00	90.650	359.060	5946.15	1282.91	1221.36	648.85	40°44'00.671"N	103°54'32.401"W	0.71	

REFERENCE WELLPATH IDENTIFICATION

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Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	BENNETT LD19-758 AWP
Facility	SEC.19-T09N-R58W		

WELLPATH DATA (92 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7463.00	90.620	359.130	5945.11	1376.21	1315.34	647.36	40°44'01.600"N	103°54'32.398"W	0.08	
7558.00	90.580	358.470	5944.11	1470.44	1410.31	645.37	40°44'02.539"N	103°54'32.402"W	0.70	
7652.00	90.580	357.900	5943.16	1563.56	1504.26	642.39	40°44'03.468"N	103°54'32.419"W	0.61	
7747.00	90.680	358.540	5942.12	1657.67	1599.21	639.44	40°44'04.406"N	103°54'32.435"W	0.68	
7936.00	90.460	358.670	5940.24	1845.06	1788.14	634.84	40°44'06.273"N	103°54'32.451"W	0.14	
8031.00	90.620	358.060	5939.34	1939.21	1883.10	632.13	40°44'07.212"N	103°54'32.464"W	0.66	
8220.00	90.620	356.760	5937.30	2126.05	2071.89	623.59	40°44'09.079"N	103°54'32.531"W	0.69	
8314.00	90.680	356.380	5936.23	2218.76	2165.72	617.97	40°44'10.007"N	103°54'32.582"W	0.41	
8409.00	90.680	356.460	5935.10	2312.42	2260.53	612.04	40°44'10.944"N	103°54'32.637"W	0.08	
8503.00	90.620	356.240	5934.04	2405.07	2354.33	606.05	40°44'11.872"N	103°54'32.693"W	0.24	
8693.00	90.740	356.830	5931.78	2592.44	2543.97	594.57	40°44'13.748"N	103°54'32.798"W	0.32	
8787.00	90.650	356.620	5930.64	2685.19	2637.81	589.20	40°44'14.676"N	103°54'32.845"W	0.24	
8882.00	90.680	356.890	5929.54	2778.94	2732.65	583.82	40°44'15.614"N	103°54'32.893"W	0.29	
8977.00	90.580	355.730	5928.49	2872.57	2827.44	577.71	40°44'16.551"N	103°54'32.950"W	1.23	
9071.00	90.430	356.370	5927.67	2965.13	2921.22	571.24	40°44'17.479"N	103°54'33.013"W	0.70	
9166.00	90.430	357.170	5926.95	3058.89	3016.06	565.88	40°44'18.417"N	103°54'33.060"W	0.84	
9260.00	90.520	358.380	5926.17	3151.91	3109.99	562.23	40°44'19.345"N	103°54'33.086"W	1.29	
9355.00	90.400	359.940	5925.41	3246.21	3204.97	560.84	40°44'20.284"N	103°54'33.082"W	1.65	
9449.00	90.460	0.470	5924.71	3339.72	3298.97	561.18	40°44'21.213"N	103°54'33.055"W	0.57	
9544.00	90.520	0.530	5923.89	3434.28	3393.96	562.01	40°44'22.151"N	103°54'33.022"W	0.09	
9638.00	90.490	359.680	5923.07	3527.77	3487.95	562.18	40°44'23.080"N	103°54'32.998"W	0.90	
9733.00	90.550	358.970	5922.20	3622.11	3582.94	561.06	40°44'24.018"N	103°54'32.991"W	0.75	
9922.00	90.770	356.870	5920.03	3809.19	3771.80	554.20	40°44'25.885"N	103°54'33.036"W	1.12	
10016.00	90.550	357.340	5918.94	3902.04	3865.67	549.45	40°44'26.813"N	103°54'33.076"W	0.55	
10111.00	90.520	357.680	5918.06	3995.98	3960.58	545.33	40°44'27.752"N	103°54'33.107"W	0.36	
10206.00	90.650	358.660	5917.09	4090.08	4055.52	542.29	40°44'28.690"N	103°54'33.124"W	1.04	
10395.00	90.590	359.930	5915.04	4277.76	4244.49	539.97	40°44'30.558"N	103°54'33.110"W	0.67	
10584.00	92.340	359.370	5910.21	4465.51	4433.42	538.81	40°44'32.424"N	103°54'33.081"W	0.97	
10678.00	93.080	359.600	5905.76	4558.79	4527.31	537.97	40°44'33.352"N	103°54'33.071"W	0.82	
10772.00	90.000	357.710	5903.24	4651.96	4621.23	535.76	40°44'34.280"N	103°54'33.077"W	3.84	

