

21-05750



Actual Wellpath Report

Norm 1F AWP [Curve] Proj:

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

REPORT SETUP INFORMATION			
Projection System	NAD27 / Lambert West Virginia SP, Southern Zone (4702), US feet	Software System	WellArchitect@ 3.0.2
North Reference	True	User	Bennaarw
Scale	0.999993	Report Generated	04/May/2013 at 14:16
Convergence at slot	0.03° East	Database/Source file	WellArchitectDB/Norm_1F_AWB_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-35.01	18.98	2015460.00	673199.00	38°50'55.394"N	80°56'44.590"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 #1F)	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	161.00°

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

WELLPATH DATA (214 stations) 1 = interpolated/extrapolated station							
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [ft/100ft]
0.00	0.000	149.320	0.00	0.00	0.00	0.00	0.00
18.00	0.000	149.320	18.00	0.00	0.00	0.00	0.00
76.00	0.370	149.320	76.00	0.18	-0.16	0.10	0.64
172.00	0.540	120.910	172.00	0.83	-0.66	0.64	0.29
202.00	0.640	86.460	202.00	0.99	-0.72	0.93	1.21
295.00	0.670	111.210	294.99	1.48	-0.89	1.96	0.30
388.00	0.680	67.630	387.98	1.79	-0.87	2.97	0.54
422.00	0.880	88.640	421.98	1.86	-0.79	3.42	1.02
526.00	1.030	158.240	525.97	3.04	-1.64	4.57	1.05
557.00	1.740	161.010	556.96	3.79	-2.34	4.82	2.30
589.00	2.540	150.920	588.94	4.97	-3.42	5.32	2.75
620.00	3.590	143.680	619.89	6.57	-4.81	6.23	3.60
652.00	4.940	136.320	651.80	8.78	-6.61	7.78	4.54
684.00	6.230	134.170	683.65	11.58	-8.82	9.98	4.08
715.00	7.620	130.940	714.42	14.86	-11.33	12.73	4.65
747.00	9.180	125.620	746.08	18.78	-14.21	16.41	5.44
778.00	10.700	121.400	776.61	23.01	-17.15	20.88	5.43
810.00	11.890	117.060	807.99	27.68	-20.20	26.35	4.57
842.00	13.030	110.010	839.24	32.32	-22.93	32.68	5.93
873.00	13.980	107.600	869.39	36.75	-25.26	39.53	3.56
905.00	14.310	103.210	900.42	41.17	-27.33	47.06	3.51
936.00	13.990	96.260	930.48	44.81	-28.62	54.52	5.57
968.00	13.460	90.000	961.57	47.67	-29.04	62.09	4.93
999.00	13.030	84.180	991.74	49.64	-28.69	69.17	4.52
1031.00	12.030	76.770	1022.98	50.80	-27.56	76.01	5.91
1063.00	10.850	69.980	1054.35	51.08	-25.76	82.09	5.59
1094.00	9.860	63.940	1084.84	50.70	-23.60	87.21	4.74
1126.00	8.230	55.540	1116.44	49.76	-21.10	91.56	6.54
1157.00	7.140	48.600	1147.17	48.43	-18.57	94.84	4.61
1189.00	5.810	45.760	1178.96	46.98	-16.12	97.49	4.27
1221.00	3.750	41.100	1210.85	45.77	-14.20	99.34	6.55
1252.00	2.140	43.000	1241.81	44.99	-13.02	100.40	5.20
1284.00	0.570	47.150	1273.80	44.65	-12.47	100.92	4.91
1316.00	1.120	228.850	1305.80	44.70	-12.57	100.81	5.28
1347.00	2.570	239.120	1336.78	44.96	-13.12	99.98	4.78
1379.00	3.860	236.760	1368.73	45.37	-14.08	98.46	4.05
1410.00	5.530	240.100	1399.62	45.91	-15.40	96.30	5.46
1442.00	6.970	241.410	1431.43	46.53	-17.10	93.25	4.52
1474.00	8.130	244.560	1463.15	47.10	-19.00	89.51	3.85
1505.00	9.610	251.190	1493.78	47.34	-20.77	85.08	5.79
1537.00	10.530	257.190	1525.29	47.02	-22.28	79.70	4.36
1568.00	11.510	262.120	1555.72	46.12	-23.34	73.87	4.38
1613.00	13.010	268.960	1599.69	43.69	-24.04	64.36	4.63
1658.00	14.020	276.200	1643.45	39.80	-23.55	53.87	4.37
1703.00	14.910	281.110	1687.03	34.58	-21.84	42.77	3.37

