

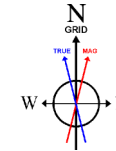
# NOBLE ENERGY, INC

Location: COLORADO Slot: SLOT#17 WELLS RANCH BB11-643(2170'FSL&235'FWL,SEC.11)  
Field: WELD COUNTY (NOBLE NAD 83 GRID) Well: WELLS RANCH BB11-643  
Facility: SEC.11-T05N-R63W Wellbore: WELLS RANCH BB11-643 PWB

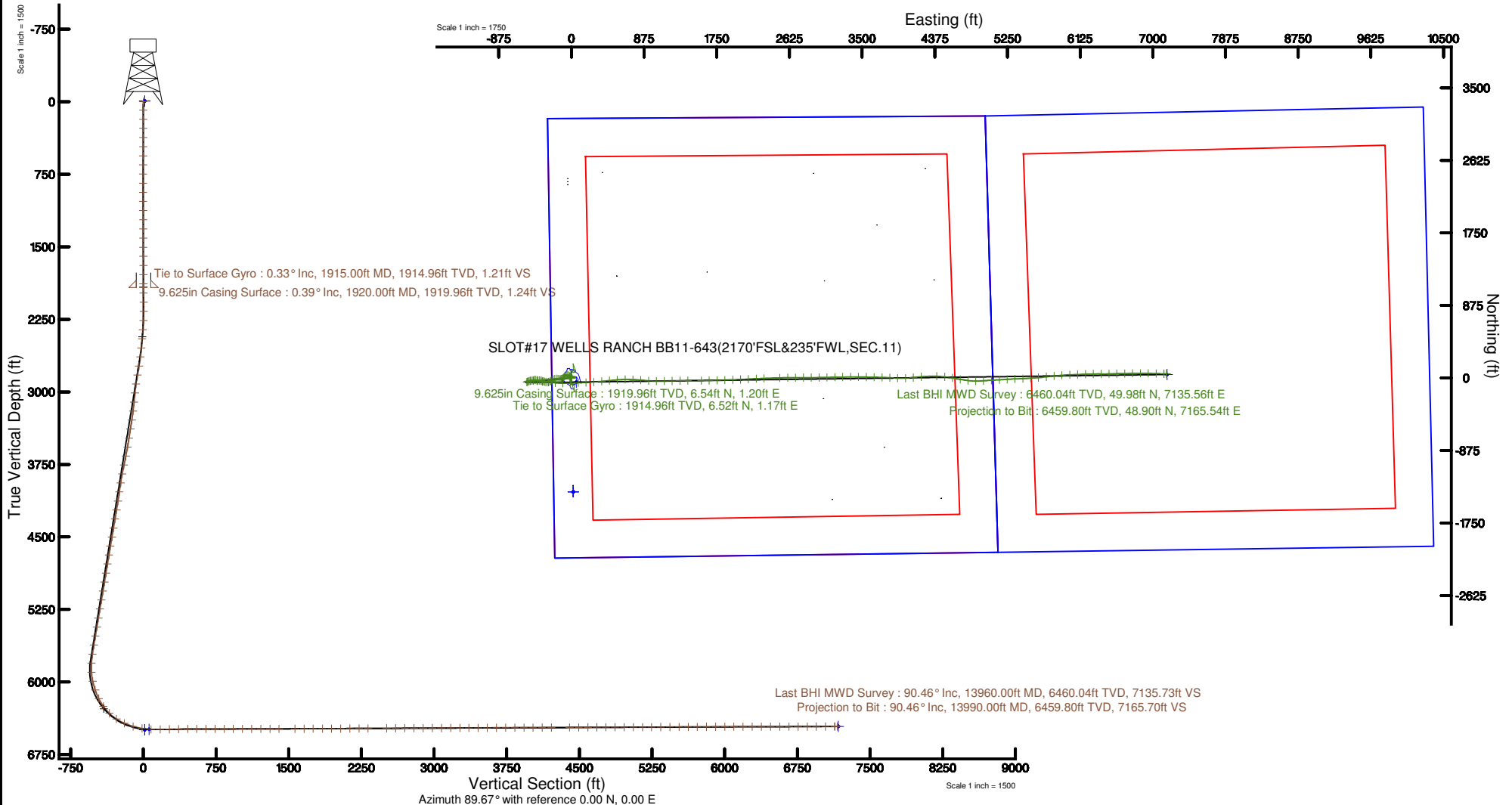
Plot reference wellbore in WELLS RANCH BB11-643 (REV A) PWB	Grid System: NAD83 (Lambert Colorado 30° Northern Zone (2011) US Feet)
True vertical depths are referenced to H&P FGS (2010) (FWS)	True Wellbore was transformed from a different geoidic datum
Measured depths are referenced to H&P FGS (2010) (FWS)	North Reference: Grid north
H&P FGS (2010) (FWS) to Mean Sea Level: 4086 feet	Scale: True distance
Mean Sea Level to Ground level (in Slot SLOTH#17 WELLS RANCH BB11-643(2170'FSL&235'FWL,SEC.11)) 0 feet	Depth are in feet
Coordinates are in feet referenced to Slot	Created by: cswright on 2017-09-18
	Database Owner:

