



Actual Wellpath Report

OXF-13F-HS AWP Proj: 12234'
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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS COMPANY, LLC	Slot	Slot F
Area	Doddridge Co., WV	Well	OXF-13F-HS
Field	Doddridge	Wellbore	OXF-13F-HS AWB
Facility	OXFD-13 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	0.999972	Report Generated	30/Jun/2015 at 19:39
Convergence at slot	0.80° West	Database/Source file	WellArchitectEasternDB/OXF-13F-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	-2.77	-19.83	1646154.21	246000.74	39°10'07.207"N	80°44'52.945"W
Facility Reference Pt			1646174.04	246003.51	39°10'07.237"N	80°44'52.693"W
Field Reference Pt			1640277.00	240427.63	39°09'11.313"N	80°46'06.561"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 805 (RKB) to Facility Vertical Datum	1180.77ft
Horizontal Reference Pt	Slot	Patterson 805 (RKB) to Mean Sea Level	1180.77ft
Vertical Reference Pt	Patterson 805 (RKB)	Patterson 805 (RKB) to Mud Line at Slot (Slot F)	28.50ft
MD Reference Pt	Patterson 805 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	160.00°

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WELLPATH DATA (145 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	8.220	0.00	0.00	0.00	0.00	1646154.21	246000.74	39°10'07.207"N	80°44'52.945"W	0.00	0.000	0.00	0.00	0.00
28.50	0.000	8.220	28.50	0.00	0.00	0.00	1646154.21	246000.74	39°10'07.207"N	80°44'52.945"W	0.00	0.000	0.00	0.00	0.00
100.00	0.550	8.220	100.00	-0.30	0.34	0.05	1646154.26	246001.08	39°10'07.210"N	80°44'52.944"W	0.34	8.220	0.77	0.77	0.00
200.00	0.200	343.760	200.00	-0.90	0.98	0.07	1646154.28	246001.72	39°10'07.216"N	80°44'52.944"W	0.98	4.011	0.38	-0.35	-24.46
300.00	0.250	276.900	300.00	-1.17	1.18	-0.20	1646154.01	246001.92	39°10'07.218"N	80°44'52.947"W	1.19	350.513	0.25	0.05	-66.86
400.00	0.210	354.200	400.00	-1.45	1.38	-0.43	1646153.78	246002.12	39°10'07.220"N	80°44'52.950"W	1.45	342.686	0.29	-0.04	77.30
500.00	0.400	3.690	499.99	-1.95	1.92	-0.43	1646153.78	246002.66	39°10'07.225"N	80°44'52.951"W	1.96	347.412	0.20	0.19	9.49
600.00	0.380	356.180	599.99	-2.58	2.59	-0.43	1646153.78	246003.33	39°10'07.232"N	80°44'52.951"W	2.63	350.647	0.05	-0.02	-7.51
700.00	0.410	301.690	699.99	-3.18	3.11	-0.75	1646153.46	246003.85	39°10'07.237"N	80°44'52.955"W	3.20	346.388	0.36	0.03	-54.49
800.00	0.460	282.170	799.99	-3.68	3.39	-1.45	1646152.76	246004.13	39°10'07.240"N	80°44'52.964"W	3.68	336.807	0.16	0.05	-19.52
900.00	0.350	264.660	899.98	-3.97	3.44	-2.15	1646152.06	246004.18	39°10'07.240"N	80°44'52.973"W	4.06	328.043	0.16	-0.11	-17.51
