



# Actual Wellpath Report

OXF-13E-HS AWP Proj: 13695'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Slot	Slot E
Area	Doddridge Co., WV	Well	OXF-13E-HS
Field	Doddridge	Wellbore	OXF-13E-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	13/Jul/2015 at 10:13
Convergence at slot	0.80° West	Database/Source file	WellArchitectEasternDB/OXF-13E-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	11.34	79.12	1646253.16	246014.85	39°10'07.360"N	80°44'51.691"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		1180.76ft
Horizontal Reference Pt	Slot	Patterson 805 (RKB) to Facility Vertical Datum	1180.76ft
Vertical Reference Pt	Patterson 805 (RKB)	Patterson 805 (RKB) to Mean Sea Level	28.50ft
MD Reference Pt	Patterson 805 (RKB)	Patterson 805 (RKB) to Mud Line at Slot (Slot E)	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Origin	340.00°
		Section Azimuth	

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

### REFERENCE WELLPATH IDENTIFICATION

### WELLPATH DATA (175 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	323.140	0.00	0.00	0.00	0.00	1646253.16	246014.85	39°10'07.360"N	80°44'51.691"W	0.00	0.000	0.00	0.00	0.00
28.50	0.000	323.140	28.50	0.00	0.00	0.00	1646253.16	246014.85	39°10'07.360"N	80°44'51.691"W	0.00	0.000	0.00	0.00	0.00
104.00	0.580	323.140	104.00	0.37	0.31	-0.23	1646252.93	246015.16	39°10'07.363"N	80°44'51.694"W	0.38	323.140	0.77	0.77	0.00
204.00	0.360	308.970	204.00	1.12	0.91	-0.78	1646252.38	246015.76	39°10'07.369"N	80°44'51.701"W	1.20	319.451	0.25	-0.22	-14.17
304.00	0.260	296.860	303.99	1.55	1.21	-1.22	1646251.94	246016.06	39°10'07.371"N	80°44'51.707"W	1.72	314.638	0.12	-0.10	-12.11
404.00	0.240	301.420	403.99	1.88	1.42	-1.60	1646251.56	246016.27	39°10'07.373"N	80°44'51.712"W	2.14	311.504	0.03	-0.02	4.56
504.00	0.170	280.490	503.99	2.12	1.56	-1.93	1646251.23	246016.41	39°10'07.375"N	80°44'51.716"W	2.48	308.888	0.10	-0.07	-20.93
604.00	0.190	264.660	603.99	2.24	1.57	-2.24	1646250.92	246016.42	39°10'07.375"N	80°44'51.720"W	2.73	304.984	0.05	0.02	-15.83
704.00	0.260	268.140	703.99	2.35	1.55	-2.63	1646250.53	246016.40	39°10'07.375"N	80°44'51.725"W	3.05	300.411	0.07	0.07	3.48
804.00	0.380	276.190	803.99	2.57	1.57	-3.19	1646249.97	246016.42	39°10'07.375"N	80°44'51.732"W	3.56	296.263	0.13	0.12	8.05
904.00	0.270	270.520	903.99	2.80	1.61	-3.75	1646249.41	246016.46	39°10'07.375"N	80°44'51.739"W	4.09	293.230	0.11	-0.11	-5.67