## Location Information

Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
SEC.11-T05N-R63W		300800.430	139900.405	40°54'N 71°17'W	104°54'W 200'W	
Site	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SLOTH#17 WELLS RANCH BB11-643(2170'FSL&235'FWL,SEC.11)	1070.20	20.41	300870.630	139900.405	40°54'N 71°17'W	104°54'W 200'W
H&P FGS (2010) (FWS) to Ground level (in Slot SLOTH#17 WELLS RANCH BB11-643(2170'FSL&235'FWL,SEC.11))						4086
Mean Sea Level to Ground level (in Slot SLOTH#17 WELLS RANCH BB11-643(2170'FSL&235'FWL,SEC.11))						0
H&P FGS (2010) (FWS) to Mean Sea Level						4086



BGGM (1900.0 to 2019.0) Dip: 66.92° Field: 52426 nT  
Magnetic North is 8.18 degrees East of True North (at 7/19/2017)  
Grid North is 0.70 degrees East of True North  
To correct azimuth from True to Grid subtract 0.70 degrees  
To correct azimuth from Magnetic to Grid add 7.48 degrees



REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Slot	SLOT#17 WELLS RANCH BB11-643(2170'FSL&235'FWL,SEC.11)
Area	COLORADO	Well	WELLS RANCH BB11-643
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	WELLS RANCH BB11-643 AWB
Facility	SEC.11-T05N-R63W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Cantryat
Scale	0.999961	Report Generated	9/18/2017 at 4:09:44 PM
Convergence at slot	0.71° East	Database/Source file	Denver/WELLS_RANCH_BB11-643_AWP.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	1373.29	-22.41	3302780.02	1394999.69	40°24'45.288"N	104°24'45.468"W
Facility Reference Pt			3302802.43	1393626.46	40°24'31.716"N	104°24'45.396"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 RIG (30'KB) (RKB) to Facility Vertical Datum	4698.00ft
Horizontal Reference Pt	Slot	H&P RIG (30'KB) (RKB) to Mean Sea Level	4698.00ft
Vertical Reference Pt	H&P RIG (30'KB) (RKB)	H&P RIG (30'KB) (RKB) to Ground Level at Slot (SLOT#17 WELLS RANCH BB11-643 (2170'FSL&235'FWL,SEC.11))	4698.00ft
MD Reference Pt	H&P RIG (30'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	89.67°

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Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	WELLS RANCH BB11-643 AWB
Facility	SEC.11-T05N-R63W		