1000.00	0.240	304.440	999.98	-4.22	3.53	-2.62	1646151.59	246004.27	39°10'07.241"N	80°44'52.979"W	4.40	323.391	0.23	-0.11	39.78
1100.00	0.210	305.150	1099.98	-4.54	3.76	-2.95	1646151.26	246004.50	39°10'07.243"N	80°44'52.983"W	4.77	321.886	0.03	-0.03	0.71
1200.00	0.480	311.010	1199.98	-5.05	4.14	-3.41	1646150.80	246004.88	39°10'07.247"N	80°44'52.989"W	5.36	320.477	0.27	0.27	5.86
1300.00	0.520	341.890	1299.98	-5.87	4.84	-3.87	1646150.34	246005.58	39°10'07.254"N	80°44'52.995"W	6.20	321.372	0.27	0.04	30.88
1400.00	0.450	357.930	1399.97	-6.70	5.67	-4.02	1646150.19	246006.41	39°10'07.262"N	80°44'52.997"W	6.95	324.613	0.15	-0.07	16.04
1500.00	0.660	3.630	1499.97	-7.60	6.63	-4.00	1646150.21	246007.37	39°10'07.272"N	80°44'52.997"W	7.75	328.894	0.22	0.21	5.70
1600.00	0.440	6.730	1599.96	-8.47	7.59	-3.92	1646150.29	246008.33	39°10'07.281"N	80°44'52.996"W	8.54	332.677	0.22	-0.22	3.10
1700.00	0.120	322.090	1699.96	-8.92	8.05	-3.94	1646150.27	246008.79	39°10'07.286"N	80°44'52.996"W	8.97	333.928	0.36	-0.32	-44.64
1800.00	0.260	70.970	1799.96	-9.01	8.21	-3.79	1646150.42	246008.95	39°10'07.287"N	80°44'52.994"W	9.04	335.219	0.32	0.14	108.88
1900.00	0.600	1.860	1899.96	-9.49	8.81	-3.56	1646150.65	246009.55	39°10'07.293"N	80°44'52.991"W	9.50	337.998	0.56	0.34	-69.11
2000.00	0.590	356.840	1999.95	-10.47	9.84	-3.57	1646150.64	246010.58	39°10'07.303"N	80°44'52.992"W	10.47	340.067	0.05	-0.01	-5.02
2100.00	0.310	348.530	2099.95	-11.23	10.62	-3.65	1646150.56	246011.36	39°10'07.311"N	80°44'52.993"W	11.23	341.028	0.29	-0.28	-8.31
2200.00	0.140	324.600	2199.95	-11.62	10.99	-3.78	1646150.43	246011.73	39°10'07.315"N	80°44'52.995"W	11.62	341.031	0.19	-0.17	-23.93
2300.00	0.280	268.790	2299.95	-11.81	11.08	-4.09	1646150.12	246011.82	39°10'07.316"N	80°44'52.999"W	11.81	339.735	0.23	0.14	-55.81
2400.00	0.480	279.690	2399.95	-12.10	11.15	-4.75	1646149.46	246011.89	39°10'07.316"N	80°44'53.007"W	12.12	336.926	0.21	0.20	10.90
2500.00	0.420	254.750	2499.94	-12.34	11.12	-5.52	1646148.69	246011.86	39°10'07.316"N	80°44'53.017"W	12.42	333.623	0.20	-0.06	-24.94
2600.00	0.290	265.650	2599.94	-12.44	11.01	-6.12	1646148.09	246011.75	39°10'07.315"N	80°44'53.024"W	12.59	330.919	0.15	-0.13	10.90
2700.00	0.180	298.220	2699.94	-12.62	11.06	-6.51	1646147.70	246011.80	39°10'07.315"N	80°44'53.029"W	12.84	329.514	0.17	-0.11	32.57
2800.00	0.340	314.110	2799.94	-13.01	11.34	-6.86	1646147.35	246012.08	39°10'07.318"N	80°44'53.034"W	13.26	328.821	0.17	0.16	15.89

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Field	Doddridge	Wellbore	OXF-13F-HS AWB
Facility	OXFD-13 Pad		

