



# Actual Wellpath Report

OXF-13I-HS AWP Proj: 11935'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS COMPANY, LLC	Slot	Slot I
Area	Doddridge Co., WV	Well	OXF-13I-HS
Field	Doddridge	Wellbore	OXF-13I-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	03/Jul/2015 at 14:12
Convergence at slot	0.80° West	Database/Source file	WellArchitectEasternDB/OXF-13I-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	14.32	99.07	1646273.11	246017.83	39°10'07.392"N	80°44'51.438"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	1180.67ft
Horizontal Reference Pt	Slot	Patterson 805 (RKB) to Mean Sea Level	1180.67ft
Vertical Reference Pt	Patterson 805 (RKB)	Patterson 805 (RKB) to Mud Line at Slot (Slot I)	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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CNX GAS COMPANY, LLC	Well	OXF-131-HS
Doddridge Co., WV	Wellbore	OXF-131-HS AWB
Doddridge		
OXFD-13 Pad		

## WELLPATH DATA (139 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	328.010	0.00	0.00	0.00	0.00	1646273.11	246017.83	39°10'07.392"N	80°44'51.438"W	0.00	0.000	0.00	0.00	0.00
28.50	0.000	328.010	28.50	0.00	0.00	0.00	1646273.11	246017.83	39°10'07.392"N	80°44'51.438"W	0.00	0.000	0.00	0.00	0.00
100.00	0.470	328.010	100.00	-0.29	0.25	-0.16	1646272.95	246018.08	39°10'07.394"N	80°44'51.440"W	0.29	328.010	0.66	0.66	0.00
200.00	0.600	319.660	199.99	-1.18	1.00	-0.71	1646272.40	246018.83	39°10'07.402"N	80°44'51.447"W	1.22	324.448	0.15	0.13	-8.35
300.00	0.210	321.840	299.99	-1.84	1.54	-1.16	1646271.95	246019.37	39°10'07.407"N	80°44'51.453"W	1.93	322.902	0.39	-0.39	2.18
400.00	0.300	329.420	399.99	-2.28	1.91	-1.41	1646271.70	246019.74	39°10'07.411"N	80°44'51.456"W	2.37	323.538	0.10	0.09	7.58
500.00	0.350	302.260	499.99	-2.77	2.30	-1.80	1646271.31	246020.13	39°10'07.414"N	80°44'51.462"W	2.92	321.889	0.16	0.05	-27.16
600.00	0.430	308.020	599.99	-3.33	2.69	-2.36	1646270.75	246020.52	39°10'07.418"N	80°44'51.469"W	3.58	318.802	0.09	0.08	5.76
700.00	0.520	312.100	699.98	-4.05	3.23	-2.99	1646270.12	246021.06	39°10'07.423"N	80°44'51.477"W	4.40	317.197	0.10	0.09	4.08
800.00	0.280	293.580	799.98	-4.62	3.63	-3.55	1646269.56	246021.46	39°10'07.427"N	80°44'51.484"W	5.08	315.637	0.27	-0.24	-18.52
900.00	0.300	307.760	899.98	-5.01	3.89	-3.98	1646269.13	246021.72	39°10'07.430"N	80°44'51.489"W	5.56	314.322	0.07	0.02	14.18
