

Scale 1 inch = 2000

Easting (ft)

-3000 -2000 -1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 11000 12000 13000 14000 15000

Northing (ft)

4000
3000
2000
1000
0
-1000
-2000

SLOT#02 ELLIE LD26-625
(1245'FSL & 330'FEL, SEC.28)

Tie to Surface Gyros : 1920.96ft TVD, 6.34ft S, 2.32ft E
9.625in Casing Surface : 1930.96ft TVD, 6.43ft S, 2.28ft E

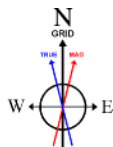
Crossed 330' Setback : 5763.40ft TVD, 260.64ft S, 679.15ft E

5.5in Casing Production : 5679.58ft TVD, 27.99ft N, 10522.92ft E
Last BHI MWD Survey : 5679.81ft TVD, 26.67ft N, 10498.95ft E

Projection to Bit : 5679.58ft TVD, 27.99ft N, 10522.92ft E

Scale 1 inch = 1500

Tie to Surface Gyros : 0.56° Inc, 1921.00ft MD, 1920.96ft TVD, 2.31ft VS
9.625in Casing Surface : 0.53° Inc, 1931.00ft MD, 1930.96ft TVD, 2.27ft VS



BGGM (1900.0 to 2018.0) Dip: 67.31° Field: 52784.3 nT
Magnetic North is 7.93 degrees East of True North (at 9/6/2016)
Grid North is 1.06 degrees East of True North
To correct azimuth from True to Grid subtract 1.06 degrees
To correct azimuth from Magnetic to Grid add 6.87 degrees

Crossed 330' Setback : 88.74° Inc, 6127.00ft MD, 5763.40ft TVD, 678.79ft VS

5.5in Casing Production : 90.55° Inc, 15980.00ft MD, 5679.58ft TVD, 10522.94ft VS
Last BHI MWD Survey : 90.55° Inc, 15956.00ft MD, 5679.81ft TVD, 10498.98ft VS
Projection to Bit : 90.55° Inc, 15980.00ft MD, 5679.58ft TVD, 10522.94ft VS



NOBLE ENERGY, INC

Location: COLORADO Slot: SLOT#02 ELLIE LD26-625 (1245'FSL & 330'FEL, SEC.28)
Field: WELD COUNTY (NOBLE NAD 83 GRID) Well: ELLIE LD26-625
Facility: SEC.28-T09N-R58W Wellbore: ELLIE LD26-625 PWB

Plot reference wellpath is ELLIE LD26-625 (REV-8.0) PWP	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: 4856 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#02 ELLIE LD26-625 (1245'FSL & 330'FEL, SEC.28)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: ingmjmr on 2016-10-25
	Database: WA_DEN_Denver_Defn

True Vertical Depth (ft)

2250
3000
3750
4500
5250
6000
6750

Vertical Section (ft)

Azimuth 89.92° with reference 0.00 N, 0.00 E

Scale 1 inch = 1500

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Slot	SLOT#02 ELLIE LD26-625 (1245'FSL & 330'FEL, SEC.28)
Area	COLORADO	Well	ELLIE LD26-625
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	ELLIE LD26-625 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 11:18:02 AM
Convergence at slot	1.06° East	Database/Source file	WA_DEN_Denver_Defn/ELLIE_LD26-625_AWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	40.07	-0.74	3454436.84	1508718.12	40°43'05.844"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#02 ELLIE LD26-625 (1245'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	89.92°

