



Actual Wellpath Report

WEB-22F-HS AWP Proj: 17550

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY	Slot	Slot F
Area	Marshall County, WV	Well	WEB-22F-HS
Field	Marshall	Wellbore	WEB-22F-HS AWB
Facility	WEB-22 Pad		

REPORT SETUP INFORMATION	
Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet
North Reference	Grid
Scale	0.999954
Convergence at slot	0.65° West
Software System	WellArchitect® 4.0.1
User	Fulmjes
Report Generated	09/Sep/2014 at 8:51:54 AM
Database/Source file	WellArchitect\EasternDB\WEB-22F-HS_AWB.xml

WELLPATH LOCATION							
	Local coordinates			Grid coordinates		Geographic coordinates	
	North[ft]	Eas[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude	
Slot Location	-41.78	14.12	1713939.93	519810.76	39°55'21.735"N	80°31'11.790"W	
Facility Reference Pt			1713925.81	519852.54	39°55'22.147"N	80°31'11.977"W	
Field Reference Pt			609601.22	0.00	38°23'48.753"N	84°21'09.765"W	

WELLPATH DATUM	
Calculation method	Minimum curvature
Horizontal Reference Pt	Slot
Vertical Reference Pt	Precision 542 (RT)
MD Reference Pt	Precision 542 (RT)
Field Vertical Reference	Mean Sea Level
	Precision 542 (RT) to Facility Vertical Datum
	Precision 542 (RT) to Mean Sea Level
	Precision 542 (RT) to Mud Line at Slot (Slot F)
	Section Origin
	Section Azimuth
	18.60ft
	1343.60ft
	18.60ft
	N 0.00, E 0.00 ft
	325.00°

APR 20 2015
 Office of Oil and Gas
 WV Dept. of Environmental Protection



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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot F
Operator	NOBLE ENERGY	Well	WEB-22F-HS
Area	Marshall County, WV	Wellbore	WEB-22F-HS AWB
Field	Marshall		
Facility	WEB-22 Pad		

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
0.00†	0.000	77.930	0.00	0.00	0.00	0.00	1713939.93	519810.76	39°55'21.735"N	80°31'11.790"W	0.00	0.000	0.00
18.60	0.000	77.930	18.60	0.00	0.00	0.00	1713939.93	519810.76	39°55'21.735"N	80°31'11.790"W	0.00	0.000	0.00
56.00	0.960	77.930	56.00	-0.12	0.07	0.31	1713940.24	519810.83	39°55'21.736"N	80°31'11.786"W	0.31	77.930	2.57
147.00	1.270	69.840	146.98	-0.68	0.57	2.00	1713941.93	519811.33	39°55'21.741"N	80°31'11.764"W	2.08	74.016	0.38
243.00	0.840	75.370	242.96	-1.19	1.12	3.68	1713943.61	519811.88	39°55'21.747"N	80°31'11.743"W	3.84	73.109	0.46
311.00	0.760	72.830	310.96	-1.51	1.38	4.59	1713944.52	519812.14	39°55'21.749"N	80°31'11.731"W	4.79	73.318	0.13
337.00	0.890	84.870	336.96	-1.66	1.44	4.96	1713944.89	519812.20	39°55'21.750"N	80°31'11.726"W	5.16	73.750	0.83
397.00	0.740	89.270	396.95	-2.11	1.49	5.81	1713945.74	519812.25	39°55'21.751"N	80°31'11.715"W	6.00	75.600	0.27
429.00	0.330	99.640	428.95	-2.29	1.48	6.11	1713946.04	519812.24	39°55'21.751"N	80°31'11.712"W	6.28	76.387	1.31
460.00	0.790	249.620	459.95	-2.30	1.39	5.99	1713945.92	519812.15	39°55'21.750"N	80°31'11.713"W	6.15	76.950	3.51
491.00	1.880	261.660	490.94	-2.02	1.24	5.29	1713945.22	519812.00	39°55'21.748"N	80°31'11.722"W	5.43	76.797	3.61
521.00	2.490	266.320	520.92	-1.46	1.13	4.15	1713944.08	519811.89	39°55'21.747"N	80°31'11.737"W	4.30	74.806	2.12
552.00	2.440	265.880	551.89	-0.77	1.04	2.82	1713942.75	519811.80	39°55'21.746"N	80°31'11.754"W	3.01	69.824	0.17
612.00	1.800	271.150	581.87	-0.16	1.00	1.71	1713941.64	519811.76	39°55'21.745"N	80°31'11.768"W	1.99	50.732	2.23
645.00	0.710	265.620	644.85	0.68	1.05	0.32	1713940.25	519811.81	39°55'21.746"N	80°31'11.786"W	1.09	16.816	1.90
