

21-05749



NOBLE ENERGY

Location: Gilmer County, WV
 Field: Gilmer
 Facility: Norm Pad

Slot: Slot #1E
 Well: Norm 1E
 Wellbore: Norm 1E (PWB)



Location Information

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude		
Norm Pad	2015441.000	673234.000	38°50'55.740"N	80°56'44.830"W		
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot #1E	-18.01	9.99	2015451.000	673216.000	38°50'55.562"N	80°56'44.703"W

Precision 542 (RKB) to Mud Ino (At Slot: Slot #1E) 18ft
 Mean Sea Level to Mud line (At Slot: Slot #1E) -810ft
 Precision 542 (RKB) to Mean Sea Level 828ft

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°100ft)	VS (ft)
Tie On	4928.00	4.100	110.720	4922.27	77.19	149.28	0.00	21.47
Projection to bit	4989.00	7.821	110.720	4882.93	74.95	155.20	6.10	17.34
KOP	5130.00	7.821	110.720	5122.62	68.16	173.15	0.00	4.83
End of 3D Arc	5707.81	42.044	350.794	5652.61	255.57	179.30	8.02	178.83
Casing Point	5772.29	42.784	358.383	5700.24	298.80	175.23	8.02	220.85
End of Tangent	5846.62	42.794	358.383	5754.79	349.28	173.81	0.00	268.77
LP	6290.94	90.000	339.542	5929.00	732.95	86.27	11.25	659.24
PBHL	10832.37	90.000	339.542	5929.00	4987.93	-1501.09	0.00	5200.52

Targets

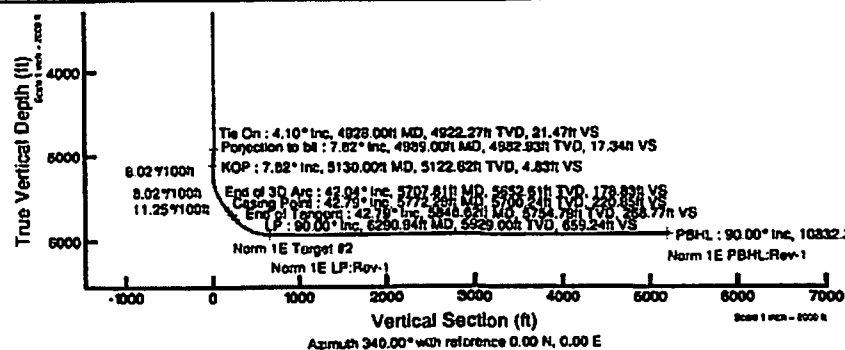
Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Norm 1E Target #2	5772.29	5700.24	298.80	175.23	2015260.05	673314.80	38°50'58.315"W	80°56'42.483"W
Norm 1E LP-Rev-1	6290.94	5929.00	732.95	86.27	2015336.84	673348.99	38°51'02.808"W	80°56'43.813"W
Norm 1E PBHL-Rev-1	10832.37	5929.00	4987.93	-1501.09	2013947.00	678203.00	38°51'44.864"W	80°57'03.683"W
Norm 1E PBHL-EX-C2		6030.80	4987.93	-1501.09	2013947.00	678203.00	38°51'44.864"W	80°57'03.683"W
Norm 1E LP-EX-C9		6370.48	732.95	86.27	2016530.84	673348.99	38°51'02.808"W	80°56'43.813"W

Hole and Casing Sections

Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	Start Local E (ft)	End Local N (ft)	End Local E (ft)	Wellbore
13.375in Casing Surface	18.00	450.00	432.00	18.00	448.99	0.00	0.00	-2.87	1.03	Norm 1E (PWB)
8.625in Casing Intermediate	18.00	5771.98	5753.98	18.00	5700.00	0.00	0.00	208.50	178.24	Norm 1E (PWB)
8.75in Open Hole	5771.98	10832.37	5060.41	5700.00	8030.00	284.34	173.34	4267.83	-1501.09	Norm 1E (PWB)

Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
10832.37	90.000	339.542	5929.00	4987.93	-1501.09	2013947.00	678203.00	38°51'44.864"W	80°57'03.683"W