WELLPATH DATA (145 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]
2887.00	1.150	313.810	2886.93	-14.02	12.13	-7.68	1646146.53	246012.87	39°10'07.325"N	80°44'53.044"W	14.35	327.656	0.93	0.93	-0.34
2980.00	1.680	326.720	2979.90	-16.19	13.91	-9.10	1646145.11	246014.65	39°10'07.343"N	80°44'53.063"W	16.62	326.810	0.66	0.66	13.88
3074.00	4.370	2.900	3073.77	-20.83	18.64	-9.68	1646144.53	246019.38	39°10'07.390"N	80°44'53.071"W	21.00	332.570	3.38	2.86	38.49
3167.00	6.160	10.360	3166.38	-28.40	27.09	-8.60	1646145.61	246027.83	39°10'07.473"N	80°44'53.059"W	28.42	342.389	2.06	1.92	8.02
3261.00	6.900	12.780	3259.77	-37.50	37.56	-6.44	1646147.77	246038.30	39°10'07.577"N	80°44'53.033"W	38.11	350.266	0.84	0.79	2.57
3355.00	6.950	12.650	3353.08	-47.03	48.61	-3.95	1646150.26	246049.35	39°10'07.687"N	80°44'53.003"W	48.77	355.356	0.06	0.05	-0.14
3449.00	6.950	13.230	3446.39	-56.58	59.70	-1.40	1646152.81	246060.44	39°10'07.796"N	80°44'52.973"W	59.72	358.655	0.07	0.00	0.62
3542.00	6.870	5.090	3538.72	-66.32	70.72	0.38	1646154.59	246071.45	39°10'07.906"N	80°44'52.952"W	70.72	0.308	1.06	-0.09	-8.75
3636.00	7.140	1.580	3632.01	-76.85	82.16	1.04	1646155.25	246082.89	39°10'08.019"N	80°44'52.946"W	82.16	0.725	0.54	0.29	-3.73
3730.00	6.780	12.480	3725.33	-86.96	93.41	2.40	1646156.61	246094.15	39°10'08.130"N	80°44'52.931"W	93.45	1.471	1.45	-0.38	11.60
3823.00	5.840	6.760	3817.76	-95.82	103.47	4.14	1646158.35	246104.21	39°10'08.230"N	80°44'52.910"W	103.56	2.293	1.21	-1.01	-6.15
3917.00	6.030	8.640	3911.26	-104.42	113.10	5.45	1646159.66	246113.84	39°10'08.325"N	80°44'52.896"W	113.23	2.757	0.29	0.20	2.00
4010.00	6.410	13.730	4003.71	-113.02	122.98	7.41	1646161.62	246123.71	39°10'08.423"N	80°44'52.872"W	123.20	3.450	0.72	0.41	5.47
4104.00	6.080	9.530	4097.15	-121.72	132.98	9.48	1646163.69	246133.72	39°10'08.522"N	80°44'52.848"W	133.32	4.079	0.60	-0.35	-4.47
4198.00	6.580	16.110	4190.58	-130.40	143.07	11.80	1646166.01	246143.80	39°10'08.622"N	80°44'52.820"W	143.55	4.716	0.94	0.53	7.00
4291.00	6.870	10.780	4282.94	-139.49	153.65	14.32	1646168.53	246154.39	39°10'08.727"N	80°44'52.790"W	154.32	5.325	0.74	0.31	-5.73
4385.00	7.620	4.840	4376.19	-149.97	165.38	15.90	1646170.11	246166.12	39°10'08.843"N	80°44'52.772"W	166.15	5.491	1.13	0.80	-6.32
4478.00	8.860	11.540	4468.23	-161.67	178.55	17.85	1646172.06	246179.28	39°10'08.974"N	80°44'52.750"W	179.44	5.710	1.68	1.33	7.20
4572.00	8.270	15.770	4561.19	-173.33	192.14	21.14	1646175.35	246192.88	39°10'09.108"N	80°44'52.710"W	193.30	6.278	0.92	-0.63	4.50
4666.00	6.170	15.450	4654.44	-182.93	203.52	24.32	1646178.53	246204.25	39°10'09.221"N	80°44'52.672"W	204.97	6.814	2.23	-2.23	-0.34
4759.00	6.260	6.340	4746.89	-191.54	213.38	26.21	1646180.42	246214.11	39°10'09.319"N	80°44'52.650"W	214.98	7.003	1.06	0.10	-9.80
4853.00	7.770	16.440	4840.19	-201.25	224.57	28.58	1646182.79	246225.30	39°10'09.438"N	80°44'52.622"W	226.38	7.252	2.07	1.61	10.74
4947.00	7.170	10.730	4933.39	-211.40	236.42	31.47	1646185.68	246237.16	39°10'09.548"N	80°44'52.587"W	238.51	7.581	1.01	-0.64	-6.07
5040.00	6.570	35.6480	5025.73	-221.50	247.44	32.22	1646186.43	246248.17	39°10'09.656"N	80°44'52.579"W	249.53	7.419	1.94	-0.65	-15.32
5134.00	7.450	35.7490	5119.03	-232.46	258.89	31.62	1646185.83	246259.63	39°10'09.770"N	80°44'52.589"W	260.82	6.964	0.95	0.94	1.07
5227.00	7.820	0.680	5211.20	-244.13	271.24	31.43	1646185.64	246271.98	39°10'09.892"N	80°44'52.594"W	273.06	6.611	0.60	0.40	3.43
5321.00	7.900	35.8090	5304.32	-256.26	284.09	31.30	1646185.50	246284.83	39°10'10.019"N	80°44'52.598"W	285.81	6.286	0.39	0.09	-2.76
5415.00	7.340	35.6050	5397.49	-268.17	296.54	30.67	1646184.88	246297.27	39°10'10.142"N	80°44'52.608"W	298.12	5.904	0.66	-0.60	-2.17
5509.00	6.390	2.820	5490.82	-278.76	307.76	30.51	1646184.72	246308.49	39°10'10.252"N	80°44'52.612"W	309.27	5.662	1.33	-1.01	7.20
5602.00	6.360	14.140	5583.24	-287.80	317.92	32.02	1646186.23	246318.63	39°10'10.353"N	80°44'52.594"W	319.53	5.752	1.35	-0.03	12.17