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

WELLPATH DATA (214 stations)							
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
1748.00	15.510	282.550	1730.45	28.53	-19.42	31.22	1.58
1792.00	14.560	276.560	1772.94	23.06	-17.51	19.98	4.14
1837.00	13.570	266.530	1816.60	19.21	-17.18	9.09	5.84
1882.00	13.040	259.640	1860.40	17.03	-18.42	-1.17	3.71
1927.00	10.960	257.070	1904.41	15.81	-20.29	-10.34	4.77
1972.00	8.910	260.050	1948.73	14.81	-21.85	-17.94	4.70
2016.00	7.630	266.870	1992.28	13.48	-22.59	-24.21	3.66
2061.00	6.780	275.320	2036.92	11.57	-22.51	-29.84	3.01
2106.00	6.510	281.790	2081.62	9.17	-21.74	-34.98	1.77
2151.00	7.070	284.330	2126.30	6.34	-20.54	-40.16	1.41
2195.00	8.120	282.430	2169.92	3.23	-19.20	-45.82	2.45
2240.00	9.710	278.850	2214.37	-0.20	-17.93	-52.68	3.74
2285.00	11.230	273.250	2258.62	-3.63	-17.10	-60.80	4.06
2330.00	12.360	269.830	2302.67	-6.84	-16.86	-69.99	2.95
2375.00	12.600	267.380	2346.61	-9.78	-17.10	-79.71	1.29
2420.00	13.010	266.810	2390.49	-12.55	-17.61	-89.67	0.95
2464.00	13.000	269.350	2433.36	-15.45	-17.94	-99.57	1.30
2509.00	12.200	273.980	2477.28	-18.90	-17.67	-109.37	2.86
2554.00	12.280	275.940	2521.26	-22.78	-16.84	-118.87	0.94
2599.00	12.250	277.200	2565.23	-26.90	-15.75	-128.37	0.60
2644.00	12.470	277.170	2609.19	-31.15	-14.54	-137.93	0.49
2688.00	12.810	274.190	2652.12	-35.17	-13.59	-147.51	1.67
2733.00	12.400	270.580	2696.04	-38.75	-13.18	-157.31	1.97
2823.00	11.160	260.580	2784.15	-43.44	-14.51	-175.57	2.65
2852.00	10.810	257.730	2812.62	-44.23	-15.55	-181.00	2.23
2897.00	10.440	260.770	2856.85	-45.41	-17.10	-189.14	1.49
2942.00	10.890	272.500	2901.07	-47.66	-17.56	-197.42	4.92
2987.00	11.870	282.670	2945.19	-51.65	-16.36	-206.18	4.95
3032.00	12.630	284.480	2989.17	-56.80	-14.12	-215.46	1.89
3076.00	13.260	280.740	3032.05	-61.95	-11.98	-225.07	2.38
3121.00	13.980	276.680	3075.79	-66.87	-10.38	-235.54	2.66
3166.00	14.610	270.310	3119.40	-71.10	-9.72	-246.62	3.76
3211.00	15.260	267.630	3162.88	-74.67	-9.93	-258.21	2.11
3256.00	15.730	266.830	3206.24	-78.03	-10.52	-270.22	1.15
3301.00	14.260	265.910	3249.71	-81.12	-11.25	-281.84	3.31
3345.00	13.650	265.890	3292.41	-83.85	-12.01	-292.42	1.39
3390.00	13.410	266.370	3336.16	-86.60	-12.72	-302.92	0.59
3435.00	13.750	266.800	3379.90	-89.44	-13.35	-313.47	0.79
3525.00	14.330	268.300	3467.21	-95.66	-14.27	-335.28	0.76
3570.00	14.620	269.210	3510.78	-99.09	-14.52	-346.53	0.82
3614.00	13.370	269.190	3553.48	-102.42	-14.67	-357.17	2.84
3704.00	11.430	268.970	3641.37	-108.42	-14.97	-376.49	2.16
3793.00	11.510	270.650	3728.60	-114.12	-15.03	-394.19	0.39
3883.00	12.620	273.300	3816.61	-120.87	-14.36	-412.98	1.38
3973.00	13.340	276.640	3904.31	-129.10	-12.60	-433.11	1.16