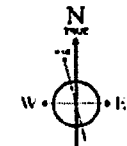


Tie-On Position

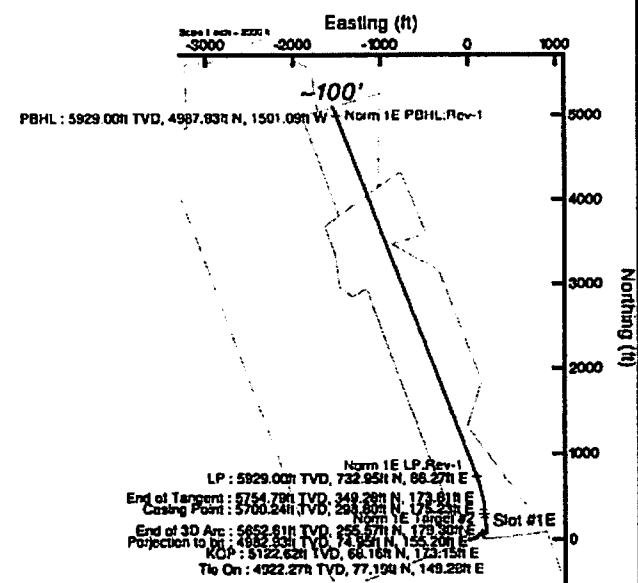
MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
4928.00	4.100	110.720	4922.27	77.19	149.28	2015260.05	673314.80	38°50'58.315"W	80°56'42.483"W

Pivot reference wellpath is Norm 1E (PWP) Rev-D

True vertical curves are referenced to Precision 542 (RKB) Grid System: NAD83 / Lambert West Virginia EP, Southern Zone (4703), US feet
 Measured depths are referenced to Precision 542 (RKB) North Reference: True north
 Precision 542 (RKB) to Mean Sea Level: 828 feet Base: True distance
 Mean Sea Level to Mud line (At Slot: Slot #1E): -810 feet Depth: as set
 Coordinates are not referenced to Slot Created by: Model on 6/18/2013



GCSM (1948 to 2011) Dip: 85.83° Field: 63243.5 +T
 Magnetic North is 8.18 degrees West of True North (at 04/04/2013)
 To correct azimuth from Magnetic to True subtract 8.18 degrees
 For example if the Magnetic North Azimuth = 90 degs, then the True North Azimuth = 90 - 8.18 = 81.82



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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot #1E
Area	Gilmer County, WV	Well	Norm 1E
Field	Gilmer	Wellbore	Norm 1E (AWB)
Facility	Norm Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Southern Zone (4702), US feet	Software System	WellArchitect® 3.0.0
North Reference	True	User	Benaarw
Scale	0.999993	Report Generated	4/23/2013 at 3:23:56 PM
Convergence at slot	0.03° East	Database/Source file	WellArchitect/Norm_1E_AWB_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-18.01	9.99	2015451.00	673216.00	38°50'55.562"N	80°56'44.703"W
Facility Reference Pt			2015441.00	673234.00	38°50'55.740"N	80°56'44.830"W
Field Reference Pt			0.00	0.00	36°47'50.602"N	87°50'06.103"W

WELLPATH DATUM

Calculation method	Minimum curvature	Precision 542 (RKB) to Facility Vertical Datum	18.00ft
Horizontal Reference Pt	Slot	Precision 542 (RKB) to Mean Sea Level	828.00ft
Vertical Reference Pt	Precision 542 (RKB)	Precision 542 (RKB) to Mud Line at Slot (Slot #1E)	18.00ft
MD Reference Pt	Precision 542 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	340.00°

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Area	Gilmer County, WV	Well	Norm 1E
Field	Gilmer	Wellbore	Norm 1E (AWB)
Facility	Norm Pad		

