



Actual Wellpath Report

WDTN-5G-HSM AWP Proj: 18237'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Slot	Slot G
Area	Monongalia County, WV	Well	WDTN-5G-HSM
Field	Monongalia	Wellbore	WDTN-5G-HSM AWP
Facility	WTN-5 Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect@ 5.1
North Reference	Grid	User	Edsaryar
Scale	0.999942	Report Generated	13/May/2019 at 08:21
Convergence at slot	0.53° West	Database/Source file	WA_MPL_EASTERNUS_Defn\WDTN-5G-HSM_AWP_Proj_18237_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-22.14	-17.60	1764409.85	440508.69	39°42'23.162"N	80°20'14.526"W
Facility Reference Pt			1764427.45	440530.83	39°42'23.382"N	80°20'14.303"W
Field Reference Pt			609601.22	0.00	38°23'48.753"N	84°21'09.765"W

WELLPATH DATUM			
Calculation method	Minimum curvature		Patterson 801 (RKB) to Facility Vertical Datum
Horizontal Reference Pt	Slot		Patterson 801 (RKB) to Mean Sea Level
Vertical Reference Pt	Patterson 801 (RKB)		Patterson 801 (RKB) to Mud Line at Slot (Slot G)
MD Reference Pt	Patterson 801 (RKB)		Section Origin
Field Vertical Reference	Mean Sea Level		Section Azimuth
			1416.78ft
			1416.78ft
			29.00ft
			N 0.00, E 0.00 ft
			313.50°

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WV Department of
Environmental Protection



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Area	Monongalia County, WV	Well	WDTN-5G-HSM
Field	Monongalia	Wellbore	WDTN-5G-HSM AWB
Facility	WTN-5 Pad		

WELLPATH DATA (196 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)
0.00†	0.000	133.270	0.00	0.00	0.00	0.00	1764409.85	440508.69	39°42'23.162"N	80°20'14.526"W	0.00	0.000	0.00	0.00	0.00
29.00	0.000	133.270	29.00	0.00	0.00	0.00	1764409.85	440508.69	39°42'23.162"N	80°20'14.526"W	0.00	0.000	0.00	0.00	0.00
100.00	0.210	133.270	100.00	-0.13	-0.09	0.09	1764409.94	440508.60	39°42'23.161"N	80°20'14.524"W	0.13	133.270	0.30	0.30	187.70
200.00	0.130	77.600	200.00	-0.38	-0.19	0.34	1764410.19	440508.50	39°42'23.160"N	80°20'14.521"W	0.39	119.327	0.17	-0.08	-55.67
300.00	0.350	243.760	300.00	-0.33	-0.30	0.18	1764410.03	440508.39	39°42'23.159"N	80°20'14.523"W	0.35	149.720	0.48	0.22	166.16
400.00	0.340	222.480	400.00	-0.23	-0.65	-0.30	1764409.55	440508.04	39°42'23.155"N	80°20'14.529"W	0.72	204.501	0.13	-0.01	-21.28
500.00	0.230	214.710	500.00	-0.27	-1.04	-0.61	1764409.24	440507.65	39°42'23.151"N	80°20'14.533"W	1.21	210.552	0.12	-0.11	-7.77
600.00	0.440	237.180	599.99	-0.21	-1.41	-1.05	1764408.80	440507.28	39°42'23.148"N	80°20'14.539"W	1.76	216.641	0.24	0.21	22.47
700.00	0.340	255.980	699.99	0.04	-1.69	-1.66	1764408.19	440507.00	39°42'23.145"N	80°20'14.547"W	2.37	224.467	0.16	-0.10	18.80
