





Actual Wellpath Report

INDEPENDENCE D30-743 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Slot	SLOT#39 INDEPENDENCE D30-743(300'FNL&1157'FEL,SEC.19)
Area	COLORADO	Well	INDEPENDENCE D30-743
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	INDEPENDENCE D30-743 AWP
Facility	SEC.19-T03N-R64W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Guenaler
Scale	0.999957	Report Generated	12/10/2018 at 1:29:04 PM
Convergence at slot	0.59° East	Database/Source file	WA_DEN_Denver_Defn/INDEPENDENCE_D30-743_AWP.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	3746.62	3710.10	3254519.84	1323279.80	40°13'01.956"N	104°35'18.888"W
Facility Reference Pt			3250809.90	1319533.34	40°12'25.308"N	104°36'07.200"W
Field Reference Pt			3000000.00	4454105.15	48°46'34.315"N	105°30'00.000"W

WELLPATH DATUM			
Calculation method	Minimum curvature	RIG(30'KB) (RKB) to Facility Vertical Datum	4801.00ft
Horizontal Reference Pt	Slot	RIG(30'KB) (RKB) to Mean Sea Level	4801.00ft
Vertical Reference Pt	RIG(30'KB) (RKB)	RIG(30'KB) (RKB) to Mud Line at Slot (SLOT#39 INDEPENDENCE D30-743(300'FNL&1157'FEL,SEC.19))	4801.00ft
MD Reference Pt	RIG(30'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	185.41°



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WELLPATH DATA (179 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	48.150	0.00	0.00	0.00	0.00	40°13'01.956"N	104°35'18.888"W	0.00	
83.40	0.340	48.150	83.40	-0.18	0.17	0.18	40°13'01.958"N	104°35'18.886"W	0.41	
178.50	0.410	45.120	178.50	-0.65	0.59	0.64	40°13'01.962"N	104°35'18.880"W	0.08	
270.90	0.500	23.390	270.89	-1.29	1.20	1.03	40°13'01.968"N	104°35'18.875"W	0.21	
365.40	0.480	84.510	365.39	-1.76	1.61	1.59	40°13'01.972"N	104°35'18.867"W	0.53	
460.20	0.490	128.170	460.19	-1.61	1.40	2.30	40°13'01.970"N	104°35'18.858"W	0.38	
554.90	0.520	63.770	554.89	-1.62	1.34	3.01	40°13'01.969"N	104°35'18.849"W	0.57	