WELLPATH DATA (148 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00	0.000	8.900	0.00	0.00	0.00	0.00	0.00	
87.00	0.440	8.900	87.00	0.05	0.33	0.05	0.51	
183.00	0.470	355.830	183.00	0.09	1.09	0.08	0.11	
275.00	0.380	265.280	274.99	-0.24	1.44	-0.25	0.66	
369.00	0.260	290.790	368.99	-0.75	1.49	-0.76	0.20	
464.00	0.030	352.770	463.99	-0.96	1.59	-0.97	0.26	
559.00	0.630	315.040	558.99	-1.33	1.98	-1.34	0.64	
653.00	0.210	299.970	652.99	-1.84	2.44	-1.85	0.46	
748.00	0.530	345.830	747.99	-2.09	2.95	-2.11	0.43	
842.00	0.480	21.180	841.98	-2.05	3.74	-2.08	0.33	
937.00	0.550	332.580	936.98	-2.12	4.51	-2.14	0.45	
1031.00	0.480	34.230	1030.98	-2.10	5.24	-2.13	0.57	
1126.00	0.500	64.740	1125.97	-1.50	5.74	-1.53	0.27	
1221.00	0.390	27.800	1220.97	-0.97	6.21	-1.00	0.32	
1315.00	0.360	54.120	1314.97	-0.58	6.66	-0.61	0.18	
1410.00	0.330	96.040	1409.97	-0.06	6.81	-0.10	0.26	
1504.00	0.280	77.640	1503.97	0.43	6.83	0.39	0.12	
1599.00	0.380	98.980	1598.96	0.97	6.83	0.93	0.17	
1693.00	0.270	144.600	1692.96	1.41	6.60	1.37	0.29	
1788.00	0.300	249.140	1787.96	1.30	6.33	1.26	0.47	
1882.00	0.200	20.530	1881.96	1.13	6.40	1.09	0.49	
1915.00	0.330	41.550	1914.96	1.21	6.52	1.17	0.49	Tie to Surface Gyro
1979.00	1.810	102.040	1978.95	2.32	6.45	2.29	2.61	
2074.00	1.170	41.610	2073.92	4.44	6.86	4.40	1.68	
2169.00	1.940	343.240	2168.89	4.63	9.13	4.58	1.75	
2263.00	4.240	308.860	2262.75	1.49	12.83	1.41	3.04	
2358.00	4.220	278.760	2357.51	-4.69	15.57	-4.78	2.31	
2452.00	5.060	289.820	2451.20	-11.99	17.50	-12.10	1.30	
2547.00	6.460	302.450	2545.72	-20.42	21.79	-20.55	1.98	
2641.00	8.710	304.030	2638.89	-30.74	28.61	-30.91	2.40	

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Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	WELLS RANCH BB11-643 AWB
Facility	SEC.11-T05N-R63W		

WELLPATH DATA (148 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
2736.00	9.490	286.500	2732.72	-44.18	34.86	-44.38	3.02	
2830.00	10.360	257.540	2825.37	-59.87	35.24	-60.08	5.33	
2925.00	10.470	233.660	2918.84	-75.21	28.28	-75.38	4.51	
3019.00	9.470	212.460	3011.45	-86.31	16.69	-86.41	4.02	
3114.00	9.150	215.930	3105.20	-95.01	3.98	-95.04	0.68	
3208.00	8.940	232.260	3198.05	-105.24	-6.55	-105.20	2.73	
3303.00	9.530	256.260	3291.85	-118.76	-12.94	-118.68	4.07	
3397.00	8.880	267.420	3384.65	-133.58	-15.11	-133.49	2.02	
3492.00	8.770	279.650	3478.53	-148.04	-14.23	-147.96	1.97	
3586.00	10.250	286.200	3571.24	-163.11	-10.69	-163.05	1.95	
3681.00	11.170	271.150	3664.60	-180.42	-8.15	-180.37	3.09	
3775.00	12.170	255.820	3756.68	-199.15	-10.40	-199.09	3.45	
3869.00	12.740	242.750	3848.49	-218.01	-17.57	-217.91	3.05	
3964.00	9.690	231.610	3941.67	-233.65	-27.33	-233.50	3.92	
4058.00	9.640	240.920	4034.35	-246.78	-36.07	-246.58	1.66	
4153.00	9.840	245.950	4127.98	-261.19	-43.25	-260.94	0.92	
4247.00	9.600	256.360	4220.64	-276.17	-48.37	-275.90	1.88	
4342.00	9.730	273.910	4314.31	-291.89	-49.69	-291.61	3.09	
4437.00	9.700	279.060	4407.95	-307.79	-47.88	-307.52	0.92	
4531.00	9.780	283.120	4500.59	-323.37	-44.82	-323.12	0.74	
4626.00	9.740	284.540	4594.22	-338.98	-40.97	-338.75	0.26	
4720.00	9.660	290.160	4686.88	-354.06	-36.26	-353.85	1.01	
4814.00	9.760	282.610	4779.53	-369.21	-31.80	-369.03	1.36	
4909.00	9.650	269.690	4873.19	-385.02	-30.09	-384.85	2.29	
5003.00	9.600	272.810	4965.86	-400.73	-29.75	-400.56	0.56	
5098.00	9.700	284.650	5059.53	-416.37	-27.33	-416.22	2.09	
5192.00	9.810	278.020	5152.17	-431.94	-24.21	-431.81	1.20	
5286.00	9.860	262.440	5244.81	-447.85	-24.15	-447.72	2.82	
5381.00	9.520	251.590	5338.46	-463.39	-27.71	-463.24	1.95	
5475.00	9.730	264.300	5431.15	-478.69	-30.95	-478.52	2.27	

