



REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Slot	SLOT#03 ELLIE LD26-635 (1283'FSL & 330'FEL, SEC.28)
Area	COLORADO	Well	ELLIE LD26-635
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	ELLIE LD26-635 AWB
Facility	SEC.28-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	0.999990	Report Generated	10/25/2016 at 11:53:52 AM
Convergence at slot	1.06° East	Database/Source file	WA_DEN_Denver_Defn/ELLIE_LD26-635_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	76.50	-1.41	3454436.17	1508754.54	40°43'06.204"N	103°51'37.944"W
Facility Reference Pt			3454437.58	1508678.05	40°43'05.448"N	103°51'37.944"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	4856.00ft
Horizontal Reference Pt	Slot	H&P 517 (30'KB) (RKB) to Mean Sea Level	4856.00ft
Vertical Reference Pt	H&P 517 (30'KB) (RKB)	H&P 517 (30'KB) (RKB) to Mud Line at Slot (SLOT#03 ELLIE LD26-635 (1283'FSL & 330'FEL, SEC.28))	4856.00ft
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	86.53°

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WELLPATH DATA (151 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
1920.00	0.830	222.690	1919.98	-4.88	0.05	-4.89	40°43'06.205"N	103°51'38.008"W	0.15	Tied on to surface gyro
1983.00	0.090	87.370	1982.98	-5.16	-0.28	-5.15	40°43'06.202"N	103°51'38.011"W	1.42	
2078.00	0.030	114.990	2077.98	-5.06	-0.29	-5.05	40°43'06.202"N	103°51'38.010"W	0.07	
2172.00	0.030	57.230	2171.98	-5.02	-0.28	-5.01	40°43'06.202"N	103°51'38.009"W	0.03	
2267.00	0.260	272.170	2266.98	-5.21	-0.26	-5.21	40°43'06.202"N	103°51'38.012"W	0.30	
2361.00	0.180	44.920	2360.98	-5.31	-0.15	-5.32	40°43'06.203"N	103°51'38.013"W	0.43	
2456.00	0.070	43.970	2455.98	-5.16	0.00	-5.17	40°43'06.205"N	103°51'38.011"W	0.12	
2551.00	0.040	294.300	2550.98	-5.15	0.05	-5.16	40°43'06.205"N	103°51'38.011"W	0.10	
2645.00	0.000	96.580	2644.98	-5.18	0.07	-5.19	40°43'06.206"N	103°51'38.011"W	0.04	
2740.00	0.030	100.150	2739.98	-5.15	0.06	-5.17	40°43'06.206"N	103°51'38.011"W	0.03	
2834.00	0.030	188.150	2833.98	-5.13	0.03	-5.14	40°43'06.205"N	103°51'38.011"W	0.04	
2928.00	0.030	71.750	2927.98	-5.11	0.02	-5.12	40°43'06.205"N	103°51'38.011"W	0.05	
3023.00	0.490	287.850	3022.97	-5.47	0.15	-5.49	40°43'06.206"N	103°51'38.015"W	0.54	
3117.00	2.020	355.600	3116.95	-5.87	1.92	-6.00	40°43'06.224"N	103°51'38.021"W	2.01	
3212.00	4.590	2.580	3211.79	-5.50	7.39	-5.95	40°43'06.278"N	103°51'38.020"W	2.73	
3306.00	7.130	9.760	3305.29	-3.76	16.90	-4.80	40°43'06.372"N	103°51'38.002"W	2.81	
3401.00	7.120	14.020	3399.56	-0.64	28.42	-2.37	40°43'06.485"N	103°51'37.968"W	0.56	
3496.00	7.160	18.740	3493.82	3.36	39.74	0.96	40°43'06.596"N	103°51'37.922"W	0.62	
3685.00	6.960	20.500	3681.39	12.47	61.62	8.75	40°43'06.811"N	103°51'37.816"W	0.16	
3779.00	7.360	26.210	3774.66	17.76	72.36	13.41	40°43'06.916"N	103°51'37.753"W	0.87	
3873.00	7.790	31.330	3867.84	24.38	83.20	19.38	40°43'07.022"N	103°51'37.672"W	0.85	
3968.00	7.780	34.610	3961.96	32.02	93.99	26.38	40°43'07.128"N	103°51'37.579"W	0.47	
4062.00	8.280	34.050	4055.04	40.07	104.84	33.78	40°43'07.234"N	103°51'37.480"W	0.54	
4157.00	8.300	32.610	4149.05	48.27	116.28	41.31	40°43'07.345"N	103°51'37.380"W	0.22	
4252.00	8.360	26.580	4243.05	55.77	128.23	48.09	40°43'07.462"N	103°51'37.289"W	0.92	
4346.00	8.290	21.440	4336.06	62.05	140.65	53.63	40°43'07.584"N	103°51'37.214"W	0.79	
4441.00	8.260	11.820	4430.07	66.73	153.71	57.53	40°43'07.712"N	103°51'37.160"W	1.46	
4535.00	8.310	13.040	4523.09	70.44	166.93	60.44	40°43'07.842"N	103°51'37.119"W	0.19	
4630.00	8.220	15.650	4617.10	74.62	180.16	63.83	40°43'07.972"N	103°51'37.072"W	0.41	
4725.00	8.620	17.890	4711.08	79.44	193.48	67.84	40°43'08.103"N	103°51'37.017"W	0.54	