1000.00	0.330	272.490	999.98	-5.34	4.06	-4.47	1646268.64	246021.89	39°10'07.431"N	80°44'51.496"W	6.04	312.216	0.19	0.03	-35.27
1100.00	0.200	251.750	1099.98	-5.46	4.02	-4.93	1646268.18	246021.85	39°10'07.431"N	80°44'51.501"W	6.36	309.187	0.16	-0.13	-20.74
1200.00	0.220	244.140	1199.98	-5.45	3.88	-5.27	1646267.84	246021.71	39°10'07.429"N	80°44'51.506"W	6.54	306.373	0.03	0.02	-7.61
1300.00	0.220	254.590	1299.98	-5.44	3.74	-5.62	1646267.49	246021.57	39°10'07.428"N	80°44'51.510"W	6.76	303.652	0.04	0.00	10.45
1400.00	0.220	257.240	1399.98	-5.48	3.65	-6.00	1646267.11	246021.48	39°10'07.427"N	80°44'51.515"W	7.02	301.332	0.01	0.00	2.65
1500.00	0.270	273.290	1499.97	-5.60	3.62	-6.42	1646266.69	246021.45	39°10'07.427"N	80°44'51.520"W	7.37	299.432	0.08	0.05	16.05
1600.00	0.290	275.290	1599.97	-5.80	3.66	-6.91	1646266.20	246021.49	39°10'07.427"N	80°44'51.527"W	7.82	297.912	0.02	0.02	2.00
1700.00	0.210	278.570	1699.97	-6.00	3.71	-7.34	1646265.77	246021.54	39°10'07.427"N	80°44'51.532"W	8.22	296.811	0.08	-0.08	3.28
1800.00	0.250	239.010	1799.97	-6.04	3.62	-7.71	1646265.40	246021.45	39°10'07.427"N	80°44'51.537"W	8.52	295.183	0.16	0.04	-39.56
1900.00	0.440	253.480	1899.97	-6.02	3.40	-8.26	1646264.85	246021.23	39°10'07.424"N	80°44'51.544"W	8.94	292.382	0.21	0.19	14.47
2000.00	0.250	254.820	1999.97	-6.06	3.24	-8.84	1646264.27	246021.07	39°10'07.423"N	80°44'51.551"W	9.41	290.104	0.19	-0.19	1.34
2100.00	0.210	262.380	2099.97	-6.12	3.15	-9.23	1646263.88	246020.98	39°10'07.422"N	80°44'51.556"W	9.76	288.864	0.05	-0.04	7.56
2200.00	0.180	260.420	2199.97	-6.19	3.01	-9.57	1646263.54	246020.93	39°10'07.422"N	80°44'51.560"W	10.06	287.972	0.03	-0.03	-1.96
2300.00	0.130	232.410	2299.97	-6.18	3.10	-9.81	1646263.30	246020.84	39°10'07.420"N	80°44'51.563"W	10.27	287.044	0.09	-0.05	-28.01
2400.00	0.100	239.770	2399.97	-6.13	2.90	-9.98	1646263.13	246020.73	39°10'07.419"N	80°44'51.565"W	10.39	286.181	0.03	-0.03	7.36
2500.00	0.160	288.110	2499.97	-6.21	2.90	-10.19	1646262.92	246020.73	39°10'07.419"N	80°44'51.568"W	10.59	285.864	0.12	0.06	48.34
2600.00	0.350	287.600	2599.96	-6.48	3.03	-10.61	1646262.50	246020.86	39°10'07.420"N	80°44'51.573"W	11.04	285.941	0.19	0.19	-0.51
2700.00	0.430	289.730	2699.96	-6.98	3.25	-11.26	1646261.85	246021.08	39°10'07.422"N	80°44'51.582"W	11.72	286.105	0.08	0.08	2.13
2800.00	0.500	279.400	2799.96	-7.36	3.45	-12.04	1646261.07	246021.28	39°10'07.424"N	80°44'51.592"W	12.52	285.981	0.11	0.07	-10.33