WELLPATH DATA (166 stations) † = interpolated/extrapolated station							
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	DLS (°/100ft)
0.00†	0.000	153.160	0.00	0.00	0.00	0.00	0.00
18.00	0.000	153.160	18.00	0.00	0.00	0.00	0.00
108.00	0.460	153.160	108.00	-0.36	-0.32	0.16	0.51
203.00	0.330	191.760	203.00	-0.97	-0.93	0.28	0.30
293.00	0.340	146.520	293.00	-1.45	-1.41	0.37	0.29
386.00	0.610	158.640	385.99	-2.21	-2.10	0.71	0.31
453.00	0.910	156.240	452.99	-3.10	-2.92	1.05	0.45
527.00	1.270	133.820	526.97	-4.42	-4.02	1.88	0.75
559.00	1.530	117.510	558.96	-5.06	-4.47	2.51	1.48
590.00	2.040	108.750	589.95	-5.71	-4.83	3.40	1.86
622.00	2.530	103.510	621.92	-6.45	-5.18	4.63	1.66
654.00	3.240	96.200	653.88	-7.24	-5.45	6.22	2.49
685.00	3.950	94.920	684.82	-8.08	-5.63	8.15	2.30
717.00	4.760	91.190	716.73	-9.02	-5.75	10.58	2.68
748.00	5.260	88.700	747.61	-9.94	-5.75	13.28	1.76
780.00	5.630	82.070	779.47	-10.74	-5.50	16.30	2.28
811.00	5.700	77.240	810.31	-11.25	-4.95	19.31	1.55
843.00	5.910	71.680	842.15	-11.50	-4.08	22.42	1.87
875.00	5.770	67.070	873.98	-11.47	-2.93	25.47	1.53
906.00	5.950	62.930	904.82	-11.19	-1.60	28.34	1.48
938.00	5.770	60.950	936.66	-10.73	-0.06	31.22	0.85
969.00	5.760	57.150	967.50	-10.14	1.54	33.89	1.23
1001.00	5.690	55.710	999.34	-9.39	3.30	36.55	0.50
1033.00	5.790	54.950	1031.18	-8.58	5.13	39.18	0.39
1064.00	5.750	55.790	1062.02	-7.80	6.90	41.74	0.30
1096.00	5.260	58.170	1093.87	-7.10	8.57	44.32	1.69
1127.00	4.480	61.520	1124.76	-6.63	9.90	46.59	2.68
1159.00	4.460	60.510	1156.67	-6.24	11.11	48.77	0.25
1191.00	3.540	61.500	1188.59	-5.89	12.19	50.72	2.88
1222.00	2.850	63.230	1219.54	-5.66	12.99	52.25	2.25
1254.00	2.900	62.560	1251.50	-5.46	13.73	53.68	0.19
1286.00	2.900	62.660	1283.46	-5.25	14.47	55.12	0.02
1317.00	3.120	60.070	1314.41	-5.01	15.25	56.54	0.83
1349.00	3.490	58.430	1346.36	-4.66	16.20	58.13	1.19
1380.00	3.800	58.470	1377.30	-4.27	17.23	59.81	1.00
1475.00	4.740	62.050	1472.03	-3.10	20.71	65.96	1.03
1570.00	4.170	54.900	1566.75	-1.65	24.54	72.25	0.84
1615.00	3.420	46.710	1611.65	-0.70	26.40	74.57	2.05
1660.00	3.270	45.520	1656.57	0.37	28.22	76.46	0.37
1704.00	3.290	51.380	1700.50	1.29	29.89	78.34	0.76
1749.00	3.410	61.430	1745.42	1.90	31.33	80.53	1.33
1794.00	3.530	63.630	1790.34	2.26	32.59	82.94	0.40
1839.00	3.570	63.270	1835.25	2.57	33.83	85.44	0.10

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1884.00	3.450	52.050	1880.17	3.15	35.30	87.75	1.55
1928.00	3.490	40.530	1924.09	4.22	37.13	89.67	1.58

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY	Slot	Slot #1E
Area	Gilmer County, WV	Well	Norm 1E
Field	Gilmer	Wellbore	Norm 1E (AWB)
Facility	Norm Pad		

