



Actual Wellpath Report

WDTN-5H-HSM AWP Proj: 17284'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Slot	Slot H
Area	Monongalia County, WV	Well	WDTN-5H-HSM
Field	Monongalia	Wellbore	WDTN-5H-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	Ecsaryar
Scale	0.999942	Report Generated	30/Apr/2019 at 10:59
Convergence at slot	0.53° West	Database/Source file	WA_MPL_EASTERNUS_Defn/WDTN-5H-HSM_AWP_Proj_17284_.xml

WELLPATH LOCATION							
	Local coordinates			Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude	
Slot Location	-42.01	-15.33	1764412.12	440488.82	39°42'22.965"N	80°20'14.494"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 H)
MD Reference Pt	Patterson 801 (RKB)		Section Origin
Field Vertical Reference	Mean Sea Level		Section Azimuth

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WV Department of
Environmental Protection



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Area	Monongalia County, WV	Well	WDTN-5H-HSM
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Facility	WTN-5 Pad		

WELLPATH DATA (187 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	87.600	0.00	0.00	0.00	0.00	1764412.12	440488.82	39°42'22.965"N	80°20'14.494"W	0.00	0.000	0.00	0.00	0.00
29.00	0.000	87.600	29.00	0.00	0.00	0.00	1764412.12	440488.82	39°42'22.965"N	80°20'14.494"W	0.00	0.000	0.00	0.00	0.00
100.00	0.380	87.600	100.00	-0.16	0.01	0.24	1764412.36	440488.83	39°42'22.966"N	80°20'14.491"W	0.24	87.600	0.54	0.54	123.38
200.00	0.510	152.320	200.00	-0.82	-0.37	0.77	1764412.89	440488.45	39°42'22.962"N	80°20'14.484"W	0.86	115.592	0.49	0.13	64.72
300.00	0.340	149.440	299.99	-1.52	-1.02	1.13	1764413.25	440487.50	39°42'22.955"N	80°20'14.480"W	1.52	132.048	0.17	-0.17	-2.88
400.00	0.070	143.380	399.99	-1.87	-1.32	1.32	1764413.44	440487.80	39°42'22.952"N	80°20'14.477"W	1.87	135.137	0.27	-0.27	-6.06
500.00	0.510	138.660	499.99	-2.37	-1.71	1.65	1764413.77	440487.11	39°42'22.949"N	80°20'14.473"W	2.37	136.008	0.44	0.44	-4.72
600.00	0.480	123.440	599.99	-3.23	-2.27	2.29	1764414.41	440486.55	39°42'22.943"N	80°20'14.465"W	3.23	134.756	0.13	-0.03	-15.22
700.00	0.340	158.930	699.99	-3.91	-2.78	2.75	1764414.87	440486.04	39°42'22.938"N	80°20'14.459"W	3.91	135.332	0.28	-0.14	35.49
800.00	0.620	150.360	799.98	-4.69	-3.53	3.12	1764415.24	440485.29	39°42'22.931"N	80°20'14.454"W	4.71	138.484	0.29	0.28	-8.57
900.00	0.470	121.710	899.98	-5.61	-4.21	3.74	1764415.86	440484.61	39°42'22.924"N	80°20'14.448"W	5.63	138.413	0.31	-0.15	-28.65