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Operator	CNX GAS COMPANY, LLC	Slot	Slot I
Area	Doddridge Co., WV	Well	OXF-131-HS
Field	Doddridge	Wellbore	OXF-131-HS AWB
Facility	OXFD-13 Pad		

## WELLPATH DATA (139 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]
2823.00	1.030	274.040	2822.96	-7.49	3.48	-12.35	1646260.77	246021.31	39°10'07.425"N	80°44'51.596"W	12.83	285.738	2.32	2.30	-23.30
2909.00	0.740	292.590	2908.95	-8.18	3.75	-13.63	1646259.48	246021.58	39°10'07.427"N	80°44'51.612"W	14.13	285.372	0.47	-0.34	21.57
3002.00	0.690	15.240	3001.94	-9.05	4.52	-14.04	1646259.07	246022.35	39°10'07.435"N	80°44'51.617"W	14.75	287.841	1.02	-0.05	88.87
3096.00	6.650	70.860	3095.72	-9.43	6.85	-8.74	1646264.37	246024.68	39°10'07.458"N	80°44'51.550"W	11.11	308.090	6.69	6.34	59.17
3190.00	9.270	70.340	3188.80	-9.30	11.18	3.53	1646276.64	246029.01	39°10'07.503"N	80°44'51.395"W	11.73	17.535	2.79	2.79	-0.55
3283.00	14.480	70.100	3279.78	-9.24	17.67	21.53	1646294.64	246035.49	39°10'07.569"N	80°44'51.168"W	27.85	50.634	5.60	5.60	-0.26
3377.00	17.660	76.230	3370.10	-7.67	25.06	46.44	1646319.55	246042.89	39°10'07.646"N	80°44'50.853"W	52.77	61.646	3.83	3.38	6.52
3467.00	16.090	79.310	3456.23	-4.17	30.63	71.96	1646345.06	246048.45	39°10'07.704"N	80°44'50.530"W	78.20	66.945	2.01	-1.74	3.42
3562.00	14.960	77.810	3547.76	-0.37	35.66	96.88	1646369.99	246053.49	39°10'07.758"N	80°44'50.215"W	103.23	69.794	1.26	-1.19	-1.58
3656.00	14.840	84.450	3638.60	4.28	39.38	120.72	1646393.83	246057.21	39°10'07.798"N	80°44'49.913"W	126.98	71.932	1.82	-0.13	7.06
3750.00	15.190	81.450	3729.40	9.73	42.38	144.88	1646417.99	246060.21	39°10'07.831"N	80°44'49.606"W	150.95	73.696	0.91	0.37	-3.19
3844.00	15.550	82.340	3820.03	14.87	45.89	169.55	1646442.65	246063.72	39°10'07.869"N	80°44'49.294"W	175.65	74.855	0.46	0.38	0.95
3937.00	15.430	84.200	3909.66	20.57	48.80	194.21	1646467.31	246066.63	39°10'07.901"N	80°44'48.981"W	200.25	75.895	0.55	-0.13	2.00
4031.00	15.950	83.630	4000.15	26.68	51.50	219.49	1646492.59	246069.33	39°10'07.931"N	80°44'48.661"W	225.45	76.796	0.58	0.55	-0.61