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Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	ELLIE LD26-635 AWP
Facility	SEC.28-T09N-R58W		

WELLPATH DATA (151 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4819.00	8.320	13.740	4804.06	84.02	206.79	71.62	40°43'08.234"N	103°51'36.964"W	0.72	
4914.00	8.340	11.070	4898.05	87.78	220.23	74.58	40°43'08.366"N	103°51'36.923"W	0.41	
5008.00	8.340	10.590	4991.06	91.15	233.62	77.14	40°43'08.498"N	103°51'36.886"W	0.07	
5103.00	8.310	11.030	5085.06	94.54	247.13	79.72	40°43'08.631"N	103°51'36.850"W	0.07	
5198.00	8.200	11.190	5179.08	97.97	260.51	82.35	40°43'08.763"N	103°51'36.812"W	0.12	
5292.00	8.220	17.940	5272.11	102.12	273.48	85.72	40°43'08.890"N	103°51'36.765"W	1.03	
5387.00	10.660	44.430	5365.86	111.13	286.23	93.97	40°43'09.015"N	103°51'36.655"W	5.18	
5481.00	17.230	59.260	5457.07	129.98	299.57	112.04	40°43'09.143"N	103°51'36.417"W	7.90	
5576.00	26.500	69.590	5545.17	162.85	314.19	144.08	40°43'09.282"N	103°51'35.998"W	10.53	
5670.00	35.870	77.030	5625.53	210.19	327.72	190.70	40°43'09.407"N	103°51'35.389"W	10.76	
5765.00	45.550	81.140	5697.47	271.56	339.22	251.48	40°43'09.509"N	103°51'34.597"W	10.57	
5860.00	54.920	82.740	5758.17	344.27	349.37	323.71	40°43'09.596"N	103°51'33.657"W	9.95	
5954.00	65.160	84.450	5805.05	425.49	358.38	404.53	40°43'09.671"N	103°51'32.605"W	11.01	
6048.00	75.980	85.640	5836.28	513.98	366.00	492.72	40°43'09.730"N	103°51'31.458"W	11.57	
6143.00	86.090	86.300	5851.06	607.69	372.58	586.20	40°43'09.778"N	103°51'30.243"W	10.66	
6213.00†	89.620	86.352	5853.68	677.63	377.06	656.00	40°43'09.809"N	103°51'29.336"W	5.04	Crossed 330' Setback
6237.00	90.830	86.370	5853.59	701.63	378.58	679.95	40°43'09.820"N	103°51'29.024"W	5.04	
6332.00	90.800	86.490	5852.24	796.62	384.50	774.76	40°43'09.861"N	103°51'27.792"W	0.13	
6426.00	90.680	86.560	5851.02	890.61	390.19	868.57	40°43'09.900"N	103°51'26.572"W	0.15	
6521.00	90.620	86.960	5849.94	985.60	395.56	963.42	40°43'09.936"N	103°51'25.339"W	0.43	
6615.00	90.650	88.590	5848.90	1079.57	399.21	1057.34	40°43'09.955"N	103°51'24.119"W	1.73	
6710.00	90.740	88.020	5847.75	1174.52	402.02	1152.29	40°43'09.965"N	103°51'22.885"W	0.61	
6804.00	90.770	87.810	5846.51	1268.48	405.44	1246.22	40°43'09.982"N	103°51'21.665"W	0.23	
6899.00	90.800	88.200	5845.21	1363.44	408.75	1341.15	40°43'09.997"N	103°51'20.431"W	0.41	
6993.00	90.830	89.300	5843.87	1457.36	410.80	1435.12	40°43'10.000"N	103°51'19.211"W	1.17	
7088.00	90.830	91.010	5842.50	1552.16	410.54	1530.10	40°43'09.980"N	103°51'17.977"W	1.80	
7183.00	90.580	91.830	5841.33	1646.80	408.19	1625.07	40°43'09.939"N	103°51'16.745"W	0.90	
7277.00	90.710	92.100	5840.27	1740.37	404.97	1719.00	40°43'09.890"N	103°51'15.526"W	0.32	
7372.00	90.710	93.640	5839.09	1834.78	400.21	1813.88	40°43'09.826"N	103°51'14.295"W	1.62	
7466.00	90.650	91.280	5837.98	1928.27	396.18	1907.78	40°43'09.769"N	103°51'13.077"W	2.51	