677.00	0.200	195.200	676.85	0.74	0.98	0.10	1713940.03	519811.74	39°55'21.745"N	80°31'11.789"W	0.98	6.066	2.09
706.00	0.560	140.780	705.85	0.57	0.82	0.18	1713940.11	519811.58	39°55'21.743"N	80°31'11.788"W	0.84	12.415	1.63
740.00	0.940	134.190	739.85	0.13	0.50	0.49	1713940.42	519811.26	39°55'21.740"N	80°31'11.784"W	0.69	44.411	1.14
771.00	1.010	134.540	770.84	-0.39	0.13	0.86	1713940.79	519810.89	39°55'21.737"N	80°31'11.779"W	0.87	81.661	0.23
803.00	1.450	117.050	802.83	-1.03	-0.26	1.42	1713941.35	519810.50	39°55'21.733"N	80°31'11.771"W	1.45	100.175	1.79
834.00	1.620	117.660	833.82	-1.76	-0.64	2.16	1713942.09	519810.12	39°55'21.729"N	80°31'11.762"W	2.25	106.430	0.55
866.00	1.800	100.960	865.81	-2.52	-0.94	3.06	1713942.99	519809.82	39°55'21.726"N	80°31'11.750"W	3.20	107.150	1.65
897.00	1.780	80.040	896.79	-3.08	-0.95	4.01	1713943.94	519809.81	39°55'21.726"N	80°31'11.738"W	4.12	103.365	2.10
929.00	1.930	77.930	928.78	-3.50	-0.75	5.02	1713944.95	519810.01	39°55'21.728"N	80°31'11.725"W	5.08	98.530	0.51
960.00	2.330	65.350	959.76	-3.82	-0.38	6.11	1713946.04	519810.38	39°55'21.732"N	80°31'11.711"W	6.12	93.575	1.98
992.00	2.130	61.970	991.73	-4.00	0.17	7.22	1713947.15	519810.93	39°55'21.738"N	80°31'11.697"W	7.23	88.658	0.75
1023.00	2.130	38.980	1022.71	-3.92	0.89	8.09	1713948.02	519811.65	39°55'21.745"N	80°31'11.686"W	8.14	83.741	2.74
1055.00	2.180	23.590	1054.69	-3.43	1.91	8.71	1713948.64	519812.67	39°55'21.755"N	80°31'11.678"W	8.92	77.648	1.81
1086.00	2.060	6.360	1085.67	-2.71	3.00	9.01	1713948.94	519813.76	39°55'21.766"N	80°31'11.675"W	9.50	71.572	2.08
1118.00	2.330	347.370	1117.64	-1.67	4.21	8.93	1713948.86	519814.97	39°55'21.778"N	80°31'11.676"W	9.87	64.771	2.41
1149.00	2.330	331.900	1148.62	-0.47	5.38	8.50	1713948.43	519816.14	39°55'21.789"N	80°31'11.681"W	10.06	57.662	2.02
1181.00	2.280	315.110	1180.59	0.81	6.40	7.74	1713947.67	519817.16	39°55'21.799"N	80°31'11.691"W	10.05	50.400	2.11
1218.00	2.280	292.780	1217.57	1.93	7.08	6.84	1713946.67	519817.84	39°55'21.806"N	80°31'11.704"W	9.77	43.581	2.85
1238.00	1.900	279.940	1237.55	2.68	7.35	5.84	1713945.77	519818.11	39°55'21.809"N	80°31'11.716"W	9.39	38.433	2.31
1366.00	4.010	219.520	1365.40	2.98	4.27	0.90	1713940.83	519815.03	39°55'21.777"N	80°31'11.779"W	4.36	11.860	2.72
1460.00	4.880	207.200	1459.12	0.24	-1.82	-3.02	1713936.91	519808.94	39°55'21.742"N	80°31'11.828"W	3.53	238.885	1.37
1555.00	4.920	195.450	1553.77	-4.24	-9.35	-5.96	1713933.97	519801.41	39°55'21.677"N	80°31'11.865"W	11.08	212.508	1.06
1649.00	4.520	193.800	1647.45	-9.25	-16.83	-7.91	1713932.02	519793.93	39°55'21.568"N	80°31'11.889"W	18.60	205.184	0.45
1744.00	2.870	194.140	1742.25	-13.27	-22.77	-9.39	1713930.54	519787.99	39°55'21.509"N	80°31'11.907"W	24.63	202.404	1.74
1838.00	2.140	185.580	1836.16	-16.14	-26.80	-10.13	1713929.80	519783.96	39°55'21.469"N	80°31'11.916"W	28.65	200.711	0.87
1928.00	1.440	169.700	1926.12	-18.44	-29.58	-10.09	1713929.84	519781.18	39°55'21.442"N	80°31'11.915"W	31.26	198.839	0.95
2016.00	1.570	165.970	2014.09	-20.57	-31.84	-9.60	1713930.33	519778.92	39°55'21.419"N	80°31'11.908"W	33.26	196.784	0.18
2105.00	2.060	159.660	2103.04	-23.26	-34.52	-8.75	1713931.18	519776.24	39°55'21.393"N	80°31'11.897"W	35.62	194.225	0.59
2194.00	1.650	152.380	2192.00	-26.08	-37.16	-7.60	1713932.33	519773.60	39°55'21.367"N	80°31'11.882"W	37.93	191.562	0.53