4124.00	15.820	77.270	4089.61	31.29	55.71	244.55	1646517.65	246073.54	39°10'07.976"N	80°44'48.343"W	250.82	77.167	1.88	-0.14	-6.84
4218.00	16.560	75.630	4179.88	34.23	61.86	270.03	1646543.13	246079.68	39°10'08.040"N	80°44'48.021"W	277.02	77.098	0.93	0.79	-1.74
4311.00	18.770	81.490	4268.50	38.51	67.36	297.67	1646570.77	246085.19	39°10'08.098"N	80°44'47.671"W	305.20	77.249	3.05	2.38	6.30
4405.00	19.450	79.100	4357.32	44.00	72.56	327.99	1646601.09	246090.39	39°10'08.154"N	80°44'47.287"W	335.92	77.526	1.10	0.72	-2.54
4499.00	19.220	81.760	4446.02	49.63	77.74	358.68	1646631.78	246095.56	39°10'08.209"N	80°44'46.898"W	367.00	77.771	0.97	-0.24	2.83
4592.00	19.300	80.900	4533.81	55.65	82.36	389.00	1646662.10	246100.19	39°10'08.259"N	80°44'46.514"W	397.62	78.046	0.32	0.09	-0.92
4686.00	20.320	78.710	4622.25	61.06	88.01	420.35	1646693.44	246105.84	39°10'08.319"N	80°44'46.117"W	429.46	78.174	1.34	1.09	-2.33
4779.00	19.040	82.830	4709.82	66.88	93.07	451.24	1646724.33	246110.89	39°10'08.374"N	80°44'45.726"W	460.73	78.346	2.03	-1.38	4.43
4873.00	17.110	87.630	4799.18	74.47	95.55	480.27	1646753.36	246113.38	39°10'08.402"N	80°44'45.358"W	489.68	78.747	2.59	-2.05	5.11
4967.00	17.130	86.650	4889.02	82.62	96.93	507.90	1646781.00	246114.76	39°10'08.420"N	80°44'45.007"W	517.07	79.195	0.31	0.02	-1.04
5061.00	18.980	82.180	4978.39	89.82	99.82	536.87	1646809.97	246117.65	39°10'08.452"N	80°44'44.640"W	546.07	79.467	2.46	1.97	-4.76
5154.00	18.230	76.820	5066.54	94.74	105.20	566.02	1646839.11	246123.03	39°10'08.509"N	80°44'44.271"W	575.71	79.471	2.01	-0.81	-5.76
5248.00	17.540	78.370	5155.99	98.54	111.41	594.21	1646867.30	246129.23	39°10'08.574"N	80°44'43.914"W	604.56	79.381	0.89	-0.73	1.65
5341.00	17.420	80.810	5246.70	103.20	116.45	621.68	1646894.77	246134.28	39°10'08.628"N	80°44'43.566"W	632.49	79.390	0.80	-0.13	2.62
5435.00	19.510	85.110	5335.86	109.93	120.04	651.21	1646924.30	246137.87	39°10'08.667"N	80°44'43.192"W	662.19	79.556	2.65	2.22	4.57
5554.00	17.830	85.840	5416.59	120.08	123.06	689.19	1646962.28	246140.88	39°10'08.703"N	80°44'42.710"W	700.09	79.876	1.43	-1.41	0.61