1004.00	0.350	268.400	1003.99	2.98	1.60	-4.29	1646248.87	246016.45	39°10'07.375"N	80°44'51.746"W	4.59	290.490	0.08	0.08	-2.12
1104.00	0.260	279.470	1103.98	3.19	1.63	-4.82	1646248.34	246016.48	39°10'07.375"N	80°44'51.753"W	5.09	288.709	0.11	-0.09	11.07
1204.00	0.380	283.110	1203.98	3.48	1.75	-5.37	1646247.79	246016.60	39°10'07.376"N	80°44'51.759"W	5.65	288.012	0.12	0.12	3.64
1304.00	0.530	295.980	1303.98	3.99	2.02	-6.11	1646247.05	246016.87	39°10'07.379"N	80°44'51.769"W	6.44	288.330	0.18	0.15	12.87
1404.00	0.610	302.170	1403.98	4.74	2.51	-6.98	1646246.18	246017.36	39°10'07.383"N	80°44'51.780"W	7.41	289.790	0.10	0.08	6.19
1504.00	0.800	307.750	1503.97	5.76	3.22	-7.98	1646245.18	246018.07	39°10'07.390"N	80°44'51.793"W	8.60	291.984	0.20	0.19	5.58
1604.00	0.710	305.960	1603.96	6.86	4.01	-9.03	1646244.13	246018.86	39°10'07.398"N	80°44'51.806"W	9.88	293.952	0.09	-0.09	-1.79
1704.00	0.710	285.540	1703.95	7.73	4.54	-10.13	1646243.03	246019.39	39°10'07.403"N	80°44'51.820"W	11.10	294.149	0.25	0.00	-20.42
1804.00	0.590	288.090	1803.94	8.41	4.87	-11.22	1646241.94	246019.72	39°10'07.406"N	80°44'51.834"W	12.23	293.460	0.12	-0.12	2.55
1904.00	0.570	290.860	1903.94	9.05	5.20	-12.17	1646240.99	246020.05	39°10'07.409"N	80°44'51.846"W	13.24	293.154	0.03	-0.02	2.77
2004.00	0.550	298.830	2003.94	9.74	5.61	-13.06	1646240.10	246020.46	39°10'07.413"N	80°44'51.858"W	14.21	293.265	0.08	-0.02	7.97
2104.00	0.520	294.810	2103.93	10.42	6.04	-13.89	1646239.27	246020.89	39°10'07.417"N	80°44'51.868"W	15.14	293.487	0.05	-0.03	-4.02
2204.00	0.450	299.220	2203.93	11.04	6.42	-14.64	1646238.52	246021.27	39°10'07.421"N	80°44'51.878"W	15.99	293.665	0.08	-0.07	4.41
2304.00	0.490	290.870	2303.92	11.62	6.76	-15.39	1646237.77	246021.61	39°10'07.424"N	80°44'51.888"W	16.81	293.724	0.08	0.04	-8.35
2404.00	0.700	292.710	2403.92	12.31	7.15	-16.35	1646236.81	246022.00	39°10'07.428"N	80°44'51.900"W	17.84	293.621	0.21	0.21	1.84
2504.00	0.780	284.890	2503.91	13.11	7.56	-17.57	1646235.59	246022.41	39°10'07.432"N	80°44'51.915"W	19.13	293.282	0.13	0.08	-7.82
2604.00	0.920	282.990	2603.90	13.94	7.92	-19.01	1646234.15	246022.77	39°10'07.435"N	80°44'51.934"W	20.59	292.607	0.14	0.14	-1.90
2704.00	0.930	282.100	2703.89	14.81	8.27	-20.59	1646232.57	246023.12	39°10'07.439"N	80°44'51.954"W	22.18	291.878	0.02	0.01	-0.89
2774.00	0.930	287.920	2773.88	15.46	8.56	-21.68	1646231.48	246023.41	39°10'07.441"N	80°44'51.968"W	23.31	291.545	0.13	0.00	8.31





