

Location: Doddridge Co., WV
 Field: Doddridge
 Facility: OXF-97 Pad

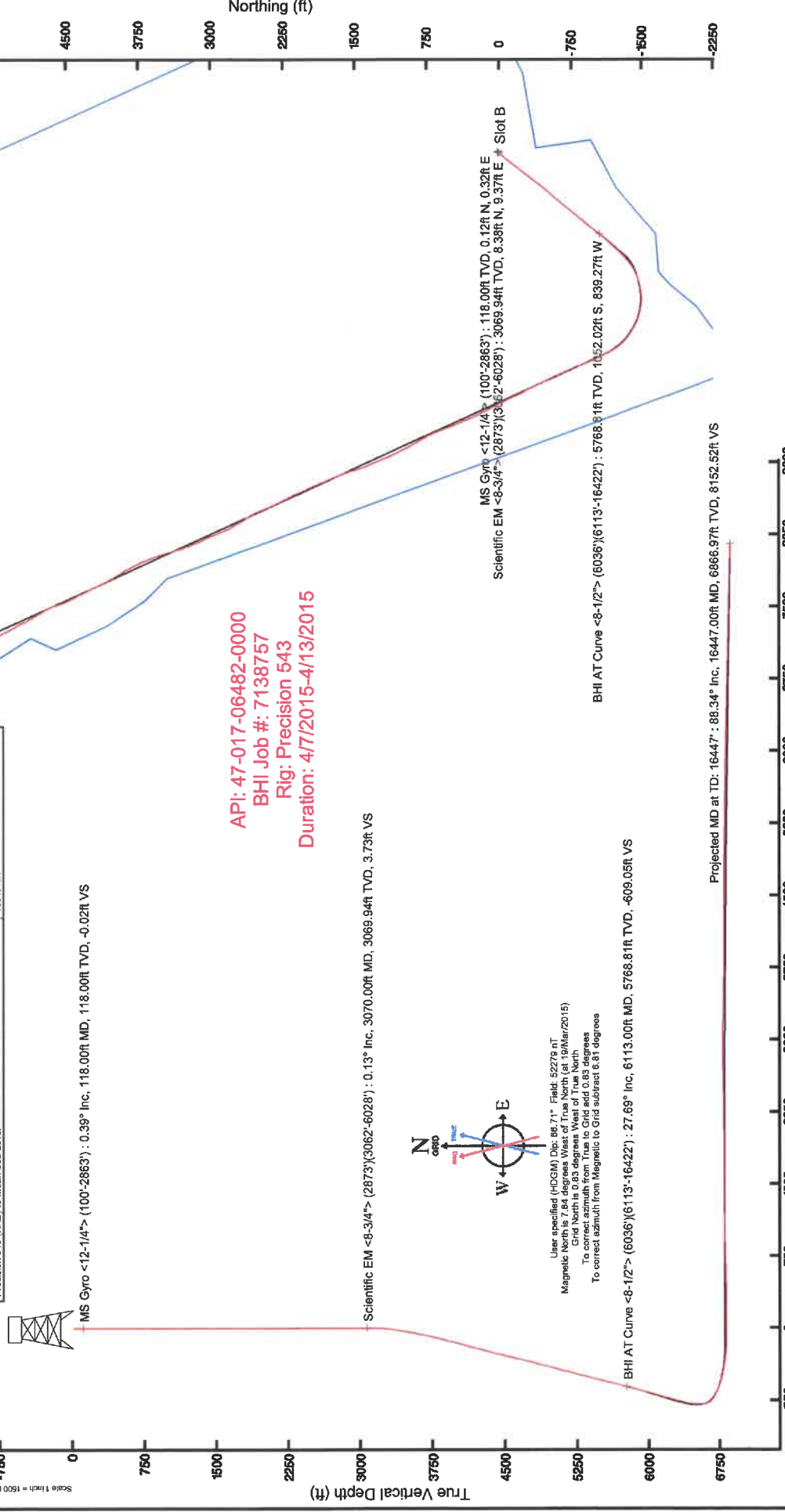
Slot: Slot B
 Well: OXF-97B-HS
 Wellbore: OXF-97B-HS.PWB

Pick reference well(s) is OXF-97B-HS PWB Rev-A-0
 True vertical depths are referenced to Precision 543 (RKB)
 Measured depths are referenced to Precision 543 (RKB)
 Precision 543 (RKB) to Mean Sea Level: 1351.48 feet
 Mean Sea Level to Mud line (At Slot Slot B): 1333.48 feet
 Coordinates are in feet referenced to SNA

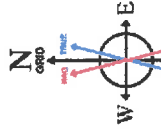
Created in submittal on 2/7/2015

Location Information

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
OXF-97 Pad	1630682.770	269664.280	39°13'59.904"N	80°48'13.960"W
Slot	Local E (ft)	Local N (ft)	Latitude	Longitude
Slot B	-20.01	-0.08	39°13'58.708"N	80°48'13.978"W
Precision 543 (RKB) to Mud line (At Slot Slot B)	180			
Mean Sea Level to Mud line (At Slot Slot B)	-1333.48ft			
Precision 543 (RKB) to Mean Sea Level	1351.48ft			



API: 47-017-06482-0000
 BHI Job #: 7138757
 Rig: Precision 543
 Duration: 4/7/2015-4/13/2015



User specified (HDGM) Dip: 86.71°, Field: 52276.0T
 Magnetic North is 7.84 degrees West of True North (at 19/Mar/2015)
 Grid North is 0.83 degrees West of True North
 To correct azimuth from True to Grid add 0.83 degrees
 To correct azimuth from Magnetic to Grid subtract 6.81 degrees

Scale 1 inch = 1500 ft
 Vertical Section (ft)
 Azimuth 335.49° with reference 0.00 N, 0.00 E



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot B
Area	Doddridge Co., WV	Well	OXF-97B-HS
Field	Doddridge	Wellbore	OXF-97B-HS AWB
Facility	OXF-97 Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 4.0.1
North Reference	Grid	User	Edsaryar
Scale	0.999964	Report Generated	27/Apr/2015 at 10:41
Convergence at slot	0.83° West	Database/Source file	WellArchitectEasternDB/OXF-97B-HS_AWB.xml