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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot F
NOBLE ENERGY	Well	WEB-22F-HIS
Area	Wellbore	WEB-22F-HIS AWB
Field		
Facility		

WELLPATH DATA (220 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [p/100ft]
2284.00	0.590	126.390	2281.98	-27.80	-38.58	-6.63	1713933.30	519772.18	39°55'21.353"N	80°3'11.869"W	39.15	189.748	1.28
2373.00	0.560	337.880	2370.98	-27.81	-38.45	-6.42	1713933.51	519772.31	39°55'21.355"N	80°3'11.867"W	38.98	189.484	1.24
2463.00	1.260	309.490	2460.97	-26.43	-37.41	-7.35	1713932.58	519773.35	39°55'21.365"N	80°3'11.879"W	38.13	191.118	0.90
2552.00	2.050	289.710	2549.93	-24.19	-36.26	-9.61	1713930.32	519774.51	39°55'21.376"N	80°3'11.908"W	37.51	194.840	1.08
2642.00	1.510	272.530	2639.89	-22.15	-35.66	-12.31	1713927.62	519775.10	39°55'21.381"N	80°3'11.942"W	37.72	199.040	0.84
2731.00	0.330	248.330	2728.87	-21.38	-13.72	-13.72	1713926.21	519775.06	39°55'21.381"N	80°3'11.961"W	38.25	201.016	1.37
2821.00	0.870	93.300	2818.87	-21.74	-35.84	-13.27	1713926.66	519774.92	39°55'21.380"N	80°3'11.955"W	38.22	200.325	1.31
2910.00	1.490	78.950	2907.85	-22.63	-11.46	-11.46	1713928.47	519775.11	39°55'21.382"N	80°3'11.932"W	37.45	197.825	0.77
3000.00	1.560	51.440	2997.82	-23.03	-34.67	-9.36	1713930.57	519776.09	39°55'21.392"N	80°3'11.905"W	35.91	195.107	0.81
3090.00	1.640	18.390	3087.79	-22.19	-32.68	-7.99	1713931.94	519778.08	39°55'21.411"N	80°3'11.888"W	33.64	193.745	1.01
3179.00	1.130	313.480	3176.77	-20.57	-30.87	-8.23	1713931.70	519779.89	39°55'21.429"N	80°3'11.891"W	31.95	194.833	1.74
3269.00	1.780	277.300	3266.74	-18.76	-30.08	-10.26	1713929.67	519780.68	39°55'21.437"N	80°3'11.917"W	31.78	198.823	1.22
3371.00	2.030	243.920	3368.69	-17.41	-30.67	-13.45	1713926.48	519780.09	39°55'21.431"N	80°3'11.958"W	33.49	203.682	1.10
3439.00	2.870	233.850	3436.62	-17.26	-32.21	-15.91	1713924.02	519778.55	39°55'21.415"N	80°3'11.989"W	35.92	206.289	1.38
3529.00	5.540	226.980	3526.37	-17.91	-36.50	-20.91	1713919.02	519774.26	39°55'21.372"N	80°3'11.2.053"W	42.06	209.802	3.01
3619.00	4.940	223.940	3616.00	-19.26	-42.26	-26.77	1713913.16	519768.51	39°55'21.315"N	80°3'11.277"W	50.02	212.357	0.73
3708.00	7.160	228.750	3704.50	-20.60	-48.67	-33.60	1713906.33	519762.09	39°55'21.250"N	80°3'11.214"W	59.14	214.620	2.56
3798.00	10.170	226.900	3793.46	-22.33	-57.80	-43.62	1713896.31	519752.96	39°55'21.159"N	80°3'11.234"W	72.42	217.041	3.36
3888.00	14.450	223.360	3881.37	-25.71	-71.40	-57.14	1713882.79	519739.36	39°55'21.023"N	80°3'11.253"W	91.45	218.669	4.83
3977.00	17.900	227.310	3966.84	-29.79	-88.75	-74.82	1713865.11	519722.01	39°55'20.850"N	80°3'11.237"W	116.09	220.132	4.07
4067.00	21.820	226.190	4051.47	-34.20	-109.72	-97.07	1713842.87	519701.05	39°55'20.640"N	80°3'11.309"W	146.49	221.499	4.38
4156.00	24.420	226.180	4133.31	-39.56	-133.91	-122.28	1713817.65	519676.85	39°55'20.398"N	80°3'11.340"W	181.34	222.401	2.92
4246.00	28.870	224.770	4213.74	-46.27	-162.23	-151.02	1713788.91	519648.53	39°55'20.115"N	80°3'11.370"W	221.65	222.950	4.99
4335.00	32.510	227.030	4290.26	-53.41	-193.80	-183.67	1713756.27	519616.97	39°55'19.799"N	80°3'11.419"W	267.00	223.462	4.29
4425.00	37.440	226.480	4363.98	-60.82	-229.14	-221.22	1713718.72	519581.63	39°55'19.446"N	80°3'11.459"W	318.51	223.992	5.49
4515.00	42.720	227.380	4432.82	-68.92	-268.68	-263.56	1713676.39	519542.09	39°55'19.050"N	80°3'11.513"W	376.37	224.448	5.90
4604.00	44.090	225.550	4497.48	-78.01	-310.81	-307.88	1713632.07	519499.96	39°55'18.629"N	80°3'11.569"W	437.48	224.728	2.09
4694.00	44.230	222.480	4562.06	-89.96	-355.89	-351.43	1713588.51	519454.88	39°55'18.179"N	80°3'11.624"W	500.17	224.639	2.38
4784.00	44.280	230.880	4626.57	-99.14	-398.99	-396.97	1713542.98	519411.79	39°55'17.748"N	80°3'11.682"W	562.83	224.855	6.36
4873.00	43.620	238.390	4690.69	-99.66	-434.79	-447.19	1713492.76	519375.99	39°55'17.388"N	80°3'11.746"W	623.72	225.805	6.06
4963.00	45.700	238.070	4754.71	-96.10	-500.97	-500.97	1713438.99	519342.68	39°55'17.053"N	80°3'11.815"W	685.63	226.943	2.32
5052.00	45.720	233.660	4816.87	-95.14	-503.83	-553.67	1713386.28	519306.95	39°55'16.694"N	80°3'11.822"W	748.60	227.699	3.55
5142.00	45.670	228.180	4879.76	-99.72	-544.40	-603.63	1713336.32	519266.38	39°55'16.288"N	80°3'11.945"W	812.86	227.954	4.36
5232.00	44.990	222.330	4943.06	-110.52	-589.41	-649.57	1713290.89	519221.38	39°55'15.838"N	80°3'12.034"W	876.75	227.758	4.68
5321.00	43.510	219.020	5006.81	-125.86	-636.48	-689.55	1713250.41	519174.31	39°55'15.368"N	80°3'12.054"W	938.39	227.292	3.08
5410.00	45.940	222.070	5070.05	-141.46	-684.03	-730.28	1713209.69	519126.76	39°55'14.894"N	80°3'12.106"W	1000.60	226.873	3.64
5500.00	45.410	227.460	5132.96	-152.90	-729.72	-775.57	1713164.39	519081.08	39°55'14.437"N	80°3'12.163"W	1064.90	226.750	4.32
5590.00	45.970	227.630	5195.83	-161.26	-773.19	-823.09	1713116.88	519037.61	39°55'14.002"N	80°3'12.240"W	1129.29	226.790	0.64
5679.00	45.800	232.410	5257.80	-166.80	-814.23	-872.02	1713067.95	518996.57	39°55'13.591"N	80°3'12.282"W	1193.06	226.963	3.86
5769.00	45.880	231.250	5320.50	-170.37	-854.13	-922.78	1713017.19	518956.68	39°55'13.191"N	80°3'12.358"W	1257.40	227.213	0.93
5858.00	45.910	234.320	5382.45	-172.84	-892.77	-973.66	1712966.31	518918.03	39°55'12.803"N	80°3'12.415"W	1321.00	227.482	2.48
5948.00	44.470	233.790	5445.88	-173.89	-930.24	-1025.35	1712914.62	518880.56	39°55'12.427"N	80°3'12.483"W	1384.45	227.784	1.65
6038.00	44.490	233.980	5510.09	-175.12	-967.41	-1076.30	1712863.69	518843.39	39°55'12.054"N	80°3'12.546"W	1447.17	228.050	0.15
6128.00	43.570	232.950	5574.80	-176.79	-1004.65	-1126.56	1712813.43	518806.16	39°55'11.681"N	80°3'12.610"W	1509.45	228.274	1.30
6218.00	41.820	225.340	5640.99	-182.94	-1044.45	-1172.69	1712767.30	518766.36	39°55'11.282"N	80°3'12.687"W	1570.38	228.310	6.05