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Area	Doddridge Co., WV	Well	OXF-13E-HS
Field	Doddridge	Wellbore	OXF-13E-HS AWB
Facility	OXFD-13 Pad		

## WELLPATH DATA (175 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]
2895.00	0.970	284.360	2894.86	16.64	9.12	-23.61	1646229.55	246023.97	39°10'07.447"N	80°44'51.992"W	25.31	291.114	0.06	0.03	-2.94
2926.00	0.990	288.530	2925.86	16.96	9.27	-24.12	1646229.04	246024.12	39°10'07.448"N	80°44'51.999"W	25.84	291.019	0.24	0.06	13.45
2958.00	0.940	292.480	2957.85	17.31	9.45	-24.62	1646228.54	246024.30	39°10'07.450"N	80°44'52.005"W	26.37	291.007	0.26	-0.16	12.34
2990.00	0.830	300.880	2989.85	17.66	9.67	-25.06	1646228.10	246024.52	39°10'07.452"N	80°44'52.011"W	26.86	291.106	0.53	-0.34	26.25
3021.00	0.650	12.870	3020.85	17.98	9.96	-25.22	1646227.94	246024.81	39°10'07.455"N	80°44'52.013"W	27.11	291.555	2.84	-0.58	232.23
3053.00	2.070	55.180	3052.84	18.28	10.47	-24.70	1646228.46	246025.32	39°10'07.460"N	80°44'52.006"W	26.83	292.966	5.15	4.44	132.22
3085.00	3.990	63.090	3084.79	18.57	11.30	-23.23	1646229.93	246026.15	39°10'07.468"N	80°44'51.988"W	25.84	295.940	6.13	6.00	24.72
3117.00	6.020	64.260	3116.67	18.87	12.53	-20.73	1646232.43	246027.38	39°10'07.481"N	80°44'51.956"W	24.22	301.160	6.35	6.34	3.66
3148.00	7.880	65.170	3147.44	19.21	14.13	-17.34	1646235.82	246028.98	39°10'07.497"N	80°44'51.914"W	22.37	309.188	6.01	6.00	2.94
3180.00	9.360	65.220	3179.07	19.61	16.14	-12.98	1646240.18	246030.99	39°10'07.517"N	80°44'51.859"W	20.72	321.196	4.63	4.63	0.16
3212.00	10.670	65.650	3210.59	20.05	18.46	-7.92	1646245.24	246033.31	39°10'07.541"N	80°44'51.795"W	20.08	336.774	4.10	4.09	1.34
3244.00	12.280	65.660	3241.95	20.54	21.08	-2.12	1646251.04	246035.93	39°10'07.568"N	80°44'51.722"W	21.19	354.255	5.03	5.03	0.03
3276.00	13.840	66.100	3273.12	21.05	24.03	4.48	1646257.64	246038.88	39°10'07.598"N	80°44'51.638"W	24.45	10.557	4.88	4.88	1.37
3307.00	15.030	67.100	3303.14	21.51	27.10	11.57	1646264.73	246041.95	39°10'07.629"N	80°44'51.549"W	29.47	23.123	3.92	3.84	3.23
3339.00	16.030	66.730	3333.97	21.97	30.46	19.45	1646272.61	246045.31	39°10'07.663"N	80°44'51.449"W	36.14	32.564	3.14	3.13	-1.16
3370.00	16.330	67.080	3363.74	22.44	33.85	27.40	1646280.56	246048.70	39°10'07.698"N	80°44'51.349"W	43.55	38.989	1.02	0.97	1.13
3402.00	16.980	68.560	3394.40	22.78	37.31	35.89	1646289.05	246052.16	39°10'07.733"N	80°44'51.242"W	51.77	43.891	2.43	2.03	4.63
3433.00	18.370	70.920	3423.94	22.82	40.56	44.72	1646297.88	246055.41	39°10'07.767"N	80°44'51.130"W	60.38	47.794	5.04	4.48	7.61
3465.00	19.720	73.580	3454.18	22.40	43.74	54.67	1646307.83	246058.58	39°10'07.799"N	80°44'51.005"W	70.01	51.339	5.01	4.22	8.31
3496.00	20.270	74.830	3483.31	21.62	46.62	64.87	1646318.03	246061.47	39°10'07.829"N	80°44'50.876"W	79.88	54.296	2.25	1.77	4.03
3528.00	20.700	72.250	3513.29	20.93	49.79	75.60	1646328.76	246064.64	39°10'07.862"N	80°44'50.740"W	90.53	56.630	3.12	1.34	-8.06
3560.00	21.370	68.630	3543.16	20.85	53.64	86.42	1646339.58	246068.49	39°10'07.902"N	80°44'50.603"W	101.72	58.171	4.57	2.09	-11.31
3591.00	22.700	66.480	3571.90	21.35	58.09	97.17	1646350.32	246072.94	39°10'07.947"N	80°44'50.468"W	113.20	59.128	5.02	4.29	-6.94
3623.00	23.460	66.300	3601.33	22.14	63.11	108.66	1646361.82	246077.96	39°10'07.998"N	80°44'50.323"W	125.66	59.851	2.39	2.38	-0.56
3686.00	24.870	67.880	3658.81	23.44	73.14	132.42	1646385.57	246087.99	39°10'08.101"N	80°44'50.203"W	151.27	61.085	2.46	2.24	2.51
3781.00	24.870	67.570	3745.00	25.03	88.29	169.39	1646422.54	246103.13	39°10'08.255"N	80°44'49.556"W	191.01	62.471	0.14	0.00	-0.33
3876.00	25.810	68.610	3830.86	26.38	103.45	207.11	1646460.26	246118.30	39°10'08.410"N	80°44'49.080"W	231.51	63.458	1.09	0.99	1.09
3971.00	25.310	69.340	3916.56	27.11	118.16	245.37	1646498.52	246133.01	39°10'08.561"N	80°44'48.597"W	272.34	64.286	0.62	-0.53	0.77
4066.00	25.050	67.290	4002.54	28.30	133.09	282.92	1646536.07	246147.93	39°10'08.714"N	80°44'48.123"W	312.66	64.807	0.96	-0.27	-2.16
4160.00	24.070	67.900	4088.03	29.94	147.98	319.04	1646572.19	246162.83	39°10'08.866"N	80°44'47.667"W	351.69	65.116	1.08	-1.04	0.65