649.60	0.150	273.250	649.58	-1.84	1.54	3.27	40°13'01.971"N	104°35'18.846"W	0.69	
744.40	0.350	51.750	744.38	-2.03	1.72	3.37	40°13'01.973"N	104°35'18.844"W	0.50	
839.10	0.400	330.190	839.08	-2.50	2.19	3.43	40°13'01.977"N	104°35'18.843"W	0.52	
933.90	0.210	206.870	933.88	-2.61	2.32	3.19	40°13'01.979"N	104°35'18.847"W	0.57	
1028.60	0.440	344.080	1028.58	-2.79	2.52	3.01	40°13'01.981"N	104°35'18.849"W	0.65	
1123.30	0.460	238.490	1123.28	-2.90	2.67	2.59	40°13'01.982"N	104°35'18.854"W	0.76	
1217.90	0.300	222.700	1217.88	-2.47	2.29	2.10	40°13'01.978"N	104°35'18.861"W	0.20	
1312.60	0.100	182.160	1312.58	-2.19	2.02	1.93	40°13'01.976"N	104°35'18.863"W	0.25	
1407.20	0.190	209.000	1407.18	-1.97	1.80	1.85	40°13'01.974"N	104°35'18.864"W	0.12	
1501.90	0.540	353.770	1501.88	-2.26	2.11	1.72	40°13'01.977"N	104°35'18.866"W	0.74	
1596.60	0.540	357.710	1596.57	-3.14	3.00	1.66	40°13'01.985"N	104°35'18.866"W	0.04	
1691.50	0.210	355.010	1691.47	-3.76	3.62	1.62	40°13'01.992"N	104°35'18.867"W	0.35	
1786.30	0.180	140.460	1786.27	-3.82	3.68	1.70	40°13'01.992"N	104°35'18.866"W	0.39	
1881.10	0.490	196.830	1881.07	-3.32	3.17	1.68	40°13'01.987"N	104°35'18.866"W	0.44	
1924.00	0.660	215.190	1923.96	-2.92	2.80	1.48	40°13'01.983"N	104°35'18.868"W	0.58	Tie to 3rd Party Surface
2176.00	0.040	182.270	2175.96	-1.58	1.52	0.64	40°13'01.971"N	104°35'18.879"W	0.25	
2271.00	2.180	302.920	2270.94	-2.38	2.47	-0.87	40°13'01.981"N	104°35'18.899"W	2.32	
2366.00	4.280	309.420	2365.78	-5.20	5.70	-5.13	40°13'02.013"N	104°35'18.953"W	2.24	
2461.00	6.180	308.240	2460.38	-9.95	11.12	-11.89	40°13'02.067"N	104°35'19.040"W	2.00	
2555.00	7.130	309.060	2553.75	-15.93	17.93	-20.39	40°13'02.135"N	104°35'19.148"W	1.02	
2650.00	9.400	311.270	2647.75	-23.74	26.76	-30.80	40°13'02.224"N	104°35'19.281"W	2.41	
2744.00	12.090	313.220	2740.10	-34.28	38.57	-43.75	40°13'02.342"N	104°35'19.447"W	2.89	
2839.00	13.800	313.970	2832.68	-47.44	53.25	-59.15	40°13'02.488"N	104°35'19.643"W	1.81	