Actual Wellpath Report

ELLIE LD26-625 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Slot	SLOT#02 ELLIE LD26-625 (1245'FSL & 330'FEL, SEC.28)
Area	COLORADO	Well	ELLIE LD26-625
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	ELLIE LD26-625 AWB
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
1921.00†	0.565	207.080	1920.96	2.31	-6.34	2.32	40°43'05.781"N	103°51'37.915"W	0.10	Tie to Surface Gyros
1927.00	0.570	206.810	1926.96	2.29	-6.39	2.29	40°43'05.780"N	103°51'37.916"W	0.10	
1984.00	0.070	154.380	1983.95	2.17	-6.68	2.18	40°43'05.778"N	103°51'37.917"W	0.93	
2079.00	0.200	131.360	2078.95	2.32	-6.84	2.33	40°43'05.776"N	103°51'37.915"W	0.15	
2173.00	0.110	17.490	2172.95	2.47	-6.86	2.48	40°43'05.776"N	103°51'37.913"W	0.28	
2268.00	0.640	177.000	2267.95	2.53	-7.31	2.54	40°43'05.771"N	103°51'37.913"W	0.78	
2362.00	0.190	295.210	2361.95	2.41	-7.76	2.42	40°43'05.767"N	103°51'37.914"W	0.80	
2457.00	0.170	57.850	2456.95	2.39	-7.62	2.40	40°43'05.768"N	103°51'37.915"W	0.33	
2552.00	0.150	108.540	2551.95	2.63	-7.59	2.64	40°43'05.769"N	103°51'37.912"W	0.15	
2646.00	0.170	164.600	2645.95	2.78	-7.76	2.79	40°43'05.767"N	103°51'37.910"W	0.16	
2741.00	0.200	205.670	2740.95	2.75	-8.05	2.76	40°43'05.764"N	103°51'37.910"W	0.14	
2835.00	0.180	276.740	2834.95	2.53	-8.18	2.54	40°43'05.763"N	103°51'37.913"W	0.24	
2930.00	0.170	343.110	2929.95	2.34	-8.02	2.35	40°43'05.764"N	103°51'37.915"W	0.20	
3024.00	0.230	273.330	3023.95	2.11	-7.88	2.12	40°43'05.766"N	103°51'37.918"W	0.25	
3118.00	0.210	352.040	3117.95	1.90	-7.70	1.91	40°43'05.768"N	103°51'37.921"W	0.30	
3213.00	0.150	336.250	3212.95	1.82	-7.41	1.83	40°43'05.770"N	103°51'37.922"W	0.08	
3308.00	0.180	163.820	3307.95	1.82	-7.44	1.83	40°43'05.770"N	103°51'37.922"W	0.35	
3402.00	0.180	134.310	3401.95	1.96	-7.69	1.97	40°43'05.768"N	103°51'37.920"W	0.10	
3497.00	1.140	142.570	3496.94	2.64	-8.54	2.65	40°43'05.759"N	103°51'37.912"W	1.01	
3591.00	3.620	147.200	3590.85	4.81	-11.78	4.83	40°43'05.727"N	103°51'37.884"W	2.64	
3686.00	6.230	149.600	3685.49	9.04	-18.75	9.06	40°43'05.657"N	103°51'37.831"W	2.76	
3780.00	7.300	152.370	3778.84	14.38	-28.44	14.41	40°43'05.560"N	103°51'37.764"W	1.19	
3874.00	7.030	167.780	3872.11	18.35	-39.35	18.40	40°43'05.452"N	103°51'37.715"W	2.06	
3969.00	7.370	172.190	3966.36	20.39	-51.07	20.46	40°43'05.336"N	103°51'37.691"W	0.68	
4063.00	7.200	170.190	4059.60	22.20	-62.85	22.28	40°43'05.219"N	103°51'37.670"W	0.32	
4158.00	7.320	167.820	4153.84	24.47	-74.63	24.57	40°43'05.102"N	103°51'37.643"W	0.34	
4253.00	7.630	160.560	4248.04	27.83	-86.49	27.95	40°43'04.984"N	103°51'37.602"W	1.05	
4347.00	7.800	158.940	4341.19	32.18	-98.33	32.32	40°43'04.867"N	103°51'37.548"W	0.29	
4442.00	7.680	161.330	4435.32	36.51	-110.36	36.67	40°43'04.747"N	103°51'37.494"W	0.36	
4537.00	7.770	165.560	4529.46	40.13	-122.59	40.30	40°43'04.625"N	103°51'37.450"W	0.61	