WELLPATH LOCATION

	Local coordinates			Grid coordinates			Geographic coordinates		
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude			
Slot Location	-20.01	-0.08	1630662.69	269644.27	39°13'58.706"N	80°48'13.978"W			
Facility Reference Pt			1630662.77	269664.28	39°13'58.904"N	80°48'13.980"W			
Field Reference Pt			609601.22	0.00	38°23'48.753"N	84°21'09.765"W			

WELLPATH DATUM

Calculation method	Minimum curvature	Precision 543 (RKB) to Facility Vertical Datum	1351.48ft
Horizontal Reference Pt	Slot	Precision 543 (RKB) to Mean Sea Level	1351.48ft
Vertical Reference Pt	Precision 543 (RKB)	Precision 543 (RKB) to Mud Line at Slot (Slot B)	18.00ft
MD Reference Pt	Precision 543 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	335.49°



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot B
Area	Doddridge Co., WV	Well	OXF-97B-HS
Field	Doddridge	Wellbore	OXF-97B-HS AWB
Facility	OXF-97 Pad		

WELLPATH DATA (186 stations) † = interpolated/extrapolated station

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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0.00†	0.000	68.550	0.00	0.00	0.00	0.00	1630662.69	269644.27	39°13'58.706"N	80°48'13.978"W	0.00	0.000	0.00	0.00	0.00
18.00	0.000	68.550	18.00	0.00	0.00	0.00	1630662.69	269644.27	39°13'58.706"N	80°48'13.978"W	0.00	0.000	0.00	0.00	0.00
118.00	0.390	68.550	118.00	-0.02	0.12	0.32	1630663.01	269644.39	39°13'58.707"N	80°48'13.974"W	0.34	68.550	0.39	0.39	0.00
218.00	0.330	54.660	218.00	0.02	0.42	0.87	1630663.56	269644.69	39°13'58.710"N	80°48'13.967"W	0.96	64.432	0.11	-0.06	-13.89
318.00	0.350	38.490	318.00	0.21	0.82	1.29	1630663.98	269645.09	39°13'58.714"N	80°48'13.961"W	1.53	57.591	0.10	0.02	-16.17
418.00	0.420	54.510	417.99	0.42	1.27	1.78	1630664.47	269645.54	39°13'58.719"N	80°48'13.955"W	2.19	54.459	0.13	0.07	16.02
518.00	0.410	65.470	517.99	0.49	1.63	2.41	1630665.10	269645.90	39°13'58.722"N	80°48'13.947"W	2.91	55.812	0.08	-0.01	10.96
618.00	0.370	57.560	617.99	0.53	1.96	3.00	1630665.69	269646.23	39°13'58.726"N	80°48'13.940"W	3.58	56.929	0.07	-0.04	-7.91
718.00	0.260	37.000	717.99	0.69	2.31	3.41	1630666.10	269646.58	39°13'58.729"N	80°48'13.935"W	4.12	55.903	0.16	-0.11	-20.56
818.00	0.210	20.000	817.99	0.93	2.66	3.61	1630666.30	269646.93	39°13'58.733"N	80°48'13.932"W	4.49	53.592	0.09	-0.05	-17.00
918.00	0.160	341.350	917.99	1.19	2.97	3.63	1630666.32	269647.24	39°13'58.736"N	80°48'13.932"W	4.69	50.727	0.13	-0.05	-38.65
1018.00	0.200	327.200	1017.99	1.51	3.25	3.49	1630666.18	269647.52	39°13'58.739"N	80°48'13.934"W	4.77	47.071	0.06	0.04	-14.15
1118.00	0.180	303.640	1117.98	1.81	3.48	3.27	1630665.96	269647.75	39°13'58.741"N	80°48'13.937"W	4.77	43.171	0.08	-0.02	-23.56
1218.00	0.180	295.150	1217.98	2.07	3.63	2.99	1630665.68	269647.90	39°13'58.742"N	80°48'13.940"W	4.71	39.466	0.03	0.00	-8.49
1318.00	0.210	298.920	1317.98	2.33	3.79	2.69	1630665.38	269648.06	39°13'58.744"N	80°48'13.944"W	4.65	35.365	0.03	0.03	3.77
1418.00	0.210	291.340	1417.98	2.61	3.95	2.36	1630665.05	269648.22	39°13'58.745"N	80°48'13.948"W	4.60	30.875	0.03	0.00	-7.58
1518.00	0.230	341.830	1517.98	2.94	4.20	2.13	1630664.82	269648.47	39°13'58.748"N	80°48'13.951"W	4.71	26.829	0.19	0.02	50.49
1618.00	0.070	332.860	1617.98	3.20	4.45	2.04	1630664.73	269648.72	39°13'58.750"N	80°48'13.953"W	4.89	24.587	0.16	-0.16	-8.97
1718.00	0.270	86.900	1717.98	3.18	4.52	2.24	1630664.93	269648.78	39°13'58.751"N	80°48'13.950"W	5.04	26.414	0.31	0.20	114.04
1818.00	0.400	91.840	1817.98	2.94	4.52	2.83	1630665.52	269648.79	39°13'58.751"N	80°48'13.943"W	5.33	32.041	0.13	0.13	4.94
1918.00	0.540	77.120	1917.98	2.69	4.61	3.64	1630666.32	269648.88	39°13'58.752"N	80°48'13.932"W	5.87	38.254	0.18	0.14	-14.72
2018.00	0.630	68.180	2017.97	2.57	4.92	4.60	1630667.29	269649.19	39°13'58.755"N	80°48'13.920"W	6.74	43.106	0.13	0.09	-8.94
2118.00	0.600	60.850	2117.97	2.58	5.38	5.57	1630668.26	269649.65	39°13'58.760"N	80°48'13.908"W	7.75	46.011	0.08	-0.03	-7.33
2218.00	0.490	58.350	2217.96	2.68	5.86	6.39	1630669.08	269650.13	39°13'58.765"N	80°48'13.898"W	8.67	47.501	0.11	-0.11	-2.50
2318.00	0.540	71.790	2317.96	2.68	6.23	7.21	1630669.90	269650.50	39°13'58.769"N	80°48'13.887"W	9.53	49.151	0.13	0.05	13.44
2418.00	0.640	33.270	2417.95	2.93	6.84	7.96	1630670.65	269651.11	39°13'58.775"N	80°48'13.878"W	10.50	49.307	0.40	0.10	-38.52
2518.00	0.350	34.060	2517.95	3.38	7.56	8.44	1630671.13	269651.83	39°13'58.782"N	80°48'13.872"W	11.33	48.121	0.29	-0.29	0.79
2618.00	0.230	51.280	2617.95	3.59	7.94	8.76	1630671.45	269652.21	39°13'58.786"N	80°48'13.868"W	11.83	47.815	0.15	-0.12	17.22
2718.00	0.260	85.960	2717.95	3.56	8.08	9.15	1630671.84	269652.35	39°13'58.787"N	80°48'13.863"W	12.21	48.529	0.15	0.03	34.68
2818.00	0.300	92.040	2817.94	3.36	8.09	9.64	1630672.33	269652.36	39°13'58.787"N	80°48'13.857"W	12.58	49.978	0.05	0.04	6.08