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5642.00	16.270	85.820	5530.72	127.12	124.93	714.92	1646988.01	246142.76	39°10'08.725"N	80°44'42.384"W	725.75	80.088	1.77	-1.77	-0.02
5735.00	14.250	84.520	5620.44	133.54	126.98	739.31	1647012.40	246144.80	39°10'08.748"N	80°44'42.075"W	750.13	80.255	2.20	-2.17	-1.40
5828.00	14.690	87.650	5710.49	139.99	128.55	762.48	1647035.57	246146.38	39°10'08.767"N	80°44'41.781"W	773.25	80.430	0.96	0.47	3.37
5922.00	14.910	87.620	5801.37	147.26	129.54	786.48	1647059.56	246147.37	39°10'08.780"N	80°44'41.476"W	797.07	80.647	0.23	0.23	-0.03
6016.00	15.210	80.290	5892.15	153.12	132.13	810.72	1647083.80	246149.95	39°10'08.809"N	80°44'41.169"W	821.41	80.744	2.05	0.32	-7.80
6109.00	15.430	71.890	5981.86	155.71	138.03	834.50	1647107.59	246155.85	39°10'08.870"N	80°44'40.868"W	845.84	80.608	2.40	0.24	-9.03
6203.00	15.640	75.220	6072.43	157.28	145.15	858.64	1647131.72	246162.97	39°10'08.944"N	80°44'40.563"W	870.82	80.405	0.97	0.22	3.54
6297.00	15.510	81.150	6162.98	160.86	150.32	883.31	1647156.40	246168.14	39°10'08.998"N	80°44'40.251"W	896.01	80.342	1.70	-0.14	6.31
6390.00	15.530	83.980	6252.59	166.27	153.53	907.98	1647181.06	246171.36	39°10'09.034"N	80°44'39.938"W	920.87	80.402	0.81	0.02	3.04
6484.00	15.400	84.640	6343.19	172.47	156.02	932.92	1647206.00	246173.84	39°10'09.062"N	80°44'39.622"W	945.88	80.506	0.23	-0.14	0.70
6532.00	15.480	85.380	6389.46	175.78	157.13	945.65	1647218.73	246174.96	39°10'09.074"N	80°44'39.460"W	958.62	80.566	0.44	0.17	1.54
6578.00	14.490	94.330	6433.90	179.78	157.19	957.51	1647230.59	246175.02	39°10'09.077"N	80°44'39.310"W	970.33	80.677	5.46	-2.15	19.46
6628.00	13.470	111.440	6482.44	186.21	154.59	969.17	1647242.25	246172.41	39°10'09.052"N	80°44'39.161"W	981.42	80.937	8.48	-2.04	34.22
6671.00	16.040	125.040	6524.03	194.40	149.34	978.70	1647251.78	246167.17	39°10'09.002"N	80°44'39.039"W	990.03	81.324	9.99	5.98	31.63
6721.00	19.300	130.090	6571.66	207.23	140.05	990.68	1647263.76	246157.88	39°10'08.912"N	80°44'38.886"W	1000.53	81.953	7.20	6.52	10.10
6765.00	23.240	130.590	6612.66	221.10	129.72	1002.84	1647275.92	246147.55	39°10'08.811"N	80°44'38.729"W	1011.20	82.630	8.96	8.95	1.14
6816.00	28.870	130.770	6658.46	240.62	115.12	1019.82	1647292.90	246132.95	39°10'08.669"N	80°44'38.511"W	1026.30	83.560	11.04	11.04	0.35
6859.00	34.140	134.210	6695.11	260.56	99.92	1036.35	1647309.43	246117.74	39°10'08.521"N	80°44'38.299"W	1041.15	84.493	12.94	12.26	8.00
6911.00	39.550	138.470	6736.71	289.12	77.33	1057.80	1647330.88	246095.16	39°10'08.301"N	80°44'38.023"W	1060.62	85.819	11.50	10.40	8.19
6952.00	43.860	140.700	6767.32	314.69	56.55	1075.46	1647348.54	246074.38	39°10'08.098"N	80°44'37.795"W	1076.95	86.990	11.12	10.51	5.44
7004.00	49.160	142.480	6803.10	350.47	26.99	1098.87	1647371.95	246044.82	39°10'07.809"N	80°44'37.492"W	1099.20	88.593	10.49	10.19	3.42
7046.00	53.260	144.320	6829.40	381.84	0.71	1118.37	1647391.45	246018.54	39°10'07.552"N	80°44'37.240"W	1118.37	89.964	10.34	9.76	4.38
7098.00	57.780	147.130	6858.84	423.37	-34.72	1142.48	1647415.55	245983.11	39°10'07.205"N	80°44'36.928"W	1143.00	91.741	9.77	8.69	5.40
7140.00	62.010	148.870	6879.90	458.91	-65.53	1161.72	1647434.79	245952.30	39°10'06.903"N	80°44'36.678"W	1163.56	93.228	10.69	10.07	4.14
7193.00	68.590	152.900	6902.04	506.42	-107.58	1185.09	1647458.16	245910.25	39°10'06.491"N	80°44'36.374"W	1189.96	95.187	14.20	12.42	7.60
7234.00	70.250	152.490	6916.45	544.49	-141.69	1202.69	1647475.77	245876.15	39°10'06.156"N	80°44'36.145"W	1211.01	96.719	4.16	4.05	-1.00
7281.00	71.200	155.620	6931.97	588.61	-181.58	1222.10	1647495.17	245836.26	39°10'05.765"N	80°44'35.891"W	1235.51	98.451	6.60	2.02	6.66
7327.00	74.230	156.940	6945.64	630.43	-221.78	1239.76	1647512.83	245796.05	39°10'05.370"N	80°44'35.660"W	1259.44	100.142	7.13	6.59	2.87
7375.00	79.420	157.370	6956.58	679.09	-264.84	1257.90	1647530.97	245753.00	39°10'04.947"N	80°44'35.422"W	1285.47	101.889	10.85	10.81	0.90
7421.00	85.350	158.140	6962.67	727.63	-307.02	1275.15	1647548.22	245710.82	39°10'04.532"N	80°44'35.196"W	1311.59	103.538	13.00	12.89	1.67