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Area	COLORADO	Well	INDEPENDENCE D30-743
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	INDEPENDENCE D30-743 AWB
Facility	SEC.19-T03N-R64W		

WELLPATH DATA (179 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2934.00	15.300	315.280	2924.63	-62.54	70.02	-76.13	40°13'02.656"N	104°35'19.860"W	1.62	
3028.00	16.760	316.290	3014.97	-79.36	88.63	-94.22	40°13'02.841"N	104°35'20.091"W	1.58	
3123.00	18.070	317.290	3105.62	-98.17	109.36	-113.68	40°13'03.048"N	104°35'20.339"W	1.41	
3313.00	16.540	318.640	3287.01	-136.37	151.32	-151.54	40°13'03.467"N	104°35'20.821"W	0.83	
3502.00	17.940	323.960	3467.53	-176.62	195.05	-186.45	40°13'03.902"N	104°35'21.265"W	1.11	
3597.00	18.040	326.530	3557.88	-199.04	219.15	-203.17	40°13'04.142"N	104°35'21.478"W	0.84	
3691.00	18.590	321.300	3647.13	-221.13	242.99	-220.56	40°13'04.379"N	104°35'21.699"W	1.84	
3786.00	18.840	318.970	3737.11	-242.58	266.38	-240.10	40°13'04.613"N	104°35'21.948"W	0.83	
3881.00	18.690	314.610	3827.06	-262.77	288.64	-261.01	40°13'04.835"N	104°35'22.214"W	1.48	
3976.00	18.590	311.170	3917.08	-281.24	309.30	-283.24	40°13'05.041"N	104°35'22.498"W	1.16	
4165.00	18.560	308.870	4096.24	-315.44	348.01	-329.34	40°13'05.428"N	104°35'23.087"W	0.39	
4354.00	18.350	316.690	4275.55	-351.66	388.54	-373.17	40°13'05.833"N	104°35'23.647"W	1.31	
4449.00	18.590	318.690	4365.65	-371.91	410.79	-393.43	40°13'06.055"N	104°35'23.905"W	0.71	
4638.00	18.570	318.130	4544.80	-412.98	455.83	-433.40	40°13'06.504"N	104°35'24.414"W	0.09	
4733.00	17.510	319.880	4635.13	-433.26	478.03	-452.71	40°13'06.726"N	104°35'24.660"W	1.25	
4828.00	18.480	321.520	4725.48	-454.12	500.74	-471.28	40°13'06.952"N	104°35'24.897"W	1.15	
4923.00	18.580	322.600	4815.56	-476.08	524.55	-489.85	40°13'07.189"N	104°35'25.133"W	0.38	
5112.00	18.670	323.310	4994.66	-520.61	572.73	-526.21	40°13'07.669"N	104°35'25.595"W	0.13	
5207.00	18.860	321.090	5084.61	-542.88	596.87	-544.94	40°13'07.909"N	104°35'25.833"W	0.78	
5301.00	18.940	321.220	5173.54	-564.69	620.59	-564.04	40°13'08.146"N	104°35'26.076"W	0.10	
5396.00	18.190	321.540	5263.60	-586.44	644.22	-582.92	40°13'08.381"N	104°35'26.317"W	0.80	
5491.00	17.970	323.820	5353.91	-608.09	667.66	-600.79	40°13'08.614"N	104°35'26.544"W	0.78	
5585.00	19.210	318.730	5443.01	-629.55	690.99	-619.55	40°13'08.847"N	104°35'26.783"W	2.17	
5680.00	19.260	314.140	5532.71	-650.08	713.65	-641.11	40°13'09.073"N	104°35'27.057"W	1.59	
5775.00	19.260	314.140	5622.40	-669.69	735.47	-663.59	40°13'09.291"N	104°35'27.344"W	0.00	
5869.00	18.480	310.340	5711.35	-687.92	755.91	-686.08	40°13'09.495"N	104°35'27.632"W	1.55	
5964.00	18.780	308.660	5801.37	-704.93	775.21	-709.49	40°13'09.688"N	104°35'27.931"W	0.65	
6059.00	18.490	308.420	5891.39	-721.52	794.12	-733.24	40°13'09.877"N	104°35'28.234"W	0.32	
6154.00	19.190	305.550	5981.30	-737.57	812.56	-757.74	40°13'10.062"N	104°35'28.548"W	1.22	
6249.00	19.280	298.950	6071.01	-751.68	829.23	-784.17	40°13'10.230"N	104°35'28.886"W	2.29	



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Area	COLORADO	Well	INDEPENDENCE D30-743
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	INDEPENDENCE D30-743 AWB
Facility	SEC.19-T03N-R64W		