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4255.00	24.810	70.590	4174.52	30.45	161.90	355.79	1646608.94	246176.74	39°10'09.008"N	80°44'47.203"W	390.89	65.533	1.41	0.78	2.83
4349.00	25.800	71.120	4259.50	29.84	175.07	393.75	1646646.90	246189.92	39°10'09.144"N	80°44'46.723"W	430.92	66.029	1.08	1.05	0.56
4444.00	24.200	67.740	4345.60	30.21	189.14	431.33	1646684.48	246203.98	39°10'09.288"N	80°44'46.248"W	470.98	66.323	2.26	-1.68	-3.56
4539.00	24.240	64.840	4432.24	32.73	204.81	467.01	1646720.15	246219.65	39°10'09.448"N	80°44'45.798"W	509.94	66.320	1.25	0.04	-3.05
4634.00	24.360	66.800	4518.83	35.58	220.81	502.67	1646755.81	246235.66	39°10'09.611"N	80°44'45.348"W	549.03	66.285	0.86	0.13	2.06
4729.00	25.550	68.930	4604.96	37.05	235.90	539.79	1646792.94	246250.74	39°10'09.765"N	80°44'44.880"W	589.09	66.394	1.57	1.25	2.24
4823.00	24.580	70.810	4690.11	37.15	249.61	577.18	1646830.32	246264.46	39°10'09.906"N	80°44'44.407"W	628.84	66.613	1.34	-1.03	2.00
4918.00	25.950	72.690	4776.02	35.90	262.29	615.68	1646868.82	246277.14	39°10'10.036"N	80°44'43.921"W	669.23	66.925	1.67	1.44	1.98
5013.00	27.430	70.990	4860.90	34.55	275.61	656.22	1646909.36	246290.45	39°10'10.173"N	80°44'43.409"W	711.74	67.218	1.75	1.56	-1.79
5107.00	27.420	69.570	4944.33	34.33	290.21	696.97	1646950.11	246305.06	39°10'10.323"N	80°44'42.894"W	754.98	67.393	0.70	-0.01	-1.51
5202.00	27.130	67.090	5028.77	35.60	306.28	737.42	1646990.56	246321.12	39°10'10.488"N	80°44'42.383"W	798.50	67.445	1.23	-0.31	-2.61
5296.00	27.250	69.100	5112.39	37.02	322.30	777.27	1647030.41	246337.14	39°10'10.652"N	80°44'41.880"W	841.44	67.478	0.99	0.13	2.14
5391.00	26.000	65.430	5197.32	39.02	338.72	816.53	1647069.66	246353.56	39°10'10.819"N	80°44'41.384"W	884.00	67.470	2.17	-1.32	-3.86
5486.00	25.750	67.310	5282.80	41.65	355.34	854.51	1647107.64	246370.18	39°10'10.989"N	80°44'40.905"W	925.44	67.420	0.90	-0.26	1.98
5581.00	25.660	69.000	5368.40	42.98	370.67	892.75	1647145.88	246385.51	39°10'11.145"N	80°44'40.422"W	966.64	67.452	0.78	-0.09	1.78
5675.00	25.940	66.450	5453.03	44.61	386.18	930.60	1647183.73	246401.02	39°10'11.304"N	80°44'39.945"W	1007.54	67.462	1.22	0.30	-2.71
5771.00	25.520	66.180	5539.51	47.29	402.92	968.76	1647221.89	246417.76	39°10'11.475"N	80°44'39.463"W	1049.21	67.417	0.45	-0.44	-0.28
5866.00	24.770	67.260	5625.51	49.60	418.88	1005.84	1647258.97	246433.72	39°10'11.637"N	80°44'38.995"W	1089.57	67.391	0.93	-0.79	1.14
5961.00	24.360	68.270	5711.91	51.14	433.83	1042.39	1647295.52	246448.66	39°10'11.790"N	80°44'38.534"W	1129.07	67.404	0.62	-0.43	1.06
6056.00	24.120	69.210	5798.53	52.00	447.97	1078.74	1647331.87	246462.81	39°10'11.935"N	80°44'38.075"W	1168.06	67.448	0.48	-0.25	0.99
6152.00	23.660	69.620	5886.31	52.40	461.64	1115.14	1647368.26	246476.48	39°10'12.075"N	80°44'37.615"W	1206.91	67.512	0.51	-0.48	0.43
6247.00	24.440	70.470	5973.06	52.37	474.85	1151.53	1647404.65	246489.68	39°10'12.210"N	80°44'37.155"W	1245.59	67.591	0.90	0.82	0.89
6342.00	24.560	71.520	6059.51	51.68	487.68	1188.78	1647441.90	246502.51	39°10'12.342"N	80°44'36.685"W	1284.92	67.695	0.48	0.13	1.11
6437.00	24.250	69.980	6146.02	51.16	500.61	1225.83	1647478.95	246515.45	39°10'12.475"N	80°44'36.216"W	1324.11	67.786	0.75	-0.33	-1.62
6532.00	24.970	69.230	6232.39	51.44	514.40	1262.91	1647516.03	246529.24	39°10'12.617"N	80°44'35.748"W	1363.65	67.838	0.83	0.76	-0.79
6627.00	24.950	70.770	6318.52	51.44	528.11	1300.58	1647553.70	246542.95	39°10'12.757"N	80°44'35.272"W	1403.71	67.900	0.68	-0.02	1.62
6658.00	24.770	70.370	6346.65	51.31	532.45	1312.87	1647565.99	246547.28	39°10'12.802"N	80°44'35.117"W	1416.73	67.924	0.79	-0.58	-1.29
6671.00	24.960	70.360	6358.44	51.28	534.29	1318.02	1647571.14	246549.12	39°10'12.821"N	80°44'35.052"W	1422.19	67.934	1.46	1.46	-0.08
6720.00	23.920	63.700	6403.06	52.30	542.16	1336.66	1647589.78	246557.00	39°10'12.901"N	80°44'34.817"W	1442.43	67.922	6.01	-2.12	-13.59
6765.00	24.200	56.730	6444.16	55.42	551.27	1352.56	1647605.68	246566.10	39°10'12.993"N	80°44'34.616"W	1460.58	67.825	6.34	0.62	-15.49





# Actual Wellpath Report

## OXF-13E-HS AWP Proj: 13695'

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### REFERENCE WELLPATH IDENTIFICATION