1000.00	0.380	197.610	999.98	-6.16	-4.74	3.99	1764416.11	440484.08	39°42'22.919"N	80°20'14.443"W	6.20	139.956	0.53	-0.09	75.90
1100.00	0.310	152.700	1099.97	-6.56	-5.30	4.01	1764416.13	440483.52	39°42'22.913"N	80°20'14.442"W	6.65	142.886	0.27	-0.07	-44.91
1200.00	0.510	219.800	1199.97	-6.84	-5.88	3.85	1764415.97	440482.94	39°42'22.908"N	80°20'14.444"W	7.03	146.797	0.48	0.20	67.10
1300.00	0.280	242.960	1299.97	-6.79	-6.34	3.35	1764415.47	440482.34	39°42'22.903"N	80°20'14.451"W	7.17	152.150	0.28	-0.23	23.15
1340.00	0.320	202.070	1339.97	-6.80	-6.48	3.22	1764415.34	440482.48	39°42'22.900"N	80°20'14.452"W	7.24	153.600	0.53	0.10	-102.20
1453.00	0.350	290.200	1452.97	-6.60	-6.66	2.78	1764414.90	440482.16	39°42'22.900"N	80°20'14.458"W	7.21	157.362	0.41	0.03	77.99
1547.00	0.170	310.350	1546.97	-6.19	-6.47	2.40	1764414.52	440482.35	39°42'22.902"N	80°20'14.463"W	6.90	159.637	0.21	-0.19	21.44
1642.00	0.530	284.950	1641.96	-5.67	-6.26	1.87	1764413.99	440482.56	39°42'22.904"N	80°20'14.470"W	6.54	163.387	0.40	0.38	-26.74
1736.00	0.480	280.060	1735.96	-4.96	-6.08	1.06	1764413.18	440482.74	39°42'22.905"N	80°20'14.480"W	6.17	170.104	0.07	-0.05	-5.20
1830.00	0.590	312.100	1829.96	-4.14	-5.69	0.31	1764412.43	440483.13	39°42'22.909"N	80°20'14.489"W	5.70	176.837	0.33	0.12	34.09
1925.00	0.450	295.670	1924.95	-3.30	-5.20	-0.38	1764411.74	440483.62	39°42'22.914"N	80°20'14.498"W	5.21	184.231	0.21	-0.15	-17.29
2019.00	0.570	307.700	2018.95	-2.48	-4.75	-1.09	1764411.03	440484.07	39°42'22.918"N	80°20'14.508"W	4.88	192.882	0.17	0.13	12.80
2113.00	0.390	308.150	2112.95	-1.70	-4.27	-1.71	1764410.41	440484.55	39°42'22.923"N	80°20'14.516"W	4.60	201.808	0.19	-0.19	0.48
2208.00	0.450	301.590	2207.94	-1.01	-3.88	-2.28	1764409.84	440484.94	39°42'22.927"N	80°20'14.523"W	4.50	210.477	0.08	0.06	-6.91
2302.00	0.170	331.310	2301.94	-0.52	-3.56	-2.66	1764409.46	440485.26	39°42'22.930"N	80°20'14.530"W	4.45	216.790	0.33	-0.30	31.62
2397.00	0.190	305.070	2396.94	-0.23	-3.35	-2.86	1764409.26	440485.47	39°42'22.932"N	80°20'14.538"W	4.40	220.512	0.09	0.02	-27.62
2491.00	0.310	349.140	2490.94	0.13	-3.01	-3.03	1764409.09	440485.81	39°42'22.935"N	80°20'14.533"W	4.27	225.263	0.23	0.13	46.88
2586.00	0.330	10.840	2585.94	0.49	-2.49	-3.03	1764409.09	440486.33	39°42'22.941"N	80°20'14.533"W	3.92	230.650	0.13	0.02	22.84
2680.00	0.430	23.510	2679.94	0.75	-1.90	-2.84	1764409.28	440486.92	39°42'22.946"N	80°20'14.530"W	3.41	236.267	0.14	0.11	13.48