800.00	0.350	266.590	799.99	0.41	-1.78	-2.25	1764407.60	440506.91	39°42'23.144"N	80°20'14.554"W	2.87	231.664	0.06	0.01	10.61
900.00	0.190	299.340	899.99	0.78	-1.72	-2.70	1764407.15	440507.97	39°42'23.146"N	80°20'14.560"W	3.20	237.546	0.22	-0.16	32.75
1000.00	0.400	275.990	999.99	1.22	-1.60	-3.19	1764406.66	440507.09	39°42'23.146"N	80°20'14.566"W	3.57	243.379	0.24	0.21	-23.35
1100.00	0.490	285.380	1099.98	1.87	-1.45	-3.95	1764405.90	440507.24	39°42'23.147"N	80°20'14.576"W	4.21	249.844	0.12	0.09	9.39
1200.00	0.220	137.580	1199.98	2.05	-1.48	-4.24	1764405.61	440507.21	39°42'23.147"N	80°20'14.580"W	4.49	250.748	0.69	-0.27	-147.80
1303.00	0.320	270.030	1302.98	2.07	-1.63	-4.39	1764405.46	440507.06	39°42'23.145"N	80°20'14.582"W	4.68	249.686	0.48	0.10	128.59
1441.00	0.490	295.690	1440.98	2.91	-1.37	-5.31	1764404.54	440507.32	39°42'23.148"N	80°20'14.593"W	5.48	255.533	0.18	0.12	18.59
1535.00	0.310	283.070	1534.98	3.51	-1.14	-5.92	1764403.93	440507.55	39°42'23.150"N	80°20'14.601"W	6.03	259.118	0.21	-0.19	-13.43
1630.00	0.310	297.110	1629.98	3.98	-0.96	-6.40	1764403.45	440507.73	39°42'23.152"N	80°20'14.607"W	6.47	261.443	0.08	0.00	14.78
1724.00	0.490	278.800	1723.97	4.55	-0.79	-7.02	1764402.83	440507.90	39°42'23.153"N	80°20'14.615"W	7.06	263.619	0.23	0.19	-19.48
1818.00	0.610	285.800	1817.97	5.33	-0.59	-7.90	1764401.95	440508.10	39°42'23.155"N	80°20'14.627"W	7.92	265.747	0.15	0.13	7.45
1913.00	0.490	287.510	1912.97	6.14	-0.33	-8.77	1764401.08	440508.36	39°42'23.158"N	80°20'14.638"W	8.78	267.862	0.13	-0.13	1.80
2007.00	0.430	303.780	2006.96	6.85	-0.01	-9.45	1764400.44	440508.68	39°42'23.161"N	80°20'14.647"W	9.45	269.937	0.15	-0.06	17.31
2101.00	0.470	314.860	2100.96	7.58	0.46	-10.02	1764399.83	440509.15	39°42'23.165"N	80°20'14.654"W	10.03	272.616	0.10	0.04	11.79
2196.00	0.650	309.260	2195.95	8.51	1.07	-10.71	1764399.14	440509.76	39°42'23.171"N	80°20'14.663"W	10.76	275.724	0.20	0.19	-5.89
2290.00	0.310	33.270	2289.95	9.08	1.62	-10.98	1764398.87	440510.31	39°42'23.177"N	80°20'14.666"W	11.10	278.408	0.73	-0.36	89.37
2385.00	0.330	345.370	2384.95	9.36	2.10	-10.91	1764398.94	440510.79	39°42'23.181"N	80°20'14.665"W	11.11	280.910	0.27	0.02	-50.42
2479.00	0.260	338.110	2478.95	9.79	2.56	-11.06	1764398.75	440511.25	39°42'23.186"N	80°20'14.667"W	11.35	283.048	0.08	-0.07	-7.72
2574.00	0.280	9.410	2573.95	10.11	2.99	-11.10	1764398.79	440511.68	39°42'23.190"N	80°20'14.668"W	11.50	285.083	0.15	0.02	32.95
2668.00	0.290	23.260	2667.95	10.32	3.44	-10.97	1764398.88	440512.13	39°42'23.195"N	80°20'14.666"W	11.50	287.397	0.07	0.01	14.73
2762.00	0.370	31.480	2761.95	10.47	3.91	-10.72	1764399.13	440512.60	39°42'23.199"N	80°20'14.663"W	11.41	290.064	0.10	0.09	8.74