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Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	WELLS RANCH BB11-643 AWB
Facility	SEC.11-T05N-R63W		

WELLPATH DATA (148 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5570.00	9.760	256.870	5524.78	-494.54	-33.58	-494.35	1.32	
5664.00	9.750	253.310	5617.42	-509.94	-37.67	-509.73	0.64	
5759.00	9.860	249.380	5711.03	-525.29	-42.85	-525.05	0.71	
5854.00	3.660	208.110	5805.37	-534.38	-48.39	-534.11	7.90	
5948.00	2.890	55.230	5899.31	-533.85	-49.69	-533.57	6.78	
6043.00	14.240	62.160	5993.10	-521.47	-42.85	-521.23	11.98	
6137.00	19.170	80.220	6083.17	-495.96	-34.81	-495.77	7.56	
6232.00	25.970	92.140	6170.88	-459.73	-32.94	-459.55	8.59	
6327.00	35.600	95.170	6252.41	-411.31	-36.21	-411.11	10.26	
6421.00	46.380	96.170	6323.26	-350.09	-42.36	-349.85	11.49	
6516.00	56.340	96.330	6382.50	-276.47	-50.43	-276.18	10.49	
6610.00	67.480	95.500	6426.69	-194.16	-58.93	-193.83	11.88	
6705.00	72.780	90.920	6458.99	-105.05	-63.87	-104.68	7.19	
6799.00	80.850	87.060	6480.42	-13.63	-62.21	-13.27	9.47	
6894.00	88.860	87.880	6488.93	80.84	-58.04	81.18	8.48	
6988.00	90.490	87.650	6489.46	174.79	-54.37	175.10	1.75	
7083.00	90.830	85.510	6488.37	269.64	-48.71	269.92	2.28	
7178.00	91.260	84.630	6486.64	364.31	-40.55	364.56	1.03	
7272.00	90.150	83.720	6485.48	457.87	-31.01	458.06	1.53	
7367.00	90.280	85.700	6485.12	552.51	-22.25	552.65	2.09	
7461.00	90.000	88.740	6484.89	646.41	-17.69	646.53	3.25	
7555.00	90.120	93.470	6484.79	740.36	-19.50	740.48	5.03	
7650.00	89.880	95.020	6484.79	835.05	-26.53	835.22	1.65	
7744.00	89.970	93.760	6484.92	928.73	-33.73	928.94	1.34	
7839.00	90.370	90.860	6484.64	1023.62	-37.56	1023.85	3.08	
7934.00	89.940	89.210	6484.38	1118.61	-37.62	1118.85	1.79	
8028.00	89.910	88.390	6484.50	1212.60	-35.65	1212.83	0.87	
8123.00	89.940	88.320	6484.63	1307.58	-32.92	1307.79	0.08	
8217.00	90.280	89.200	6484.45	1401.56	-30.89	1401.77	1.00	
8380.00	90.340	90.680	6483.56	1564.56	-30.72	1564.76	0.91	

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Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	WELLS RANCH BB11-643 AWB
Facility	SEC.11-T05N-R63W		