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

WELLPATH DATA (214 stations)							
ID (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	DLS (P/100ft)
4062.00	13.490	272.840	3990.88	-137.40	-10.89	-453.68	1.00
4152.00	14.280	269.090	4078.25	-144.75	-10.55	-475.26	1.33
4242.00	14.770	267.420	4165.38	-151.44	-11.24	-497.82	0.72
4331.00	13.310	265.160	4251.72	-157.16	-12.62	-519.36	1.75
4421.00	12.550	267.370	4339.43	-162.45	-13.94	-539.46	1.01
4511.00	12.130	267.900	4427.35	-167.95	-14.74	-558.67	0.48
4600.00	12.480	269.960	4514.31	-173.80	-15.09	-577.63	0.63
4690.00	13.670	273.020	4601.98	-180.94	-14.53	-597.98	1.53
4779.00	13.050	273.560	4688.57	-188.74	-13.35	-618.51	0.71
4869.00	12.890	274.310	4776.27	-196.61	-11.97	-638.66	0.26
4958.00	13.310	280.470	4862.96	-205.58	-9.36	-658.64	1.64
5048.00	14.270	289.100	4950.37	-217.52	-3.85	-679.31	2.52
5138.00	14.700	290.590	5037.51	-231.64	3.80	-700.48	0.63
5183.00	14.970	284.190	5081.02	-238.46	7.23	-711.46	3.69
5228.00	15.560	275.700	5124.43	-244.17	9.25	-723.10	5.13
5273.00	16.430	264.270	5167.70	-248.15	9.22	-735.44	7.25
5318.00	18.400	246.880	5210.67	-249.10	5.79	-748.32	12.31
5363.00	22.240	231.060	5252.89	-245.69	-2.36	-761.49	14.82
5408.00	25.880	218.070	5294.00	-237.43	-15.46	-774.18	14.24
5452.00	30.240	205.880	5332.85	-224.35	-33.01	-784.95	16.33
5497.00	34.470	196.510	5370.88	-205.93	-55.44	-793.53	14.56
5542.00	36.950	190.600	5407.43	-183.79	-80.95	-799.64	9.44
5587.00	38.710	185.160	5442.98	-159.19	-108.27	-803.39	8.38
5632.00	40.120	180.820	5477.75	-132.70	-136.79	-804.86	6.88
5677.00	41.390	175.030	5511.85	-104.62	-166.12	-803.78	8.86
5721.00	43.610	170.050	5544.30	-75.51	-195.57	-799.90	9.16
5766.00	45.860	164.140	5576.28	-44.04	-226.40	-792.80	10.51
5811.00	48.170	159.230	5606.97	-11.15	-257.63	-782.44	9.49
5856.00	50.800	154.450	5636.21	22.95	-289.05	-768.97	9.97
5919.00	56.340	150.740	5673.61	73.05	-333.99	-745.60	9.99
6010.00	60.740	149.590	5721.10	149.27	-401.30	-706.98	4.95
6054.00	60.740	149.990	5742.60	186.92	-434.47	-687.66	0.79
6099.00	60.970	150.620	5764.52	225.54	-468.61	-668.19	1.33
6144.00	61.360	150.940	5786.22	264.34	-503.02	-648.95	1.07
6189.00	61.450	155.550	5807.77	303.47	-538.28	-631.17	9.00
6234.00	60.380	160.770	5829.66	342.73	-574.76	-616.54	10.41
6279.00	60.800	161.430	5851.75	381.93	-611.85	-603.84	1.58
6324.00	63.020	161.990	5872.94	421.62	-649.54	-591.38	5.05
6369.00	68.740	162.280	5891.32	462.67	-688.62	-578.79	12.72
6414.00	71.910	161.980	5906.47	505.02	-728.94	-565.79	7.07
6459.00	76.120	161.230	5918.86	548.27	-769.98	-552.14	9.49
6503.00	81.310	161.530	5927.47	591.41	-810.86	-538.37	11.81
6548.00	86.490	161.740	5932.25	636.13	-853.31	-524.28	11.52
6593.00	89.140	161.090	5933.96	681.09	-895.93	-509.94	6.06
6681.00	88.520	160.700	5935.76	769.08	-979.06	-481.15	0.83