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Slot	SLOT#02 ELLIE LD26-625 (1245'FSL & 330'FEL, SEC.28)
Area	COLORADO	Well	ELLIE LD26-625
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	ELLIE LD26-625 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
4631.00	7.530	163.240	4622.62	43.48	-134.64	43.66	40°43'04.506"N	103°51'37.409"W	0.42	
4726.00	7.790	153.480	4716.78	48.13	-146.36	48.33	40°43'04.389"N	103°51'37.352"W	1.39	
4820.00	7.990	152.710	4809.89	53.95	-157.87	54.17	40°43'04.274"N	103°51'37.279"W	0.24	
4915.00	7.970	158.950	4903.97	59.33	-169.89	59.57	40°43'04.155"N	103°51'37.211"W	0.91	
5009.00	8.060	160.830	4997.05	63.82	-182.19	64.07	40°43'04.032"N	103°51'37.156"W	0.29	
5104.00	7.820	153.820	5091.14	68.84	-194.28	69.11	40°43'03.912"N	103°51'37.093"W	1.05	
5199.00	7.930	145.520	5185.25	75.38	-205.48	75.67	40°43'03.800"N	103°51'37.011"W	1.20	
5293.00	11.160	117.200	5277.99	87.14	-215.00	87.44	40°43'03.704"N	103°51'36.860"W	5.96	
5388.00	19.260	103.170	5369.61	110.61	-222.78	110.92	40°43'03.623"N	103°51'36.557"W	9.31	
5483.00	28.250	99.510	5456.48	148.11	-230.08	148.43	40°43'03.544"N	103°51'36.072"W	9.59	
5577.00	38.030	96.520	5535.10	198.93	-237.06	199.26	40°43'03.466"N	103°51'35.414"W	10.55	
5672.00	47.720	94.440	5604.64	263.19	-243.12	263.53	40°43'03.394"N	103°51'34.581"W	10.31	
5766.00	57.060	93.930	5661.94	337.37	-248.53	337.72	40°43'03.327"N	103°51'33.619"W	9.95	
5861.00	65.900	93.570	5707.26	420.58	-253.97	420.93	40°43'03.258"N	103°51'32.539"W	9.31	
5955.00	75.350	92.150	5738.41	509.03	-258.36	509.39	40°43'03.198"N	103°51'31.392"W	10.15	
6050.00	81.910	90.280	5757.13	602.09	-260.32	602.45	40°43'03.162"N	103°51'30.184"W	7.17	
6127.00†	88.742	90.198	5763.40	678.79	-260.64	679.15	40°43'03.145"N	103°51'29.188"W	8.87	Crossed 330' Setback
6144.00	90.250	90.180	5763.55	695.79	-260.69	696.15	40°43'03.141"N	103°51'28.968"W	8.87	
6239.00	90.430	89.250	5762.98	790.78	-260.22	791.15	40°43'03.129"N	103°51'27.734"W	1.00	
6333.00	90.340	88.460	5762.35	884.77	-258.34	885.13	40°43'03.130"N	103°51'26.513"W	0.85	
6427.00	90.400	87.670	5761.75	978.71	-255.17	979.07	40°43'03.144"N	103°51'25.293"W	0.84	
6522.00	90.460	86.820	5761.03	1073.61	-250.60	1073.96	40°43'03.172"N	103°51'24.060"W	0.90	
6617.00	90.620	86.510	5760.14	1168.45	-245.08	1168.79	40°43'03.209"N	103°51'22.827"W	0.37	
6711.00	90.430	86.960	5759.28	1262.30	-239.72	1262.63	40°43'03.245"N	103°51'21.607"W	0.52	
6806.00	90.620	86.480	5758.41	1357.15	-234.29	1357.47	40°43'03.281"N	103°51'20.374"W	0.54	
6900.00	90.650	86.790	5757.36	1450.99	-228.77	1451.31	40°43'03.318"N	103°51'19.155"W	0.33	
6995.00	90.520	86.420	5756.39	1545.82	-223.14	1546.13	40°43'03.357"N	103°51'17.922"W	0.41	
7089.00	90.490	86.790	5755.56	1639.66	-217.58	1639.97	40°43'03.394"N	103°51'16.702"W	0.39	
7184.00	90.520	88.600	5754.73	1734.58	-213.76	1734.88	40°43'03.415"N	103°51'15.469"W	1.91	
7278.00	90.490	88.450	5753.90	1828.55	-211.34	1828.85	40°43'03.421"N	103°51'14.248"W	0.16	