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REFERENCE WELLPATH IDENTIFICATION

	Slot	Slot B
Operator	NOBLE ENERGY	
Area	Doddridge Co., WV	OXF-97B-HS
Field	Doddridge	OXF-97B-HS AWB
Facility	OXF-97 Pad	

WELLPATH DATA (186 stations)

MD [ft]	Inclination [°]	Azinuth [°]	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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
2881.00	0.260	282.360	2880.94	3.38	8.12	9.66	1630672.35	269652.39	39°13'58.788"N	80°48'13.856"W	12.62	49.966	0.89	-0.06	-269.33
3070.00	0.130	37.640	3069.94	3.73	8.38	9.37	1630672.06	269652.65	39°13'58.790"N	80°48'13.860"W	12.57	48.209	0.18	-0.07	60.99
3100.00	0.480	231.200	3099.94	3.72	8.33	9.30	1630671.99	269652.60	39°13'58.790"N	80°48'13.861"W	12.48	48.150	2.02	1.17	-554.80
3130.00	1.960	218.450	3129.94	3.46	7.85	8.88	1630671.57	269652.11	39°13'58.785"N	80°48'13.866"W	11.85	48.536	4.99	4.93	-42.50
3160.00	3.840	217.320	3159.90	2.75	6.64	7.95	1630670.64	269650.91	39°13'58.773"N	80°48'13.878"W	10.36	50.113	6.27	6.27	-3.77
3190.00	6.010	216.350	3189.78	1.51	4.58	6.41	1630669.10	269648.85	39°13'58.752"N	80°48'13.897"W	7.88	54.453	7.24	7.23	-3.23
3251.00	10.480	216.430	3250.14	-2.74	-2.46	1.22	1630663.91	269641.81	39°13'58.682"N	80°48'13.962"W	2.74	153.601	7.33	7.33	0.13
3341.00	16.280	216.790	3337.66	-12.79	-19.16	-11.21	1630651.48	269625.11	39°13'58.515"N	80°48'14.117"W	22.20	210.320	6.45	6.44	0.40
3435.00	20.340	218.880	3426.88	-26.44	-42.44	-29.36	1630633.33	269601.83	39°13'58.282"N	80°48'14.343"W	51.61	214.674	4.37	4.32	2.22
3526.00	22.260	218.320	3511.66	-41.39	-68.28	-49.97	1630612.72	269576.00	39°13'58.024"N	80°48'14.600"W	84.61	216.202	2.12	2.11	-0.62
3618.00	23.890	218.800	3596.30	-57.72	-96.47	-72.45	1630590.24	269547.81	39°13'57.742"N	80°48'14.881"W	120.65	216.909	1.78	1.77	0.52
3709.00	26.380	219.560	3678.67	-74.84	-126.42	-96.88	1630565.81	269517.85	39°13'57.443"N	80°48'15.185"W	159.27	217.464	2.76	2.74	0.84
3800.00	28.290	219.050	3759.51	-93.28	-158.76	-123.34	1630539.35	269485.52	39°13'57.119"N	80°48'15.516"W	201.04	217.845	2.11	2.10	-0.56
3891.00	28.890	219.170	3839.41	-112.63	-192.55	-150.81	1630511.88	269451.73	39°13'56.781"N	80°48'15.859"W	244.58	218.070	0.66	0.66	0.13
3981.00	28.820	217.910	3918.24	-132.31	-226.52	-177.87	1630484.82	269417.76	39°13'56.442"N	80°48'16.196"W	288.01	218.141	0.68	-0.08	-1.40
4072.00	28.260	216.220	3998.18	-153.00	-261.20	-204.08	1630458.62	269383.08	39°13'56.095"N	80°48'16.523"W	331.47	218.001	1.08	-0.62	-1.86
4163.00	28.870	217.000	4078.11	-174.01	-296.13	-230.03	1630432.67	269348.15	39°13'55.746"N	80°48'16.846"W	374.97	217.840	0.79	0.67	0.86
4255.00	30.510	217.930	4158.03	-195.41	-332.29	-257.76	1630404.94	269312.00	39°13'55.385"N	80°48'17.192"W	420.54	217.801	1.85	1.78	1.01
4345.00	30.120	216.480	4235.72	-216.94	-368.47	-285.23	1630377.48	269275.82	39°13'55.024"N	80°48'17.534"W	465.96	217.743	0.92	-0.43	-1.61
4436.00	29.290	216.940	4314.76	-238.65	-404.62	-312.18	1630350.52	269239.67	39°13'54.662"N	80°48'17.870"W	511.05	217.652	0.95	-0.91	0.51
4528.00	28.820	218.660	4395.18	-259.41	-439.92	-339.56	1630323.15	269204.37	39°13'54.310"N	80°48'18.211"W	555.72	217.663	1.04	-0.51	1.87
4610.00	28.140	218.010	4467.26	-277.26	-470.59	-363.81	1630298.89	269173.70	39°13'54.003"N	80°48'18.514"W	594.82	217.707	0.91	-0.83	-0.79
4701.00	29.610	221.120	4546.95	-296.44	-504.44	-391.81	1630270.89	269139.85	39°13'53.664"N	80°48'18.863"W	638.73	217.838	2.31	1.62	3.42
4792.00	30.270	221.680	4625.81	-314.97	-538.50	-421.85	1630240.86	269105.79	39°13'53.324"N	80°48'19.239"W	684.06	218.074	0.79	0.73	0.62
4882.00	30.350	221.260	4703.50	-333.46	-572.54	-451.93	1630210.78	269071.76	39°13'52.983"N	80°48'19.615"W	729.41	218.286	0.25	0.09	-0.47
4973.00	30.520	220.360	4781.96	-352.71	-607.43	-482.05	1630180.65	269036.87	39°13'52.634"N	80°48'19.991"W	775.46	218.436	0.53	0.19	-0.99
5064.00	31.120	219.470	4860.11	-372.84	-643.19	-511.97	1630150.74	269001.11	39°13'52.276"N	80°48'20.364"W	822.07	218.519	0.83	0.66	-0.98
5155.00	31.830	218.580	4937.72	-394.02	-680.10	-541.88	1630120.83	268964.20	39°13'51.907"N	80°48'20.738"W	869.58	218.547	0.93	0.78	-0.98
5246.00	31.100	218.770	5015.34	-415.44	-717.18	-571.56	1630091.15	268927.11	39°13'51.536"N	80°48'21.108"W	917.08	218.553	0.81	-0.80	0.21
5337.00	30.800	219.520	5093.39	-436.21	-753.48	-601.10	1630061.61	268890.82	39°13'51.173"N	80°48'21.477"W	963.88	218.582	0.54	-0.33	0.82