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

WELLPATH DATA (187 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)
2774.00	0.440	41.250	2773.94	0.89	-1.30	-2.46	1764409.66	440487.52	39°42'22.952"N	80°20'14.526"W	2.78	242.130	0.14	0.01	18.87
2869.00	0.220	340.740	2868.93	1.07	-0.85	-2.28	1764409.84	440487.97	39°42'22.957"N	80°20'14.523"W	2.44	249.450	0.40	-0.23	-63.69
2932.00	0.350	350.430	2931.93	1.33	-0.55	-2.35	1764409.77	440488.27	39°42'22.960"N	80°20'14.524"W	2.42	256.817	0.22	0.21	15.38
3053.00	0.470	296.370	3052.93	2.10	0.03	-2.86	1764409.26	440488.85	39°42'22.966"N	80°20'14.531"W	2.86	270.678	0.32	0.10	-44.68
3148.00	2.420	225.140	3147.90	2.53	-1.21	-4.63	1764407.49	440487.61	39°42'22.953"N	80°20'14.553"W	4.78	255.376	2.43	2.05	-74.98
3242.00	7.410	205.660	3241.53	0.73	-8.08	-8.66	1764403.46	440480.74	39°42'22.885"N	80°20'14.604"W	11.84	227.010	5.52	5.31	-20.72
3327.00	10.760	201.500	3335.32	-4.48	-21.85	-14.57	1764397.55	440466.97	39°42'22.748"N	80°20'14.678"W	26.26	213.690	3.59	3.53	-4.38
3431.00	13.640	197.420	3427.19	-12.64	-40.60	-21.10	1764391.02	440448.23	39°42'22.562"N	80°20'14.759"W	45.75	207.468	3.20	3.06	-4.34
3526.00	14.250	192.760	3519.40	-23.54	-62.69	-27.04	1764385.08	440426.13	39°42'22.343"N	80°20'14.833"W	68.27	203.332	1.34	0.64	-4.91
3620.00	13.630	186.650	3610.63	-36.09	-84.98	-30.88	1764381.24	440403.85	39°42'22.123"N	80°20'14.879"W	90.41	199.970	1.70	-0.66	-6.50
3715.00	12.540	189.560	3703.17	-48.57	-106.26	-33.89	1764378.23	440382.56	39°42'21.912"N	80°20'14.915"W	111.54	197.887	1.34	-1.15	-3.06
3809.00	12.500	199.860	3794.94	-58.34	-125.90	-39.04	1764373.08	440362.93	39°42'21.718"N	80°20'15.081"W	131.81	197.228	2.37	-0.04	10.96
3904.00	14.130	204.080	3887.39	-66.32	-146.16	-47.26	1764364.86	440342.67	39°42'21.517"N	80°20'15.081"W	153.61	197.920	2.00	1.72	4.44
3998.00	13.980	200.760	3978.57	-74.53	-167.25	-55.97	1764356.15	440321.58	39°42'21.307"N	80°20'15.190"W	176.36	198.503	0.87	-0.16	-3.53
4093.00	13.480	196.490	4070.86	-83.99	-188.60	-63.18	1764348.94	440300.24	39°42'21.096"N	80°20'15.280"W	198.90	198.521	1.19	-0.53	-4.49
4187.00	12.880	192.130	4162.39	-94.42	-209.34	-68.49	1764343.63	440279.49	39°42'20.890"N	80°20'15.346"W	220.26	198.117	1.23	-0.64	-4.64
4282.00	12.070	185.420	4255.15	-106.06	-229.59	-71.66	1764340.47	440259.25	39°42'20.690"N	80°20'15.384"W	240.51	197.333	1.75	-0.85	-7.06
4376.00	13.390	191.850	4346.84	-117.83	-250.02	-74.82	1764337.31	440238.81	39°42'20.488"N	80°20'15.422"W	260.98	196.650	2.06	1.40	6.84
4471.00	13.780	191.470	4439.18	-129.61	-271.88	-79.33	1764332.80	440216.96	39°42'20.271"N	80°20'15.477"W	283.22	196.266	0.42	0.41	-0.40
4565.00	13.050	188.750	4530.62	-141.59	-293.34	-83.17	1764328.96	440195.50	39°42'20.059"N	80°20'15.523"W	304.90	195.829	1.03	-0.78	-2.89
4660.00	12.080	182.700	4623.35	-154.20	-313.87	-85.27	1764326.86	440174.97	39°42'19.856"N	80°20'15.548"W	325.25	195.199	1.72	-1.02	-6.37
4755.00	12.680	188.710	4716.14	-166.65	-334.14	-87.32	1764324.81	440154.73	39°42'19.656"N	80°20'15.571"W	345.33	194.646	1.50	0.63	6.33
4849.00	15.320	197.980	4807.35	-177.89	-356.12	-92.71	1764319.41	440132.72	39°42'19.437"N	80°20'15.638"W	367.99	194.592	3.68	2.81	9.86
4943.00	14.750	197.730	4898.13	-188.44	-379.33	-100.19	1764311.94	440109.51	39°42'19.207"N	80°20'15.731"W	392.34	194.795	0.61	-0.61	-0.27
5038.00	13.460	195.400	4990.27	-198.91	-401.51	-106.81	1764305.32	440087.33	39°42'18.988"N	80°20'15.813"W	415.48	194.897	1.48	-1.36	-2.45
5132.00	14.690	197.550	5081.45	-209.28	-423.43	-113.31	1764298.82	440065.42	39°42'18.770"N	80°20'15.890"W	438.32	194.981	1.42	1.31	2.29
5227.00	14.640	196.180	5173.35	-220.06	-446.44	-120.29	1764291.84	440042.41	39°42'18.542"N	80°20'15.983"W	462.36	195.079	0.37	-0.05	-1.44
5321.00	14.500	194.650	5264.33	-231.19	-469.23	-126.57	1764285.55	440019.61	39°42'18.317"N	80°20'16.058"W	486.01	195.096	0.44	-0.15	-1.63
5416.00	14.370	193.440	5356.33	-242.83	-492.21	-132.32	1764279.81	439996.64	39°42'18.089"N	80°20'16.128"W	509.68	195.047	0.35	-0.14	-1.27
5510.00	14.740	190.930	5447.31	-255.11	-515.29	-137.30	1764274.83	439973.56	39°42'17.860"N	80°20'16.189"W	533.27	194.920	0.78	0.39	-2.67