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5696.00	6.400	28.150	5676.67	-295.60	327.59	35.77	1646189.98	246328.32	39°10'10.449"N	80°44'52.548"W	329.54	6.231	1.65	0.04	14.90
5790.00	7.030	42.680	5770.03	-301.74	336.44	42.14	1646196.35	246337.17	39°10'10.537"N	80°44'52.469"W	339.07	7.139	1.92	0.67	15.46
5884.00	7.830	58.240	5863.25	-305.68	344.04	51.48	1646205.69	246344.77	39°10'10.614"N	80°44'52.352"W	347.87	8.511	2.29	0.85	16.55
5977.00	6.880	67.220	5955.49	-307.24	349.53	62.01	1646216.21	246350.26	39°10'10.670"N	80°44'52.219"W	354.99	10.060	1.60	-1.02	9.66
6029.00	6.790	67.500	6007.12	-307.53	351.91	67.72	1646221.93	246352.64	39°10'10.694"N	80°44'52.147"W	358.37	10.892	0.18	-0.17	0.54
6062.00	5.870	76.010	6039.92	-307.44	353.07	71.16	1646225.37	246353.80	39°10'10.706"N	80°44'52.104"W	360.17	11.395	3.97	-2.79	25.79
6108.00	6.000	117.650	6085.69	-305.41	352.52	75.57	1646229.78	246353.25	39°10'10.701"N	80°44'52.048"W	360.53	12.100	9.16	0.28	90.52
6161.00	7.700	152.890	6138.33	-299.84	348.07	79.65	1646233.85	246348.80	39°10'10.658"N	80°44'51.995"W	357.07	12.888	8.39	3.21	66.49
6202.00	8.030	177.400	6178.96	-294.38	342.76	81.03	1646235.23	246343.49	39°10'10.605"N	80°44'51.977"W	352.21	13.300	8.16	0.80	59.78
6247.00	6.230	184.280	6223.61	-289.15	337.19	80.99	1646235.20	246337.92	39°10'10.550"N	80°44'51.976"W	346.78	13.506	4.42	-4.00	15.29
6295.00	6.920	164.420	6271.30	-283.90	331.81	81.57	1646235.78	246332.54	39°10'10.497"N	80°44'51.968"W	341.68	13.812	4.92	1.44	-41.37
6344.00	10.180	151.740	6319.75	-276.67	325.15	84.41	1646238.62	246325.88	39°10'10.432"N	80°44'51.930"W	335.92	14.554	7.65	6.65	-25.88
6388.00	11.870	141.270	6362.94	-268.53	318.19	89.09	1646243.29	246318.92	39°10'10.363"N	80°44'51.870"W	330.43	15.641	5.94	3.84	-23.80
6438.00	13.420	145.200	6411.73	-258.05	309.41	95.62	1646249.82	246310.14	39°10'10.278"N	80°44'51.785"W	323.85	17.172	3.54	3.10	7.86
6482.00	16.010	152.610	6454.29	-247.09	299.83	101.32	1646255.53	246300.56	39°10'10.184"N	80°44'51.711"W	316.49	18.672	7.27	5.89	16.84
6532.00	19.890	159.540	6501.85	-231.74	285.73	107.47	1646261.68	246286.46	39°10'10.045"N	80°44'51.631"W	305.28	20.613	8.85	7.76	13.86
6575.00	22.260	159.900	6541.97	-216.28	271.23	112.83	1646267.03	246271.96	39°10'09.903"N	80°44'51.560"W	293.76	22.587	5.52	5.51	0.84
6625.00	26.980	156.410	6587.41	-195.48	251.93	120.63	1646274.83	246252.66	39°10'09.713"N	80°44'51.458"W	279.32	25.586	9.87	9.44	-6.98
6669.00	32.300	155.480	6625.64	-173.78	232.07	129.51	1646283.71	246232.81	39°10'09.518"N	80°44'51.342"W	265.76	29.163	12.14	12.09	-2.11
6720.00	37.190	156.090	6667.54	-144.80	205.57	141.42	1646295.62	246206.30	39°10'09.258"N	80°44'51.186"W	249.51	34.525	9.61	9.59	1.20
6763.00	41.690	157.300	6700.74	-117.54	180.48	152.21	1646306.41	246181.22	39°10'09.011"N	80°44'51.044"W	236.09	40.142	10.62	10.47	2.81
6822.00	47.620	157.570	6742.69	-76.13	142.20	168.11	1646322.31	246142.94	39°10'08.635"N	80°44'50.836"W	220.19	49.772	10.06	10.05	0.46
6857.00	50.820	158.580	6765.55	-49.65	117.62	178.00	1646332.20	246118.36	39°10'08.393"N	80°44'50.706"W	213.35	56.543	9.40	9.14	2.89
6904.00	54.790	159.850	6793.95	-12.22	82.62	191.27	1646345.47	246083.36	39°10'08.049"N	80°44'50.531"W	208.35	66.637	8.72	8.45	2.70
6950.00	58.270	161.440	6819.32	26.14	46.42	203.97	1646358.18	246047.16	39°10'07.693"N	80°44'50.363"W	209.19	77.178	8.10	7.57	3.46
7005.00	62.980	161.250	6846.29	74.04	1.03	219.30	1646373.50	246001.77	39°10'07.247"N	80°44'50.161"W	219.30	89.732	8.57	8.56	-0.35
7044.00	66.180	160.190	6863.03	109.26	-32.22	230.93	1646385.14	245968.52	39°10'06.920"N	80°44'50.007"W	233.17	97.942	8.56	8.21	-2.72
7090.00	70.690	159.320	6879.93	152.03	-72.34	245.74	1646399.94	245928.40	39°10'06.525"N	80°44'49.812"W	256.17	106.404	9.96	9.80	-1.89
7138.00	75.320	158.730	6893.96	197.91	-115.19	262.17	1646416.57	245885.94	39°10'06.104"N	80°44'49.596"W	286.36	113.720	9.72	9.65	-1.23
7186.00	77.440	158.570	6905.26	244.55	-158.64	279.15	1646433.33	245842.81	39°10'05.677"N	80°44'49.373"W	321.08	119.609	4.43	4.42	-0.33