Actual Wellpath Report
WEB-22F-HS AWP Proj: 17550'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot F
Area	Marshall County, WV	Well	WEB-22F-HS
Field	Marshall	Wellbore	WEB-22F-HS AWB
Facility	WEB-22 Pad		

WELLPATH DATA (220 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [p/100ft]
6307.00	36.200	223.270	5710.12	-193.27	-1084.48	-1211.84	1712728.15	518726.33	39°55'10.882"N	80°31'27.184"W	1626.24	228.175	6.48
6396.00	36.470	235.850	5781.92	-198.23	-1118.51	-1251.80	1712688.19	518692.30	39°55'10.541"N	80°31'27.692"W	1678.72	228.219	8.37
6486.00	40.610	237.990	5852.30	-196.30	-1149.07	-1298.80	1712641.19	518661.74	39°55'10.234"N	80°31'28.290"W	1734.14	228.500	4.83
6576.00	41.990	234.960	5919.92	-194.80	-1181.89	-1348.29	1712591.19	518628.93	39°55'09.904"N	80°31'28.921"W	1792.97	228.763	2.70
6665.00	41.480	232.450	5986.34	-196.13	-1216.95	-1396.04	1712543.96	518593.87	39°55'09.552"N	80°31'29.528"W	1851.99	228.921	1.96
6755.00	44.230	232.790	6052.31	-198.66	-1254.10	-1444.68	1712495.32	518556.72	39°55'09.180"N	80°31'30.147"W	1913.08	229.039	3.07
6844.00	44.060	234.070	6116.18	-200.36	-1291.03	-1494.46	1712445.54	518519.79	39°55'08.809"N	80°31'30.781"W	1974.88	229.177	1.02
6934.00	43.950	232.680	6180.91	-202.14	-1328.33	-1544.64	1712395.37	518482.49	39°55'08.435"N	80°31'31.419"W	2037.24	229.306	1.08
6975.00	44.280	232.800	6210.35	-203.26	-1345.61	-1567.35	1712372.65	518465.22	39°55'08.262"N	80°31'31.708"W	2065.73	229.353	0.83
7018.00	44.370	232.290	6241.11	-204.55	-1363.88	-1591.20	1712348.80	518446.95	39°55'08.078"N	80°31'32.011"W	2095.73	229.399	0.85
7107.00	44.510	231.600	6304.66	-207.87	-1402.29	-1640.27	1712299.74	518408.54	39°55'07.693"N	80°31'32.635"W	2157.98	229.472	0.56
7197.00	44.510	231.590	6368.85	-211.62	-1441.48	-1689.70	1712250.31	518369.35	39°55'07.300"N	80°31'33.264"W	2221.03	229.533	0.01
7287.00	44.910	240.960	6432.88	-210.19	-1476.54	-1742.26	1712197.76	518334.29	39°55'06.948"N	80°31'33.933"W	2283.77	229.719	7.33
7376.00	47.790	255.430	6494.48	-195.38	-1500.15	-1801.80	1712138.21	518310.68	39°55'06.708"N	80°31'34.694"W	2344.56	230.220	12.18
7466.00	47.490	260.450	6555.14	-169.48	-1514.04	-1866.80	1712073.22	518296.79	39°55'06.563"N	80°31'35.526"W	2403.59	230.957	4.13
7555.00	49.320	269.590	6614.29	-136.19	-1519.74	-1932.98	1712007.05	518291.10	39°55'06.500"N	80°31'36.375"W	2458.86	231.825	7.95
7645.00	52.330	278.470	6671.20	-92.24	-1514.73	-2002.43	1711937.59	518296.11	39°55'06.541"N	80°31'37.267"W	2510.80	232.195	8.34
7734.00	56.750	287.110	6722.89	-38.55	-1498.56	-2072.96	1711867.07	518312.27	39°55'06.693"N	80°31'38.174"W	2557.90	232.137	9.33
7824.00	62.210	292.820	6768.60	24.93	-1472.01	-2145.72	1711794.31	518338.82	39°55'06.947"N	80°31'39.112"W	2602.10	235.549	8.16
7914.00	68.380	298.580	6806.23	96.21	-1436.50	-2219.28	1711720.76	518374.33	39°55'07.290"N	80°31'40.061"W	2643.62	237.086	8.99
8003.00	72.990	305.510	6835.69	173.50	-1391.92	-2290.36	1711649.68	518418.99	39°55'07.722"N	80°31'40.980"W	2680.15	238.712	8.99