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Facility	WTN-5 Pad				

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(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)			(ft)	(°)	(ft/100ft)	(ft/100ft)	(ft/100ft)
5605.00	15.990	197.040	5538.92	-267.45	-539.67	-143.43	1764268.70	439949.18	39°42'17.619"N	80°20'16.265"W	558.41	194.883	2.15	1.32	6.43
5699.00	14.490	197.580	5629.61	-278.36	-563.26	-150.77	1764261.36	439925.59	39°42'17.385"N	80°20'16.356"W	583.09	194.985	1.60	-1.60	0.57
5794.00	14.750	195.850	5721.54	-289.17	-586.23	-157.67	1764254.46	439902.63	39°42'17.157"N	80°20'16.441"W	607.06	195.053	0.53	0.27	-1.82
5889.00	14.080	193.700	5813.55	-300.52	-609.09	-163.71	1764248.42	439879.77	39°42'16.931"N	80°20'16.516"W	630.70	195.044	0.90	-0.71	-2.26
5983.00	12.980	190.920	5904.94	-311.89	-630.56	-168.41	1764243.72	439858.29	39°42'16.718"N	80°20'16.574"W	652.67	194.954	1.36	-1.17	-2.96
6085.00	13.160	186.350	6004.30	-325.07	-653.35	-171.87	1764240.20	439835.51	39°42'16.493"N	80°20'16.615"W	675.58	194.738	1.03	0.18	-4.48
6179.00	13.480	189.970	6095.77	-337.58	-674.78	-174.95	1764237.18	439814.08	39°42'16.281"N	80°20'16.652"W	697.09	194.535	0.95	0.34	3.85
6274.00	14.980	196.230	6187.86	-349.33	-697.47	-180.30	1764231.83	439791.39	39°42'16.056"N	80°20'16.718"W	720.40	194.494	2.26	1.58	6.59
6369.00	15.390	195.700	6279.54	-360.83	-721.40	-187.14	1764224.99	439767.46	39°42'15.819"N	80°20'16.802"W	745.28	194.543	0.46	0.43	-0.56
6463.00	15.770	190.350	6370.09	-373.63	-745.97	-192.81	1764219.32	439742.89	39°42'15.576"N	80°20'16.872"W	770.49	194.492	1.58	0.40	-5.69
6557.00	16.890	185.910	6460.30	-388.95	-772.12	-196.51	1764215.62	439716.74	39°42'15.317"N	80°20'16.916"W	796.74	194.279	1.78	1.19	-4.72
6652.00	16.650	188.520	6551.26	-405.17	-799.31	-199.95	1764212.18	439689.56	39°42'15.048"N	80°20'16.957"W	823.94	194.044	0.83	-0.25	2.75
6746.00	17.920	186.880	6641.02	-421.52	-826.99	-203.68	1764208.46	439661.88	39°42'14.774"N	80°20'17.001"W	851.70	193.836	1.45	1.35	-1.74
6841.00	16.880	186.230	6731.67	-438.59	-855.21	-206.92	1764205.21	439633.66	39°42'14.495"N	80°20'17.040"W	879.89	193.602	1.11	-1.09	-0.68