WELLPATH DATA (166 stations)							
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	DLS (%/100ft)
1973.00	3.370	40.890	1969.01	5.54	39.17	91.42	0.27
2018.00	3.120	50.920	2013.94	6.58	40.94	93.24	1.38
2138.00	3.290	84.350	2133.76	6.80	43.34	99.20	1.54
2183.00	3.120	81.200	2178.69	6.24	43.65	101.70	0.54
2228.00	2.900	67.770	2223.63	6.04	44.27	103.96	1.64
2269.00	2.010	55.970	2264.59	6.26	45.07	105.52	2.49
2314.00	2.180	52.530	2309.56	6.71	46.03	105.85	0.47
2359.00	2.280	49.340	2354.53	7.28	47.13	108.21	0.35
2404.00	2.690	49.120	2399.48	7.97	48.41	109.69	0.91
2449.00	3.140	47.540	2444.43	8.82	49.93	111.39	1.02
2494.00	3.370	49.410	2489.35	9.76	51.62	113.31	0.56
2538.00	3.600	53.410	2533.27	10.61	53.29	115.40	0.76
2628.00	3.620	54.620	2623.09	12.17	56.62	119.99	0.09
2718.00	3.470	55.530	2712.92	13.60	59.80	124.55	0.18
2808.00	3.160	68.310	2802.77	14.35	62.26	129.10	0.89
2897.00	3.180	66.120	2891.64	14.59	64.17	133.63	0.14
2987.00	2.510	62.110	2981.52	15.03	66.10	137.66	0.78
3076.00	1.990	69.980	3070.46	15.30	67.54	140.83	0.68
3180.00	1.460	63.640	3174.41	15.45	68.75	143.72	0.54
3270.00	0.870	56.840	3264.39	15.73	69.63	145.32	0.67
3359.00	0.840	62.960	3353.38	15.96	70.30	146.46	0.11
3449.00	0.800	58.050	3443.37	16.18	70.93	147.58	0.09
3538.00	0.610	55.980	3532.36	16.42	71.52	148.50	0.22
3628.00	0.410	79.970	3622.36	16.48	71.85	149.22	0.32
3718.00	0.370	33.490	3712.36	16.60	72.15	149.69	0.34
3808.00	0.290	10.090	3802.36	16.97	72.61	149.90	0.17
3897.00	0.410	348.590	3891.35	17.48	73.15	149.87	0.20
3987.00	0.370	331.280	3981.35	18.08	73.72	149.67	0.14
4076.00	0.340	336.800	4070.35	18.63	74.21	149.43	0.05
4166.00	0.340	344.340	4160.35	19.16	74.71	149.25	0.05
4255.00	0.310	324.150	4249.35	19.66	75.16	149.04	0.13
4345.00	0.250	316.490	4339.35	20.07	75.50	148.76	0.08
4435.00	0.340	309.060	4429.35	20.48	75.81	148.42	0.11
4524.00	0.330	323.340	4518.34	20.95	76.19	148.06	0.09
4614.00	0.440	290.170	4608.34	21.42	76.51	147.58	0.27
4704.00	0.430	314.250	4698.34	21.95	76.87	147.01	0.20
4793.00	0.760	331.480	4787.34	22.83	77.62	146.49	0.42
4883.00	1.370	103.930	4877.33	22.82	77.88	147.25	2.18
4928.00	4.100	110.720	4922.27	21.47	77.19	149.28	6.10
4973.00	6.450	115.200	4967.08	18.63	75.54	153.07	5.30
5017.00	7.120	110.250	5010.77	15.12	73.54	157.87	2.02
5048.00	6.910	102.250	5041.54	12.88	72.48	161.49	3.22
5092.00	6.400	66.320	5085.26	11.62	72.91	166.32	9.38

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5137.00	9.970	31.090	5129.82	14.23	77.25	170.64	13.33
5182.00	14.400	32.920	5173.80	20.06	85.29	175.69	9.88

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY	Slot	Slot #1E
Area	Gilmer County, WV	Well	Norm 1E
Field	Gilmer	Wellbore	Norm 1E (AWB)
Facility	Norm Pad		