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OXF-13F-HS AWP Proj: 12234'

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS COMPANY, LLC	Slot	Slot F
Area	Doddridge Co., WV	Well	OXF-13F-HS
Field	Doddridge	Wellbore	OXF-13F-HS AWB
Facility	OXFD-13 Pad		

WELLPATH DATA (145 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]
7232.00	75.130	158.950	6916.17	289.22	-200.29	295.34	1646449.54	245800.46	39°10'05.268"N	80°44'49.160"W	356.85	124.143	5.09	-5.02	0.83
7325.00	84.520	161.740	6932.58	380.64	-286.40	326.06	1646480.26	245714.35	39°10'04.421"N	80°44'48.755"W	433.98	131.295	10.52	10.10	3.00
7419.00	88.430	161.170	6938.36	474.42	-375.33	355.90	1646510.10	245625.42	39°10'03.546"N	80°44'48.360"W	517.24	136.522	4.20	4.16	-0.61
7513.00	88.830	160.260	6940.61	568.38	-464.03	386.93	1646541.13	245536.73	39°10'02.674"N	80°44'47.951"W	604.18	140.177	1.06	0.43	-0.97
7606.00	89.350	159.560	6942.08	661.37	-551.36	418.87	1646573.07	245449.40	39°10'01.815"N	80°44'47.530"W	692.42	142.776	0.94	0.56	-0.75
7700.00	89.380	158.390	6943.13	755.35	-639.09	452.59	1646606.79	245361.67	39°10'00.953"N	80°44'47.086"W	783.12	144.694	1.25	0.03	-1.24
7793.00	89.380	158.080	6944.13	848.30	-725.46	487.08	1646641.27	245275.30	39°10'00.104"N	80°44'46.633"W	873.80	146.122	0.33	0.00	-0.33
7887.00	89.970	160.090	6944.67	942.28	-813.26	520.63	1646674.83	245187.51	39°09'59.241"N	80°44'46.192"W	965.63	147.373	2.23	0.63	2.14
7981.00	90.030	162.380	6944.67	1036.25	-902.25	550.87	1646705.06	245098.51	39°09'58.365"N	80°44'45.792"W	1057.13	148.594	2.44	0.06	2.44
8075.00	89.750	160.760	6944.85	1130.21	-991.43	580.58	1646734.78	245009.34	39°09'57.488"N	80°44'45.399"W	1148.92	149.647	1.75	-0.30	-1.72
8168.00	89.480	159.160	6945.47	1223.21	-1078.79	612.45	1646766.64	244921.98	39°09'56.629"N	80°44'44.979"W	1240.52	150.416	1.74	-0.29	-1.72
8262.00	89.540	158.990	6946.28	1317.19	-1166.59	646.02	1646800.21	244834.18	39°09'55.766"N	80°44'44.538"W	1333.52	151.024	0.19	0.06	-0.18
8356.00	89.540	159.020	6947.03	1411.17	-1254.35	679.70	1646833.89	244746.43	39°09'54.903"N	80°44'44.095"W	1426.67	151.548	0.93	0.00	0.03
8449.00	89.540	160.830	6947.78	1504.17	-1341.69	711.62	1646865.81	244659.09	39°09'54.044"N	80°44'43.674"W	1518.73	152.059	1.95	0.00	1.95