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Slot	SLOT#02 ELLIE LD26-625 (1245'FSL & 330'FEL, SEC.28)
Area	COLORADO	Well	ELLIE LD26-625
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	ELLIE LD26-625 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
7373.00	90.580	88.550	5753.01	1923.52	-208.85	1923.81	40°43'03.429"N	103°51'13.015"W	0.14	
7467.00	90.490	88.420	5752.13	2017.48	-206.37	2017.77	40°43'03.436"N	103°51'11.794"W	0.17	
7562.00	90.520	87.780	5751.30	2112.43	-203.22	2112.72	40°43'03.450"N	103°51'10.560"W	0.67	
7656.00	90.550	86.790	5750.42	2206.33	-198.76	2206.61	40°43'03.476"N	103°51'09.340"W	1.05	
7751.00	90.460	85.670	5749.58	2301.12	-192.52	2301.39	40°43'03.521"N	103°51'08.108"W	1.18	
7845.00	90.490	84.610	5748.80	2394.79	-184.55	2395.05	40°43'03.582"N	103°51'06.890"W	1.13	
7940.00	90.460	87.410	5748.01	2489.56	-177.94	2489.81	40°43'03.630"N	103°51'05.658"W	2.95	
8035.00	90.680	90.400	5747.07	2584.53	-176.13	2584.78	40°43'03.630"N	103°51'04.425"W	3.16	
8129.00	90.550	88.600	5746.06	2678.52	-175.31	2678.76	40°43'03.621"N	103°51'03.204"W	1.92	
8224.00	90.580	89.260	5745.12	2773.50	-173.54	2773.74	40°43'03.621"N	103°51'01.970"W	0.70	
8318.00	90.550	86.110	5744.20	2867.41	-169.74	2867.65	40°43'03.642"N	103°51'00.750"W	3.35	
8413.00	90.400	86.510	5743.41	2962.22	-163.63	2962.45	40°43'03.685"N	103°50'59.518"W	0.45	
8507.00	90.340	88.780	5742.80	3056.14	-159.76	3056.36	40°43'03.705"N	103°50'58.297"W	2.42	
8602.00	90.400	91.330	5742.19	3151.12	-159.85	3151.35	40°43'03.687"N	103°50'57.064"W	2.68	
8697.00	90.280	92.590	5741.62	3246.06	-163.10	3246.29	40°43'03.638"N	103°50'55.832"W	1.33	
8791.00	90.400	93.190	5741.07	3339.93	-167.84	3340.17	40°43'03.573"N	103°50'54.614"W	0.65	
8886.00	90.370	93.170	5740.43	3434.78	-173.11	3435.02	40°43'03.504"N	103°50'53.384"W	0.04	
8981.00	90.550	93.210	5739.67	3529.62	-178.40	3529.87	40°43'03.434"N	103°50'52.154"W	0.19	
9075.00	90.370	89.190	5738.91	3623.57	-180.37	3623.83	40°43'03.397"N	103°50'50.934"W	4.28	
9170.00	90.370	86.510	5738.30	3718.50	-176.80	3718.75	40°43'03.415"N	103°50'49.701"W	2.82	
9264.00	90.430	87.860	5737.64	3812.39	-172.19	3812.63	40°43'03.444"N	103°50'48.481"W	1.44	
9359.00	90.520	88.400	5736.85	3907.34	-169.09	3907.58	40°43'03.457"N	103°50'47.247"W	0.58	
9454.00	90.490	87.030	5736.02	4002.26	-165.30	4002.50	40°43'03.477"N	103°50'46.014"W	1.44	
9548.00	90.650	87.460	5735.08	4096.16	-160.78	4096.38	40°43'03.504"N	103°50'44.794"W	0.49	
9643.00	90.620	88.780	5734.03	4191.10	-157.67	4191.32	40°43'03.517"N	103°50'43.560"W	1.39	
9738.00	90.650	90.240	5732.97	4286.09	-156.85	4286.31	40°43'03.508"N	103°50'42.327"W	1.54	
9832.00	90.580	90.400	5731.97	4380.08	-157.38	4380.31	40°43'03.485"N	103°50'41.106"W	0.19	
9927.00	90.550	89.410	5731.03	4475.08	-157.22	4475.30	40°43'03.469"N	103°50'39.873"W	1.04	
10021.00	90.710	91.230	5730.00	4569.06	-157.75	4569.29	40°43'03.447"N	103°50'38.652"W	1.94	
10116.00	90.580	88.940	5728.93	4664.05	-157.89	4664.28	40°43'03.428"N	103°50'37.419"W	2.41	