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REFERENCE WELLPATH IDENTIFICATION

	Slot	Slot B
Operator	NOBLE ENERGY	
Area	Doddridge Co., WV	OXF-97B-HS
Field	Doddridge	OXF-97B-HS AWB
Facility	OXF-97 Pad	

WELLPATH DATA (186 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
5428.00	29.520	218.910	5172.07	-456.45	-788.90	-630.01	1630032.70	268855.40	39°13'50.819"N	80°48'21.837"W	1009.59	218.611	1.45	-1.41	-0.67
5518.00	29.660	218.290	5250.33	-476.55	-823.63	-657.74	1630004.98	268820.67	39°13'50.472"N	80°48'22.183"W	1054.03	218.610	0.37	0.16	-0.69
5612.00	29.690	218.300	5332.00	-497.82	-860.15	-686.58	1629976.14	268784.15	39°13'50.107"N	80°48'22.543"W	1100.57	218.597	0.03	0.03	0.01
5703.00	29.340	219.590	5411.19	-517.85	-895.02	-714.75	1629947.96	268749.28	39°13'49.758"N	80°48'22.895"W	1145.40	218.610	0.80	-0.38	1.42
5794.00	30.040	219.740	5490.24	-537.49	-929.72	-743.52	1629919.19	268714.59	39°13'49.411"N	80°48'23.254"W	1190.46	218.650	0.77	0.77	0.16
5884.00	29.820	219.250	5568.24	-557.17	-964.37	-772.08	1629890.64	268679.94	39°13'49.064"N	80°48'23.610"W	1235.36	218.681	0.37	-0.24	-0.54
5975.00	29.590	217.830	5647.28	-577.60	-999.64	-800.18	1629862.54	268644.67	39°13'48.712"N	80°48'23.961"W	1280.45	218.676	0.81	-0.25	-1.56
6036.00	28.020	216.380	5700.73	-591.57	-1023.07	-817.92	1629844.80	268621.24	39°13'48.478"N	80°48'24.182"W	1309.83	218.641	2.82	-2.57	-2.38
6113.00	27.690	216.450	5768.81	-609.05	-1052.02	-839.27	1629823.45	268592.29	39°13'48.189"N	80°48'24.448"W	1345.78	218.582	0.43	-0.43	0.09
6203.00	31.350	218.270	5847.12	-629.92	-1087.24	-866.21	1629796.52	268557.08	39°13'47.837"N	80°48'24.784"W	1390.11	218.545	4.19	4.07	2.02
6292.00	34.990	222.710	5921.61	-650.40	-1124.18	-897.87	1629764.85	268520.13	39°13'47.467"N	80°48'25.179"W	1438.73	218.614	4.91	4.09	4.99
6382.00	35.070	222.430	5995.31	-670.51	-1162.23	-932.82	1629729.91	268482.09	39°13'47.086"N	80°48'25.616"W	1490.27	218.751	0.20	0.09	-0.31
6471.00	35.560	222.500	6067.93	-690.64	-1200.18	-967.55	1629695.17	268444.14	39°13'46.706"N	80°48'26.050"W	1541.62	218.875	0.55	0.55	0.08
6561.00	35.670	221.070	6141.10	-711.71	-1239.26	-1002.47	1629660.25	268405.06	39°13'46.315"N	80°48'26.487"W	1593.96	218.970	0.93	0.12	-1.59
6650.00	35.620	223.520	6213.43	-732.13	-1277.61	-1037.37	1629625.36	268366.70	39°13'45.931"N	80°48'26.923"W	1645.73	219.075	1.61	-0.06	2.75
6740.00	35.560	224.750	6286.62	-751.20	-1315.20	-1073.84	1629588.89	268329.11	39°13'45.554"N	80°48'27.380"W	1697.91	219.231	0.80	-0.07	1.37
6829.00	37.800	227.560	6357.99	-768.77	-1352.00	-1112.20	1629550.54	268292.32	39°13'45.185"N	80°48'27.860"W	1750.68	219.442	3.14	2.52	3.16
6919.00	40.860	232.820	6427.62	-783.73	-1388.42	-1156.03	1629506.70	268255.90	39°13'44.818"N	80°48'28.410"W	1806.68	219.782	5.03	3.40	5.84
7008.00	45.200	240.840	6492.71	-792.68	-1421.44	-1206.86	1629455.87	268222.89	39°13'44.485"N	80°48'29.050"W	1864.67	220.333	7.84	4.88	9.01
7098.00	51.980	248.030	6552.25	-793.70	-1450.31	-1267.74	1629395.00	268194.01	39°13'44.191"N	80°48'29.818"W	1926.28	221.157	9.62	7.53	7.99
7187.00	60.390	253.550	6601.77	-786.71	-1474.44	-1337.52	1629325.22	268169.88	39°13'43.942"N	80°48'30.700"W	1990.71	222.212	10.76	9.45	6.20
7277.00	69.730	260.490	6639.71	-770.24	-1492.55	-1416.93	1629245.82	268151.77	39°13'43.752"N	80°48'31.706"W	2058.01	223.511	12.51	10.38	7.71
7366.00	72.940	267.230	6668.22	-743.65	-1501.52	-1500.70	1629162.05	268142.81	39°13'43.651"N	80°48'32.769"W	2122.89	224.984	8.03	3.61	7.57
7457.00	73.880	278.860	6694.28	-703.36	-1496.87	-1587.61	1629075.14	268147.45	39°13'43.684"N	80°48'33.874"W	2182.00	226.685	12.29	1.03	12.78
7545.00	73.840	284.330	6718.76	-653.57	-1479.89	-1670.38	1628992.37	268164.44	39°13'43.840"N	80°48'34.929"W	2231.65	228.460	5.97	-0.05	6.22
7635.00	73.780	294.070	6743.91	-593.93	-1451.51	-1751.89	1628910.87	268192.82	39°13'44.109"N	80°48'35.970"W	2275.08	230.357	10.39	-0.07	10.82
7724.00	76.800	300.960	6766.54	-526.11	-1411.74	-1828.16	1628834.60	268232.59	39°13'44.491"N	80°48'36.946"W	2309.80	232.324	8.22	3.39	7.74
7814.00	79.850	307.500	6784.77	-450.81	-1362.17	-1900.96	1628761.80	268282.15	39°13'44.971"N	80°48'37.881"W	2338.63	234.376	7.88	3.39	7.27
7904.00	81.040	317.000	6799.74	-369.35	-1302.56	-1966.57	1628696.19	268341.76	39°13'45.550"N	80°48'38.725"W	2358.83	236.481	10.49	1.32	10.56
7996.00	84.230	327.450	6811.56	-280.68	-1230.54	-2022.35	1628640.42	268413.78	39°13'46.254"N	80°48'39.447"W	2367.30	238.681	11.78	3.47	11.36