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Area	Monongalia County, WV	Well	WDTN-5G-HSM
Field	Monongalia	Wellbore	WDTN-5G-HSM AWB
Facility	WTN-5 Pad		

WELLPATH DATA (196 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)
2857.00	0.310	8.330	2856.94	10.68	4.43	-10.52	1764399.33	440513.12	39°42'23.204"N	80°20'14.661"W	11.42	292.837	0.16	-0.06	-24.37
2951.00	0.240	352.510	2950.94	10.98	4.88	-10.51	1764399.34	440513.57	39°42'23.209"N	80°20'14.661"W	11.59	294.896	0.11	-0.07	-16.83
3051.00	0.360	14.490	3050.94	11.30	5.39	-10.46	1764399.39	440514.08	39°42'23.214"N	80°20'14.660"W	11.76	297.263	0.16	0.12	21.98
3145.00	0.680	211.760	3144.94	11.33	5.20	-10.68	1764399.17	440513.89	39°42'23.212"N	80°20'14.663"W	11.88	295.969	1.10	0.34	-173.12
3240.00	4.950	207.200	3239.80	10.06	1.07	-12.85	1764397.00	440509.76	39°42'23.171"N	80°20'14.762"W	12.89	274.778	4.50	4.49	-4.80
3338.00	8.540	210.920	3337.11	7.29	-8.93	-18.52	1764391.33	440498.76	39°42'23.022"N	80°20'14.868"W	20.56	244.255	3.69	3.66	3.80
3432.00	11.630	211.160	3429.65	3.74	-23.03	-27.01	1764382.84	440485.66	39°42'22.932"N	80°20'14.868"W	35.50	229.549	3.29	3.29	0.26
3527.00	13.870	205.810	3522.30	-1.77	-41.48	-36.93	1764372.93	440467.21	39°42'22.748"N	80°20'14.993"W	55.53	221.677	2.66	2.36	-5.63
3621.00	15.950	205.220	3613.13	-9.24	-63.31	-47.34	1764362.52	440445.39	39°42'22.532"N	80°20'15.124"W	79.05	216.786	2.22	2.21	-0.63
3719.00	18.580	202.860	3706.71	-18.97	-89.88	-59.14	1764350.71	440418.81	39°42'22.268"N	80°20'15.272"W	107.59	213.345	2.78	2.68	-2.41
3814.00	22.570	204.080	3796.21	-29.86	-119.07	-71.83	1764338.02	440389.63	39°42'21.978"N	80°20'15.430"W	139.06	211.102	2.14	2.09	1.28
3908.00	22.510	207.290	3883.65	-40.37	-150.14	-86.82	1764323.03	440358.56	39°42'21.670"N	80°20'15.619"W	173.44	210.040	2.41	2.06	3.41
4003.00	23.820	210.480	3970.99	-49.77	-182.84	-104.89	1764304.96	440325.87	39°42'21.345"N	80°20'15.846"W	210.79	209.843	1.91	1.38	3.36
4097.00	23.710	209.300	4057.02	-58.68	-215.68	-123.77	1764286.09	440293.03	39°42'21.019"N	80°20'16.083"W	248.67	209.850	0.52	-0.12	-1.26
4192.00	23.180	206.030	4144.18	-68.98	-249.13	-141.32	1764268.54	440259.57	39°42'20.687"N	80°20'16.304"W	286.43	209.564	1.48	-0.56	-3.44
4286.00	22.890	202.490	4230.69	-81.09	-282.65	-156.43	1764253.43	440226.06	39°42'20.354"N	80°20'16.493"W	323.05	208.963	1.51	-0.31	-3.77
4381.00	21.960	205.180	4318.51	-93.30	-315.80	-171.06	1764238.80	440192.91	39°42'20.025"N	80°20'16.676"W	359.15	208.443	1.46	-0.98	2.83
4476.00	21.870	209.270	4406.65	-103.23	-347.31	-187.27	1764222.59	440161.40	39°42'19.712"N	80°20'16.880"W	394.58	208.334	1.61	-0.09	4.31
4570.00	20.800	209.410	4494.20	-111.60	-377.12	-204.03	1764205.84	440131.59	39°42'19.416"N	80°20'17.091"W	428.77	208.414	1.14	-1.14	0.15
4665.00	21.200	210.200	4582.89	-119.66	-406.66	-220.95	1764188.91	440102.05	39°42'19.122"N	80°20'17.304"W	462.81	208.516	0.52	0.42	0.83
4759.00	22.450	209.530	4670.16	-127.90	-436.97	-238.35	1764171.52	440071.75	39°42'18.821"N	80°20'17.523"W	497.75	208.610	1.36	1.33	-0.71
4854.00	20.960	206.410	4758.42	-137.27	-467.97	-254.85	1764155.02	440040.75	39°42'18.513"N	80°20'17.730"W	532.86	208.571	1.98	-1.57	-3.28
4948.00	20.530	206.020	4846.33	-147.16	-497.84	-269.55	1764140.31	440010.88	39°42'18.217"N	80°20'17.915"W	566.13	208.433	0.48	-0.46	-0.41
5042.00	20.560	206.180	4934.35	-157.03	-527.47	-284.07	1764125.80	439981.25	39°42'17.923"N	80°20'18.097"W	599.10	208.305	0.07	0.03	0.17
5141.00	21.540	202.250	5026.74	-168.79	-559.89	-298.62	1764111.25	439948.83	39°42'17.601"N	80°20'18.279"W	634.55	208.073	1.74	0.99	-3.97
5235.00	21.720	203.570	5114.13	-180.98	-591.81	-312.11	1764093.76	439916.92	39°42'17.284"N	80°20'18.448"W	669.06	207.806	0.55	0.19	1.40
5330.00	21.470	205.220	5202.46	-192.42	-623.65	-326.55	1764082.32	439885.67	39°42'16.968"N	80°20'18.629"W	703.96	207.637	0.69	-0.26	1.74
5424.00	22.110	206.340	5289.74	-203.04	-655.26	-341.72	1764068.15	439858.08	39°42'16.656"N	80°20'18.819"W	738.84	207.550	0.81	0.68	1.19
5519.00	22.430	206.990	5377.66	-213.46	-687.23	-357.88	1764051.99	439821.50	39°42'16.337"N	80°20'19.022"W	774.84	207.509	0.43	0.34	0.68
5613.00	23.690	204.360	5464.14	-224.75	-720.42	-373.81	1764036.06	439788.31	39°42'16.008"N	80°20'19.222"W	811.63	207.424	1.73	1.34	-2.80