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Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	ELLIE LD26-635 AWB
Facility	SEC.28-T09N-R58W		

WELLPATH DATA (151 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7561.00	90.740	88.700	5836.82	2023.08	396.19	2002.76	40°43'09.751"N	103°51'11.844"W	2.72	
7655.00	90.680	91.360	5835.66	2116.89	396.14	2096.74	40°43'09.734"N	103°51'10.623"W	2.83	
7750.00	90.710	90.470	5834.51	2211.60	394.63	2191.72	40°43'09.701"N	103°51'09.390"W	0.94	
7844.00	90.740	87.610	5833.32	2305.49	396.20	2285.69	40°43'09.700"N	103°51'08.170"W	3.04	
7939.00	90.620	87.200	5832.19	2400.47	400.50	2380.59	40°43'09.725"N	103°51'06.937"W	0.45	
8033.00	90.680	86.710	5831.12	2494.47	405.49	2474.45	40°43'09.757"N	103°51'05.717"W	0.53	
8128.00	90.620	86.450	5830.05	2589.46	411.16	2569.28	40°43'09.795"N	103°51'04.484"W	0.28	
8222.00	90.710	86.300	5828.95	2683.45	417.10	2663.08	40°43'09.837"N	103°51'03.264"W	0.19	
8317.00	90.650	86.640	5827.83	2778.45	422.95	2757.89	40°43'09.877"N	103°51'02.032"W	0.36	
8412.00	90.650	86.910	5826.75	2873.44	428.30	2852.74	40°43'09.913"N	103°51'00.799"W	0.28	
8506.00	90.680	87.570	5825.66	2967.42	432.82	2946.62	40°43'09.940"N	103°50'59.579"W	0.70	
8601.00	90.770	88.400	5824.46	3062.39	436.16	3041.55	40°43'09.956"N	103°50'58.346"W	0.88	
8695.00	90.650	87.560	5823.29	3156.35	439.48	3135.49	40°43'09.971"N	103°50'57.125"W	0.90	
8790.00	90.680	87.970	5822.19	3251.32	443.18	3230.41	40°43'09.990"N	103°50'55.892"W	0.43	
8885.00	90.620	88.120	5821.11	3346.28	446.42	3325.35	40°43'10.005"N	103°50'54.658"W	0.17	
8979.00	90.740	90.260	5820.00	3440.17	447.75	3419.33	40°43'10.001"N	103°50'53.437"W	2.28	
9074.00	90.680	92.340	5818.82	3534.82	445.59	3514.29	40°43'09.962"N	103°50'52.205"W	2.19	
9169.00	90.680	91.450	5817.69	3629.40	442.45	3609.23	40°43'09.913"N	103°50'50.973"W	0.94	
9263.00	90.710	90.490	5816.55	3723.11	440.86	3703.21	40°43'09.880"N	103°50'49.753"W	1.02	
9358.00	90.740	89.360	5815.35	3817.93	440.99	3798.20	40°43'09.864"N	103°50'48.520"W	1.19	
9452.00	90.800	88.700	5814.09	3911.83	442.58	3892.18	40°43'09.862"N	103°50'47.299"W	0.70	
9547.00	90.830	89.190	5812.73	4006.74	444.33	3987.15	40°43'09.862"N	103°50'46.065"W	0.52	
9642.00	90.860	89.610	5811.33	4101.61	445.32	4082.13	40°43'09.854"N	103°50'44.832"W	0.44	
9736.00	90.860	90.680	5809.92	4195.41	445.08	4176.12	40°43'09.835"N	103°50'43.611"W	1.14	
9831.00	90.650	90.060	5808.67	4290.19	444.47	4271.11	40°43'09.811"N	103°50'42.378"W	0.69	
9926.00	90.620	85.890	5807.62	4385.13	447.83	4366.03	40°43'09.827"N	103°50'41.145"W	4.39	
10020.00	90.680	85.340	5806.55	4479.11	455.01	4459.74	40°43'09.881"N	103°50'39.926"W	0.59	
10115.00	90.770	84.600	5805.35	4574.07	463.34	4554.37	40°43'09.945"N	103°50'38.695"W	0.78	
10209.00	90.680	86.470	5804.16	4668.04	470.66	4648.07	40°43'10.000"N	103°50'37.477"W	1.99	
10304.00	90.740	88.460	5802.98	4763.02	474.86	4742.97	40°43'10.024"N	103°50'36.244"W	2.10	