WELLPATH DATA (179 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
6343.00	13.620	274.140	6161.23	-757.64	837.56	-808.84	40°13'10.314"N	104°35'29.203"W	9.47	
6438.00	12.100	244.240	6253.95	-752.24	834.04	-828.99	40°13'10.282"N	104°35'29.463"W	7.10	
6533.00	14.260	228.540	6346.47	-738.54	821.96	-846.73	40°13'10.164"N	104°35'29.694"W	4.38	
6627.00	19.510	215.640	6436.42	-716.51	801.52	-864.57	40°13'09.964"N	104°35'29.926"W	6.83	
6722.00	27.830	202.050	6523.41	-681.47	767.99	-882.19	40°13'09.634"N	104°35'30.158"W	10.42	
6817.00	36.230	192.020	6603.94	-632.21	719.86	-896.39	40°13'09.160"N	104°35'30.347"W	10.44	
6912.00	45.530	187.170	6675.70	-570.29	658.61	-906.49	40°13'08.556"N	104°35'30.486"W	10.34	
7007.00	53.390	187.880	6737.40	-498.21	587.10	-915.97	40°13'07.850"N	104°35'30.617"W	8.29	
7101.00	60.030	186.730	6788.97	-419.72	509.21	-925.92	40°13'07.082"N	104°35'30.756"W	7.14	
7196.00	70.280	183.220	6828.84	-333.65	423.45	-933.28	40°13'06.235"N	104°35'30.862"W	11.30	
7291.00	80.720	182.450	6852.60	-241.90	331.71	-937.81	40°13'05.329"N	104°35'30.932"W	11.02	
7386.00	89.780	182.490	6860.45	-147.44	237.23	-941.88	40°13'04.396"N	104°35'30.997"W	9.54	
7480.00	89.820	182.800	6860.78	-53.55	143.33	-946.22	40°13'03.468"N	104°35'31.066"W	0.33	
7575.00	89.750	182.540	6861.14	41.34	48.43	-950.65	40°13'02.531"N	104°35'31.135"W	0.28	
7670.00	89.850	182.200	6861.47	136.20	-46.49	-954.57	40°13'01.593"N	104°35'31.198"W	0.37	
7764.00	89.750	181.710	6861.80	230.03	-140.43	-957.78	40°13'00.665"N	104°35'31.252"W	0.53	
7859.00	89.820	181.710	6862.15	324.83	-235.39	-960.62	40°12'59.727"N	104°35'31.301"W	0.07	
7954.00	89.820	182.860	6862.45	419.69	-330.31	-964.40	40°12'58.790"N	104°35'31.363"W	1.21	
8048.00	89.850	183.990	6862.72	513.63	-424.14	-970.02	40°12'57.863"N	104°35'31.447"W	1.20	
8143.00	90.180	184.780	6862.70	608.62	-518.86	-977.28	40°12'56.928"N	104°35'31.554"W	0.90	
8238.00	90.090	184.760	6862.48	703.61	-613.53	-985.18	40°12'55.993"N	104°35'31.668"W	0.10	
8333.00	90.060	184.130	6862.35	798.60	-708.25	-992.54	40°12'55.058"N	104°35'31.775"W	0.66	
8427.00	90.090	183.130	6862.23	892.55	-802.06	-998.50	40°12'54.132"N	104°35'31.864"W	1.06	
8522.00	90.060	181.850	6862.10	987.42	-896.97	-1002.62	40°12'53.194"N	104°35'31.930"W	1.35	
8617.00	90.060	180.050	6862.00	1082.13	-991.95	-1004.20	40°12'52.256"N	104°35'31.963"W	1.89	
8711.00	90.060	177.310	6861.91	1175.48	-1085.91	-1002.03	40°12'51.327"N	104°35'31.947"W	2.91	
8806.00	90.060	176.580	6861.81	1269.44	-1180.78	-996.97	40°12'50.389"N	104°35'31.895"W	0.77	
8901.00	90.150	178.030	6861.63	1363.49	-1275.67	-992.50	40°12'49.451"N	104°35'31.850"W	1.53	
8995.00	90.090	177.700	6861.44	1456.68	-1369.61	-989.00	40°12'48.523"N	104°35'31.817"W	0.36	
9090.00	90.090	176.230	6861.29	1550.65	-1464.47	-983.97	40°12'47.585"N	104°35'31.765"W	1.55	