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Field	Monongalia		
Facility	WTN-5 Pad		

WELLPATH DATA (196 stations)															
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
ft	°	°	ft	ft	ft	ft	US ft	US ft			ft	°	ft/100ft	ft/100ft	ft/100ft
5708.00	22.870	204.230	5551.41	-237.10	-754.64	-389.26	1764020.61	439754.10	39°42'15.668"N	80°20'19.416"W	849.12	207.286	0.86	-0.86	-0.14
5802.00	22.850	203.940	5538.03	-249.24	-787.98	-404.16	1764005.71	439720.76	39°42'15.337"N	80°20'19.602"W	885.58	207.154	0.12	-0.02	-0.31
5897.00	23.820	204.800	5725.26	-261.57	-822.25	-419.69	1763990.18	439686.49	39°42'14.997"N	80°20'19.797"W	923.17	207.041	1.08	1.02	0.91
5991.00	23.460	207.920	5811.37	-272.68	-856.02	-436.42	1763973.46	439652.72	39°42'14.662"N	80°20'20.007"W	960.85	207.014	1.38	-0.38	3.32
6086.00	22.890	209.960	5898.71	-282.08	-888.73	-454.50	1763955.38	439620.51	39°42'14.337"N	80°20'20.234"W	998.21	207.085	1.04	-0.60	2.15
6180.00	23.830	208.650	5985.00	-291.23	-921.24	-472.73	1763937.74	439587.01	39°42'14.014"N	80°20'20.464"W	1035.45	207.165	1.14	1.00	-1.39
6275.00	23.730	208.730	6071.93	-301.02	-954.84	-491.12	1763918.76	439553.91	39°42'13.680"N	80°20'20.695"W	1073.74	207.219	0.11	-0.11	0.08
6370.00	24.570	210.580	6158.62	-310.31	-988.61	-510.36	1763899.52	439520.14	39°42'13.345"N	80°20'20.937"W	1112.57	207.305	1.19	0.88	1.95
6464.00	22.870	205.770	6244.68	-320.24	-1021.89	-528.25	1763881.63	439486.86	39°42'13.014"N	80°20'21.162"W	1150.35	207.336	2.74	-1.81	-5.12
6558.00	22.980	204.430	6331.26	-331.80	-1055.04	-543.78	1763866.10	439453.71	39°42'12.685"N	80°20'21.357"W	1186.93	207.336	0.57	0.57	-1.43
6653.00	23.440	205.250	6418.57	-343.78	-1089.02	-559.51	1763850.38	439419.74	39°42'12.348"N	80°20'21.554"W	1224.34	207.267	0.59	0.48	0.86
6747.00	23.020	203.530	6504.95	-355.91	-1122.78	-574.82	1763835.06	439385.98	39°42'12.013"N	80°20'21.746"W	1261.37	207.111	0.85	-0.45	-1.83
6846.00	23.880	203.060	6595.77	-369.52	-1158.97	-590.40	1763819.49	439349.79	39°42'11.654"N	80°20'21.941"W	1300.68	206.995	0.89	0.87	-0.47
6940.00	23.790	203.530	6681.76	-382.64	-1193.86	-605.42	1763804.47	439314.91	39°42'11.307"N	80°20'22.129"W	1338.59	206.890	0.22	-0.10	0.50
7034.00	23.780	202.370	6767.77	-395.95	-1228.76	-620.20	1763789.69	439280.00	39°42'10.961"N	80°20'22.314"W	1376.41	206.782	0.50	-0.01	-1.23
7129.00	22.630	204.050	6855.09	-408.98	-1263.17	-634.94	1763774.95	439245.60	39°42'10.620"N	80°20'22.498"W	1413.77	206.687	1.40	-1.21	1.77
7223.00	21.460	206.880	6942.22	-419.88	-1295.02	-650.09	1763759.80	439213.75	39°42'10.304"N	80°20'22.688"W	1449.03	206.656	1.68	-1.24	3.01
7318.00	20.320	212.170	7030.98	-428.09	-1324.49	-666.73	1763743.16	439184.28	39°42'10.011"N	80°20'22.897"W	1482.83	206.720	2.32	-1.20	5.57
7412.00	22.950	212.890	7118.35	-434.67	-1353.70	-685.37	1763724.52	439155.07	39°42'09.720"N	80°20'23.132"W	1517.31	206.853	2.81	2.80	0.77
7453.00	23.630	207.890	7156.01	-438.36	-1367.67	-693.56	1763716.33	439141.10	39°42'09.582"N	80°20'23.235"W	1533.48	206.890	5.10	1.66	-12.20
7496.00	22.640	206.390	7195.55	-443.11	-1382.71	-701.27	1763708.62	439126.07	39°42'09.432"N	80°20'23.332"W	1550.37	206.893	2.68	-2.30	-3.49
7591.00	19.950	221.410	7284.13	-449.09	-1411.27	-720.13	1763689.76	439097.51	39°42'09.148"N	80°20'23.570"W	1584.38	207.034	6.38	-2.83	15.81
7686.00	17.610	250.210	7374.25	-443.20	-1428.33	-744.43	1763665.47	439080.45	39°42'08.977"N	80°20'23.879"W	1610.68	207.528	9.96	-2.46	30.32
7781.00	18.970	259.990	7464.47	-427.56	-1435.88	-773.17	1763636.73	439072.90	39°42'08.900"N	80°20'24.246"W	1630.81	208.301	3.53	1.43	10.29
7875.00	25.570	258.680	7551.42	-406.76	-1442.52	-808.14	1763601.76	439066.25	39°42'08.831"N	80°20'24.692"W	1653.47	209.259	7.04	7.02	-1.39
7970.00	31.470	267.490	7634.89	-377.69	-1447.64	-855.08	1763556.82	439065.13	39°42'08.772"N	80°20'25.267"W	1680.30	210.510	7.61	6.21	9.27
8065.00	35.950	280.690	7714.00	-336.95	-1443.54	-905.35	1763504.88	439065.23	39°42'08.812"N	80°20'25.936"W	1703.96	212.095	9.02	4.72	13.89
8160.00	41.740	289.070	7788.01	-284.64	-1428.02	-962.73	1763447.15	439080.76	39°42'08.960"N	80°20'26.672"W	1722.23	213.987	8.22	6.09	8.82
8254.00	47.680	293.650	7864.80	-223.40	-1403.82	-1024.21	1763385.71	439104.95	39°42'09.194"N	80°20'27.461"W	1737.73	216.114	7.19	6.32	4.87
8348.00	55.310	295.050	7913.28	-153.94	-1373.47	-1091.15	1763318.76	439135.30	39°42'09.487"N	80°20'28.321"W	1754.15	218.465	8.20	8.12	1.49