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

### WELLPATH DATA (175 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]
6816.00	26.110	48.960	6490.33	61.85	564.38	1369.77	1647622.89	246579.21	39°10'13.125"N	80°44'34.400"W	1481.48	67.607	7.47	3.75	-15.24
6859.00	29.090	43.670	6528.44	69.89	578.15	1384.13	1647637.25	246592.99	39°10'13.263"N	80°44'34.220"W	1500.02	67.330	8.97	6.93	-12.30
6913.00	33.830	37.690	6574.50	83.78	599.58	1402.38	1647655.50	246614.41	39°10'13.477"N	80°44'33.992"W	1525.17	66.851	10.55	8.78	-11.26
6952.00	37.040	33.590	6606.28	96.56	617.96	1415.52	1647668.64	246632.79	39°10'13.661"N	80°44'33.829"W	1544.53	66.416	10.06	8.23	-10.00
7008.00	40.630	27.590	6649.91	118.86	648.18	1433.33	1647686.45	246663.01	39°10'13.962"N	80°44'33.608"W	1573.08	65.667	9.36	6.41	-10.89
7046.00	42.830	21.690	6678.27	136.86	671.15	1443.84	1647696.96	246685.99	39°10'14.190"N	80°44'33.479"W	1592.21	65.069	11.84	5.79	-15.53
7099.00	46.650	15.750	6715.93	165.97	706.47	1455.74	1647708.86	246721.30	39°10'14.541"N	80°44'33.334"W	1618.11	64.113	10.68	7.21	-11.21
7140.00	51.150	12.050	6742.88	191.62	736.45	1463.12	1647716.24	246751.28	39°10'14.838"N	80°44'33.245"W	1638.02	63.282	12.91	10.98	-9.02
7190.00	55.490	5.890	6772.76	226.69	776.03	1469.31	1647722.43	246790.86	39°10'15.230"N	80°44'33.174"W	1661.65	62.159	13.15	8.68	-12.32
7234.00	59.580	0.190	6796.39	260.84	813.07	1471.24	1647724.35	246827.90	39°10'15.597"N	80°44'33.156"W	1680.96	61.073	14.34	9.30	-12.95
7290.00	65.290	354.750	6822.31	308.17	862.62	1468.98	1647722.10	246877.44	39°10'16.086"N	80°44'33.193"W	1703.53	59.578	13.34	10.20	-9.71
7327.00	69.940	352.620	6836.39	341.40	896.61	1465.21	1647718.33	246911.43	39°10'16.422"N	80°44'33.247"W	1717.77	58.536	13.65	12.57	-5.76
7421.00	68.030	346.810	6870.13	427.84	982.90	1449.58	1647702.70	246997.72	39°10'17.272"N	80°44'33.460"W	1751.39	55.861	6.12	-2.03	-6.18
7478.00	67.900	343.720	6891.52	480.44	1033.99	1436.15	1647689.26	247048.81	39°10'17.775"N	80°44'33.640"W	1769.65	54.247	5.03	-0.23	-5.42
7515.00	69.420	342.480	6904.98	514.85	1066.96	1426.13	1647679.24	247081.78	39°10'18.100"N	80°44'33.773"W	1781.08	53.198	5.16	4.11	-3.35
7563.00	74.120	341.450	6919.99	560.40	1110.30	1412.01	1647665.13	247125.12	39°10'18.526"N	80°44'33.960"W	1796.26	51.821	10.00	9.79	-2.15
7608.00	77.670	341.000	6930.96	604.03	1151.61	1397.97	1647651.08	247166.43	39°10'18.933"N	80°44'34.145"W	1811.22	50.519	7.95	7.89	-1.00
7656.00	79.610	341.020	6940.41	651.08	1196.11	1382.65	1647635.77	247210.92	39°10'19.370"N	80°44'34.348"W	1828.22	49.137	4.04	4.04	0.04
7702.00	80.540	340.520	6948.34	696.39	1238.89	1367.73	1647620.85	247253.70	39°10'19.791"N	80°44'34.545"W	1845.41	47.830	2.29	2.02	-1.09
7750.00	84.800	341.360	6954.46	743.98	1283.88	1352.19	1647605.31	247298.69	39°10'20.233"N	80°44'34.750"W	1864.61	46.484	9.04	8.87	1.75
7795.00	87.410	341.910	6957.52	788.85	1326.48	1338.04	1647591.16	247341.30	39°10'20.653"N	80°44'34.937"W	1884.12	45.249	5.93	5.80	1.22
7889.00	87.910	340.520	6961.36	882.75	1415.40	1307.80	1647560.92	247430.21	39°10'21.527"N	80°44'35.337"W	1927.10	42.737	1.57	0.53	-1.48
7983.00	88.060	338.750	6964.66	976.68	1503.47	1275.11	1647528.23	247518.27	39°10'22.393"N	80°44'35.767"W	1971.37	40.302	1.89	0.16	-1.88
8077.00	87.970	338.320	6967.92	1070.60	1590.89	1240.73	1647493.86	247605.70	39°10'23.252"N	80°44'36.219"W	2017.51	37.951	0.47	-0.10	-0.46
8170.00	89.050	339.840	6970.34	1163.55	1677.73	1207.54	1647460.66	247692.53	39°10'24.106"N	80°44'36.656"W	2067.11	35.744	2.00	1.16	1.63
8264.00	90.030	342.040	6971.09	1257.53	1766.57	1176.85	1647429.97	247781.37	39°10'24.980"N	80°44'37.061"W	2122.67	33.671	2.56	1.04	2.34
8358.00	91.140	344.280	6970.13	1351.37	1856.53	1149.62	1647402.74	247871.32	39°10'25.865"N	80°44'37.422"W	2183.65	31.767	2.66	1.18	2.38
8451.00	91.110	342.490	6968.31	1444.19	1945.62	1123.03	1647376.16	247960.41	39°10'26.742"N	80°44'37.776"W	2246.47	29.994	1.92	-0.03	-1.92
8545.00	90.340	337.930	6967.12	1538.15	2034.04	1091.22	1647344.34	248048.83	39°10'27.612"N	80°44'38.195"W	2308.26	28.213	4.92	-0.82	-4.85
8638.00	90.400	336.810	6966.52	1631.05	2119.88	1055.43	1647308.56	248134.66	39°10'28.455"N	80°44'38.664"W	2368.08	26.468	1.21	0.06	-1.20