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10398.00	90.680	88.440	5801.82	4856.96	477.40	4836.93	40°43'10.032"N	103°50'35.023"W	0.07	
10493.00	90.650	89.010	5800.71	4951.88	479.52	4931.90	40°43'10.035"N	103°50'33.789"W	0.60	
10587.00	90.680	89.490	5799.62	5045.77	480.75	5025.88	40°43'10.030"N	103°50'32.569"W	0.51	
10682.00	90.680	88.750	5798.50	5140.67	482.21	5120.86	40°43'10.027"N	103°50'31.335"W	0.78	
10776.00	90.710	88.040	5797.36	5234.61	484.84	5214.82	40°43'10.036"N	103°50'30.115"W	0.76	
10872.00	90.710	88.350	5796.17	5330.56	487.86	5310.76	40°43'10.048"N	103°50'28.868"W	0.32	
10965.00	90.680	87.380	5795.04	5423.53	491.33	5403.69	40°43'10.065"N	103°50'27.661"W	1.04	
11060.00	90.710	87.610	5793.89	5518.51	495.48	5498.59	40°43'10.088"N	103°50'26.427"W	0.24	
11154.00	90.770	87.610	5792.67	5612.48	499.40	5592.50	40°43'10.110"N	103°50'25.207"W	0.06	
11249.00	90.740	88.100	5791.42	5707.45	502.95	5687.43	40°43'10.127"N	103°50'23.973"W	0.52	
11343.00	90.680	88.570	5790.26	5801.39	505.68	5781.38	40°43'10.137"N	103°50'22.753"W	0.50	
11438.00	90.710	88.830	5789.10	5896.32	507.84	5876.35	40°43'10.141"N	103°50'21.519"W	0.28	
11533.00	90.650	89.140	5787.98	5991.22	509.52	5971.33	40°43'10.140"N	103°50'20.286"W	0.33	
11627.00	90.710	89.490	5786.86	6085.11	510.65	6065.31	40°43'10.133"N	103°50'19.065"W	0.38	
11722.00	90.650	88.970	5785.73	6179.99	511.92	6160.30	40°43'10.128"N	103°50'17.831"W	0.55	
11816.00	90.580	88.950	5784.72	6273.90	513.63	6254.28	40°43'10.128"N	103°50'16.610"W	0.08	
11911.00	90.550	88.450	5783.79	6368.83	515.78	6349.25	40°43'10.132"N	103°50'15.377"W	0.53	
12006.00	90.620	88.130	5782.82	6463.78	518.62	6444.20	40°43'10.142"N	103°50'14.143"W	0.34	
12100.00	90.710	89.060	5781.73	6557.71	520.92	6538.17	40°43'10.147"N	103°50'12.923"W	0.99	
12195.00	90.580	89.840	5780.66	6652.58	521.83	6633.15	40°43'10.139"N	103°50'11.689"W	0.83	
12289.00	90.550	89.590	5779.73	6746.43	522.30	6727.15	40°43'10.126"N	103°50'10.468"W	0.27	
12384.00	90.580	89.360	5778.79	6841.30	523.17	6822.14	40°43'10.117"N	103°50'09.235"W	0.24	
12479.00	90.400	88.910	5777.98	6936.20	524.61	6917.13	40°43'10.114"N	103°50'08.001"W	0.51	
12573.00	90.520	87.640	5777.23	7030.15	527.44	7011.08	40°43'10.124"N	103°50'06.780"W	1.36	
12668.00	90.680	86.270	5776.23	7125.14	532.48	7105.94	40°43'10.156"N	103°50'05.547"W	1.45	
12762.00	90.680	86.380	5775.11	7219.13	538.51	7199.74	40°43'10.198"N	103°50'04.328"W	0.12	
12857.00	90.680	85.700	5773.99	7314.12	545.07	7294.50	40°43'10.246"N	103°50'03.096"W	0.72	
12952.00	90.680	86.350	5772.86	7409.11	551.65	7389.27	40°43'10.293"N	103°50'01.864"W	0.68	
13046.00	90.680	87.250	5771.74	7503.10	556.90	7483.11	40°43'10.328"N	103°50'00.644"W	0.96	
13140.00	90.650	86.810	5770.65	7597.09	561.77	7576.98	40°43'10.358"N	103°49'59.424"W	0.47	

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Slot	SLOT#03 ELLIE LD26-635 (1283'FSL & 330'FEL, SEC.28)
Area	COLORADO	Well	ELLIE LD26-635
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	ELLIE LD26-635 AWP
Facility	SEC.28-T09N-R58W		