Actual Wellpath Report

WDTN-5G-HSM AWP Proj: 18237'
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot G
Operator	CNX GAS COMPANY, LLC	Well	WDTN-5G-HSM
Area	Monongalia County, WV	Wellbore	WDTN-5G-HSM AWB
Field	Monongalia		
Facility	WTN-5 Pad		

WELLPATH DATA (196 stations)															
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grd East	Grd North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
ft	°	°	ft	ft	ft	ft	US ft	US ft			ft	°	F/100ft	F/100ft	F/100ft
8443.00	63.010	298.930	7961.96	-75.79	-1336.40	-1163.71	1763246.21	439172.37	39°42'09.847"N	80°20'29.254"W	1772.05	221.049	8.83	8.11	4.08
8537.00	71.160	304.090	7998.55	8.82	-1291.10	-1237.37	1763172.56	439217.67	39°42'10.288"N	80°20'30.202"W	1788.30	223.783	10.03	8.67	5.49
8632.00	78.980	310.070	8023.03	99.93	-1235.76	-1310.45	1763099.48	439273.00	39°42'10.828"N	80°20'31.144"W	1801.22	226.680	10.23	8.23	6.29
8726.00	88.150	312.200	8033.55	193.15	-1174.37	-1380.71	1763029.22	439334.39	39°42'11.428"N	80°20'32.050"W	1812.60	229.617	10.01	9.76	2.27
8820.00	89.910	309.350	8035.15	287.02	-1113.00	-1451.88	1762958.06	439395.76	39°42'12.028"N	80°20'33.968"W	1829.40	232.527	3.56	1.87	-3.03
8915.00	89.200	311.860	8035.88	381.89	-1051.18	-1524.00	1762885.95	439457.58	39°42'12.632"N	80°20'33.898"W	1851.36	235.404	2.75	-0.75	2.64
9009.00	89.200	313.000	8037.20	475.86	-987.76	-1593.37	1762816.58	439520.99	39°42'13.253"N	80°20'34.793"W	1874.70	238.204	1.21	0.00	1.21
9104.00	88.980	316.130	8038.71	570.82	-921.12	-1661.04	1762748.91	439587.63	39°42'13.905"N	80°20'35.666"W	1899.34	240.990	3.30	-0.23	3.29
9198.00	88.650	315.510	8040.65	664.72	-853.72	-1726.53	1762683.42	439655.02	39°42'14.565"N	80°20'36.512"W	1926.07	243.689	0.75	-0.35	-0.66
9293.00	88.710	315.990	8042.84	759.62	-785.69	-1792.80	1762617.15	439723.05	39°42'15.231"N	80°20'37.369"W	1957.41	246.335	0.51	0.06	0.51
9387.00	88.340	315.640	8045.26	853.51	-718.30	-1858.30	1762485.64	439790.43	39°42'15.891"N	80°20'38.215"W	1992.29	248.867	0.54	-0.39	-0.37
9481.00	88.030	315.060	8048.24	947.42	-651.46	-1924.32	1762346.89	439857.27	39°42'16.546"N	80°20'39.067"W	2031.61	251.297	0.70	-0.33	-0.62
9576.00	88.430	312.720	8051.17	1042.36	-586.24	-1993.32	1762166.65	439922.48	39°42'17.184"N	80°20'39.958"W	2077.74	253.611	3.54	0.42	-3.52
9670.00	88.580	312.400	8053.62	1136.30	-523.29	-2063.08	1762046.89	439985.43	39°42'17.799"N	80°20'40.858"W	2128.41	255.767	0.74	0.16	0.72
9765.00	89.170	312.770	8055.49	1231.26	-459.02	-2133.02	1762276.96	440049.70	39°42'18.428"N	80°20'41.760"W	2181.85	257.855	0.73	0.62	0.39
9859.00	89.600	311.910	8056.50	1325.24	-395.71	-2202.49	1762207.49	440113.00	39°42'19.047"N	80°20'42.657"W	2237.76	259.815	1.02	0.46	-0.91
9954.00	89.660	311.450	8057.11	1420.19	-332.54	-2273.44	1762136.54	440176.17	39°42'19.665"N	80°20'43.572"W	2297.64	261.678	0.49	0.06	-0.48
10048.00	89.540	306.670	8057.77	1513.88	-273.33	-2346.41	1762063.58	440235.38	39°42'20.243"N	80°20'44.513"W	2362.28	263.356	5.09	-0.13	-5.09
10143.00	88.950	302.320	8059.02	1607.68	-219.55	-2424.68	1761985.32	440289.16	39°42'20.767"N	80°20'45.521"W	2434.60	264.826	4.62	-0.62	-4.58
10237.00	88.800	310.440	8060.87	1700.85	-163.85	-2500.28	1761909.72	440344.85	39°42'21.311"N	80°20'46.495"W	2505.64	266.251	8.64	-0.16	8.64
10331.00	88.740	310.730	8062.89	1794.71	-102.71	-2571.65	1761838.35	440405.99	39°42'21.908"N	80°20'47.415"W	2573.70	267.713	0.31	-0.06	0.31
10426.00	88.210	314.910	8065.42	1889.65	-38.17	-2641.69	1761768.71	440470.52	39°42'22.540"N	80°20'48.314"W	2641.57	269.172	4.43	-0.56	4.40
10520.00	89.110	316.890	8067.61	1983.54	29.31	-2706.29	1761703.33	440537.99	39°42'23.200"N	80°20'49.159"W	2706.85	270.620	2.31	0.96	2.11
10615.00	89.720	315.940	8068.58	2078.41	98.12	-2772.18	1761637.84	440606.80	39°42'23.874"N	80°20'50.005"W	2773.92	272.027	1.19	0.64	-1.00
10709.00	89.630	314.680	8069.12	2172.36	164.94	-2838.28	1761571.74	440673.62	39°42'24.529"N	80°20'50.859"W	2843.07	273.326	1.34	-0.10	-1.34
10803.00	89.660	314.950	8069.70	2266.33	231.19	-2904.97	1761505.06	440739.87	39°42'25.177"N	80°20'51.728"W	2914.15	274.550	0.29	0.03	0.29
10898.00	90.120	316.260	8069.88	2351.26	299.07	-2971.43	1761438.60	440807.74	39°42'25.842"N	80°20'52.570"W	2986.44	275.747	1.46	0.48	1.38
10992.00	90.030	315.750	8069.76	2455.17	366.69	-3036.36	1761373.32	440875.36	39°42'26.504"N	80°20'53.422"W	3058.78	276.885	0.55	-0.10	-0.54
11087.00	90.030	315.480	8069.71	2550.11	434.59	-3103.17	1761306.87	440943.25	39°42'27.169"N	80°20'54.280"W	3133.45	277.972	0.28	0.00	-0.28
11181.00	90.060	316.610	8069.64	2644.01	502.25	-3168.41	1761241.63	441010.91	39°42'27.831"N	80°20'55.123"W	3207.97	279.008	1.20	0.03	1.20



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS COMPANY, LLC	Slot	Slot G
Area	Monongalia County, WV	Well	WDTN-5G-HSM
Field	Monongalia	Wellbore	WDTN-5G-HSM AWB
Facility	WTN-5 Pad		