8093.00	78.130	311.940	6858.15	257.10	-1337.40	-2358.26	1711581.79	518473.42	39°55'08.253"N	80°31'41.859"W	2711.09	240.442	8.97
8183.00	81.540	318.750	6874.04	344.37	-1274.42	-2420.45	1711519.60	518536.40	39°55'08.869"N	80°31'42.666"W	2735.46	242.232	8.36
8272.00	86.800	324.140	6883.09	432.68	-1205.22	-2475.58	1711464.47	518605.60	39°55'09.508"N	80°31'43.384"W	2753.37	244.041	8.44
8317.00	90.000	326.220	6884.34	477.65	-1168.29	-2501.26	1711438.79	518642.52	39°55'09.988"N	80°31'43.719"W	2760.65	244.964	8.48
8362.00	90.920	326.930	6883.98	522.63	-1130.74	-2526.05	1711414.01	518680.08	39°55'10.277"N	80°31'44.043"W	2767.58	245.885	2.58
8451.00	91.140	326.880	6882.38	611.57	-1056.19	-2574.63	1711365.42	518754.62	39°55'11.008"N	80°31'44.677"W	2782.85	247.695	0.25
8541.00	91.140	325.260	6880.59	701.53	-981.53	-2624.86	1711315.20	518829.28	39°55'11.740"N	80°31'45.333"W	2802.37	249.497	1.80
8630.00	91.080	321.830	6878.87	790.47	-909.97	-2677.72	1711262.33	518900.83	39°55'12.441"N	80°31'46.022"W	2828.12	252.231	3.85
8720.00	90.580	316.800	6877.56	879.99	-841.75	-2736.37	1711203.69	518969.05	39°55'13.109"N	80°31'46.784"W	2862.91	252.901	5.62
8809.00	90.460	317.790	6876.76	968.19	-776.35	-2796.73	1711143.34	519034.44	39°55'13.748"N	80°31'47.569"W	2902.48	254.486	1.12
8899.00	90.710	321.520	6875.84	1057.77	-707.78	-2854.98	1711085.09	519103.02	39°55'14.419"N	80°31'48.326"W	2941.40	256.077	4.15
8989.00	90.280	322.440	6875.35	1147.63	-637.03	-2910.61	1711029.46	519173.76	39°55'15.112"N	80°31'49.051"W	2979.51	257.655	0.82
9078.00	89.350	324.440	6875.55	1236.58	-565.70	-2963.82	1710976.00	519245.85	39°55'15.811"N	80°31'49.744"W	3017.32	259.194	2.81
9167.00	90.490	326.790	6875.47	1325.57	-492.26	-3014.08	1710926.00	519318.53	39°55'16.531"N	80°31'50.400"W	3054.01	260.724	2.93
9257.00	90.430	324.530	6874.75	1415.56	-417.95	-3064.84	1710875.24	519392.83	39°55'17.259"N	80°31'51.062"W	3093.21	262.235	2.51
9347.00	90.620	323.980	6873.92	1505.54	-344.91	-3117.42	1710825.66	519468.82	39°55'17.975"N	80°31'51.748"W	3136.44	263.687	0.65
9436.00	89.750	326.150	6873.64	1594.54	-271.95	-3168.38	1710771.70	519538.82	39°55'18.690"N	80°31'52.413"W	3180.03	265.094	2.63
9526.00	90.800	327.630	6873.20	1684.48	-196.57	-3217.54	1710722.55	519614.20	39°55'19.430"N	80°31'53.055"W	3223.54	266.504	2.02
9615.00	90.920	328.820	6871.87	1773.33	-120.92	-3264.40	1710675.69	519689.85	39°55'20.172"N	80°31'53.667"W	3266.64	267.879	1.34
9705.00	90.800	331.800	6870.45	1862.92	-42.75	-3308.96	1710631.12	519768.01	39°55'20.939"N	80°31'54.251"W	3309.24	269.260	3.31
9795.00	90.920	329.660	6869.03	1952.46	35.74	-3352.96	1710587.13	519846.50	39°55'21.710"N	80°31'54.827"W	3353.15	270.611	2.38
9885.00	90.920	328.820	6867.58	2042.20	-113.07	-3398.98	1710541.11	519923.83	39°55'22.469"N	80°31'55.429"W	3400.86	271.905	0.93
9974.00	90.620	327.950	6866.38	2131.03	188.85	-3445.65	1710494.45	519999.60	39°55'23.212"N	80°31'56.039"W	3450.82	273.137	1.06
10064.00	90.430	325.580	6865.56	2220.98	264.11	-3494.98	1710445.12	520074.86	39°55'23.951"N	80°31'56.683"W	3504.94	274.322	2.62