# Actual Wellpath Report

OXF-13E-HS AWP Proj: 13695'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	Slot E
CNX GAS COMPANY, LLC	Slot E
Area	OXF-13E-HS
Field	OXF-13E-HS AWP
Wellbore	OXF-13E-HS AWP
Facility	OXFD-13 Pad

## WELLPATH DATA (175 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]
8732.00	90.400	336.730	6965.86	1724.90	2206.25	1018.36	1647271.49	248221.04	39°10'29.304"N	80°44'39.150"W	2429.94	24.777	0.09	0.00	-0.09
8825.00	90.490	336.010	6965.14	1817.71	2291.45	981.08	1647234.21	248306.23	39°10'30.141"N	80°44'39.639"W	2492.64	23.178	0.78	0.10	-0.77
8919.00	90.460	338.690	6964.36	1911.60	2378.19	944.89	1647198.02	248392.97	39°10'30.993"N	80°44'40.113"W	2559.02	21.669	2.85	-0.03	2.85
9013.00	90.310	338.950	6963.73	2005.58	2465.84	910.93	1647164.06	248480.62	39°10'31.854"N	80°44'40.560"W	2628.72	20.275	0.32	-0.16	0.28
9106.00	90.310	339.900	6963.22	2098.57	2552.90	878.24	1647131.38	248567.68	39°10'32.710"N	80°44'40.990"W	2699.75	18.984	1.02	0.00	1.02
9200.00	90.400	339.180	6962.64	2192.56	2640.97	845.39	1647098.52	248655.74	39°10'33.576"N	80°44'41.423"W	2772.98	17.750	0.77	0.10	-0.77
9294.00	90.460	339.940	6961.94	2286.56	2729.05	812.56	1647065.70	248743.82	39°10'34.442"N	80°44'41.855"W	2847.45	16.581	0.81	0.06	0.81
9387.00	90.370	340.580	6961.26	2379.55	2816.58	781.15	1647034.29	248831.35	39°10'35.303"N	80°44'42.270"W	2922.90	15.501	0.69	-0.10	0.69
9481.00	89.970	340.550	6960.98	2473.55	2905.23	749.87	1647003.01	248919.99	39°10'36.175"N	80°44'42.682"W	3000.44	14.473	0.43	-0.43	-0.03
9575.00	89.910	342.400	6961.08	2567.51	2994.35	720.01	1646973.15	249009.11	39°10'37.052"N	80°44'43.077"W	3079.70	13.520	1.97	-0.06	1.97
9668.00	90.460	343.040	6960.78	2660.41	3083.15	692.38	1646945.52	249097.91	39°10'37.925"N	80°44'43.444"W	3159.94	12.657	0.91	0.59	0.69
9762.00	91.020	341.410	6959.57	2754.32	3172.66	663.69	1646916.83	249187.41	39°10'38.806"N	80°44'43.824"W	3241.33	11.815	1.83	0.60	-1.73
9855.00	91.010	339.960	6957.92	2847.30	3260.40	632.94	1646886.08	249275.16	39°10'39.669"N	80°44'44.230"W	3321.27	10.986	1.56	-0.01	-1.56
9949.00	91.510	339.010	6955.85	2941.27	3348.42	600.00	1646853.14	249363.17	39°10'40.534"N	80°44'44.663"W	3401.75	10.159	1.14	0.53	-1.01
10043.00	91.380	340.030	6953.48	3035.24	3436.45	567.12	1646820.27	249451.20	39°10'41.400"N	80°44'45.096"W	3482.93	9.371	1.09	-0.14	1.09
10137.00	91.630	342.460	6951.01	3129.18	3525.42	536.91	1646790.06	249540.17	39°10'42.275"N	80°44'45.495"W	3566.07	8.659	2.60	0.27	2.59
10230.00	92.090	342.760	6947.99	3222.03	3614.12	509.13	1646762.28	249628.87	39°10'43.148"N	80°44'45.864"W	3649.81	8.019	0.59	0.49	0.32
10324.00	92.090	342.120	6944.57	3315.88	3703.68	480.79	1646733.94	249718.42	39°10'44.029"N	80°44'46.239"W	3734.76	7.396	0.68	0.00	-0.68
10417.00	91.790	342.610	6941.42	3408.75	3792.26	452.63	1646705.78	249807.00	39°10'44.901"N	80°44'46.613"W	3819.18	6.806	0.62	-0.32	0.53
10511.00	91.690	345.330	6938.56	3502.47	3882.56	426.69	1646679.84	249897.29	39°10'45.789"N	80°44'46.958"W	3905.93	6.272	2.89	-0.11	2.89
10605.00	91.810	344.860	6935.69	3596.06	3973.35	402.52	1646655.67	249988.08	39°10'46.683"N	80°44'47.281"W	3993.69	5.785	0.52	0.13	-0.50
10698.00	92.120	340.250	6932.50	3688.88	4062.00	374.67	1646627.82	250076.73	39°10'47.556"N	80°44'47.650"W	4079.24	5.270	4.97	0.33	-4.96
10792.00	92.090	337.930	6929.05	3782.80	4149.74	341.14	1646594.29	250164.47	39°10'48.418"N	80°44'48.091"W	4163.74	4.700	2.47	-0.03	-2.47
10885.00	92.060	337.520	6925.68	3875.67	4235.74	305.92	1646559.07	250250.47	39°10'49.263"N	80°44'48.554"W	4246.78	4.131	0.44	-0.03	-0.44
10979.00	92.430	337.190	6922.00	3969.50	4322.43	269.75	1646522.90	250337.15	39°10'50.115"N	80°44'49.028"W	4330.84	3.571	0.53	0.39	-0.35
11072.00	92.460	336.070	6918.03	4062.25	4407.72	232.90	1646486.05	250422.44	39°10'50.953"N	80°44'49.511"W	4413.87	3.025	1.20	0.03	-1.20
11166.00	92.250	338.910	6914.17	4156.07	4494.48	196.94	1646450.10	250509.20	39°10'51.805"N	80°44'49.983"W	4498.79	2.509	3.03	-0.22	3.02
11260.00	92.250	340.120	6910.48	4249.99	4582.46	164.07	1646417.23	250597.18	39°10'52.671"N	80°44'50.416"W	4585.40	2.051	1.29	0.00	1.29
11354.00	91.970	340.680	6907.02	4343.93	4670.96	132.56	1646385.72	250685.67	39°10'53.541"N	80°44'50.832"W	4672.84	1.626	0.67	-0.30	0.60
11447.00	92.370	343.520	6903.49	4436.79	4759.38	104.00	1646357.16	250774.09	39°10'54.411"N	80°44'51.210"W	4760.52	1.252	3.08	0.43	3.05