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

WELLPATH DATA (214 stations)							
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [ft/100ft]
6771.00	87.630	160.470	5938.78	859.02	-1063.90	-451.25	1.02
6861.00	87.170	160.370	5942.87	948.92	-1148.60	-421.12	0.52
6951.00	88.180	159.300	5946.52	1038.83	-1233.02	-390.12	1.63
7040.00	89.510	160.240	5948.31	1127.79	-1316.51	-359.35	1.83
7130.00	89.200	159.000	5949.32	1217.75	-1400.87	-328.01	1.42
7220.00	90.460	159.330	5949.59	1307.71	-1484.98	-296.00	1.45
7309.00	90.620	157.980	5948.75	1396.62	-1567.87	-263.61	1.53
7399.00	89.420	158.860	5948.72	1486.53	-1651.56	-230.51	1.65
7488.00	89.780	159.980	5949.34	1575.49	-1734.87	-199.23	1.32
7578.00	90.490	160.750	5949.13	1665.49	-1819.64	-168.98	1.16
7668.00	89.850	163.410	5948.86	1755.46	-1905.26	-141.29	3.04
7757.00	90.650	162.360	5948.48	1844.41	-1990.32	-115.10	1.48
7847.00	92.430	164.470	5946.06	1934.29	-2076.54	-89.43	3.07
7936.00	89.750	161.980	5944.36	2023.19	-2161.72	-63.75	4.11
8026.00	91.880	162.590	5943.08	2113.15	-2247.44	-36.37	2.46
8115.00	90.830	161.950	5940.98	2202.11	-2332.18	-9.27	1.38
8205.00	89.080	160.410	5941.05	2292.10	-2417.37	19.76	2.59
8295.00	88.150	159.840	5943.22	2382.06	-2501.98	50.35	1.21
8384.00	88.920	158.620	5945.50	2470.99	-2585.17	81.90	1.62
8474.00	89.290	159.070	5946.91	2560.91	-2669.09	114.38	0.65
8564.00	89.260	161.190	5948.04	2650.89	-2753.72	144.96	2.36
8653.00	88.710	161.820	5949.62	2739.87	-2838.11	173.19	0.94
8743.00	90.460	161.410	5950.27	2829.86	-2923.51	201.57	2.00
8832.00	92.060	160.050	5948.32	2918.83	-3007.50	230.94	2.36
8922.00	91.200	159.220	5945.76	3008.77	-3091.84	262.24	1.33
9012.00	90.580	159.470	5944.36	3098.72	-3176.04	293.99	0.74
9101.00	89.420	159.190	5944.36	3187.68	-3259.31	325.40	1.34
9191.00	89.080	160.570	5945.54	3277.65	-3343.81	356.36	1.58
9281.00	88.710	162.130	5947.27	3367.63	-3429.07	385.13	1.78
9370.00	89.140	161.610	5948.94	3456.61	-3513.63	412.82	0.76
9460.00	89.690	163.330	5949.86	3546.57	-3599.44	439.93	2.01
9549.00	89.260	163.400	5950.68	3635.49	-3684.72	465.40	0.49
9639.00	88.150	163.710	5952.71	3725.37	-3771.01	490.87	1.28
9728.00	89.750	162.770	5954.34	3814.29	-3856.21	516.53	2.08
9817.00	89.570	162.210	5954.87	3903.25	-3941.09	543.31	0.66
9907.00	88.270	162.230	5956.57	3993.22	-4026.77	570.79	1.44
9996.00	88.460	161.150	5959.11	4082.17	-4111.23	598.74	1.23
10086.00	90.430	165.120	5959.98	4172.08	-4197.33	624.84	4.92
10175.00	90.800	164.010	5959.02	4260.90	-4283.12	648.52	1.31
10265.00	90.030	161.240	5958.37	4350.86	-4369.00	675.40	3.19
10354.00	88.920	160.590	5959.19	4439.85	-4453.10	704.49	1.45
10443.00	90.650	160.600	5959.52	4528.84	-4537.04	734.06	1.94
10533.00	89.380	159.520	5959.50	4618.83	-4621.64	764.76	1.85
10622.00	90.400	158.740	5959.67	4707.78	-4704.80	796.46	1.44
10712.00	89.260	157.920	5959.93	4797.68	-4788.44	829.69	1.56