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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot B
Area	Doddridge Co., WV	Well	OXF-97B-HS
Field	Doddridge	Wellbore	OXF-97B-HS AWB
Facility	OXF-97 Pad		

WELLPATH DATA (186 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)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8083.00	86.830	332.960	6818.35	-194.35	-1155.30	-2065.42	1628597.35	268489.02	39°13'46.991"N	80°48'40.009"W	2366.58	240.779	6.99	2.99	6.33
8173.00	90.000	333.680	6820.84	-104.46	-1074.92	-2105.81	1628556.96	268569.39	39°13'47.780"N	80°48'40.537"W	2364.30	242.958	3.61	3.52	0.80
8262.00	89.940	334.520	6820.88	-15.49	-994.86	-2144.69	1628518.09	268649.45	39°13'48.565"N	80°48'41.045"W	2364.20	245.115	0.95	-0.07	0.94
8351.00	89.910	339.090	6821.00	73.47	-913.08	-2179.73	1628483.04	268731.23	39°13'49.369"N	80°48'41.506"W	2363.25	247.271	5.13	-0.03	5.13
8441.00	90.370	339.230	6820.78	163.28	-828.97	-2211.75	1628451.03	268815.33	39°13'50.195"N	80°48'41.928"W	2361.99	249.454	0.53	0.51	0.16
8530.00	90.030	334.670	6820.47	252.23	-747.09	-2246.59	1628416.19	268897.20	39°13'50.999"N	80°48'42.386"W	2367.55	251.606	5.14	-0.38	-5.12
8620.00	90.920	335.680	6819.72	342.22	-665.42	-2284.37	1628378.41	268978.88	39°13'51.801"N	80°48'42.881"W	2379.31	253.760	1.50	0.99	1.12
8709.00	91.200	334.740	6818.08	431.20	-584.63	-2321.68	1628341.10	269059.66	39°13'52.594"N	80°48'43.371"W	2394.16	255.866	1.10	0.31	-1.06
8799.00	91.390	334.640	6816.04	521.17	-503.29	-2360.15	1628302.63	269141.00	39°13'53.392"N	80°48'43.874"W	2413.21	257.962	0.24	0.21	-0.11
8888.00	91.480	333.900	6813.81	610.12	-423.14	-2398.77	1628264.01	269221.14	39°13'54.179"N	80°48'44.380"W	2435.81	259.996	0.84	0.10	-0.83
8978.00	91.320	334.380	6811.62	700.07	-342.18	-2438.02	1628224.77	269302.10	39°13'54.973"N	80°48'44.894"W	2461.91	262.011	0.56	-0.18	0.53
9067.00	91.450	330.840	6809.46	788.92	-263.19	-2478.94	1628183.84	269381.09	39°13'55.748"N	80°48'45.429"W	2492.87	263.940	3.98	0.15	-3.98
9157.00	90.860	336.170	6807.65	878.81	-182.69	-2519.07	1628143.72	269461.59	39°13'56.538"N	80°48'45.953"W	2525.68	265.852	5.96	-0.66	5.92
9246.00	90.950	335.030	6806.24	967.80	-101.65	-2555.83	1628106.96	269542.62	39°13'57.333"N	80°48'46.436"W	2557.85	267.722	1.28	0.10	-1.28
9335.00	91.050	332.590	6804.69	1056.74	-21.81	-2595.10	1628067.69	269622.47	39°13'58.117"N	80°48'46.949"W	2595.19	269.519	2.74	0.11	-2.74
9425.00	91.080	330.810	6803.02	1146.53	57.42	-2637.76	1628025.03	269701.69	39°13'58.894"N	80°48'47.506"W	2638.38	271.247	1.98	0.03	-1.98
9514.00	90.220	331.110	6802.01	1235.24	135.23	-2680.96	1627981.83	269779.49	39°13'59.656"N	80°48'48.070"W	2684.37	272.888	1.02	-0.97	0.34
9604.00	90.430	335.190	6801.50	1325.15	215.50	-2721.60	1627941.19	269859.77	39°14'00.444"N	80°48'48.601"W	2730.12	274.527	4.54	0.23	4.53
9694.00	90.550	337.390	6800.73	1415.13	297.90	-2757.78	1627905.01	269942.16	39°14'01.253"N	80°48'49.076"W	2773.83	276.165	2.45	0.13	2.44
9783.00	90.550	337.800	6799.87	1504.06	380.18	-2791.71	1627871.09	270024.43	39°14'02.061"N	80°48'49.522"W	2817.47	277.755	0.46	0.00	0.46
9878.00	90.000	336.940	6799.42	1599.01	467.86	-2828.26	1627834.54	270112.11	39°14'02.922"N	80°48'50.003"W	2866.69	279.393	1.07	-0.58	-0.91
9962.00	90.030	340.860	6799.39	1682.85	546.21	-2858.49	1627804.31	270190.46	39°14'03.692"N	80°48'50.402"W	2910.21	280.818	4.67	0.04	4.67
10052.00	90.280	337.510	6799.15	1772.65	630.33	-2890.47	1627772.33	270274.57	39°14'04.519"N	80°48'50.824"W	2958.40	282.302	3.73	0.28	-3.72
10141.00	90.340	333.400	6798.67	1861.62	711.27	-2927.43	1627735.37	270355.51	39°14'05.314"N	80°48'51.309"W	3012.60	283.656	4.62	0.07	-4.62
10231.00	90.310	330.340	6798.16	1951.43	790.63	-2969.86	1627692.94	270434.87	39°14'06.092"N	80°48'51.862"W	3073.30	284.907	3.40	-0.03	-3.40
10320.00	90.430	329.740	6797.58	2040.03	867.73	-3014.30	1627648.50	270511.97	39°14'06.847"N	80°48'52.442"W	3136.72	286.060	0.69	0.13	-0.67
10410.00	90.740	331.790	6796.66	2129.71	946.26	-3058.25	1627604.55	270590.49	39°14'07.617"N	80°48'53.015"W	3201.30	287.193	2.30	0.34	2.28
10499.00	90.800	333.410	6795.47	2218.59	1025.26	-3098.25	1627563.60	270669.50	39°14'08.392"N	80°48'53.550"W	3264.39	288.305	1.82	0.07	1.82
10589.00	90.680	335.710	6794.30	2308.56	1106.53	-3137.86	1627524.95	270750.75	39°14'09.189"N	80°48'54.056"W	3327.25	289.455	2.56	-0.13	2.56
10678.00	90.800	338.730	6793.16	2397.51	1188.57	-3172.32	1627490.49	270832.79	39°14'09.995"N	80°48'54.509"W	3387.67	290.539	3.40	0.13	3.39