WELLPATH DATA (148 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8475.00	90.250	89.200	6483.07	1659.55	-30.62	1659.76	1.56	
8569.00	90.310	88.140	6482.61	1753.53	-28.43	1753.73	1.13	
8664.00	90.310	88.540	6482.10	1848.51	-25.68	1848.69	0.42	
8758.00	90.180	87.610	6481.70	1942.47	-22.52	1942.63	1.00	
8853.00	90.220	87.210	6481.37	2037.39	-18.23	2037.53	0.42	
8947.00	90.250	86.790	6480.98	2131.29	-13.31	2131.40	0.45	
9042.00	90.430	87.500	6480.42	2226.20	-8.58	2226.28	0.77	
9136.00	90.430	87.640	6479.71	2320.13	-4.59	2320.20	0.15	
9326.00	90.180	88.750	6478.70	2510.06	1.39	2510.10	0.60	
9420.00	90.310	89.350	6478.30	2604.06	2.95	2604.08	0.65	
9515.00	90.250	89.100	6477.83	2699.05	4.23	2699.07	0.27	
9609.00	90.490	90.120	6477.23	2793.05	4.87	2793.07	1.11	
9704.00	90.370	90.260	6476.51	2888.04	4.56	2888.06	0.19	
9799.00	90.220	89.010	6476.03	2983.04	5.16	2983.06	1.33	
9893.00	90.280	88.600	6475.62	3077.03	7.12	3077.04	0.44	
9988.00	90.250	88.930	6475.18	3172.01	9.17	3172.01	0.35	
10083.00	90.180	89.480	6474.82	3267.01	10.49	3267.00	0.58	
10177.00	90.250	89.580	6474.47	3361.01	11.26	3361.00	0.13	
10272.00	90.220	89.890	6474.08	3456.01	11.70	3456.00	0.33	
10367.00	90.310	91.210	6473.64	3550.99	10.79	3550.99	1.39	
10461.00	90.250	91.290	6473.18	3644.96	8.74	3644.97	0.11	
10556.00	90.250	91.190	6472.76	3739.92	6.68	3739.94	0.11	
10650.00	90.370	93.730	6472.26	3833.80	2.65	3833.85	2.71	
10745.00	90.280	92.580	6471.72	3928.62	-2.58	3928.70	1.21	
10839.00	90.310	86.230	6471.23	4022.57	-1.61	4022.65	6.76	
10934.00	90.150	85.470	6470.85	4117.36	5.27	4117.40	0.82	
11029.00	90.250	84.230	6470.52	4212.02	13.80	4212.01	1.31	
11217.00	90.400	91.870	6469.45	4399.80	20.19	4399.76	4.06	
11312.00	90.310	96.450	6468.86	4494.48	13.30	4494.48	4.82	
11406.00	90.180	99.560	6468.46	4587.48	0.21	4587.55	3.31	

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
11501.00	90.220	100.460	6468.13	4680.93	-16.30	4681.11	0.95	
11595.00	90.370	97.110	6467.64	4773.73	-30.66	4773.99	3.57	
11690.00	90.310	90.460	6467.08	4868.43	-36.92	4868.73	7.00	
11784.00	90.120	85.850	6466.73	4962.37	-33.90	4962.65	4.91	
11879.00	90.090	86.720	6466.55	5057.20	-27.74	5057.45	0.92	
11974.00	90.060	86.230	6466.43	5152.06	-21.90	5152.27	0.52	
12068.00	90.090	86.730	6466.31	5245.91	-16.13	5246.09	0.53	
12163.00	90.220	87.470	6466.05	5340.81	-11.32	5340.97	0.79	
12257.00	90.370	87.620	6465.56	5434.75	-7.30	5434.88	0.23	
12352.00	90.310	86.460	6465.00	5529.65	-2.39	5529.75	1.22	
12446.00	90.280	84.950	6464.52	5623.42	4.65	5623.48	1.61	
12541.00	90.280	84.060	6464.05	5718.03	13.74	5718.05	0.94	
12636.00	90.250	84.040	6463.61	5812.57	23.59	5812.53	0.04	
12730.00	90.220	84.930	6463.23	5906.19	32.63	5906.10	0.95	
12825.00	90.120	88.260	6462.95	6001.04	38.27	6000.91	3.51	
12919.00	89.970	87.800	6462.87	6095.00	41.50	6094.86	0.51	
13014.00	90.280	87.320	6462.66	6189.93	45.54	6189.77	0.60	
13109.00	90.150	89.260	6462.31	6284.90	48.38	6284.72	2.05	
13203.00	90.180	90.560	6462.04	6378.90	48.53	6378.72	1.38	
13298.00	89.820	88.530	6462.04	6473.89	49.28	6473.71	2.17	
13392.00	90.250	88.450	6461.98	6567.87	51.76	6567.68	0.47	
13487.00	90.120	89.060	6461.67	6662.86	53.82	6662.66	0.66	
13581.00	90.120	89.170	6461.48	6756.85	55.27	6756.65	0.12	
13676.00	90.090	89.970	6461.30	6851.85	55.99	6851.64	0.84	
13770.00	90.150	91.030	6461.11	6945.84	55.17	6945.64	1.13	
13865.00	90.340	91.570	6460.70	7040.80	53.01	7040.61	0.60	
13960.00	90.460	92.080	6460.04	7135.73	49.98	7135.56	0.55	Last BHI MWD Survey
13990.00	90.460	92.080	6459.80	7165.70	48.90	7165.54	0.00	Projection to Bit