WELLPATH DATA (196 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)			(ft)	(°)	(ft/100ft)	(ft/100ft)	(ft/100ft)
11275.00	90.370	319.120	8069.28	2737.73	571.96	-3231.47	1761178.58	441080.61	39°42'28.514"N	80°20'55.939"W	3281.69	280.037	2.69	0.33	2.67
11370.00	90.280	314.860	8068.74	2832.53	641.41	-3296.25	1761113.79	441150.06	39°42'29.195"N	80°20'56.776"W	3358.08	281.011	4.49	-0.09	-4.48
11464.00	90.490	317.300	8068.11	2926.43	709.11	-3361.45	1761048.60	441217.75	39°42'29.858"N	80°20'57.618"W	3435.43	281.912	2.61	0.22	2.60
11559.00	90.680	319.320	8067.14	3021.08	780.04	-3424.63	1760985.43	441288.68	39°42'30.553"N	80°20'58.435"W	3512.34	282.832	2.14	0.20	2.13
11653.00	91.420	318.670	8065.42	3114.63	850.97	-3486.29	1760923.77	441359.61	39°42'31.248"N	80°20'59.233"W	3588.65	283.717	1.09	0.79	-0.69
11748.00	91.230	317.650	8063.22	3209.29	921.72	-3549.65	1760860.42	441430.36	39°42'31.941"N	80°21'00.052"W	3667.36	284.556	1.09	-0.20	-1.07
11842.00	91.540	313.300	8060.95	3303.19	988.70	-3615.53	1760794.54	441497.33	39°42'32.597"N	80°21'00.903"W	3748.27	285.294	4.64	0.33	-4.63
11937.00	91.140	313.600	8058.73	3398.16	1054.02	-3684.47	1760725.60	441562.65	39°42'33.236"N	80°21'01.793"W	3832.27	285.964	0.53	-0.42	0.32
12031.00	90.890	310.110	8057.06	3492.09	1116.72	-3754.47	1760655.61	441625.34	39°42'33.849"N	80°21'02.696"W	3917.03	286.564	3.72	-0.27	-3.71
12125.00	90.830	309.700	8055.65	3585.90	1177.02	-3826.57	1760583.51	441685.64	39°42'34.438"N	80°21'03.626"W	4003.50	287.097	0.44	-0.06	-0.44
12220.00	91.110	312.170	8054.04	3680.78	1239.25	-3898.32	1760511.77	441741.86	39°42'35.046"N	80°21'04.551"W	4090.55	287.635	2.62	0.29	2.60
12314.00	91.570	309.830	8051.84	3774.66	1300.90	-3969.24	1760440.85	441809.51	39°42'35.649"N	80°21'05.466"W	4176.98	288.146	2.54	0.49	-2.49
12409.00	91.570	308.770	8049.24	3869.37	1361.04	-4042.72	1760367.37	441869.55	39°42'36.237"N	80°21'06.414"W	4265.68	288.607	1.12	0.00	-1.12
12503.00	92.280	312.290	8046.08	3963.17	1422.08	-4114.12	1760295.98	441930.69	39°42'36.833"N	80°21'07.335"W	4352.96	289.068	3.82	0.76	3.74
12598.00	92.180	309.710	8042.39	4058.00	1484.36	-4185.75	1760224.35	441992.96	39°42'37.442"N	80°21'08.259"W	4441.16	289.526	2.72	-0.11	-2.72
12693.00	92.520	308.570	8038.49	4152.65	1544.27	-4259.37	1760150.73	442052.87	39°42'38.027"N	80°21'09.208"W	4530.68	289.929	1.25	0.36	-1.20
12787.00	92.430	308.930	8034.43	4246.24	1603.05	-4332.61	1760077.50	442111.65	39°42'38.601"N	80°21'10.152"W	4619.67	290.304	0.39	-0.10	0.38
12882.00	91.450	309.970	8031.21	4340.94	1663.38	-4405.93	1760004.19	442171.97	39°42'39.190"N	80°21'11.098"W	4709.46	290.683	1.50	-1.03	1.09
12976.00	91.850	313.660	8028.51	4434.85	1726.02	-4475.94	1759934.17	442234.60	39°42'39.803"N	80°21'12.001"W	4797.21	291.088	3.95	0.43	3.93
13071.00	91.750	316.250	8025.52	4529.76	1793.10	-4543.13	1759866.99	442301.68	39°42'40.459"N	80°21'12.869"W	4884.19	291.538	2.73	-0.11	2.73
13165.00	91.720	317.180	8022.68	4623.57	1861.49	-4607.55	1759802.58	442370.07	39°42'41.129"N	80°21'13.701"W	4969.38	291.999	0.99	-0.03	0.99
13260.00	91.260	314.250	8020.21	4718.45	1929.47	-4673.85	1759736.28	442438.05	39°42'41.795"N	80°21'14.558"W	5056.46	292.432	3.12	-0.48	-3.08
13354.00	91.540	315.020	8017.91	4812.41	1995.49	-4740.77	1759669.41	442504.06	39°42'42.441"N	80°21'15.422"W	5143.58	292.827	0.87	0.30	0.82
13449.00	91.480	313.820	8015.41	4907.36	2061.96	-4808.55	1759601.59	442570.53	39°42'43.092"N	80°21'16.298"W	5232.00	293.210	1.26	-0.06	-1.26
13543.00	91.540	305.610	8012.92	5001.04	2121.95	-4880.77	1759529.37	442630.51	39°42'43.678"N	80°21'17.229"W	5322.09	293.497	8.73	0.06	-8.73
13638.00	91.480	308.290	8010.42	5095.38	2179.03	-4956.66	1759453.49	442687.59	39°42'44.235"N	80°21'18.207"W	5414.49	293.731	2.82	-0.06	2.82
13732.00	91.140	315.710	8008.27	5189.26	2241.87	-5026.45	1759383.71	442750.43	39°42'44.849"N	80°21'19.108"W	5503.74	294.038	7.90	-0.36	7.89
13827.00	91.970	313.000	8005.69	5284.20	2308.26	-5094.34	1759315.82	442818.81	39°42'45.499"N	80°21'19.984"W	5592.88	294.375	2.98	0.87	-2.85
13921.00	91.290	311.410	8003.02	5378.14	2371.38	-5163.94	1759246.22	442879.92	39°42'46.116"N	80°21'20.883"W	5682.40	294.665	1.84	-0.72	-1.69
14016.00	91.720	308.380	8000.52	5472.91	2432.28	-5236.79	1759173.37	442940.82	39°42'46.711"N	80°21'21.822"W	5774.08	294.913	3.22	0.45	-3.19



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS COMPANY, LLC	Slot	Slot G
Area	Monongalia County, WV	Well	WDTN-5G-HSM
Field	Monongalia	Wellbore	WDTN-5G-HSM AWP
Facility	WTN-5 Pad		