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Slot	SLOT#02 ELLIE LD26-625 (1245'FSL & 330'FEL, SEC.28)
Area	COLORADO	Well	ELLIE LD26-625
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	ELLIE LD26-625 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
10210.00	90.490	86.670	5728.05	4757.98	-154.29	4758.20	40°43'03.446"N	103°50'36.199"W	2.42	
10305.00	90.550	87.700	5727.19	4852.86	-149.62	4853.08	40°43'03.475"N	103°50'34.966"W	1.09	
10399.00	90.580	90.280	5726.26	4946.84	-147.96	4947.05	40°43'03.474"N	103°50'33.745"W	2.74	
10494.00	90.520	88.510	5725.35	5041.83	-146.96	5042.04	40°43'03.466"N	103°50'32.512"W	1.86	
10588.00	90.250	88.080	5724.72	5135.79	-144.16	5135.99	40°43'03.476"N	103°50'31.291"W	0.54	
10683.00	90.280	87.310	5724.28	5230.71	-140.34	5230.91	40°43'03.496"N	103°50'30.057"W	0.81	
10777.00	90.180	85.200	5723.90	5324.51	-134.20	5324.71	40°43'03.540"N	103°50'28.838"W	2.25	
10872.00	90.520	85.500	5723.32	5419.21	-126.50	5419.39	40°43'03.598"N	103°50'27.607"W	0.48	
10967.00	90.550	88.590	5722.43	5514.08	-121.61	5514.25	40°43'03.629"N	103°50'26.374"W	3.25	
11061.00	90.550	88.340	5721.53	5608.04	-119.09	5608.21	40°43'03.637"N	103°50'25.153"W	0.27	
11155.00	90.490	86.740	5720.68	5701.95	-115.05	5702.12	40°43'03.659"N	103°50'23.933"W	1.70	
11250.00	90.550	86.370	5719.81	5796.78	-109.35	5796.94	40°43'03.698"N	103°50'22.700"W	0.39	
11345.00	90.550	86.930	5718.90	5891.63	-103.79	5891.78	40°43'03.735"N	103°50'21.468"W	0.59	
11439.00	90.400	88.110	5718.12	5985.54	-99.73	5985.68	40°43'03.758"N	103°50'20.247"W	1.27	
11534.00	90.550	89.310	5717.33	6080.51	-97.59	6080.65	40°43'03.762"N	103°50'19.014"W	1.27	
11628.00	90.710	90.650	5716.30	6174.50	-97.56	6174.65	40°43'03.745"N	103°50'17.793"W	1.44	
11723.00	90.490	89.450	5715.31	6269.50	-97.64	6269.64	40°43'03.726"N	103°50'16.560"W	1.28	
11818.00	90.520	88.970	5714.47	6364.49	-96.33	6364.63	40°43'03.722"N	103°50'15.326"W	0.51	
11912.00	90.580	88.160	5713.57	6458.45	-93.98	6458.59	40°43'03.727"N	103°50'14.106"W	0.86	
12101.00	90.520	87.300	5711.75	6647.31	-86.49	6647.43	40°43'03.766"N	103°50'11.652"W	0.46	
12196.00	90.650	88.060	5710.78	6742.23	-82.64	6742.35	40°43'03.787"N	103°50'10.418"W	0.81	
12291.00	90.550	87.400	5709.79	6837.15	-78.88	6837.27	40°43'03.806"N	103°50'09.185"W	0.70	
12385.00	90.620	87.500	5708.83	6931.06	-74.70	6931.17	40°43'03.830"N	103°50'07.965"W	0.13	
12480.00	90.650	86.670	5707.77	7025.94	-69.87	7026.04	40°43'03.860"N	103°50'06.732"W	0.87	
12575.00	90.430	89.160	5706.88	7120.87	-66.41	7120.97	40°43'03.877"N	103°50'05.498"W	2.63	
12669.00	90.520	89.670	5706.10	7214.86	-65.45	7214.96	40°43'03.869"N	103°50'04.278"W	0.55	
12763.00	90.680	89.240	5705.12	7308.85	-64.56	7308.95	40°43'03.860"N	103°50'03.057"W	0.49	
12858.00	90.580	88.710	5704.07	7403.83	-62.86	7403.93	40°43'03.859"N	103°50'01.823"W	0.57	
13047.00	90.520	88.670	5702.26	7592.78	-58.54	7592.87	40°43'03.867"N	103°49'59.369"W	0.04	
13142.00	90.580	88.280	5701.34	7687.75	-56.01	7687.83	40°43'03.874"N	103°49'58.136"W	0.42	