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# Actual Wellpath Report

OXF-131-HS AWP Proj: 11935'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS COMPANY, LLC	Slot	Slot I
Area	Doddridge Co., WV	Well	OXF-131-HS
Field	Doddridge	Wellbore	OXF-131-HS AWB
Facility	OXFD-13 Pad		

## WELLPATH DATA (139 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Seet [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]
7515.00	89.940	160.930	6966.53	818.52	-394.98	1307.97	1647581.04	2456222.86	39°10'03.667"N	80°44'34.764"W	1366.31	106.803	5.71	4.88	2.97
7608.00	90.060	166.690	6966.53	911.27	-484.26	1333.89	1647606.96	2455333.59	39°10'02.789"N	80°44'34.419"W	1419.07	109.953	6.19	0.13	6.19
7702.00	89.940	170.230	6966.53	1004.23	-576.34	1352.69	1647625.76	2454411.50	39°10'01.881"N	80°44'34.164"W	1470.36	113.077	3.77	-0.13	3.77
7795.00	90.250	168.530	6966.38	1095.99	-667.75	1369.83	1647642.90	2453501.10	39°10'00.980"N	80°44'33.930"W	1523.92	115.988	1.86	0.33	-1.83
7889.00	90.370	159.950	6965.87	1189.64	-758.13	1395.34	1647668.41	2452597.73	39°10'00.090"N	80°44'33.591"W	1587.99	118.517	9.13	0.13	-9.13
7983.00	90.340	157.700	6965.29	1283.61	-845.77	1429.29	1647702.36	2451722.08	39°09'59.229"N	80°44'33.144"W	1660.78	120.615	2.39	-0.03	-2.39
8077.00	90.340	158.380	6964.73	1377.56	-932.95	1464.44	1647737.51	2450849.91	39°09'58.372"N	80°44'32.683"W	1736.37	122.500	0.72	0.00	0.72
8171.00	90.310	153.870	6964.19	1471.31	-1018.88	1502.48	1647775.54	2449989.98	39°09'57.528"N	80°44'32.185"W	1815.37	124.143	4.80	-0.03	-4.80
8264.00	90.280	150.760	6963.71	1563.47	-1101.23	1545.68	1647818.74	2449166.64	39°09'56.720"N	80°44'31.622"W	1897.85	125.468	3.34	-0.03	-3.34
8358.00	89.940	153.040	6963.53	1656.52	-1184.14	1589.95	1647863.01	2448333.73	39°09'55.907"N	80°44'31.045"W	1982.46	126.677	2.45	-0.36	2.43
8451.00	89.940	157.080	6963.63	1749.16	-1268.45	1629.16	1647902.22	2447494.42	39°09'55.079"N	80°44'30.533"W	2064.73	127.904	4.34	0.00	4.34
8545.00	89.750	156.630	6963.89	1843.02	-1354.88	1666.10	1647939.17	2446629.99	39°09'54.230"N	80°44'30.048"W	2147.47	129.118	0.52	-0.20	-0.48
8639.00	89.540	158.210	6964.47	1936.92	-1441.67	1702.20	1647975.26	2445762.20	39°09'53.377"N	80°44'29.575"W	2230.67	130.263	1.70	-0.22	1.68
8732.00	89.510	156.490	6965.24	2029.81	-1527.49	1738.01	1648011.07	2444903.38	39°09'52.534"N	80°44'29.105"W	2313.85	131.311	1.85	-0.03	-1.85