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9184.00	90.060	177.490	6861.16	1643.60	-1558.33	-978.82	40°12'46.657"N	104°35'31.711"W	1.34	
9279.00	90.150	178.420	6860.99	1737.80	-1653.27	-975.43	40°12'45.718"N	104°35'31.679"W	0.98	
9374.00	90.030	177.570	6860.84	1832.01	-1748.21	-972.11	40°12'44.780"N	104°35'31.649"W	0.90	
9469.00	90.120	177.410	6860.72	1926.10	-1843.11	-967.95	40°12'43.842"N	104°35'31.608"W	0.19	
9563.00	90.120	178.520	6860.52	2019.31	-1937.05	-964.61	40°12'42.913"N	104°35'31.577"W	1.18	
9658.00	90.180	179.440	6860.27	2113.71	-2032.04	-962.92	40°12'41.974"N	104°35'31.568"W	0.97	
9753.00	90.090	179.650	6860.05	2208.21	-2127.03	-962.17	40°12'41.035"N	104°35'31.571"W	0.24	
9847.00	90.120	181.290	6859.87	2301.86	-2221.03	-962.94	40°12'40.107"N	104°35'31.593"W	1.74	
9942.00	89.910	182.170	6859.85	2396.66	-2315.98	-965.80	40°12'39.169"N	104°35'31.643"W	0.95	
10037.00	89.910	180.460	6860.00	2491.42	-2410.95	-967.98	40°12'38.230"N	104°35'31.683"W	1.80	
10131.00	89.750	179.490	6860.28	2584.99	-2504.95	-967.94	40°12'37.302"N	104°35'31.695"W	1.05	
10226.00	89.820	178.730	6860.63	2679.42	-2599.94	-966.47	40°12'36.363"N	104°35'31.689"W	0.80	
10321.00	89.850	177.050	6860.91	2773.60	-2694.87	-962.97	40°12'35.424"N	104°35'31.656"W	1.77	
10416.00	89.940	175.140	6861.08	2867.34	-2789.65	-956.50	40°12'34.487"N	104°35'31.585"W	2.01	
10510.00	89.940	175.050	6861.18	2959.83	-2883.30	-948.46	40°12'33.561"N	104°35'31.494"W	0.10	
10605.00	90.000	174.160	6861.23	3053.14	-2977.88	-939.53	40°12'32.626"N	104°35'31.392"W	0.94	
10700.00	89.940	176.230	6861.28	3146.63	-3072.54	-931.57	40°12'31.689"N	104°35'31.301"W	2.18	
10794.00	89.970	177.500	6861.35	3239.59	-3166.40	-926.43	40°12'30.761"N	104°35'31.248"W	1.35	
10889.00	90.030	179.230	6861.35	3333.87	-3261.36	-923.72	40°12'29.823"N	104°35'31.225"W	1.82	
10984.00	90.000	181.300	6861.33	3428.48	-3356.35	-924.16	40°12'28.884"N	104°35'31.243"W	2.18	
11078.00	90.030	182.600	6861.30	3522.31	-3450.29	-927.36	40°12'27.956"N	104°35'31.297"W	1.38	
11173.00	89.970	182.480	6861.30	3617.19	-3545.20	-931.57	40°12'27.019"N	104°35'31.364"W	0.14	
11267.00	90.000	183.250	6861.33	3711.10	-3639.08	-936.27	40°12'26.092"N	104°35'31.437"W	0.82	
11362.00	90.030	183.180	6861.30	3806.03	-3733.93	-941.60	40°12'25.155"N	104°35'31.518"W	0.08	
11457.00	89.940	185.010	6861.33	3901.00	-3828.69	-948.38	40°12'24.219"N	104°35'31.618"W	1.93	
11551.00	89.970	184.240	6861.40	3994.99	-3922.38	-955.96	40°12'23.294"N	104°35'31.728"W	0.82	
11646.00	90.030	180.360	6861.40	4089.83	-4017.28	-959.77	40°12'22.357"N	104°35'31.790"W	4.08	
11741.00	90.060	178.720	6861.33	4184.33	-4112.28	-959.01	40°12'21.418"N	104°35'31.792"W	1.73	
11836.00	89.910	180.480	6861.35	4278.84	-4207.27	-958.35	40°12'20.479"N	104°35'31.796"W	1.86	
11931.00	90.000	181.670	6861.43	4373.57	-4302.25	-960.13	40°12'19.541"N	104°35'31.832"W	1.26	



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INDEPENDENCE D30-743 AWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Slot	SLOT#39 INDEPENDENCE D30-743(300'FNL&1157'FEL,SEC.19)
Area	COLORADO	Well	INDEPENDENCE D30-743
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	INDEPENDENCE D30-743 AWB
Facility	SEC.19-T03N-R64W		