# Actual Wellpath Report

OXF-13E-HS AWP Proj: 13695'

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## REFERENCE WELLPATH IDENTIFICATION

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

## WELLPATH DATA (175 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]
11541.00	92.340	340.540	6899.63	4530.64	4848.71	75.03	1646328.19	250863.42	39°10'55.290"N	80°44'51.593"W	4849.29	0.887	3.17	-0.03	-3.17
11635.00	92.310	336.620	6895.82	4624.51	4936.13	40.73	1646293.89	250950.83	39°10'56.149"N	80°44'52.044"W	4936.30	0.473	4.17	-0.03	-4.17
11728.00	92.710	338.080	6891.74	4717.32	5021.87	4.95	1646258.11	251036.57	39°10'56.991"N	80°44'52.514"W	5021.88	0.057	1.63	0.43	1.57
11822.00	93.200	341.070	6886.90	4811.18	5109.84	-27.80	1646225.36	251124.53	39°10'57.856"N	80°44'52.945"W	5109.91	359.688	3.22	0.52	3.18
11916.00	93.230	339.630	6881.62	4905.03	5198.22	-59.36	1646193.80	251212.92	39°10'58.725"N	80°44'53.362"W	5198.56	359.346	1.53	0.03	-1.53
12009.00	93.170	338.090	6876.43	4997.87	5284.82	-92.85	1646160.31	251299.52	39°10'59.577"N	80°44'53.802"W	5285.64	358.993	1.65	-0.06	-1.66
12103.00	93.170	340.230	6871.23	5091.71	5372.53	-126.24	1646126.93	251387.22	39°11'00.439"N	80°44'54.242"W	5374.02	358.654	2.27	0.00	2.28
12197.00	92.520	338.440	6866.57	5185.58	5460.37	-159.37	1646093.80	251475.06	39°11'01.302"N	80°44'54.678"W	5462.70	358.328	2.02	-0.69	-1.90
12290.00	92.030	335.550	6862.88	5278.37	5545.90	-195.68	1646057.48	251560.59	39°11'02.143"N	80°44'55.154"W	5549.35	357.979	3.15	-0.53	-3.11
12384.00	91.970	335.340	6859.59	5372.01	5631.35	-234.72	1646018.45	251646.03	39°11'02.982"N	80°44'55.665"W	5636.24	357.613	0.23	-0.06	-0.22
12478.00	91.910	336.240	6856.41	5465.71	5717.03	-273.25	1645979.92	251731.71	39°11'03.823"N	80°44'56.169"W	5723.56	357.264	0.96	-0.06	0.96
12571.00	92.060	340.930	6853.19	5558.60	5803.53	-307.17	1645946.00	251818.21	39°11'04.674"N	80°44'56.615"W	5811.66	356.970	5.04	0.16	5.04
12665.00	92.190	341.410	6849.70	5652.51	5892.44	-337.49	1645915.68	251907.12	39°11'05.548"N	80°44'57.016"W	5902.10	356.722	0.53	0.14	0.51
12759.00	92.310	339.360	6846.01	5746.43	5980.91	-369.02	1645884.15	251995.58	39°11'06.418"N	80°44'57.432"W	5992.29	356.469	2.18	0.13	-2.18
12853.00	91.970	340.320	6842.50	5840.36	6069.09	-401.39	1645851.78	252083.76	39°11'07.285"N	80°44'57.859"W	6082.35	356.216	1.08	-0.36	1.02
12946.00	91.970	339.680	6839.31	5933.31	6156.43	-433.18	1645819.99	252171.10	39°11'08.144"N	80°44'58.278"W	6171.65	355.975	0.69	0.00	-0.69
13040.00	91.970	339.760	6836.07	6027.25	6244.55	-465.75	1645787.43	252259.22	39°11'09.010"N	80°44'58.707"W	6261.89	355.735	0.09	0.00	0.09