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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot F
Area	Marshall County, WV	Well	WEB-22F-HS
Field	Marshall	Wellbore	WEB-22F-HS AWB
Facility	WEB-22 Pad		

WELLPATH DATA (220 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
10153.00	90.400	322.840	6864.91	2309.96	336.29	-3547.02	1710393.08	520147.04	39°55'24.658"N	80°31'57.362"W	3562.93	275.416	3.08
10243.00	90.460	323.730	6864.24	2399.92	408.44	-3600.83	1710319.28	520219.18	39°55'25.365"N	80°31'58.063"W	3623.92	276.471	0.99
10333.00	90.430	326.270	6863.54	2489.91	482.15	-3653.44	1710240.66	520292.89	39°55'26.087"N	80°31'58.736"W	3684.13	277.520	2.82
10422.00	90.370	329.180	6862.92	2578.80	557.39	-3699.96	1710240.15	520368.12	39°55'26.826"N	80°31'59.357"W	3741.71	278.567	3.27
10512.00	90.250	327.310	6862.43	2668.65	633.91	-3747.32	1710192.79	520444.64	39°55'27.576"N	80°31'59.976"W	3800.56	279.602	2.08
10602.00	90.340	321.100	6861.97	2758.63	707.80	-3798.67	1710141.44	520518.53	39°55'28.301"N	80°32'00.646"W	3864.05	280.555	4.68
10691.00	90.000	319.810	6861.70	2847.44	777.40	-3854.12	1710086.00	520588.13	39°55'28.982"N	80°32'01.368"W	3931.74	281.404	3.72
10781.00	89.880	320.510	6861.80	2937.12	846.51	-3911.78	1710028.34	520657.23	39°55'29.658"N	80°32'02.118"W	4002.32	282.211	0.79
10871.00	90.060	326.480	6861.84	3027.05	918.82	-3965.29	1709974.83	520729.53	39°55'30.367"N	80°32'02.816"W	4070.35	283.046	6.64
10960.00	90.490	320.750	6861.42	3115.85	994.78	-4011.63	1709928.49	520805.49	39°55'31.112"N	80°32'03.422"W	4133.13	283.927	4.82
11050.00	90.520	331.060	6860.62	3205.37	1071.42	-4055.39	1709884.73	520884.13	39°55'31.884"N	80°32'03.995"W	4195.05	284.826	0.35
11140.00	90.250	330.340	6860.02	3294.92	1151.40	-4099.44	1709840.69	520962.61	39°55'32.655"N	80°32'04.572"W	4258.20	285.695	0.85
11229.00	90.250	330.540	6859.63	3383.52	1229.32	-4143.34	1709796.79	521040.02	39°55'33.415"N	80°32'05.147"W	4321.86	286.525	0.22
11319.00	90.310	327.890	6859.19	3473.27	1306.63	-4189.40	1709750.73	521117.32	39°55'34.174"N	80°32'05.750"W	4388.43	287.322	2.95
11408.00	90.400	326.240	6858.64	3562.20	1381.32	-4237.79	1709702.35	521192.01	39°55'34.906"N	80°32'06.382"W	4457.23	288.054	1.86
11498.00	90.370	325.970	6858.04	3652.19	1456.02	-4287.98	1709652.16	521266.71	39°55'35.639"N	80°32'07.037"W	4528.44	288.755	0.30
11588.00	90.490	325.290	6857.36	3742.18	1530.31	-4338.78	1709601.36	521340.99	39°55'36.367"N	80°32'07.700"W	4600.75	289.428	0.77
11677.00	90.460	322.100	6856.62	3831.14	1602.02	-4391.47	1709548.67	521412.70	39°55'37.070"N	80°32'08.387"W	4674.55	290.042	3.58
11767.00	90.150	321.420	6856.14	3920.99	1672.70	-4447.17	1709492.97	521483.38	39°55'37.762"N	80°32'09.112"W	4751.35	290.613	0.83
11856.00	90.310	320.940	6855.79	4009.80	1742.05	-4502.97	1709437.18	521552.72	39°55'38.441"N	80°32'09.839"W	4828.19	291.150	0.57
11946.00	90.180	319.940	6855.40	4099.51	1811.43	-4560.28	1709379.86	521622.10	39°55'39.120"N	80°32'10.584"W	4906.88	291.664	1.12
12036.00	90.620	319.680	6854.77	4189.14	1880.18	-4618.36	1709321.79	521690.85	39°55'39.793"N	80°32'11.340"W	4986.42	292.152	0.57
12125.00	90.740	321.180	6853.72	4277.84	1948.78	-4675.05	1709265.10	521759.45	39°55'40.464"N	80°32'12.078"W	5064.96	292.629	1.69
12215.00	90.800	321.400	6852.51	4367.65	2019.00	-4731.33	1709208.83	521829.66	39°55'41.152"N	80°32'12.811"W	5144.11	293.109	0.25
12304.00	90.550	321.460	6851.46	4456.47	2088.58	-4786.81	1709153.34	521899.24	39°55'41.833"N	80°32'13.533"W	5222.62	293.573	0.29
12394.00	90.400	321.140	6850.71	4546.28	2158.82	-4843.08	1709097.08	521969.47	39°55'42.521"N	80°32'14.266"W	5302.45	294.025	0.39
12483.00	90.490	322.380	6850.02	4635.13	2228.72	-4898.17	1709042.00	522039.37	39°55'43.205"N	80°32'14.983"W	5381.38	294.466	1.40
12573.00	90.400	322.470	6849.32	4725.04	2300.04	-4953.05	1708987.12	522109.69	39°55'43.904"N	80°32'15.698"W	5461.03	294.909	0.14
12662.00	90.520	322.880	6848.61	4813.96	2370.82	-5007.01	1708933.16	522181.46	39°55'44.597"N	80°32'16.401"W	5539.94	295.338	0.48
12752.00	90.490	324.310	6847.81	4903.93	2443.25	-5060.42	1708879.75	522253.89	39°55'45.306"N	80°32'17.097"W	5619.37	295.772	1.59
12841.00	90.520	326.610	6847.03	4992.92	2516.55	-5110.88	1708826.10	522327.19	39°55'46.025"N	80°32'17.756"W	5696.85	296.215	2.58
12931.00	90.370	328.500	6846.33	5082.82	2592.50	-5159.16	1708781.02	522403.13	39°55'46.770"N	80°32'18.387"W	5773.90	296.680	2.11
13021.00	90.120	328.900	6845.95	5172.63	2669.40	-5205.91	1708734.26	522480.03	39°55'47.525"N	80°32'18.998"W	5850.40	297.147	0.52
13110.00	90.340	328.700	6845.58	5261.44	2748.52	-5252.02	1708688.16	522556.15	39°55'48.242"N	80°32'19.601"W	5926.35	297.599	0.33
13200.00	90.310	327.500	6845.09	5351.30	2821.97	-5299.52	1708640.67	522632.59	39°55'48.922"N	80°32'20.222"W	6004.03	298.035	1.23
13289.00	90.220	325.610	6844.67	5440.26	2896.26	-5348.51	1708591.68	522706.88	39°55'49.750"N	80°32'20.862"W	6082.34	298.436	2.23
13379.00	90.400	325.860	6844.18	5530.21	2970.64	-5399.18	1708541.01	522781.26	39°55'50.479"N	80°32'21.524"W	6162.45	298.820	0.34
13469.00	90.400	327.060	6843.55	5620.21	3045.65	-5448.90	1708491.29	522856.27	39°55'51.215"N	80°32'22.173"W	6242.32	299.203	1.33
13558.00	90.220	329.660	6843.07	5709.05	3121.42	-5495.58	1708444.61	522932.03	39°55'51.958"N	80°32'22.784"W	6320.18	299.596	2.93
13648.00	90.400	330.440	6842.58	5798.20	3199.40	-5540.52	1708399.68	523010.00	39°55'52.724"N	80°32'23.372"W	6397.93	300.004	0.89
13738.00	90.250	330.560	6842.07	5888.29	3277.73	-5584.83	1708355.36	523088.33	39°55'53.493"N	80°32'23.952"W	6475.64	300.409	0.21
13828.00	90.220	329.890	6841.70	5977.91	3355.84	-5629.53	1708310.67	523166.44	39°55'54.260"N	80°32'24.538"W	6553.87	300.800	0.75
13917.00	90.150	330.150	6841.41	6066.57	3432.94	-5674.00	1708266.20	523243.53	39°55'55.016"N	80°32'25.120"W	6631.69	301.175	0.30
14007.00	90.430	325.500	6840.96	6156.43	3509.09	-5721.91	1708218.29	523319.68	39°55'55.764"N	80°32'25.746"W	6712.23	301.520	5.18
14096.00	90.430	322.660	6840.29	6245.41	3581.16	-5774.12	1708166.09	523391.75	39°55'56.470"N	80°32'26.427"W	6794.49	301.808	3.19