WELLPATH DATA (151 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13235.00	90.860	87.360	5769.40	7692.08	566.60	7671.85	40°43'10.388"N	103°49'58.191"W	0.62	
13330.00	90.770	87.660	5768.05	7787.06	570.73	7766.75	40°43'10.411"N	103°49'56.958"W	0.33	
13424.00	90.770	84.350	5766.79	7881.03	577.27	7860.50	40°43'10.459"N	103°49'55.739"W	3.52	
13519.00	90.740	85.850	5765.53	7975.99	585.39	7955.14	40°43'10.521"N	103°49'54.508"W	1.58	
13613.00	90.890	87.620	5764.20	8069.98	590.74	8048.97	40°43'10.557"N	103°49'53.288"W	1.89	
13708.00	90.860	90.710	5762.75	8164.85	592.12	8143.94	40°43'10.553"N	103°49'52.055"W	3.25	
13803.00	90.920	93.080	5761.27	8259.42	588.98	8238.87	40°43'10.504"N	103°49'50.823"W	2.50	
13897.00	90.890	91.930	5759.79	8352.89	584.88	8332.77	40°43'10.446"N	103°49'49.605"W	1.22	
13992.00	90.710	90.190	5758.46	8447.58	583.12	8427.74	40°43'10.411"N	103°49'48.372"W	1.84	
14086.00	90.890	89.090	5757.15	8541.43	583.71	8521.73	40°43'10.399"N	103°49'47.151"W	1.19	
14181.00	90.830	88.260	5755.72	8636.36	585.91	8616.69	40°43'10.403"N	103°49'45.918"W	0.88	
14275.00	90.740	88.650	5754.43	8730.29	588.44	8710.65	40°43'10.411"N	103°49'44.697"W	0.43	
14370.00	90.710	87.580	5753.23	8825.25	591.56	8805.59	40°43'10.424"N	103°49'43.464"W	1.13	
14464.00	90.650	87.800	5752.12	8919.22	595.35	8899.50	40°43'10.444"N	103°49'42.243"W	0.24	
14559.00	90.550	88.760	5751.12	9014.17	598.20	8994.45	40°43'10.455"N	103°49'41.010"W	1.02	
14653.00	90.680	89.530	5750.11	9108.07	599.61	9088.44	40°43'10.451"N	103°49'39.789"W	0.83	
14748.00	90.770	89.880	5748.91	9202.91	600.10	9183.43	40°43'10.438"N	103°49'38.555"W	0.38	
14843.00	90.830	90.200	5747.58	9297.73	600.03	9278.42	40°43'10.420"N	103°49'37.322"W	0.34	
14937.00	90.580	91.450	5746.43	9391.45	598.68	9372.40	40°43'10.389"N	103°49'36.102"W	1.36	
15032.00	90.770	90.440	5745.31	9486.16	597.11	9467.38	40°43'10.356"N	103°49'34.869"W	1.08	