13134.00	91.690	340.710	6833.07	6121.20	6332.97	-497.52	1645755.66	252347.63	39°11'09.880"N	80°44'59.126"W	6352.48	355.508	1.05	-0.30	1.01
13227.00	91.690	342.960	6830.33	6214.11	6421.29	-526.49	1645726.68	252435.95	39°11'10.749"N	80°44'59.509"W	6442.84	355.313	2.42	0.00	2.42
13321.00	91.730	342.190	6827.52	6307.97	6510.93	-554.63	1645698.55	252525.59	39°11'11.631"N	80°44'59.882"W	6534.51	355.131	0.82	0.04	-0.82
13419.00	91.820	342.220	6824.49	6405.85	6604.20	-584.57	1645668.61	252618.85	39°11'12.548"N	80°45'00.279"W	6630.02	354.942	0.10	0.09	0.03
13513.00	91.780	342.790	6821.54	6499.71	6693.81	-612.81	1645640.37	252708.46	39°11'13.430"N	80°45'00.654"W	6721.80	354.769	0.61	-0.04	0.61
13606.00	91.630	344.850	6818.77	6592.46	6783.08	-638.71	1645614.47	252797.73	39°11'14.309"N	80°45'00.998"W	6813.08	354.621	2.22	-0.16	2.22
13673.00	91.600	343.740	6816.88	6659.25	6847.55	-656.84	1645596.34	252862.20	39°11'14.944"N	80°45'01.240"W	6878.98	354.521	1.66	-0.04	-1.66
13695.00	91.600	343.740	6816.27	6681.19	6868.66	-663.00	1645590.18	252883.31	39°11'15.151"N	80°45'01.322"W	6900.59	354.487	0.00	0.00	0.00

# Actual Wellpath Report

## OXF-13E-HS AWP Proj: 13695'

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### REFERENCE WELLPATH IDENTIFICATION

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

### HOLE & CASING SECTIONS - Ref Wellbore: OXF-13E-HS AWB Ref Wellpath: OXF-13E-HS AWP Proj: 13695'

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]
13.375in Casing Surface	28.50	1103.00	1074.50	28.50	1102.98	0.00	0.00	1.63	-4.82
9.625in Casing Intermediate	28.50	2854.00	2825.50	28.50	2853.87	0.00	0.00	8.94	-22.94

### TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
OXF-13E-HS BHL Rev-3	6748.88	6748.88	6867.76	-667.38	1645585.80	252882.41	39°11'15.142"N	80°45'01.377"W	point
OXF-13E-HS LP Rev-3	6907.00	6907.00	1193.73	1397.80	1647650.92	247208.54	39°10'19.349"N	80°44'34.155"W	point
OXF-13E-HS LP Rev-1	6930.00	6930.00	1295.29	1358.38	1647611.50	247310.10	39°10'20.347"N	80°44'34.673"W	point
OXFD-13 Pad LL	6972.26	6972.26	-11.34	-79.12	1646174.04	246003.51	39°10'07.237"N	80°44'52.693"W	polygon

### WELLPATH COMPOSITION - Ref Wellbore: OXF-13E-HS AWB Ref Wellpath: OXF-13E-HS AWP Proj: 13695'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
28.50	2774.00	Generic gyro - northseeking (Standard)	01_VES Gyro <12-1/4"> (100'-2770')	OXF-13E-HS AWB
2774.00	6627.00	ISW/SA MWD, Rev. 2 (Standard)	02_WFD MWD <8-3/4"> (2770')(2891'-6623')	OXF-13E-HS AWB
6627.00	13673.00	NaviTrak (AT Curve Short Spaced)	03_BHI AT Curve <8-1/2"> (6627')(6658'-13673')	OXF-13E-HS AWB
13673.00	13695.00	Blind Drilling (std)	Projection to bit	OXF-13E-HS AWB

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Environmental Protection