6939.00	16.020	194.600	6825.67	-453.74	-882.44	-211.88	1764200.26	439606.43	39°42'14.225"N	80°20'17.100"W	907.52	193.501	2.57	-0.88	8.54
7033.00	15.320	199.680	6916.18	-465.03	-906.69	-219.33	1764192.80	439582.19	39°42'13.985"N	80°20'17.192"W	932.84	193.599	1.64	-0.74	5.40
7128.00	13.470	197.930	7008.19	-474.87	-929.04	-226.96	1764185.17	439559.84	39°42'13.763"N	80°20'17.287"W	966.36	193.728	2.00	-1.95	-1.84
7222.00	15.190	196.610	7099.27	-485.17	-951.25	-233.85	1764178.28	439537.62	39°42'13.543"N	80°20'17.373"W	979.58	193.812	1.86	1.83	-1.40
7279.00	16.770	194.580	7154.06	-492.52	-966.37	-238.06	1764174.08	439522.51	39°42'13.393"N	80°20'17.425"W	995.26	193.839	2.94	2.77	-3.56
7322.00	17.910	193.360	7195.11	-498.84	-978.81	-241.15	1764170.99	439510.07	39°42'13.270"N	80°20'17.463"W	1008.08	193.840	2.78	2.65	-2.84
7401.00	17.960	213.740	7270.34	-507.02	-1000.78	-250.73	1764161.41	439488.10	39°42'13.052"N	80°20'17.583"W	1031.71	194.065	7.91	194.065	25.80
7495.00	15.600	255.800	7360.66	-502.70	-1015.98	-271.11	1764141.03	439472.90	39°42'12.900"N	80°20'17.841"W	1051.53	194.941	12.87	-2.51	44.74
7590.00	15.520	292.650	7452.40	-483.95	-1014.22	-295.28	1764116.86	439454.66	39°42'12.915"N	80°20'18.151"W	1056.33	196.232	10.24	-0.08	38.79
7684.00	19.100	293.150	7542.12	-457.77	-1003.33	-321.03	1764091.10	439485.55	39°42'13.020"N	80°20'18.482"W	1053.44	197.743	3.81	3.81	0.53
7779.00	25.230	299.340	7630.07	-423.53	-987.28	-353.01	1764059.13	439501.60	39°42'13.176"N	80°20'18.893"W	1048.49	199.675	6.90	6.45	6.52
7873.00	34.020	301.960	7711.71	-378.25	-963.49	-392.86	1764019.28	439525.38	39°42'13.407"N	80°20'19.405"W	1040.51	202.183	9.45	9.35	2.79
7967.00	42.200	302.020	7785.61	-321.45	-932.78	-442.03	1763970.12	439556.09	39°42'13.706"N	80°20'20.038"W	1032.22	205.355	8.70	8.70	0.06
8062.00	48.330	300.900	7852.44	-285.49	-897.61	-499.58	1763912.57	439591.26	39°42'14.049"N	80°20'20.779"W	1027.27	209.099	6.51	6.45	-1.18
8156.00	57.620	302.270	7908.98	-182.13	-858.30	-563.41	1763848.75	439660.57	39°42'14.431"N	80°20'21.600"W	1026.70	213.282	9.95	9.88	1.46
8251.00	65.030	303.800	7954.54	-100.23	-812.86	-633.21	1763778.95	439676.00	39°42'14.874"N	80°20'22.458"W	1030.39	217.918	7.93	7.80	1.61