8826.00	89.660	159.830	6965.92	2123.75	-1614.73	1772.97	1648046.03	2444033.14	39°09'51.676"N	80°44'28.646"W	2398.08	132.326	3.56	0.16	3.55
8919.00	89.600	160.210	6966.52	2216.74	-1702.13	1804.75	1648077.80	2443157.75	39°09'50.817"N	80°44'28.228"W	2480.80	133.324	0.41	-0.06	0.41
9013.00	89.630	160.450	6967.15	2310.74	-1790.65	1836.39	1648109.44	2442272.24	39°09'49.946"N	80°44'27.810"W	2564.90	134.277	0.26	0.03	0.26
9107.00	89.630	161.550	6967.76	2404.72	-1879.52	1866.99	1648140.05	2441383.36	39°09'49.072"N	80°44'27.406"W	2649.20	135.192	1.17	0.00	1.17
9200.00	89.600	164.140	6968.38	2497.60	-1968.38	1894.42	1648167.47	2440494.51	39°09'48.198"N	80°44'27.043"W	2731.91	136.097	2.79	-0.03	2.78
9294.00	89.600	165.170	6969.04	2591.28	-2059.02	1919.29	1648192.35	2439588.87	39°09'47.305"N	80°44'26.711"W	2814.83	137.012	1.10	0.00	1.10
9387.00	89.750	161.340	6969.57	2684.11	-2148.06	1946.08	1648219.13	2438669.83	39°09'46.429"N	80°44'26.355"W	2898.52	137.824	4.12	0.16	-4.12
9481.00	89.910	162.490	6969.85	2778.06	-2237.41	1975.26	1648248.31	2437804.48	39°09'45.550"N	80°44'25.969"W	2984.57	138.561	1.24	0.17	1.22
9575.00	89.850	164.620	6970.04	2871.87	-2327.56	2001.87	1648274.92	2436903.34	39°09'44.663"N	80°44'25.615"W	3070.02	139.302	1.27	-0.06	2.27
9668.00	90.030	162.870	6970.14	2964.67	-2416.84	2027.90	1648300.95	2436011.06	39°09'43.784"N	80°44'25.269"W	3154.92	140.001	1.89	0.19	-1.88
9762.00	89.630	164.220	6970.42	3058.49	-2506.99	2054.53	1648327.58	2435101.92	39°09'42.896"N	80°44'24.916"W	3241.31	140.665	1.50	-0.43	1.44
9855.00	89.630	164.330	6971.02	3151.23	-2596.51	2079.73	1648352.78	2434211.40	39°09'42.015"N	80°44'24.580"W	3326.73	141.306	0.12	0.00	0.12
9949.00	89.600	163.000	6971.65	3245.03	-2686.71	2106.17	1648379.22	2433311.20	39°09'41.127"N	80°44'24.229"W	3413.85	141.906	1.42	-0.03	-1.41
10043.00	89.600	161.230	6972.31	3338.96	-2776.18	2134.96	1648408.00	2432411.73	39°09'40.247"N	80°44'23.847"W	3502.18	142.439	1.78	0.00	-1.78
10137.00	89.690	159.720	6972.89	3432.95	-2864.52	2167.06	1648440.11	2431533.39	39°09'39.378"N	80°44'23.424"W	3591.89	142.892	2.78	0.10	-2.78
10230.00	89.350	156.100	6973.61	3525.93	-2951.35	2200.37	1648473.41	2430666.57	39°09'38.525"N	80°44'22.986"W	3681.32	143.294	0.73	-0.37	0.63