15126.00	90.580	88.430	5744.20	9580.03	598.04	9561.36	40°43'10.347"N	103°49'33.648"W	2.15	
15221.00	90.770	86.930	5743.08	9675.00	601.88	9656.28	40°43'10.367"N	103°49'32.415"W	1.59	
15410.00	90.800	85.790	5740.49	9863.98	613.88	9844.87	40°43'10.451"N	103°49'29.963"W	0.60	
15504.00	90.680	86.520	5739.28	9957.97	620.18	9938.65	40°43'10.496"N	103°49'28.744"W	0.79	
15599.00	90.680	87.330	5738.15	10052.96	625.28	10033.51	40°43'10.528"N	103°49'27.511"W	0.85	
15694.00	90.650	89.030	5737.05	10147.91	628.29	10128.45	40°43'10.540"N	103°49'26.278"W	1.79	
15788.00	90.550	90.230	5736.06	10241.77	628.90	10222.44	40°43'10.529"N	103°49'25.057"W	1.28	
15883.00	90.680	89.310	5735.04	10336.61	629.28	10317.44	40°43'10.515"N	103°49'23.823"W	0.98	
15977.00	90.710	88.310	5733.90	10430.53	631.23	10411.41	40°43'10.516"N	103°49'22.603"W	1.06	
16046.00	90.650	87.970	5733.08	10499.49	633.47	10480.37	40°43'10.526"N	103°49'21.707"W	0.50	Last BHI MWD Survey

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Slot	SLOT#03 ELLIE LD26-635 (1283'FSL & 330'FEL, SEC.28)
Area	COLORADO	Well	ELLIE LD26-635
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	ELLIE LD26-635 AWB
Facility	SEC.28-T09N-R58W		

WELLPATH DATA (151 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
16070.00	90.650	87.970	5732.81	10523.48	634.32	10504.35	40°43'10.530"N	103°49'21.395"W	0.00	Projection to Bit

HOLE & CASING SECTIONS - Ref Wellbore: ELLIE LD26-635 AWB Ref Wellpath: ELLIE LD26-635 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	1926.98	0.00	-0.01	-0.02	-4.96
9.625in Casing Surface	30.00	1927.00	1897.00	30.00	1926.98	0.00	-0.01	-0.02	-4.96
8.5in Open Hole	1927.00	16070.00	14143.00	1926.98	5732.81	-0.02	-4.96	634.32	10504.35
5.5in Casing Production	30.00	16070.00	16040.00	30.00	5732.81	0.00	-0.01	634.32	10504.35