WELLPATH DATA (166 stations)							
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	DLS (*/100ft)
5227.00	17.820	36.580	5217.02	27.23	95.52	182.84	7.92
5272.00	20.540	34.500	5259.52	35.60	107.56	191.42	6.23
5317.00	20.840	29.540	5301.62	45.38	121.03	199.83	3.95
5362.00	20.910	22.340	5343.68	56.52	135.42	206.83	5.70
5407.00	21.200	20.560	5385.67	68.63	150.47	212.74	1.56
5452.00	22.870	16.220	5427.39	81.87	166.49	218.04	5.18
5496.00	24.010	8.810	5467.76	96.62	183.55	221.80	7.18
5541.00	27.200	4.570	5508.34	114.00	202.85	224.03	8.17
5586.00	31.340	2.890	5547.59	134.14	224.80	225.44	9.38
5631.00	34.670	359.490	5585.33	157.00	249.30	225.91	8.46
5676.00	38.490	357.100	5621.46	182.46	276.09	225.09	9.06
5709.00	41.540	356.170	5646.73	202.79	297.27	223.84	9.42
5780.00	46.770	353.840	5697.65	250.55	346.51	219.49	7.71
5827.00	47.420	352.740	5729.65	284.05	380.70	215.46	8.20
5872.00	50.890	350.920	5759.08	317.37	414.39	210.61	2.30
5916.00	51.750	349.390	5786.58	351.17	448.23	204.74	3.34
5961.00	56.030	347.450	5813.09	387.13	483.83	197.43	10.13
6006.00	61.760	345.720	5836.33	425.39	521.29	188.47	13.15
6051.00	64.070	342.760	5856.82	465.34	559.84	177.59	7.79
6096.00	66.100	339.640	5875.78	506.13	598.46	164.43	7.74
6141.00	70.490	337.410	5892.42	547.91	637.35	149.11	10.79
6186.00	74.690	335.500	5905.89	590.76	676.70	131.96	10.17
6230.00	78.780	338.410	5915.98	633.51	716.10	115.21	11.31
6276.00	84.440	339.490	5922.69	678.99	758.55	98.87	12.52
6321.00	89.480	339.910	5925.08	723.91	800.68	83.29	11.24
6410.00	90.710	339.030	5924.93	812.90	884.03	52.08	1.70
6500.00	89.050	337.370	5925.12	902.85	967.59	18.66	2.61
6590.00	88.860	338.110	5926.76	992.77	1050.86	-15.43	0.85
6679.00	88.710	337.880	5928.65	1081.69	1133.36	-48.77	0.31
6769.00	91.420	340.140	5928.55	1171.66	1217.38	-81.00	3.92
6859.00	92.370	340.300	5925.57	1261.61	1302.02	-111.44	1.07
6949.00	92.440	340.770	5921.79	1351.53	1386.80	-141.41	0.53
7039.00	91.570	338.650	5918.64	1441.47	1471.16	-172.60	2.54
7128.00	91.320	339.370	5916.40	1530.43	1554.22	-204.47	0.86
7218.00	91.450	338.240	5914.22	1620.38	1638.11	-237.00	1.26
7307.00	89.480	336.390	5913.50	1709.27	1720.22	-271.32	3.04
7397.00	88.610	336.440	5915.00	1799.08	1802.69	-307.32	0.97
7487.00	88.430	336.310	5917.33	1888.87	1885.11	-343.38	0.25
7576.00	88.830	338.540	5919.45	1977.75	1967.27	-377.53	2.54
7666.00	88.220	340.700	5921.77	2067.71	2051.60	-408.86	2.49
7756.00	88.580	343.090	5924.28	2157.62	2137.10	-436.81	2.68
7845.00	91.790	344.590	5924.00	2246.41	2222.57	-461.58	3.98
7935.00	92.340	344.820	5920.75	2336.04	2309.33	-485.31	0.66

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8025.00	92.190	342.050	5917.20	2425.80	2395.52	-510.94	3.08
8114.00	88.830	340.000	5916.40	2514.77	2479.66	-539.88	4.42

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Field	Gilmer	Wellbore	Norm 1E (AWB)
Facility	Norm Pad		