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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot B
Area	Doddridge Co., WV	Well	OXF-97B-HS
Field	Doddridge	Wellbore	OXF-97B-HS AWB
Facility	OXF-97 Pad		

WELLPATH DATA (186 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
10768.00	91.260	335.430	6791.54	2487.44	1271.44	-3207.36	1627455.46	270915.66	39°14'10.809"N	80°48'54.970"W	3450.17	291.624	3.70	0.51	-3.67
10857.00	91.110	338.810	6789.70	2576.38	1353.40	-3241.95	1627420.87	270997.62	39°14'11.614"N	80°48'55.425"W	3513.11	292.659	3.80	-0.17	3.80
10947.00	91.170	341.900	6787.90	2666.02	1438.14	-3272.19	1627320.62	271082.35	39°14'12.447"N	80°48'55.825"W	3574.28	293.726	3.43	0.07	3.43
11036.00	91.420	342.650	6785.89	2754.38	1522.89	-3299.28	1627363.53	271167.10	39°14'13.281"N	80°48'56.185"W	3633.79	294.777	0.89	0.28	0.84
11126.00	90.650	338.420	6784.27	2843.99	1607.71	-3329.26	1627333.55	271251.92	39°14'14.115"N	80°48'56.582"W	3697.12	295.776	4.78	-0.86	-4.70
11216.00	90.830	337.690	6783.10	2933.89	1691.18	-3362.89	1627299.92	271335.39	39°14'14.935"N	80°48'57.024"W	3764.19	296.698	0.84	0.20	-0.81
11305.00	89.350	337.860	6782.96	3022.82	1773.57	-3396.56	1627266.26	271417.77	39°14'15.744"N	80°48'57.468"W	3831.73	297.572	1.67	-1.66	0.19
11395.00	88.520	337.020	6784.64	3112.75	1856.67	-3431.08	1627231.74	271500.87	39°14'16.560"N	80°48'57.922"W	3901.22	298.419	1.31	-0.92	-0.93
11485.00	87.910	336.180	6787.44	3202.69	1939.22	-3466.80	1627196.02	271583.42	39°14'17.371"N	80°48'58.391"W	3972.32	299.221	1.15	-0.68	-0.93
11574.00	87.850	336.110	6790.73	3291.62	2020.57	-3502.77	1627160.05	271664.76	39°14'18.170"N	80°48'58.863"W	4043.77	299.978	0.10	-0.07	-0.08
11663.00	88.860	334.990	6793.29	3380.58	2101.55	-3539.59	1627123.23	271745.74	39°14'18.965"N	80°48'59.346"W	4116.46	300.699	1.69	1.13	-1.26
11763.00	88.860	331.540	6795.28	3480.47	2190.83	-3584.56	1627078.26	271835.01	39°14'19.841"N	80°48'59.934"W	4201.05	301.433	3.45	0.00	-3.45
11842.00	89.450	335.020	6796.44	3559.39	2261.37	-3620.08	1627042.75	271905.56	39°14'20.533"N	80°49'00.399"W	4268.34	301.992	4.47	0.75	4.41
11932.00	89.140	335.590	6797.55	3649.39	2343.13	-3657.67	1627005.16	271987.32	39°14'21.335"N	80°49'00.892"W	4343.83	302.644	0.72	-0.34	0.63
12022.00	89.480	337.860	6798.64	3739.35	2425.80	-3693.23	1626969.60	272069.98	39°14'22.147"N	80°49'01.359"W	4418.65	303.298	2.55	0.38	2.52
12111.00	90.370	335.550	6798.75	3828.32	2507.54	-3728.42	1626934.41	272151.71	39°14'22.950"N	80°49'01.822"W	4493.21	303.923	2.78	1.00	-2.60
12201.00	89.940	327.990	6798.51	3918.07	2586.77	-3770.96	1626891.87	272230.95	39°14'23.727"N	80°49'02.377"W	4572.92	304.449	8.41	-0.48	-8.40
12290.00	89.910	326.160	6798.62	4006.11	2661.48	-3819.34	1626843.50	272305.64	39°14'24.458"N	80°49'03.006"W	4655.19	304.870	2.06	-0.03	-2.06
12379.00	89.910	331.660	6798.76	4094.49	2737.66	-3865.28	1626797.56	272381.83	39°14'25.204"N	80°49'03.604"W	4736.58	305.309	6.18	0.00	6.18
12469.00	89.910	334.800	6798.91	4184.41	2818.01	-3905.81	1626757.03	272462.17	39°14'25.992"N	80°49'04.134"W	4816.28	305.810	3.49	0.00	3.49
12559.00	89.690	338.210	6799.22	4274.38	2900.53	-3941.68	1626721.15	272544.69	39°14'26.803"N	80°49'04.605"W	4893.87	306.348	3.80	-0.24	3.79
12648.00	90.090	338.250	6799.39	4363.28	2983.18	-3974.69	1626688.15	272627.34	39°14'27.615"N	80°49'05.040"W	4969.67	306.890	0.45	0.45	0.04
12738.00	89.940	332.290	6799.37	4453.23	3064.89	-4012.33	1626650.52	272709.05	39°14'28.417"N	80°49'05.533"W	5048.99	307.375	6.62	-0.17	-6.62
12827.00	89.850	337.410	6799.53	4542.20	3145.43	-4050.14	1626612.71	272789.58	39°14'29.207"N	80°49'06.029"W	5128.09	307.834	5.75	-0.10	5.75
12917.00	89.450	340.110	6800.08	4632.04	3229.31	-4082.74	1626580.11	272873.45	39°14'30.031"N	80°49'06.459"W	5205.49	308.343	3.03	-0.44	3.00
13006.00	89.660	343.270	6800.77	4720.51	3313.79	-4110.70	1626552.15	272957.93	39°14'30.862"N	80°49'06.830"W	5280.06	308.874	3.56	0.24	3.55
13096.00	89.780	343.460	6801.21	4809.66	3400.02	-4136.46	1626526.39	273044.16	39°14'31.711"N	80°49'07.173"W	5354.48	309.419	0.25	0.13	0.21
13185.00	89.140	342.560	6802.05	4897.89	3485.13	-4162.46	1626500.77	273129.27	39°14'32.548"N	80°49'07.520"W	5428.83	309.939	1.24	-0.72	-1.01
13275.00	88.950	340.350	6803.55	4987.38	3570.44	-4191.08	1626471.77	273214.57	39°14'33.387"N	80°49'07.899"W	5505.74	310.428	2.46	-0.21	-2.46
13365.00	88.950	338.390	6805.20	5077.16	3654.65	-4222.79	1626440.06	273298.78	39°14'34.215"N	80°49'08.318"W	5584.66	310.875	2.18	0.00	-2.18