WELLPATH DATA (196 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 F/100ft	Build Rate F/100ft	Turn Rate F/100ft
14110.00	91.910	317.830	7997.54	5666.75	2496.41	-5305.31	1759104.86	443004.95	39°42'47.338"N	80°21'22.707"W	5863.31	295.199	10.05	0.20	10.05
14204.00	91.720	318.620	7994.56	5660.38	2566.47	-5367.90	1759042.27	443075.01	39°42'48.025"N	80°21'23.516"W	5949.89	295.553	0.86	-0.20	0.84
14299.00	91.450	315.820	7991.93	5755.14	2636.17	-5432.39	1758977.78	443144.70	39°42'48.707"N	80°21'24.350"W	6038.23	295.886	2.96	-0.28	-2.95
14393.00	91.600	314.740	7989.43	5849.06	2702.93	-5498.51	1758911.67	443211.46	39°42'49.361"N	80°21'25.204"W	6126.95	296.178	1.16	0.16	-1.15
14488.00	91.570	316.610	7986.80	5943.95	2770.87	-5564.86	1758845.32	443279.39	39°42'50.026"N	80°21'26.061"W	6216.54	296.470	1.97	-0.03	1.97
14582.00	91.140	315.790	7984.58	6037.82	2838.69	-5629.91	1758780.28	443347.21	39°42'50.690"N	80°21'26.902"W	6305.08	296.758	0.98	-0.46	-0.87
14676.00	91.170	313.960	7982.68	6131.77	2905.00	-5696.50	1758713.69	443413.51	39°42'51.339"N	80°21'27.762"W	6394.46	297.020	1.95	0.03	-1.95
14770.00	91.480	314.060	7980.51	6225.74	2970.29	-5764.09	1758646.11	443478.80	39°42'51.978"N	80°21'28.635"W	6484.39	297.262	0.35	0.33	0.11
14863.00	91.480	315.290	7978.11	6318.68	3035.65	-5830.20	1758580.00	443544.16	39°42'52.618"N	80°21'29.489"W	6573.16	297.505	1.32	0.00	1.32
14957.00	91.600	312.580	7975.58	6412.64	3100.85	-5897.86	1758512.34	443609.35	39°42'53.256"N	80°21'30.362"W	6663.33	297.734	2.88	0.13	-2.88
15050.00	91.910	312.580	7972.73	6505.58	3163.74	-5966.31	1758443.90	443672.24	39°42'53.871"N	80°21'31.246"W	6753.23	297.936	0.33	0.33	0.00
15144.00	91.940	314.140	7969.57	6599.53	3228.24	-6034.61	1758375.60	443736.74	39°42'54.502"N	80°21'32.128"W	6843.83	298.145	1.66	0.03	1.66
15238.00	91.970	316.980	7966.37	6693.40	3295.31	-6100.38	1758309.84	443803.80	39°42'55.158"N	80°21'32.978"W	6933.52	298.377	3.02	0.03	3.02
15332.00	91.790	315.960	7963.28	6787.22	3363.42	-6165.09	1758245.14	443871.91	39°42'55.825"N	80°21'33.814"W	7022.88	298.615	1.10	-0.19	-1.09
15425.00	91.540	314.590	7960.58	6880.14	3429.47	-6230.50	1758179.72	443937.95	39°42'56.472"N	80°21'34.659"W	7111.99	298.830	1.50	-0.27	-1.47
15519.00	91.230	308.220	7958.31	6974.00	3491.59	-6300.95	1758109.28	444000.07	39°42'57.079"N	80°21'35.568"W	7203.69	298.992	6.78	-0.33	-6.78
15613.00	90.620	310.750	7956.79	7067.75	3551.35	-6373.48	1758036.75	444069.83	39°42'57.663"N	80°21'36.504"W	7296.12	299.127	2.77	-0.65	2.69
15707.00	90.980	317.540	7955.48	7161.68	3616.77	-6440.89	1757969.35	444125.25	39°42'58.303"N	80°21'37.374"W	7386.89	299.316	7.23	0.38	7.22
15800.00	91.020	314.360	7953.85	7254.57	3683.60	-6505.53	1757904.71	444192.06	39°42'58.957"N	80°21'38.209"W	7476.02	299.520	3.42	0.04	-3.42
15894.00	90.860	312.660	7952.31	7348.55	3748.30	-6573.69	1757836.55	444256.77	39°42'59.590"N	80°21'39.090"W	7567.25	299.692	1.82	-0.17	-1.81
15988.00	90.310	313.470	7951.35	7442.54	3812.48	-6642.36	1757767.89	444320.94	39°43'00.218"N	80°21'39.976"W	7658.72	299.854	1.04	-0.59	0.86
16082.00	90.460	311.670	7950.72	7536.52	3876.07	-6711.59	1757698.67	444384.53	39°43'00.840"N	80°21'40.870"W	7750.44	300.007	1.92	0.16	-1.91
16177.00	90.520	308.000	7949.91	7631.31	3936.91	-6784.52	1757625.74	444445.37	39°43'01.434"N	80°21'41.810"W	7844.04	300.126	3.86	0.06	-3.86
16271.00	90.460	312.230	7949.10	7725.12	3997.46	-6856.39	1757553.88	444505.91	39°43'02.026"N	80°21'42.738"W	7936.61	300.243	4.50	-0.06	4.50
16365.00	90.400	313.600	7948.40	7819.11	4061.47	-6925.23	1757485.04	444569.91	39°43'02.652"N	80°21'43.626"W	8028.34	300.391	1.46	-0.06	1.46
16460.00	90.430	316.340	7947.71	7914.07	4128.60	-6992.43	1757417.84	444637.04	39°43'03.309"N	80°21'44.494"W	8120.31	300.559	2.88	0.03	2.88
16554.00	90.770	317.360	7946.72	8007.90	4197.17	-7056.71	1757353.56	444705.61	39°43'03.981"N	80°21'45.325"W	8210.57	300.743	1.14	0.36	1.09
16649.00	90.860	315.560	7945.37	8102.76	4266.03	-7122.14	1757288.13	444774.46	39°43'04.655"N	80°21'46.171"W	8302.04	300.921	1.90	0.09	-1.89
16743.00	90.590	316.440	7944.18	8196.66	4333.64	-7187.44	1757222.85	444842.07	39°43'05.317"N	80°21'47.015"W	8392.83	301.088	0.98	-0.29	0.94
16838.00	90.250	310.090	7943.49	8291.61	4398.71	-7256.58	1757153.71	444907.14	39°43'05.953"N	80°21'47.908"W	8485.67	301.223	6.69	-0.36	-6.68



Actual Wellpath Report

WDTN-5G-HSM AWP Proj: 18237'
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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS COMPANY, LLC	Slot	Slot G
Area	Monongalia County, WV	Well	WDTN-5G-HSM
Field	Monongalia	Wellbore	WDTN-5G-HSM AWB
Facility	WTN-5 Pad		