WELLPATH DATA (179 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12025.00	90.000	184.350	6861.43	4467.48	-4396.12	-965.06	40°12'18.614"N	104°35'31.908"W	2.85	
12120.00	90.000	183.700	6861.43	4562.45	-4490.88	-971.73	40°12'17.678"N	104°35'32.006"W	0.68	
12214.00	90.000	183.590	6861.43	4656.40	-4584.69	-977.71	40°12'16.752"N	104°35'32.096"W	0.12	
12309.00	90.030	182.770	6861.40	4751.33	-4679.54	-982.98	40°12'15.815"N	104°35'32.176"W	0.86	
12404.00	90.030	182.380	6861.35	4846.22	-4774.45	-987.25	40°12'14.878"N	104°35'32.244"W	0.41	
12499.00	90.000	182.390	6861.33	4941.08	-4869.37	-991.20	40°12'13.940"N	104°35'32.307"W	0.03	
12593.00	90.060	182.180	6861.28	5034.94	-4963.29	-994.95	40°12'13.012"N	104°35'32.368"W	0.23	
12688.00	89.970	180.420	6861.25	5129.70	-5058.26	-997.10	40°12'12.074"N	104°35'32.408"W	1.86	
12783.00	89.970	178.930	6861.30	5224.22	-5153.26	-996.56	40°12'11.135"N	104°35'32.414"W	1.57	
12877.00	89.970	178.170	6861.35	5317.55	-5247.23	-994.19	40°12'10.207"N	104°35'32.395"W	0.81	
12972.00	89.940	178.810	6861.43	5411.86	-5342.19	-991.68	40°12'09.268"N	104°35'32.376"W	0.67	
13067.00	89.970	178.720	6861.50	5506.22	-5437.17	-989.63	40°12'08.329"N	104°35'32.362"W	0.10	
13161.00	90.000	178.130	6861.53	5599.52	-5531.14	-987.05	40°12'07.400"N	104°35'32.341"W	0.63	
13256.00	90.030	178.350	6861.50	5693.78	-5626.09	-984.13	40°12'06.462"N	104°35'32.316"W	0.23	
13351.00	89.820	178.790	6861.63	5788.10	-5721.06	-981.76	40°12'05.523"N	104°35'32.298"W	0.51	
13446.00	90.090	177.830	6861.70	5882.37	-5816.02	-978.96	40°12'04.585"N	104°35'32.274"W	1.05	
13540.00	89.480	178.770	6862.05	5975.65	-5909.97	-976.17	40°12'03.656"N	104°35'32.251"W	1.19	
13730.00	89.510	181.660	6863.73	6164.84	-6099.95	-976.89	40°12'01.779"N	104°35'32.285"W	1.52	
13825.00	89.450	182.130	6864.59	6259.66	-6194.89	-980.03	40°12'00.841"N	104°35'32.338"W	0.50	
13920.00	89.450	182.620	6865.50	6354.52	-6289.80	-983.96	40°11'59.903"N	104°35'32.401"W	0.52	
14014.00	89.540	180.960	6866.33	6448.33	-6383.75	-986.90	40°11'58.975"N	104°35'32.451"W	1.77	
14109.00	89.540	180.850	6867.09	6543.03	-6478.74	-988.40	40°11'58.037"N	104°35'32.483"W	0.12	
14204.00	89.510	180.440	6867.88	6637.70	-6573.73	-989.47	40°11'57.098"N	104°35'32.509"W	0.43	
14299.00	89.510	179.720	6868.69	6732.29	-6668.72	-989.60	40°11'56.160"N	104°35'32.524"W	0.76	
14394.00	89.510	178.920	6869.51	6826.75	-6763.71	-988.47	40°11'55.221"N	104°35'32.522"W	0.84	
14489.00	89.570	178.550	6870.27	6921.10	-6858.68	-986.38	40°11'54.282"N	104°35'32.507"W	0.39	
14583.00	89.480	179.590	6871.05	7014.52	-6952.67	-984.85	40°11'53.353"N	104°35'32.500"W	1.11	
14678.00	89.600	179.050	6871.81	7108.99	-7047.66	-983.72	40°11'52.415"N	104°35'32.498"W	0.58	
14772.00	89.510	179.270	6872.54	7202.43	-7141.64	-982.35	40°11'51.486"N	104°35'32.493"W	0.25	
14867.00	89.480	179.720	6873.38	7296.92	-7236.64	-981.51	40°11'50.547"N	104°35'32.494"W	0.47	