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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot B
Area	Doddridge Co., WV	Well	OXF-97B-HS
Field	Doddridge	Wellbore	OXF-97B-HS AWB
Facility	OXF-97 Pad		

WELLPATH DATA (186 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
13454.00	88.920	333.890	6806.86	5166.11	3736.01	-4258.77	1626404.08	273380.14	39°14'35.014"N	80°49'08.791"W	5665.23	311.259	5.06	-0.03	-5.06
13544.00	88.980	332.610	6808.50	5256.03	3816.36	-4299.27	1626363.58	273460.49	39°14'35.802"N	80°49'09.320"W	5748.77	311.595	1.42	0.07	-1.42
13633.00	89.480	329.690	6809.70	5344.75	3894.30	-4342.21	1626330.65	273538.42	39°14'36.566"N	80°49'09.880"W	5832.70	311.887	3.33	0.56	-3.28
13723.00	89.450	327.640	6810.54	5434.11	3971.16	-4389.01	1626273.85	273615.28	39°14'37.319"N	80°49'10.490"W	5918.91	312.139	2.28	-0.03	-2.28
13813.00	89.350	332.150	6811.48	5523.65	4049.00	-4434.14	1626228.72	273693.12	39°14'38.081"N	80°49'11.078"W	6004.66	312.401	5.01	-0.11	5.01
13902.00	89.200	335.740	6812.61	5612.60	4128.94	-4473.22	1626189.64	273773.05	39°14'38.866"N	80°49'11.589"W	6087.51	312.708	4.04	-0.17	4.03
13992.00	89.170	333.470	6813.89	5702.57	4210.23	-4511.81	1626151.05	273854.34	39°14'39.663"N	80°49'12.095"W	6171.09	313.020	2.52	-0.03	-2.52
14081.00	89.020	331.820	6815.30	5791.45	4289.26	-4552.70	1626110.16	273933.37	39°14'40.439"N	80°49'12.629"W	6254.98	313.293	1.86	-0.17	-1.85
14171.00	89.110	333.180	6816.77	5881.31	4369.08	-4594.25	1626068.62	274013.18	39°14'41.221"N	80°49'13.172"W	6340.03	313.561	1.51	0.10	1.51
14260.00	89.200	333.800	6818.08	5970.25	4448.71	-4633.97	1626028.90	274092.81	39°14'42.003"N	80°49'13.692"W	6423.76	313.832	0.70	0.10	0.70
14350.00	89.230	338.970	6819.31	6060.20	4531.14	-4670.01	1625992.86	274175.24	39°14'42.812"N	80°49'14.165"W	6506.93	314.135	5.74	0.03	5.74
14439.00	88.900	343.500	6820.76	6148.71	4615.38	-4698.63	1625964.24	274259.47	39°14'43.640"N	80°49'14.545"W	6586.26	314.488	5.10	-0.37	5.09
14529.00	88.800	328.870	6822.58	6238.44	4697.47	-4734.86	1625928.01	274341.56	39°14'44.446"N	80°49'15.021"W	6669.72	314.773	16.25	-0.11	-16.26
14618.00	88.890	326.920	6824.38	6326.64	4772.84	-4782.15	1625880.72	274416.93	39°14'45.184"N	80°49'15.636"W	6756.40	314.944	2.19	0.10	-2.19
14708.00	88.550	332.010	6826.39	6416.09	4850.32	-4827.85	1625835.02	274494.40	39°14'45.943"N	80°49'16.231"W	6843.51	315.133	5.67	-0.38	5.66
14797.00	88.860	332.630	6828.40	6504.93	4929.11	-4869.18	1625793.69	274573.19	39°14'46.716"N	80°49'16.771"W	6928.57	315.350	0.78	0.35	0.70
14887.00	88.770	331.240	6830.26	6594.74	5008.51	-4911.51	1625751.36	274652.59	39°14'47.495"N	80°49'17.324"W	7014.85	315.560	1.55	-0.10	-1.54
14976.00	88.770	331.610	6832.17	6683.49	5086.65	-4954.07	1625708.80	274730.73	39°14'48.261"N	80°49'17.880"W	7100.48	315.756	0.42	0.00	0.42
15066.00	88.740	334.190	6834.13	6773.37	5166.74	-4995.06	1625667.82	274810.82	39°14'49.046"N	80°49'18.415"W	7186.50	315.968	2.87	-0.03	2.87
15155.00	88.800	336.350	6836.04	6862.35	5247.56	-5032.28	1625630.60	274891.63	39°14'49.839"N	80°49'18.904"W	7270.54	316.200	2.43	0.07	2.43
15245.00	88.830	338.470	6837.90	6952.27	5330.63	-5066.84	1625596.04	274974.70	39°14'50.655"N	80°49'19.358"W	7354.49	316.453	2.36	0.03	2.36
15334.00	88.830	335.150	6839.72	7041.22	5412.41	-5101.88	1625561.00	275056.48	39°14'51.459"N	80°49'19.819"W	7437.97	316.692	3.73	0.00	-3.73
15424.00	88.860	335.680	6841.53	7131.20	5494.23	-5139.31	1625523.57	275138.30	39°14'52.262"N	80°49'20.310"W	7523.24	316.912	0.59	0.03	0.59
15513.00	88.800	336.170	6843.35	7220.18	5575.48	-5175.61	1625487.27	275219.53	39°14'53.059"N	80°49'20.787"W	7607.42	317.130	0.55	-0.07	0.55
15603.00	88.860	335.120	6845.19	7310.16	5657.45	-5212.72	1625450.17	275301.50	39°14'53.864"N	80°49'21.274"W	7692.80	317.343	1.17	0.07	-1.17
15692.00	88.830	337.600	6846.98	7399.12	5738.96	-5248.40	1625414.49	275383.01	39°14'54.664"N	80°49'21.742"W	7776.97	317.556	2.79	-0.03	2.79
15782.00	88.580	340.370	6849.01	7488.92	5826.94	-5280.66	1625382.23	275466.99	39°14'55.490"N	80°49'22.168"W	7860.79	317.796	3.09	-0.28	3.08
15871.00	88.800	341.070	6851.05	7577.53	5910.04	-5310.04	1625352.85	275550.97	39°14'56.315"N	80°49'22.557"W	7942.81	318.046	0.82	0.25	0.79
15961.00	88.650	338.460	6853.05	7667.25	5991.34	-5341.16	1625321.73	275635.39	39°14'57.145"N	80°49'22.968"W	8026.47	318.284	2.90	-0.17	-2.90
16050.00	88.240	336.800	6855.47	7756.15	6073.61	-5375.02	1625287.88	275717.65	39°14'57.953"N	80°49'23.414"W	8110.46	318.492	1.92	-0.46	-1.87