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Operator	NOBLE ENERGY, INC	Slot	SLOT#17 WELLS RANCH BB11-643(2170'FSL&235'FWL,SEC.11)
Area	COLORADO	Well	WELLS RANCH BB11-643
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	WELLS RANCH BB11-643 AWB
Facility	SEC.11-T05N-R63W		

HOLE & CASING SECTIONS - Ref Wellbore: WELLS RANCH BB11-643 AWB Ref Wellpath: WELLS RANCH BB11-643 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	1920.00	1890.00	30.00	1919.96	0.04	0.01	6.54	1.20
9.625in Casing Surface	30.00	1920.00	1890.00	30.00	1919.96	0.04	0.01	6.54	1.20
8.5in Open Hole	1920.00	13990.00	12070.00	1919.96	6459.80	6.54	1.20	48.90	7165.54

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
WELLS RANCH BB11-618 SECTION 11-T05N-R63W	-7.00	-1373.29	22.41	3302802.43	1393626.45	40°24'31.716"N	104°24'45.396"W	polygon
WELLS RANCH BB11-618 SECTION 12-T05N-R63W	-7.00	-1373.29	22.41	3302802.43	1393626.45	40°24'31.716"N	104°24'45.396"W	polygon
WELLS RANCH BB11-643 REV-1 BHL (2120'FSL&2100'FWL,SEC.12)	6458.70	41.65	7173.43	3309953.16	1395041.33	40°24'44.820"N	104°23'12.732"W	point
WELLS RANCH BB11-643 Landing Point(2120'FSL&300'FWL,SEC.11)	6489.74	-50.00	60.00	3302840.02	1394949.69	40°24'44.787"N	104°24'44.700"W	point
WELLS RANCH BB11-618 SECTION 11 HARDLINES (460'SETBACK)	6493.00	-1373.29	22.41	3302802.43	1393626.45	40°24'31.716"N	104°24'45.396"W	polygon
WELLS RANCH BB11-618 SECTION 12 HARDLINES (460'SETBACK)	6493.00	-1373.29	22.41	3302802.43	1393626.45	40°24'31.716"N	104°24'45.396"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: WELLS RANCH BB11-643 AWB Ref Wellpath: WELLS RANCH BB11-643 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	1915.00	Gyrodata standard - Drop gyro or Multi-shot	Surface Gyros <87'-1915'>	WELLS RANCH BB11-643 AWB
1915.00	13960.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	BH/ATCurve OWSG MWD rev2+IFR1+MSA <1979'-13960'>	WELLS RANCH BB11-643 AWB
13960.00	13990.00	Blind Drilling (std)	Projection to bit	WELLS RANCH BB11-643 AWB



REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Slot	SLOT#17 WELLS RANCH BB11-643(2170'FSL&235'FWL,SEC.11)
Area	COLORADO	Well	WELLS RANCH BB11-643
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	WELLS RANCH BB11-643 AWB
Facility	SEC.11-T05N-R63W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
1915.00	0.330	41.550	1914.96	Tie to Surface Gyro
13960.00	90.460	92.080	6460.04	Last BHI MWD Survey
13990.00	90.460	92.080	6459.80	Projection to Bit

COMMENTS	
<b>Wellpath general comments</b> SURFACE LOCATION: NWNW 40.41258N 104.41263W API#: 05-123-44962	