8543.00	90.150	160.900	6948.03	1598.15	-1430.50	742.43	1646896.62	244570.28	39°09'53.171"N	80°44'43.267"W	1611.69	152.571	0.65	0.65	0.07
8636.00	90.120	163.340	6947.81	1691.08	-1519.00	770.98	1646925.17	244481.79	39°09'52.300"N	80°44'42.889"W	1703.46	153.089	2.62	-0.03	2.62
8730.00	90.250	162.150	6947.51	1784.97	-1608.77	798.87	1646953.05	244392.02	39°09'51.417"N	80°44'42.520"W	1796.19	153.592	1.27	0.14	-1.27
8823.00	89.600	159.180	6947.63	1877.96	-1696.51	829.65	1646983.84	244304.28	39°09'50.554"N	80°44'42.113"W	1888.51	153.940	3.27	-0.70	-3.19
8917.00	89.630	157.470	6948.26	1971.91	-1783.86	864.37	1647018.55	244216.93	39°09'49.695"N	80°44'41.657"W	1982.24	154.147	1.82	0.03	-1.82
9011.00	89.570	157.110	6948.92	2065.80	-1870.57	900.66	1647054.84	244130.23	39°09'48.843"N	80°44'41.181"W	2076.11	154.290	0.39	-0.06	-0.38
9104.00	89.570	156.450	6949.62	2158.65	-1956.03	937.32	1647091.51	244044.77	39°09'48.004"N	80°44'40.701"W	2169.02	154.396	0.71	0.00	-0.71
9198.00	89.570	157.290	6950.32	2252.51	-2042.47	974.25	1647128.43	243958.33	39°09'47.154"N	80°44'40.217"W	2262.93	154.499	0.89	0.00	0.89
9292.00	89.630	158.860	6950.98	2346.45	-2129.67	1009.34	1647163.52	243871.13	39°09'46.298"N	80°44'39.756"W	2356.75	154.642	1.67	0.06	1.67
9385.00	89.600	157.810	6951.60	2439.41	-2216.10	1043.68	1647197.86	243784.71	39°09'45.448"N	80°44'39.305"W	2449.56	154.782	1.13	-0.03	-1.13
9479.00	89.660	157.650	6952.21	2533.33	-2303.08	1079.30	1647233.48	243697.72	39°09'44.593"N	80°44'38.838"W	2543.44	154.891	0.18	0.06	-0.17
9573.00	89.450	160.050	6952.94	2627.30	-2390.74	1113.21	1647267.39	243610.87	39°09'43.732"N	80°44'38.392"W	2637.21	155.032	2.56	-0.22	2.55
9666.00	89.600	163.250	6953.71	2720.25	-2479.00	1142.49	1647296.66	243521.81	39°09'42.863"N	80°44'38.005"W	2729.60	155.257	3.44	0.16	3.44
9760.00	89.450	162.010	6954.49	2814.15	-2568.71	1170.55	1647334.72	243432.11	39°09'41.981"N	80°44'37.633"W	2822.84	155.501	1.33	-0.16	-1.32
9853.00	89.510	163.110	6955.33	2907.05	-2657.43	1198.42	1647372.59	243343.39	39°09'41.108"N	80°44'37.263"W	2915.15	155.726	1.18	0.06	1.18
9947.00	89.570	165.450	6956.09	3000.78	-2747.90	1223.88	1647410.06	243252.92	39°09'40.217"N	80°44'36.924"W	3008.13	155.992	2.49	0.06	2.49