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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot F
Area	Marshall County, WV	Well	WEB-22F-HS
Field	Marshall	Wellbore	WEB-22F-HS_AWB
Facility	WEB-22 Pad		

WELLPATH DATA (220 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dr [ft]	DLS [p/100ft]
14186.00	90.400	321.440	6839.64	6335.29	3652.12	-5829.46	1708110.75	523462.71	39°55'57.165"N	80°32'27.148"W	6879.00	302.067	1.36
14275.00	90.430	321.380	6838.99	6424.11	3721.69	-5884.97	1708055.24	523532.27	39°55'57.846"N	80°32'27.871"W	6963.04	302.309	0.08
14365.00	90.460	321.600	6838.30	6513.94	3792.11	-5941.01	1707999.20	523602.69	39°55'58.535"N	80°32'28.601"W	7048.10	302.550	0.25
14455.00	90.430	320.170	6837.60	6603.70	3861.94	-5997.90	1707942.43	523672.51	39°55'59.219"N	80°32'29.340"W	7133.58	302.777	1.59
14544.00	90.580	320.650	6836.81	6692.41	3930.52	-6054.50	1707885.72	523741.09	39°55'59.890"N	80°32'30.078"W	7218.45	302.991	0.57
14634.00	90.430	323.480	6836.02	6782.28	4001.49	-6109.82	1707830.40	523811.06	39°56'00.585"N	80°32'30.799"W	7303.55	303.222	3.15
14723.00	91.020	324.140	6834.89	6871.25	4073.31	-6162.37	1707777.86	523883.88	39°56'01.289"N	80°32'31.484"W	7386.93	303.465	0.99
14813.00	90.980	324.650	6833.32	6961.24	4146.48	-6214.76	1707725.47	523957.04	39°56'02.006"N	80°32'32.167"W	7471.04	303.711	0.57
14902.00	90.680	325.000	6832.03	7050.23	4219.22	-6266.02	1707674.21	524029.78	39°56'02.719"N	80°32'32.836"W	7554.13	303.954	0.52
14991.00	90.740	324.200	6830.93	7139.22	4291.76	-6317.58	1707622.66	524102.31	39°56'03.430"N	80°32'33.509"W	7637.47	304.190	0.90
15081.00	90.710	323.980	6829.79	7229.20	4364.65	-6370.36	1707569.88	524175.20	39°56'04.144"N	80°32'34.197"W	7722.15	304.417	0.25
15171.00	90.580	323.410	6828.78	7319.17	4437.17	-6423.64	1707516.60	524247.72	39°56'04.854"N	80°32'34.892"W	7807.15	304.635	0.65
15260.00	90.550	322.690	6827.90	7408.11	4508.29	-6477.14	1707463.10	524318.84	39°56'05.551"N	80°32'35.589"W	7891.64	304.839	0.81
15350.00	90.580	323.150	6827.01	7498.05	4580.09	-6531.40	1707408.84	524390.63	39°56'06.254"N	80°32'36.296"W	7977.24	305.040	0.51
15440.00	90.770	323.910	6825.95	7588.01	4652.46	-6584.89	1707355.35	524463.00	39°56'06.963"N	80°32'36.994"W	8062.64	305.243	0.87
15529.00	90.710	323.660	6824.80	7676.98	4724.26	-6637.47	1707302.78	524534.79	39°56'07.667"N	80°32'37.679"W	8147.06	305.442	0.29
15618.00	90.310	325.390	6823.77	7765.94	4795.75	-6690.47	1707249.78	524606.28	39°56'08.367"N	80°32'38.370"W	8231.75	305.633	0.49
15708.00	90.520	323.920	6822.87	7855.91	4868.16	-6743.91	1707196.34	524678.69	39°56'09.077"N	80°32'39.067"W	8317.41	305.824	0.77
15798.00	90.520	323.740	6822.06	7945.89	4940.81	-6797.02	1707143.23	524751.33	39°56'09.788"N	80°32'39.760"W	8403.04	306.014	0.20
15887.00	90.650	325.400	6821.15	8034.88	5013.32	-6848.61	1707091.64	524823.84	39°56'10.499"N	80°32'40.433"W	8487.46	306.205	1.87
15977.00	90.310	325.390	6820.40	8124.87	5087.40	-6899.72	1707040.54	524897.92	39°56'11.225"N	80°32'41.100"W	8572.50	306.403	0.38
16066.00	90.460	325.770	6819.80	8213.87	5160.81	-6950.03	1706990.23	524971.33	39°56'11.945"N	80°32'41.757"W	8656.61	306.596	0.46
16156.00	90.620	325.580	6818.95	8303.86	5235.14	-7000.78	1706939.49	525045.65	39°56'12.673"N	80°32'42.419"W	8741.71	306.789	0.28
16245.00	90.620	325.350	6817.99	8392.85	5308.45	-7051.23	1706888.26	525118.96	39°56'13.392"N	80°32'43.078"W	8826.07	306.974	0.26
16335.00	90.770	325.950	6816.89	8482.83	5382.75	-7102.01	1706838.26	525193.25	39°56'14.121"N	80°32'43.741"W	8911.37	307.159	0.69
16424.00	90.620	325.010	6815.81	8571.82	5456.07	-7152.44	1706787.83	525266.57	39°56'14.839"N	80°32'44.399"W	8995.89	307.337	1.07
16513.00	90.830	325.650	6814.69	8660.81	5529.26	-7203.06	1706737.21	525339.76	39°56'15.557"N	80°32'45.060"W	9080.58	307.511	0.76
16602.00	90.580	325.820	6813.59	8749.80	5602.81	-7253.17	1706687.11	525413.30	39°56'16.278"N	80°32'45.714"W	9165.15	307.685	0.34
16692.00	90.460	326.070	6812.78	8839.78	5677.37	-7303.57	1706636.71	525487.86	39°56'17.009"N	80°32'46.372"W	9250.66	307.859	0.31
16781.00	90.620	326.580	6811.94	8929.76	5751.43	-7353.91	1706586.37	525561.92	39°56'17.735"N	80°32'47.017"W	9335.11	308.032	0.60
16871.00	90.550	326.280	6811.02	9018.72	5826.42	-7402.68	1706537.61	525636.90	39°56'18.470"N	80°32'47.667"W	9420.55	308.205	0.34
16961.00	90.620	326.130	6810.10	9108.70	5901.21	-7452.73	1706487.55	525711.69	39°56'19.204"N	80°32'48.320"W	9506.18	308.373	0.18
17050.00	90.620	327.150	6809.11	9197.66	5975.54	-7501.67	1706438.62	525786.01	39°56'19.932"N	80°32'48.960"W	9590.73	308.539	1.15
17140.00	90.710	326.860	6808.05	9287.50	6051.02	-7550.68	1706389.61	525861.49	39°56'20.673"N	80°32'49.600"W	9676.13	308.708	0.33
17229.00	90.740	325.570	6806.92	9376.57	6124.98	-7600.16	1706340.13	525935.45	39°56'21.398"N	80°32'50.246"W	9761.04	308.865	1.45
17318.00	90.650	325.160	6805.84	9465.56	6198.20	-7650.74	1706289.55	526008.67	39°56'22.116"N	80°32'50.907"W	9846.40	309.012	0.47
17408.00	90.620	323.920	6804.84	9555.55	6271.50	-7702.95	1706237.35	526081.96	39°56'22.834"N	80°32'51.588"W	9933.14	309.151	1.38
17497.00	90.620	323.360	6803.88	9644.52	6343.17	-7755.51	1706184.59	526153.63	39°56'23.536"N	80°32'52.276"W	10019.33	309.279	0.63
17527.00	90.550	323.960	6803.57	9674.51	6367.34	-7773.49	1706166.81	526177.79	39°56'23.773"N	80°32'52.508"W	10048.39	309.321	2.01
17550.00	90.550	323.960	6803.35	9697.50	6385.93	-7787.02	1706153.28	526196.39	39°56'23.955"N	80°32'52.684"W	10070.64	309.354	0.00