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Slot	SLOT#02 ELLIE LD26-625 (1245'FSL & 330'FEL, SEC.28)
Area	COLORADO	Well	ELLIE LD26-625
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	ELLIE LD26-625 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
13236.00	90.550	88.860	5700.42	7781.71	-53.67	7781.80	40°43'03.880"N	103°49'56.915"W	0.62	
13331.00	90.460	88.410	5699.58	7876.69	-51.40	7876.77	40°43'03.885"N	103°49'55.681"W	0.48	
13425.00	90.550	87.950	5698.75	7970.64	-48.42	7970.71	40°43'03.897"N	103°49'54.461"W	0.50	
13520.00	90.680	90.350	5697.73	8065.62	-47.01	8065.69	40°43'03.893"N	103°49'53.227"W	2.53	
13614.00	90.280	93.750	5696.94	8159.54	-50.37	8159.61	40°43'03.842"N	103°49'52.008"W	3.64	
13709.00	90.340	91.020	5696.43	8254.44	-54.32	8254.52	40°43'03.786"N	103°49'50.777"W	2.87	
13804.00	90.280	89.530	5695.92	8349.43	-54.78	8349.52	40°43'03.764"N	103°49'49.544"W	1.57	
13898.00	90.220	88.600	5695.51	8443.42	-53.25	8443.50	40°43'03.761"N	103°49'48.323"W	0.99	
13993.00	90.280	86.090	5695.09	8538.31	-48.84	8538.39	40°43'03.787"N	103°49'47.090"W	2.64	
14087.00	90.340	85.860	5694.58	8632.09	-42.25	8632.16	40°43'03.835"N	103°49'45.871"W	0.25	
14182.00	90.250	85.410	5694.09	8726.82	-35.02	8726.88	40°43'03.889"N	103°49'44.639"W	0.48	
14276.00	90.250	85.330	5693.68	8820.53	-27.43	8820.57	40°43'03.946"N	103°49'43.421"W	0.09	
14371.00	90.220	86.650	5693.29	8915.30	-20.79	8915.34	40°43'03.994"N	103°49'42.189"W	1.39	
14465.00	90.220	88.690	5692.93	9009.22	-16.96	9009.25	40°43'04.014"N	103°49'40.968"W	2.17	
14560.00	90.280	89.120	5692.52	9104.21	-15.15	9104.24	40°43'04.015"N	103°49'39.734"W	0.46	
14655.00	90.280	88.390	5692.05	9199.18	-13.08	9199.21	40°43'04.017"N	103°49'38.501"W	0.77	
14749.00	90.710	87.320	5691.24	9293.12	-9.57	9293.14	40°43'04.035"N	103°49'37.280"W	1.23	
14844.00	90.550	87.790	5690.20	9388.03	-5.51	9388.05	40°43'04.057"N	103°49'36.047"W	0.52	
14938.00	90.580	88.930	5689.27	9481.99	-2.82	9482.00	40°43'04.066"N	103°49'34.826"W	1.21	
15033.00	90.430	90.200	5688.43	9576.98	-2.10	9577.00	40°43'04.055"N	103°49'33.593"W	1.35	
15127.00	90.490	91.520	5687.68	9670.97	-3.51	9670.98	40°43'04.024"N	103°49'32.373"W	1.41	
15222.00	90.460	91.760	5686.89	9765.92	-6.23	9765.94	40°43'03.979"N	103°49'31.141"W	0.25	
15316.00	90.550	89.420	5686.06	9859.90	-7.20	9859.92	40°43'03.952"N	103°49'29.920"W	2.49	
15411.00	90.520	86.620	5685.18	9954.84	-3.92	9954.85	40°43'03.967"N	103°49'28.687"W	2.95	
15506.00	90.520	85.950	5684.31	10049.64	2.24	10049.65	40°43'04.010"N	103°49'27.455"W	0.71	
15600.00	90.520	87.780	5683.46	10143.50	7.38	10143.50	40°43'04.043"N	103°49'26.235"W	1.95	
15695.00	90.620	86.640	5682.51	10238.39	12.00	10238.38	40°43'04.071"N	103°49'25.002"W	1.20	
15789.00	90.520	86.630	5681.58	10332.23	17.52	10332.21	40°43'04.108"N	103°49'23.782"W	0.11	
15884.00	90.680	86.990	5680.58	10427.08	22.80	10427.06	40°43'04.143"N	103°49'22.549"W	0.41	
15956.00	90.550	86.850	5679.81	10498.98	26.67	10498.95	40°43'04.167"N	103°49'21.615"W	0.27	Last BHI MWD Survey

REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY, INC	Slot	SLOT#02 ELLIE LD26-625 (1245'FSL & 330'FEL, SEC.28)
Area	COLORADO	Well	ELLIE LD26-625
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	ELLIE LD26-625 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
15980.00	90.550	86.850	5679.58	10522.94	27.99	10522.92	40°43'04.176"N	103°49'21.303"W	0.00	Projection to Bit

HOLE & CASING SECTIONS - Ref Wellbore: ELLIE LD26-625 AWB Ref Wellpath: ELLIE LD26-625 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	1931.00	1901.00	30.00	1930.96	-0.01	0.02	-6.43	2.28
9.625in Casing Surface	30.00	1931.00	1901.00	30.00	1930.96	-0.01	0.02	-6.43	2.28
8.5in Open Hole	1931.00	15980.00	14049.00	1930.96	5679.58	-6.43	2.28	27.99	10522.92
5.5in Casing Production	30.00	15980.00	15950.00	30.00	5679.58	-0.01	0.02	27.99	10522.92

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	36.43	-0.67	3454436.16	1508754.54	40°43'06.204"N	103°51'37.944"W	polygon
SEC.27-T09N-R58W	0.00	36.43	-0.67	3454436.16	1508754.54	40°43'06.204"N	103°51'37.944"W	polygon
ELLIE LD26-625 BHL ON PLAT REV-1 (990'FSL & 330'FEL, SEC 26)	5678.12	14.66	10524.34	3464961.06	1508732.77	40°43'04.044"N	103°49'21.288"W	point
ELLIE LD26-625 LANDING POINT REV-1 (990'FSL & 330'FWL, SEC.27)	5764.11	-255.00	675.00	3455111.83	1508463.12	40°43'03.201"N	103°51'29.241"W	point
SEC.27/26-T09N-R58W HARDLINES (330' SETBACKS)	5865.00	36.43	-0.67	3454436.16	1508754.54	40°43'06.204"N	103°51'37.944"W	polygon



Actual Wellpath Report

ELLIE LD26-625 AWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Slot	SLOT#02 ELLIE LD26-625 (1245'FSL & 330'FEL, SEC.28)
Area	COLORADO	Well	ELLIE LD26-625
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	ELLIE LD26-625 AWB
Facility	SEC.28-T09N-R58W		

WELLPATH COMPOSITION - Ref Wellbore: ELLIE LD26-625 AWB Ref Wellpath: ELLIE LD26-625 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	1927.00	Gyrodatta standard - Drop gyro or Multi-shot	13 1/2" Gyrodatta Drop Gyro Survey's <84' to 1927'>	ELLIE LD26-625 AWB
1927.00	15956.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	BHI/AutoTrak Curve 8.5" Hole <1984' to 15956'>	ELLIE LD26-625 AWB
15956.00	15980.00	Blind Drilling (std)	Projection to bit	ELLIE LD26-625 AWB

REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY, INC	Slot	SLOT#02 ELLIE LD26-625 (1245'FSL & 330'FEL, SEC.28)
Area	COLORADO	Well	ELLIE LD26-625
Field	WELD COUNTY (NOBLE NAD 83 GRID)	Wellbore	ELLIE LD26-625 AWB
Facility	SEC.28-T09N-R58W		

WELLPATH COMMENTS					
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment	
1921.00	0.565	207.080	1920.96	Tie to Surface Gyros	
6127.00	88.742	90.198	5763.40	Crossed 330' Setback	
15956.00	90.550	86.850	5679.81	Last BHI MWD Survey	
15980.00	90.550	86.850	5679.58	Projection to Bit	