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS COMPANY, LLC	Slot	Slot F
Area	Doddridge Co., WV	Well	OXF-13F-HS
Field	Doddridge	Wellbore	OXF-13F-HS AWB
Facility	OXFD-13 Pad		

WELLPATH DATA (145 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]
10041.00	88.980	165.420	6957.28	3094.35	-2838.87	1247.52	1647401.69	243161.95	39°09'39.321"N	80°44'36.608"W	3100.89	156.277	0.63	-0.63	-0.03
10134.00	89.080	162.970	6958.85	3187.08	-2928.34	1272.84	1647427.02	243072.49	39°09'38.440"N	80°44'36.271"W	3193.01	156.507	2.64	0.11	-2.63
10228.00	88.980	161.640	6960.44	3280.98	-3017.88	1301.41	1647455.58	242982.95	39°09'37.559"N	80°44'35.892"W	3286.53	156.673	1.42	-0.11	-1.41
10322.00	89.050	159.950	6962.06	3374.96	-3106.63	1332.33	1647486.50	242894.20	39°09'36.686"N	80°44'35.484"W	3380.27	156.787	1.80	0.07	-1.80
10415.00	88.980	157.510	6963.66	3467.91	-3193.27	1366.06	1647520.23	242807.56	39°09'35.835"N	80°44'35.041"W	3473.20	156.839	2.62	-0.08	-2.62
10509.00	89.200	156.820	6965.15	3561.79	-3279.90	1402.53	1647556.70	242720.94	39°09'34.984"N	80°44'34.563"W	3567.18	156.848	0.77	0.23	-0.73
10603.00	89.170	158.560	6966.49	3655.70	-3366.85	1438.21	1647592.38	242633.99	39°09'34.129"N	80°44'34.095"W	3661.16	156.869	1.85	-0.03	1.85
10696.00	88.980	158.780	6967.99	3748.66	-3453.46	1472.03	1647626.20	242547.38	39°09'33.278"N	80°44'33.650"W	3754.10	156.914	0.31	-0.20	0.24
10790.00	89.110	158.680	6969.56	3842.62	-3541.05	1506.13	1647660.29	242459.80	39°09'32.417"N	80°44'33.202"W	3848.05	156.958	0.17	0.14	-0.11
10883.00	89.050	157.430	6971.05	3935.56	-3627.30	1540.88	1647695.04	242373.55	39°09'31.569"N	80°44'32.746"W	3941.01	156.984	1.35	-0.06	-1.34
10977.00	89.420	158.150	6972.31	4029.48	-3714.32	1576.41	1647730.57	242286.53	39°09'30.714"N	80°44'32.279"W	4035.00	157.003	0.86	0.39	0.77
11070.00	89.720	159.950	6973.00	4122.46	-3801.16	1609.66	1647763.82	242199.69	39°09'29.860"N	80°44'31.842"W	4127.93	157.049	1.96	0.32	1.94
11164.00	89.750	160.970	6973.44	4216.45	-3889.75	1641.10	1647795.26	242111.11	39°09'28.989"N	80°44'31.427"W	4221.77	157.125	1.09	0.03	1.09
11258.00	90.000	160.120	6973.64	4310.45	-3978.38	1672.40	1647826.56	242022.48	39°09'28.117"N	80°44'31.015"W	4315.60	157.199	0.94	0.27	-0.90
11352.00	90.620	160.210	6973.14	4404.45	-4066.80	1704.30	1647858.46	241934.06	39°09'27.248"N	80°44'30.594"W	4409.48	157.263	0.67	0.66	0.10
11445.00	90.550	161.530	6972.19	4497.43	-4154.66	1734.77	1647888.93	241846.21	39°09'26.384"N	80°44'30.192"W	4502.29	157.337	1.42	-0.08	1.42
11539.00	89.880	160.360	6971.83	4591.41	-4243.50	1765.46	1647919.62	241757.36	39°09'25.510"N	80°44'29.787"W	4596.10	157.411	1.43	-0.71	-1.24
11633.00	89.910	160.010	6972.01	4685.41	-4331.94	1797.33	1647951.48	241668.93	39°09'24.640"N	80°44'29.367"W	4690.00	157.466	0.37	0.03	-0.37
11726.00	89.510	159.550	6972.48	4778.41	-4419.20	1829.47	1647983.62	241581.67	39°09'23.782"N	80°44'28.943"W	4782.92	157.511	0.66	-0.43	-0.49
11820.00	89.570	161.440	6973.23	4872.40	-4507.80	1860.85	1648015.01	241493.07	39°09'22.911"N	80°44'28.530"W	4876.79	157.569	2.01	0.06	2.01
11914.00	89.690	160.020	6973.84	4966.39	-4596.53	1891.87	1648046.03	241404.34	39°09'22.038"N	80°44'28.120"W	4970.64	157.629	1.52	0.13	-1.51
12007.00	89.600	160.340	6974.41	5059.38	-4684.02	1923.40	1648077.56	241316.86	39°09'21.178"N	80°44'27.705"W	5063.55	157.675	0.36	-0.10	0.34
12101.00	89.600	161.550	6975.07	5153.37	-4772.87	1954.09	1648108.24	241228.01	39°09'20.304"N	80°44'27.300"W	5157.40	157.735	1.29	0.00	1.29
12195.00	89.720	162.890	6975.63	5247.29	-4862.37	1982.80	1648136.95	241138.51	39°09'19.423"N	80°44'26.920"W	5251.11	157.815	1.43	0.13	1.43
12234.00	89.720	162.890	6975.82	5286.24	-4899.65	1994.27	1648148.42	241101.24	39°09'19.056"N	80°44'26.767"W	5289.96	157.853	0.00	0.00	0.00