Actual Wellpath Report
WEB-22F-HS AWP Proj: 17550
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REFERENCE WELLPATH IDENTIFICATION

Operator	Area	Field	Facility	Slot	Slot F
NOBLE ENERGY	Marshall County, WV	Marshall	WEB-22 Pad	Well	WEB-22F-HS
				Wellbore	WEB-22F-HS AWB

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
WEB-22F-HS BHL Rev-2	6885.00	6885.00	6386.54	-7786.98	1706153.32	526196.99	39°56'23.961"N	80°32'52.684"W	point
WEB-22F-HS LP Rev-2		6885.00	-1214.95	-2464.36	1711475.69	518595.87	39°55'09.451"N	80°31'43.239"W	point

WELLPATH COMPOSITION - Ref Wellbore: WEB-22F-HS AWB Ref Wellpath: WEB-22F-HS AWP Proj: 17550

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.60	397.00	Generic gyro - northseeking (Standard)	01 Gyro Surveys 17 1/2" (56-397)	WEB-22F-HS AWB
397.00	1238.00	Generic gyro - northseeking (Standard)	02 BHI Motor Gyro Surveys 17 1/2" (397)(429-1238) Proj 1293	WEB-22F-HS AWB
1238.00	3371.00	NavITrak (MagCorr)	03 BHI MWD <12-1/4"> (1366-3371)	WEB-22F-HS AWB
3371.00	17527.00	NavITrak (AT Curve Short Spaced)	04 BHI AT Curve <8.3/4"> (3371)(3439-17527)	WEB-22F-HS AWB
17527.00	17550.00	Blind Drilling (std)	Projection to bit	WEB-22F-HS AWB



Actual Wellpath Report
 WEB-22F-HS AWP Proj: 17550
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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot F
Area	Marshall County, WV	Well	WEB-22F-HS
Field	Marshall	Wellbore	WEB-22F-HS AWB
Facility	WEB-22 Pad		

COMMENTS

Wellpath general comments
 API:47-051-01722-0000
 BHI Job #:6260439
 Rig: Precision 542
 Duration:08.17.2014 - 08.31.2014
 Gyro <17-1/2"> (56'-397')
 Gyro (397')(429'-1238)
 BHI MWD <12-1/4"> (1238')(1366'-3371')
 BHI AT Curve <8-3/4"> (3371')(3439'-17527')
 Projected MD at TD: 17550'

Location: Marshall County, WV
 Field: Marshall
 Facility: WEB-22 Pad
 Slot: Slot F
 Well: WEB-22F-HS
 Wellbore: WEB-22F-HS PWB

Grid System: NAD27 (Lambert Azimuthal Equal Area)
 North Reference: Grid North
 Scale: True distance
 Datum: Mean Sea Level (MSL)
 Contours are as shown on the plan view

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
WEB-22 Pad	1713925.010	519852.540	80°31'11.977"W
Slot	Local E (ft)	Local N (ft)	Longitude
-41.78	14.12	1713925.930	80°31'11.790"W
Precision 542 (RT) to Mud line (At Slot Slot F)	18.8ft		
Precision 542 (RT) to Mean Seal Level	13.82ft		

Well Profile Data			
Depth Comment	MD (ft)	Inc (ft)	VS (ft)
Top On	6396.00	36.470	256.850
Prog to Bottom	6421.00	37.090	256.000
Build	6627.41	44.169	232.780
End of Tangent	7295.04	44.169	232.780
Landing Pt	8282.23	90.000	325.000
BH	17561.93	392.000	6588.00

Wellpath Comments			
MD (ft)	X (ft)	Y (ft)	Comment
64.00	0.31	0.07	94.60
429.00	6.11	1.48	428.95
1366.00	0.50	4.27	1365.50
3439.00	-15.91	-10.21	3438.02

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 Office of Oil and Gas
 WV Dept. of Environmental Protection

API:47-051-01722-0000
 BHI Job #:6260439
 Rig: Precision 542
 Duration:08.17.2014 - 08.31.2014