WELLPATH DATA (196 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)
16932.00	90.150	313.600	7943.16	8385.56	4461.41	-7326.59	1757083.70	444969.83	39°43'06.566"N	80°21'48.811"W	8578.06	301.339	3.74	-0.11	3.73
17026.00	90.090	313.850	7942.96	8479.55	4526.39	-7394.52	1757015.77	445034.80	39°43'07.202"N	80°21'49.689"W	8669.90	301.472	0.27	-0.06	0.27
17121.00	90.090	313.920	7942.81	8574.55	4592.24	-7462.99	1756947.31	445100.65	39°43'07.846"N	80°21'50.573"W	8762.70	301.605	0.07	0.00	0.07
17215.00	89.940	311.590	7942.79	8668.54	4656.05	-7532.01	1756878.30	445164.46	39°43'08.470"N	80°21'51.464"W	8854.94	301.723	2.48	-0.16	-2.48
17310.00	89.940	309.340	7942.89	8763.40	4717.70	-7604.28	1756806.03	445226.10	39°43'09.073"N	80°21'52.396"W	8948.84	301.815	2.37	0.00	-2.37
17404.00	90.120	317.260	7942.84	8857.32	4782.11	-7672.64	1756737.68	445290.52	39°43'09.703"N	80°21'53.279"W	9040.90	301.934	8.43	0.19	8.43
17499.00	89.910	320.430	7942.81	8951.90	4853.63	-7735.15	1756675.17	445362.03	39°43'10.404"N	80°21'54.088"W	9131.83	302.107	3.34	-0.22	3.34
17593.00	89.780	318.760	7943.07	9045.36	4925.21	-7796.07	1756614.25	445433.60	39°43'11.105"N	80°21'54.876"W	9221.52	302.283	1.78	-0.14	-1.78
17688.00	89.600	312.260	7943.58	9140.25	4992.94	-7862.61	1756547.71	445501.33	39°43'11.768"N	80°21'55.736"W	9313.98	302.417	6.84	-0.19	-6.84
17782.00	89.690	313.300	7944.16	9234.24	5056.78	-7931.60	1756478.73	445565.17	39°43'12.393"N	80°21'56.627"W	9406.45	302.520	1.11	0.10	1.11
17876.00	90.180	313.170	7944.27	9328.24	5121.17	-8000.09	1756410.25	445629.56	39°43'13.022"N	80°21'57.511"W	9498.83	302.625	0.54	0.52	-0.14
17971.00	89.690	310.750	7944.38	9423.20	5184.69	-8070.72	1756339.61	445693.06	39°43'13.643"N	80°21'58.423"W	9592.58	302.717	2.60	-0.52	-2.55
18065.00	90.280	307.380	7944.40	9516.90	5243.92	-8143.70	1756266.64	445752.29	39°43'14.222"N	80°21'59.364"W	9685.99	302.778	3.64	0.63	-3.59
18160.00	90.030	311.310	7944.14	9611.63	5304.13	-8217.15	1756193.20	445812.50	39°43'14.810"N	80°22'00.311"W	9780.36	302.842	4.15	-0.26	4.14
18212.00	90.030	313.300	7944.12	9663.62	5359.13	-8255.61	1756154.74	445847.50	39°43'15.152"N	80°22'00.808"W	9831.65	302.892	3.83	0.00	3.83
18237.00	90.030	313.300	7944.10	9688.62	5356.28	-8273.80	1756136.55	445864.64	39°43'15.320"N	80°22'01.043"W	9856.24	302.918	0.00	0.00	0.00

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Actual Wellpath Report

WDTN-5G-HSM AWP Proj: 18237'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Slot	Slot G
Area	Monongalia County, WV	Well	WDTN-5G-HSM
Field	Monongalia	Wellbore	WDTN-5G-HSM AWB
Facility	WTN-5 Pad		

HOLE & CASING SECTIONS - Ref Wellbore: WDTN-5G-HSM AWB Ref Wellpath: WDTN-5G-HSM AWP Proj: 18237'									
String/Diameter	Start MD	End MD	Interval	Start TVD	End TVD	Start N/S	Start E/W	End N/S	End E/W
	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]
20in Conductor	29.00	129.00	100.00	29.00	129.00	0.00	0.00	-0.15	0.17
17.5in Open Hole	129.00	1385.00	1256.00	129.00	1384.98	-0.15	0.17	-1.54	-4.90
13.375in Casing Surface	29.00	1356.20	1327.20	29.00	1356.18	0.00	0.00	-1.59	-4.71
12.25in Open Hole	1385.00	2997.00	1612.00	1384.98	2996.94	-1.54	-4.90	5.09	-10.51
9.625in Casing Intermediate	29.00	2960.20	2931.20	29.00	2960.14	0.00	0.00	4.92	-10.51
8.75in Open Hole	2997.00	7477.00	4480.00	2996.94	7178.05	5.09	-10.51	-1376.11	-697.95
8.5in Open Hole	7477.00	18237.00	10760.00	7178.05	7944.10	-1376.11	-697.95	5356.28	-8273.80
5.5in Casing Production	29.00	18237.00	18208.00	29.00	7944.10	0.00	0.00	5356.28	-8273.80

TARGETS									
Name	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape	
	[ft]	[ft]	[ft]	[US ft]	[US ft]				
WDTN-5G-HSM BHL Rev-5	7954.04	5360.82	-8271.03	1756139.32	445869.18	39°43'15.365"N	80°22'01.008"W	point	
WDTN-5G-HSM LP Rev-5	8035.00	-1156.72	-1402.95	1763006.98	439352.03	39°42'11.601"N	80°20'32.336"W	point	

WELLPATH COMPOSITION - Ref Wellbore: WDTN-5G-HSM AWB Ref Wellpath: WDTN-5G-HSM AWP Proj: 18237'									
Start MD	End MD	Positional Uncertainty Model	Log Name/Comment	Wellbore					
[ft]	[ft]								
29.00	1303.00	VESSI GyroFlex v4	01 VES Gyro <17-1/2"> (100'-1303')	WDTN-5G-HSM AWB					
1303.00	2951.00	BH NavITrak (Axial)	02 APS EM <12-1/4"> (1303')(1441'-2951')	WDTN-5G-HSM AWB					
2951.00	7412.00	BH NavITrak (Axial)	03 APS EM <8-3/4"> (2951')(3051'-7412')	WDTN-5G-HSM AWB					
7412.00	18212.00	BH AutoTrak Curve (Short)	04 BH AT Curve <8-1/2"> (7412')(7453'-18212')	WDTN-5G-HSM AWB					
18212.00	18237.00	Blind Drilling (std)	Projection to bit	WDTN-5G-HSM AWB					



Actual Wellpath Report
 WDTN-5G-HSM AWP Proj: 18237'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Slot	Slot G
Area	Monongalia County, WV	Well	WDTN-5G-HSM
Field	Monongalia	Wellbore	WDTN-5G-HSM AWP
Facility	WTN-5 Pad		

COMMENTS

Wellpath general comments
 API: 47-061-01823-0000
 BH Job #: 109741924-A
 Rig: Patterson 801
 Duration: 5/2/2019-5/6/2019
 VES Gyro <17'-1/2"> (100'-1303')
 APS EM <12'-1/4"> (1303')(1441'-2951')
 APS EM <8-3/4"> (2951')(3051'-7412')
 BH AT Curve <8-1/2"> (7412')(7453-18212)
 Projected MD at TD: 18237'

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