WELLPATH DATA (166 stations)							
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	DLS (%/100ft)
8204.00	87.840	338.860	5919.02	2604.72	2563.88	-571.48	1.68
8293.00	88.920	340.060	5921.54	2693.68	2647.19	-602.70	1.81
8383.00	90.990	338.510	5921.61	2783.67	2731.37	-634.53	2.87
8473.00	90.550	338.760	5920.40	2873.63	2815.17	-667.31	0.56
8562.00	89.510	337.300	5920.35	2962.58	2897.71	-700.61	2.01
8652.00	88.590	337.500	5921.84	3052.47	2980.78	-735.19	1.05
8741.00	87.600	337.300	5924.80	3141.33	3062.90	-769.37	1.13
8831.00	88.060	338.020	5928.21	3231.19	3146.09	-803.56	0.95
8921.00	89.410	337.370	5930.20	3321.09	3229.33	-837.71	1.66
9010.00	89.750	337.400	5930.85	3409.99	3311.48	-871.93	0.38
9100.00	88.860	338.480	5931.94	3499.93	3394.89	-905.73	1.55
9190.00	92.060	339.300	5931.22	3589.90	3478.83	-938.14	3.67
9279.00	93.760	339.430	5926.70	3678.77	3562.01	-969.46	1.92
9369.00	93.170	338.810	5921.26	3768.60	3645.95	-1001.48	0.95
9459.00	90.800	338.780	5918.14	3858.52	3729.80	-1034.01	2.63
9549.00	91.140	337.820	5916.62	3948.46	3813.41	-1067.28	1.13
9638.00	88.490	339.500	5916.91	4037.43	3896.29	-1099.66	3.53
9728.00	88.950	339.310	5918.92	4127.40	3980.52	-1131.32	0.55
9817.00	89.780	340.940	5919.90	4216.39	4064.21	-1161.57	2.06
9907.00	89.630	341.690	5920.37	4306.36	4149.47	-1190.40	0.85
9997.00	89.350	342.100	5921.17	4396.31	4235.01	-1218.37	0.55
10086.00	88.330	342.780	5922.97	4485.21	4319.84	-1245.21	1.38
10176.00	87.720	341.910	5926.07	4575.08	4405.55	-1272.49	1.18
10266.00	86.430	338.210	5930.66	4664.94	4490.03	-1303.14	4.35
10355.00	85.600	336.870	5936.85	4753.64	4572.07	-1337.06	1.77
10445.00	89.020	340.030	5941.07	4843.49	4655.67	-1370.07	5.17
10534.00	88.860	339.590	5942.72	4932.47	4739.19	-1400.78	0.53
10624.00	90.220	339.310	5943.44	5022.46	4823.45	-1432.37	1.54
10714.00	90.860	339.420	5942.60	5112.45	4907.68	-1464.08	0.72
10738.00	90.860	339.720	5942.24	5136.45	4930.16	-1472.46	1.25
10802.00	90.860	339.720	5941.27	5200.44	4990.19	-1494.64	0.00

21.05749



Actual Wellpath Report

Norm 1E AWP [Curve] Proj:

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot #1E
Area	Gilmer County, WV	Well	Norm 1E
Field	Gilmer	Wellbore	Norm 1E (AWB)
Facility	Norm Pad		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Norm 1E LP Rev-2		5925.00	782.00	63.00	2015513.54	673998.03	38°51'03.291"N	80°56'43.907"W	point
Norm 1E LP:Rev-1		5929.00	732.95	86.27	2015536.84	673948.99	38°51'02.806"N	80°56'43.613"W	point
Norm 1E PBHL Rev-2		5935.00	4987.93	-1501.09	2013947.00	678203.00	38°51'44.864"N	80°57'03.680"W	point

WELLPATH COMPOSITION - Ref Wellbore: Norm 1E (AWB) Ref Wellpath: Norm 1E AWP [Curve] Proj:

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	453.00	Generic gyro - northseeking (Standard)	Gyro Surveys (108'-453')	Norm 1E (AWB)
453.00	5709.00	NaviTrak (MagCorr)	BHI NaviTrak (453')(527-5709')	Norm 1E (AWB)
5709.00	10738.00	NaviTrak (MagCorr)	BHI MWD Surveys [Curve & Lat.] (5709')(xxx'-xxx')	Norm 1E (AWB)
10738.00	10802.00	Blind Drilling (std)	Projection to bit	Norm 1E (AWB)