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

WELLPATH DATA (214 stations)							
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
10801.00	89.660	159.290	5960.77	4886.60	-4871.30	862.16	1.60
10891.00	89.820	160.920	5961.18	4976.58	-4955.92	892.78	1.82
10980.00	89.450	161.190	5961.75	5065.58	-5040.10	921.68	0.51
11070.00	90.120	161.750	5962.09	5155.57	-5125.43	950.28	0.97
11159.00	89.320	161.450	5962.52	5244.57	-5209.88	978.37	0.96
11249.00	88.250	161.350	5964.43	5334.54	-5295.16	1007.07	1.19
11338.00	88.580	160.660	5966.89	5423.51	-5379.28	1036.03	0.86
11427.00	89.720	160.810	5968.21	5512.50	-5463.29	1065.39	1.29
11517.00	89.110	160.020	5969.13	5602.49	-5548.07	1095.55	1.11
11607.00	89.630	159.280	5970.12	5692.45	-5632.45	1126.85	1.00
11696.00	91.020	160.820	5969.61	5781.44	-5716.10	1157.21	2.33
11786.00	91.110	161.890	5967.94	5871.42	-5801.37	1185.98	1.19
11876.00	90.430	161.600	5966.73	5961.40	-5886.83	1214.17	0.82
11965.00	89.750	161.950	5966.59	6050.39	-5971.36	1242.01	0.86
12055.00	89.450	162.550	5967.22	6140.37	-6057.08	1269.44	0.75
12145.00	87.910	163.010	5969.29	6230.30	-6143.02	1296.08	1.79
12234.00	88.370	161.110	5972.18	6319.23	-6227.64	1323.48	2.20
12324.00	87.940	158.400	5975.08	6409.15	-6312.03	1354.60	3.05
12414.00	88.610	158.960	5977.79	6499.04	-6395.83	1387.31	0.97
12503.00	89.690	158.920	5979.11	6587.97	-6478.87	1419.29	1.21
12593.00	90.120	160.390	5979.26	6677.94	-6563.26	1450.58	1.70
12682.00	89.410	160.300	5979.62	6766.94	-6647.07	1480.51	0.80
12772.00	90.000	161.370	5980.09	6856.93	-6732.08	1510.06	1.36
12862.00	88.490	159.870	5981.27	6946.92	-6816.97	1539.92	2.36
12951.00	89.480	159.210	5982.85	7035.87	-6900.34	1571.02	1.34
13041.00	89.420	158.910	5983.71	7125.82	-6984.39	1603.18	0.34
13130.00	90.060	158.830	5984.12	7214.75	-7067.41	1635.27	0.72
13220.00	90.400	160.450	5983.76	7304.73	-7151.78	1666.58	1.84
13310.00	91.200	161.690	5982.50	7394.71	-7236.90	1695.77	1.64
13399.00	90.490	162.360	5981.19	7483.69	-7321.55	1723.23	1.10
13489.00	89.540	162.430	5981.16	7573.66	-7407.33	1750.46	1.06
13578.00	89.200	162.620	5982.14	7662.62	-7492.22	1777.18	0.44
13617.00	89.230	162.730	5982.68	7701.60	-7529.44	1788.79	0.29
13672.00	89.230	162.730	5983.42	7756.57	-7581.96	1805.12	0.00

21-05750



Actual Wellpath Report

Norm 1F AWP [Curve] Proj:
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY	Slot	Slot #1F
Area	Gilmer County, WV	Well	Norm 1F
Field	Gilmer	Wellbore	Norm 1F (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 1F LP: Rev-2		5935.00	-890.81	-503.81	2014956.72	672307.90	38°50'46.588"N	80°56'50.958"W	point
Norm 1F PBHL: Rev-2		5984.40	-7583.13	1800.58	2017265.00	665617.00	38°49'40.437"N	80°56'21.838"W	point

WELLPATH COMPOSITION - Ref Wellbore: Norm 1F (AWB) Ref Wellpath: Norm 1F AWP [Curve] Proj:					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	
18.00	422.00	Generic gyro - northseeking (Standard)	Gyro Surveys (76'-422')	Norm 1F (AWB)	
422.00	5919.00	NaviTrak (MagCorr)	BHI MWD Surveys (422')(526'-5919')	Norm 1F (AWB)	
5919.00	13617.00	NaviTrak (MagCorr)	BHI MWD Surveys [Curve & Lat] (5919')(xxx'-xxx')	Norm 1F (AWB)	
13617.00	13672.00	Blind Drilling (std)	Projection to bit	Norm 1F (AWB)	