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Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	BENNETT LD19-758 AWB
Facility	SEC.19-T09N-R58W		

WELLPATH DATA (92 stations)

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10939.00	89.970	353.920	5903.28	4816.27	4787.76	523.58	40°44'35.928"N	103°54'33.197"W	2.27	LAST BHI SURVEY
10963.00	89.970	353.920	5903.29	4839.74	4811.62	521.04	40°44'36.164"N	103°54'33.224"W	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS - Ref Wellbore: BENNETT LD19-758 AWB Ref Wellpath: BENNETT LD19-758 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]
13.5in Open Hole	30.00	1927.00	1897.00	30.00	1926.99	0.02	0.02	-1.36	2.37
9.625in Casing Surface	30.00	1927.00	1897.00	30.00	1926.99	0.02	0.02	-1.36	2.37
8.5in Open Hole	1927.00	10963.00	9036.00	1926.99	5903.29	-1.36	2.37	4811.62	521.04

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.19-T09N-R58W	0.00	0.00	0.00	3440257.37	1512799.87	40°43'48.720"N	103°54'41.112"W	polygon
BENNETT LD19-758 BHL ON PLAT REV-2 (140'FNL & 2080'FWL, SEC.19)	5910.00	4811.83	509.65	3440767.02	1517611.65	40°44'36.168"N	103°54'33.372"W	point
BENNETT LD19-758 LANDING POINT	5957.75	254.44	694.34	3440951.70	1513054.31	40°43'51.111"N	103°54'32.035"W	point
BENNETT LD19-758 BHL ON PLAT (140'FNL & 2080'FWL, SEC.19)	5961.00	4811.83	509.65	3440767.02	1517611.65	40°44'36.168"N	103°54'33.372"W	point
SEC.19-T09N-R58W HARDLINES (200'FNL & 300'FSL/FEL/FWL)	6150.00	0.00	0.00	3440257.37	1512799.87	40°43'48.720"N	103°54'41.112"W	polygon

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Slot	SLOT#10 BENNETT LD19-758 (380'FSL & 1435'FWL, SEC.19)
Area	COLORADO	Well	BENNETT LD19-758
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	BENNETT LD19-758 AWB
Facility	SEC.19-T09N-R58W		

WELLPATH COMPOSITION - Ref Wellbore: BENNETT LD19-758 AWB Ref Wellpath: BENNETT LD19-758 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	1919.00	Gyrodata standard - Drop gyro or Multi-shot	GYRO SURVEYS FOR SURFACE HOLE <80'-1919'>	BENNETT LD19-758 AWB
1919.00	10939.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	BHI MWD SURVEYS 8.5" HOLE <1979'-10939'>	BENNETT LD19-758 AWB
10939.00	10963.00	Blind Drilling (std)	Projection to bit	BENNETT LD19-758 AWB



Actual Wellpath Report

BENNETT LD19-758 AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Slot	SLOT#10 BENNETT LD19-758 (380'FSL & 1435'FWL, SEC.19)
Area	COLORADO	Well	BENNETT LD19-758
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	BENNETT LD19-758 AWB
Facility	SEC.19-T09N-R58W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
1919.00	0.260	306.240	1918.99	TIED ONTO GYRO SURVEYS
1979.00	0.340	29.600	1978.98	FIRST BHI SURVEY
6071.00	59.061	4.807	5893.40	CROSS 300'SETBACK
10939.00	89.970	353.920	5903.28	LAST BHI SURVEY
10963.00	89.970	353.920	5903.29	PROJECTION TO BIT