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# Actual Wellpath Report

OXF-131-HS AWP Proj: 11935'

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## REFERENCE WELLPATH IDENTIFICATION

		Slot I
Operator	CNX GAS COMPANY, LLC	Slot I
Area	Doddridge Co., WV	OXF-131-HS
Field	Doddridge	OXF-131-HS AWB
Facility	OXFD-13 Pad	

## WELLPATH DATA (139 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]
10324.00	89.450	157.710	6974.66	3619.89	-3038.81	2234.80	1648507.85	242979.11	39°09'37.665"N	80°44'22.534"W	3772.09	143.668	1.71	0.11	-1.70
10418.00	89.510	155.820	6975.51	3713.73	-3125.18	2271.88	1648544.92	242892.75	39°09'36.817"N	80°44'22.048"W	3863.70	143.984	2.01	0.06	-2.01
10511.00	89.480	156.260	6976.33	3806.51	-3210.16	2309.65	1648582.69	242807.77	39°09'35.982"N	80°44'21.554"W	3954.69	144.266	0.47	-0.03	0.47
10605.00	89.260	162.110	6977.36	3900.45	-3297.98	2343.03	1648616.07	242719.95	39°09'35.118"N	80°44'21.115"W	4045.55	144.608	6.23	-0.23	6.22
10698.00	89.170	161.200	6978.64	3993.40	-3386.24	2372.30	1648645.34	242631.69	39°09'34.250"N	80°44'20.728"W	4134.54	144.986	0.98	-0.10	-0.98
10792.00	89.110	157.770	6980.05	4087.37	-3474.26	2405.24	1648678.27	242543.67	39°09'33.385"N	80°44'20.294"W	4225.59	145.305	3.65	-0.06	-3.65
10885.00	89.230	154.420	6981.40	4180.14	-3559.26	2442.91	1648715.95	242458.68	39°09'32.550"N	80°44'19.801"W	4316.96	145.536	3.60	0.13	-3.60
10979.00	89.140	150.090	6982.73	4273.25	-3642.42	2486.66	1648759.69	242375.51	39°09'31.734"N	80°44'19.231"W	4410.30	145.679	4.61	-0.10	-4.61
11073.00	89.140	151.860	6984.14	4366.07	-3724.61	2532.26	1648805.29	242293.33	39°09'30.928"N	80°44'18.638"W	4503.89	145.789	1.88	0.00	1.88
11166.00	89.140	154.600	6985.54	4458.40	-3807.62	2574.14	1648847.17	242210.32	39°09'30.113"N	80°44'18.092"W	4596.10	145.939	2.95	0.00	2.95
11260.00	89.170	157.180	6986.93	4552.14	-3893.40	2612.53	1648885.56	242124.54	39°09'29.271"N	80°44'17.590"W	4688.70	146.138	2.74	0.03	2.74
11354.00	89.570	156.610	6987.96	4646.00	-3979.86	2649.41	1648922.44	242038.09	39°09'28.421"N	80°44'17.106"W	4781.07	146.348	0.74	0.43	-0.61
11447.00	89.540	161.910	6988.68	4738.95	-4066.80	2682.33	1648955.37	241951.15	39°09'27.566"N	80°44'16.673"W	4871.73	146.592	5.70	-0.03	5.70
11541.00	89.570	166.770	6989.41	4832.65	-4157.28	2707.70	1648980.73	241860.67	39°09'26.676"N	80°44'16.335"W	4961.31	146.923	5.17	0.03	5.17
11635.00	89.540	166.760	6990.14	4926.00	-4248.78	2729.22	1649002.25	241769.18	39°09'25.774"N	80°44'16.046"W	5049.83	147.285	0.03	-0.03	-0.01
11728.00	90.180	166.850	6990.37	5018.34	-4339.32	2750.45	1649023.48	241678.63	39°09'24.882"N	80°44'15.761"W	5137.58	147.632	0.69	0.69	0.10
11822.00	90.220	160.010	6990.04	5112.11	-4429.37	2777.24	1649050.27	241588.59	39°09'23.996"N	80°44'15.405"W	5228.03	147.912	7.28	0.04	-7.28
11910.00	90.120	156.790	6989.78	5200.07	-4511.18	2809.63	1649082.66	241506.79	39°09'23.192"N	80°44'14.980"W	5314.58	148.085	3.66	-0.11	-3.66
11935.00	90.120	156.790	6989.73	5225.03	-4534.15	2819.48	1649092.51	241483.81	39°09'22.966"N	80°44'14.851"W	5339.29	148.125	0.00	0.00	0.00

## HOLE & CASING SECTIONS - Ref Wellbore: OXF-131-HS AWB Ref Wellpath: OXF-131-HS AWP Proj: 11935'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
9.625in Casing Intermediate	28.50	2847.00	2818.50	28.50	2846.95	0.00	0.00	3.52	-12.76

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# Actual Wellpath Report

OXF-131-HS AWP Proj: 11935'  
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### REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot I
CNX GAS COMPANY, LLC	Well	OXF-131-HS
Area Doddridge Co., WV	Wellbore	OXF-131-HS AWB
Field Doddridge		
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-131-HS LP Rev3		6962.00	-329.86	1278.81	1647551.88	245687.98	39°10'04.307"N	80°44'35.145"W	point
OXFD-13 Pad LL		6972.17	-14.32	-99.07	1646174.04	246003.51	39°10'07.237"N	80°44'52.693"W	polygon
OXF-131-HS BHL Rev3		7001.08	-4537.92	2810.42	1649083.45	241480.04	39°09'22.928"N	80°44'14.965"W	point

### WELLPATH COMPOSITION - Ref Wellbore: OXF-131-HS AWB Ref Wellpath: OXF-131-HS AWP Proj: 11935'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
28.50	2823.00	Generic gyro - northseeking (Standard)	01_VES Gyro <12-1/4"> (100'-2823')	OXF-131-HS AWB
2823.00	5435.00	ISWASA MWD, Rev. 2 (Standard)	02_SDI EM <8-3/4"> (2823')(2909'-5435') Proj:5615'	OXF-131-HS AWB
5435.00	11910.00	NaviTrak (AT Curve Short Spaced)	03_BHI AT Curve <8-1/2"> (5435')(5554'-11910')	OXF-131-HS AWB
11910.00	11935.00	Blind Drilling (std)	Projection to bit	OXF-131-HS AWB

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