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OXF-13F-HS AWP Proj: 12234'

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS COMPANY, LLC	Slot	Slot F
Area	Doddridge Co., WV	Well	OXF-13F-HS
Field	Doddridge	Wellbore	OXF-13F-HS AWB
Facility	OXFD-13 Pad		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
OXF-13F-HS LP Rev-2		6932.00	-282.10	317.04	1646471.24	245718.65	39°10'04.462"N	80°44'48.870"W	point
OXF-13F-HS LP Rev-3		6939.86	-564.01	419.65	1646573.84	245436.75	39°10'01.690"N	80°44'47.518"W	point
OXFD-13 Pad LL		6972.27	2.77	19.83	1646174.04	246003.51	39°10'07.237"N	80°44'52.693"W	polygon
OXF-13F-HS BHL Rev-2		7060.66	-4899.11	1997.50	1648151.65	241101.78	39°09'19.062"N	80°44'26.727"W	point

WELLPATH COMPOSITION - Ref Wellbore: OXF-13F-HS AWB Ref Wellpath: OXF-13F-HS AWP Proj: 12234'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
28.50	2800.00	Generic gyro - northseeking (Standard)	01_VES Gyro <12-1/4"> (100'-2800')	OXF-13F-HS AWB
2800.00	5977.00	ISCVSA MWD, Rev. 2 (Standard)	02_Weatherford EM <8-3/4"> (2800')(2887'-5977')	OXF-13F-HS AWB
5977.00	12195.00	NaviTrak (AT Curve Short Spaced)	03_BHI AT Curve <8-1/2"> (5977')(6029'-12195')	OXF-13F-HS AWB
12195.00	12234.00	Blind Drilling (std)	Projection to bit	OXF-13F-HS AWB

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