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Slot	SLOT#03 ELLIE LD26-635 (1283'FSL & 330'FEL, SEC.28)
Area	COLORADO	Well	ELLIE LD26-635
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	ELLIE LD26-635 AWB
Facility	SEC.28-T09N-R58W		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.26-T09N-R58W	0.00	0.00	0.00	3454436.16	1508754.54	40°43'06.204"N	103°51'37.944"W	polygon
SEC.26-T09N-R58W NE CORNER	0.00	4336.79	10736.40	3465172.44	1513091.28	40°43'47.064"N	103°49'17.472"W	point
SEC.26-T09N-R58W SE CORNER	0.00	-1006.18	10881.91	3465317.95	1507748.38	40°42'54.252"N	103°49'16.896"W	point
SEC.27-T09N-R58W	0.00	0.00	0.00	3454436.16	1508754.54	40°43'06.204"N	103°51'37.944"W	polygon
SEC.27-T09N-R58W NE CORNER	0.00	4172.27	5480.85	3459916.95	1512926.76	40°43'46.416"N	103°50'25.764"W	point
SEC.27-T09N-R58W NW CORNER	0.00	4034.52	233.10	3454669.26	1512789.02	40°43'46.020"N	103°51'33.948"W	point
SEC.27-T09N-R58W SE CORNER	0.00	-1130.66	5624.47	3460060.57	1507623.90	40°42'54.000"N	103°50'25.188"W	point
SEC.27-T09N-R58W SW CORNER	0.00	-1272.28	364.56	3454800.72	1507482.28	40°42'53.568"N	103°51'33.516"W	point
ELLIE LD26-635 BHL ON PLAT REV-1 (1650'FSL & 330'FEL, SEC.26)	5736.32	637.45	10507.00	3464943.04	1509391.98	40°43'10.560"N	103°49'21.360"W	point
ELLIE LD26-635 LANDING POINT REV-1 (1650'FSL & 330'FWL, SEC.27)	5856.68	367.00	660.00	3455096.16	1509121.54	40°43'09.709"N	103°51'29.286"W	point
SEC.27/26-T09N-R58W HARDLINES (330' SETBACKS)	5865.00	0.00	0.00	3454436.16	1508754.54	40°43'06.204"N	103°51'37.944"W	polygon

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Slot	SLOT#03 ELLIE LD26-635 (1283'FSL & 330'FEL, SEC.28)
Area	COLORADO	Well	ELLIE LD26-635
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	ELLIE LD26-635 AWB
Facility	SEC.28-T09N-R58W		

WELLPATH COMPOSITION - Ref Wellbore: ELLIE LD26-635 AWB Ref Wellpath: ELLIE LD26-635 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	1920.00	BHI Generic gyro - northseeking (Standard)	13.5 Surface Gyro <81'-1920'>	ELLIE LD26-635 AWB
1920.00	16046.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	BHI/Navitrak MWD OWSG REV2+IFR1+MSA <1983'-16046'>	ELLIE LD26-635 AWB
16046.00	16070.00	Blind Drilling (std)	Projection to bit	ELLIE LD26-635 AWB

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Slot	SLOT#03 ELLIE LD26-635 (1283'FSL & 330'FEL, SEC.28)
Area	COLORADO	Well	ELLIE LD26-635
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	ELLIE LD26-635 AWB
Facility	SEC.28-T09N-R58W		

WELLPATH COMMENTS					
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment	
1920.00	0.830	222.690	1919.98	Tied on to surface gyro	
6213.00	89.620	86.352	5853.68	Crossed 330' Setback	
16046.00	90.650	87.970	5733.08	Last BHI MWD Survey	
16070.00	90.650	87.970	5732.81	Projection to Bit	