Actual Wellpath Report

OXF-97B-HS AWP Proj: 16447'

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REFERENCE WELLPATH IDENTIFICATION

	Slot	Slot B
Operator	NOBLE ENERGY	
Area	Doddridge Co., WV	OXF-97B-HS
Field	Doddridge	OXF-97B-HS AWB
Facility	OXF-97 Pad	

WELLPATH DATA (186 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
16140.00	88.340	339.150	6858.15	7846.02	6157.00	-5408.75	1625254.15	275801.04	39°14'58.772"N	80°49'23.859"W	8195.32	318.702	2.61	0.11	2.61
16229.00	88.370	339.710	6860.71	7934.77	6240.29	-5440.01	1625222.89	275884.33	39°14'59.591"N	80°49'24.271"W	8278.58	318.920	0.63	0.03	0.63
16318.00	88.340	337.630	6863.26	8023.59	6323.16	-5472.36	1625190.53	275967.19	39°15'00.405"N	80°49'24.698"W	8362.36	319.126	2.34	-0.03	-2.34
16408.00	88.370	335.570	6865.85	8113.53	6405.72	-5508.09	1625154.81	276049.74	39°15'01.216"N	80°49'25.168"W	8448.21	319.309	2.29	0.03	-2.29
16422.00	88.340	335.610	6866.25	8127.53	6418.46	-5513.87	1625149.02	276062.49	39°15'01.341"N	80°49'25.244"W	8461.65	319.335	0.36	-0.21	0.29
16447.00	88.340	335.610	6866.97	8152.52	6441.22	-5524.19	1625138.71	276085.25	39°15'01.565"N	80°49'25.379"W	8485.64	319.383	0.00	0.00	0.00

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
OXF-97B-HS LP Rev-2		6807.00	-1113.86	-2085.04	1628577.73	268330.45	39°13'47.398"N	80°48'40.266"W	point
OXF-97B-HS WP1 Rev-2		6807.00	1750.93	-3391.20	1627271.62	271395.13	39°14'15.521"N	80°48'57.395"W	point
OXF-97B-HS WP2 Rev-2		6822.00	3570.82	-4220.96	1626441.89	273214.95	39°14'33.387"N	80°49'08.279"W	point
OXF-97B-HS BHL Rev-2		6867.00	6438.22	-5528.31	1625134.59	276082.25	39°15'01.534"N	80°49'25.431"W	point
OXF-97 LL		7198.48	20.01	0.08	1630662.77	269664.28	39°13'58.904"N	80°48'13.980"W	polygon



Actual Wellpath Report

OXF-97B-HS AWP Proj: 16447'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot B
Area	Doddridge Co., WV	Well	OXF-97B-HS
Field	Doddridge	Wellbore	OXF-97B-HS AWB
Facility	OXF-97 Pad		

WELLPATH COMPOSITION - Ref Wellbore: OXF-97B-HS AWB Ref Wellpath: OXF-97B-HS AWP Proj: 16447'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	2881.00	Generic gyro - northseeking (Standard)	01_MS Gyro <12-1/4"> (100'-2863')	OXF-97B-HS AWB
2881.00	6036.00	ISCWSA MWD, Rev. 2 (Standard)	02_Scientific EM <8-3/4"> (2873')(3062'-6028')	OXF-97B-HS AWB
6036.00	16422.00	NaviTrak (AT Curve Short Spaced)	03_BHI AT Curve <8-1/2"> (6036')(6113'-16422')	OXF-97B-HS AWB
16422.00	16447.00	Blind Drilling (std)	Projection to bit	OXF-97B-HS AWB



Actual Wellpath Report

OXF-97B-HS AWP Proj: 16447
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REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot B
Area	Doddridge Co., WV	Well	OXF-97B-HS
Field	Doddridge	Wellbore	OXF-97B-HS AWB
Facility	OXF-97 Pad		

COMMENTS

Wellpath general comments
 API: 47-017-06482-0000
 BHI Job #: 7138757
 Rig: Precision 543
 Duration: 4/7/2015-4/13/2015
 MS Gyro <12-1/4"> (100'-2863')
 Scientific EM <8-3/4"> (2873')(3062'-6028')
 BHI AT Curve <8-1/2"> (6036')(6113'-16422')
 Projected MD at TD: 16447'