HOLE & CASING SECTIONS - Ref Wellbore: INDEPENDENCE D30-743 AWB Ref Wellpath: INDEPENDENCE D30-743 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	1929.00	1899.00	30.00	1928.96	0.02	0.02	2.75	1.45
8.5in Open Hole	1929.00	17885.00	15956.00	1928.96	6875.98	2.75	1.45	-10250.08	-1006.63

TARGETS									
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	
INDEPENDENCE STATE D30-784 Section 19-T03N-R64W	-16.00	-75.43	-2387.15	3252132.80	1323204.38	40°13'01.452"N	104°35'49.668"W	polygon	
INDEPENDENCE STATE D30-784 Section 30-T03N-R64W	-16.00	-75.43	-2387.15	3252132.80	1323204.38	40°13'01.452"N	104°35'49.668"W	polygon	
INDEPENDENCE D30-743 Landing Point	6862.00	220.68	-965.37	3253554.51	1323500.47	40°13'04.234"N	104°35'31.302"W	point	
INDEPENDENCE D30-743 Target 1	6862.00	-5779.33	-968.17	3253551.71	1317500.73	40°12'04.946"N	104°35'32.130"W	point	
INDEPENDENCE D30-743 Target 2	6871.49	-6879.33	-968.69	3253551.19	1316400.78	40°11'54.076"N	104°35'32.282"W	point	
INDEPENDENCE D30-743 BHL FROM PLAT (75'FSL&2185'FEL,SEC.30)	6871.60	-10254.60	-970.30	3253549.58	1313025.66	40°11'20.724"N	104°35'32.748"W	point	
INDEPENDENCE D30-743 rev-2 Target 2	6881.09	-7979.33	-969.21	3253550.67	1315300.83	40°11'43.207"N	104°35'32.434"W	point	
INDEPENDENCE D30-743 BHL REV-2 FROM PLAT (75'FSL&2185'FEL,SEC.30)	6881.20	-10254.60	-970.30	3253549.58	1313025.66	40°11'20.724"N	104°35'32.748"W	point	



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INDEPENDENCE D30-743 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Slot	SLOT#39 INDEPENDENCE D30-743(300'FNL&1157'FEL,SEC.19)
Area	COLORADO	Well	INDEPENDENCE D30-743
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	INDEPENDENCE D30-743 AWB
Facility	SEC.19-T03N-R64W		

WELLPATH COMPOSITION - Ref Wellbore: INDEPENDENCE D30-743 AWB Ref Wellpath: INDEPENDENCE D30-743 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	1924.00	Gyrodata standard - Drop gyro or Multi-shot	3rd Party Gyrodata standard - Drop gyro or Multi-shot	INDEPENDENCE D30-743 AWB
1924.00	17861.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	BH/ATC 8.5" Hole OWSG MWD rev2+IFR1+MSA 2176'-17861'>	INDEPENDENCE D30-743 AWB
17861.00	17885.00	Blind Drilling (std)	Projection to bit	INDEPENDENCE D30-743 AWB



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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Slot	SLOT#39 INDEPENDENCE D30-743(300'FNL&1157'FEL,SEC.19)
Area	COLORADO	Well	INDEPENDENCE D30-743
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	INDEPENDENCE D30-743 AWB
Facility	SEC.19-T03N-R64W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
1924.00	0.660	215.190	1923.96	Tie to 3rd Party Surface
17861.00	90.890	188.240	6876.36	Last BHI MWD Survey
17885.00	90.890	188.240	6875.98	Projection to Bit