Actual Wellpath Report

WDTN-5H-HSM AWP Proj: 17284'
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot H
Operator	CNX GAS COMPANY, LLC	Well	WDTN-5H-HSM
Area	Monongalia County, WV	Wellbore	WDTN-5H-HSM AWB
Field	Monongalia		
Facility	WTN-5 Pad		

WELLPATH DATA (187 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)	(°/100ft)
8345.00	70.680	306.080	7989.96	-14.17	-763.00	-704.53	1763707.64	439725.87	39°42'15.360"N	80°20'23.417"W	1038.52	222.718	6.42	6.01	2.43
8440.00	77.570	311.520	8015.95	76.82	-705.74	-775.62	1763636.55	439783.12	39°42'15.919"N	80°20'24.333"W	1048.65	227.701	9.10	7.25	5.73
8534.00	82.160	314.400	8032.49	169.31	-642.69	-843.30	1763568.87	439846.17	39°42'16.536"N	80°20'25.207"W	1060.29	232.688	5.74	4.88	3.06
8628.00	88.210	314.640	8040.38	262.92	-577.05	-910.06	1763502.12	439911.81	39°42'17.179"N	80°20'26.068"W	1077.58	237.622	6.44	6.44	0.26
8723.00	90.370	316.450	8041.56	357.84	-509.25	-976.58	1763435.60	439979.60	39°42'17.843"N	80°20'26.928"W	1101.38	242.460	2.97	2.27	1.91
8817.00	90.460	321.320	8040.87	451.40	-438.45	-1038.37	1763373.81	440050.40	39°42'18.537"N	80°20'27.727"W	1127.14	247.108	5.18	0.10	5.18
8912.00	89.510	317.380	8040.90	545.88	-366.39	-1100.24	1763311.94	440122.45	39°42'19.243"N	80°20'28.527"W	1159.64	251.582	4.27	-1.00	-4.15
9006.00	89.290	314.900	8041.88	639.77	-298.62	-1165.37	1763246.82	440190.22	39°42'19.907"N	80°20'29.368"W	1203.02	255.627	2.65	-0.23	-2.64
9100.00	88.890	313.280	8043.38	733.75	-233.23	-1232.87	1763179.32	440255.61	39°42'20.547"N	80°20'30.240"W	1254.74	259.288	1.77	-0.43	-1.72
9195.00	88.920	312.830	8045.19	828.73	-168.38	-1302.27	1763109.92	440320.45	39°42'21.181"N	80°20'31.135"W	1313.11	262.633	0.47	0.03	-0.47
9289.00	89.020	308.980	8046.88	922.60	-106.85	-1373.29	1763038.91	440381.97	39°42'21.783"N	80°20'32.051"W	1377.44	265.551	4.10	0.11	-4.10
9383.00	88.830	305.940	8048.65	1016.05	-49.70	-1447.89	1762964.32	440439.13	39°42'22.341"N	80°20'33.013"W	1448.74	268.034	3.24	-0.20	-3.23
9478.00	88.220	306.100	8051.09	1110.21	6.15	-1524.70	1762887.51	440494.97	39°42'22.885"N	80°20'34.002"W	1524.71	270.231	0.66	-0.64	0.17
9572.00	88.210	306.290	8054.02	1203.40	61.63	-1600.52	1762811.70	440550.45	39°42'23.427"N	80°20'34.979"W	1601.71	272.205	0.20	-0.01	0.20
9667.00	87.720	308.790	8057.39	1297.82	119.48	-1675.80	1762736.43	440608.29	39°42'23.991"N	80°20'35.949"W	1680.05	274.078	2.68	-0.52	2.63
9761.00	87.690	313.030	8061.16	1391.63	180.97	-1746.76	1762665.46	440666.78	39°42'24.592"N	80°20'36.864"W	1756.11	275.915	4.51	-0.03	4.51
9856.00	87.790	319.130	8064.91	1486.41	249.31	-1812.58	1762599.65	440738.12	39°42'25.262"N	80°20'37.714"W	1829.64	277.832	6.42	0.11	6.42
9950.00	87.910	316.090	8068.44	1580.09	318.68	-1875.90	1762536.34	440807.48	39°42'25.941"N	80°20'38.533"W	1902.77	279.642	3.23	0.13	-3.23
10045.00	89.140	315.530	8070.88	1674.98	386.78	-1942.09	1762470.15	440875.57	39°42'26.608"N	80°20'39.388"W	1980.23	281.263	1.42	1.29	-0.59
10139.00	89.110	313.740	8072.32	1768.95	452.81	-2008.97	1762403.27	440941.60	39°42'27.255"N	80°20'40.252"W	2059.37	282.702	1.90	-0.03	-1.90
10234.00	90.180	313.810	8072.91	1863.95	518.53	-2077.56	1762334.68	441007.32	39°42'27.898"N	80°20'41.137"W	2141.30	284.014	1.13	0.13	-0.13
10328.00	90.250	313.690	8072.55	1957.94	583.53	-2145.47	1762266.78	441072.32	39°42'28.534"N	80°20'42.014"W	2223.41	285.215	0.15	0.07	-0.13
10423.00	89.940	310.820	8072.40	2052.91	647.41	-2215.77	1762196.48	441136.19	39°42'29.158"N	80°20'42.921"W	2308.42	286.287	3.04	-0.33	-3.02
10517.00	89.750	306.400	8072.65	2146.55	706.05	-2289.21	1762123.05	441194.83	39°42'29.731"N	80°20'43.868"W	2395.62	287.141	4.71	-0.20	-4.70
10612.00	89.820	307.420	8073.01	2240.92	763.10	-2365.17	1762047.10	441251.88	39°42'30.288"N	80°20'44.846"W	2485.22	287.882	1.08	0.07	1.07
10706.00	89.970	314.260	8073.18	2334.76	824.54	-2436.24	1761976.03	441313.31	39°42'30.888"N	80°20'45.763"W	2571.99	288.698	7.28	0.16	7.28
10801.00	89.630	317.730	8073.51	2429.65	892.86	-2502.23	1761910.77	441381.62	39°42'31.557"N	80°20'46.616"W	2656.75	289.638	3.67	-0.36	3.65
10895.00	88.620	317.630	8074.95	2523.39	962.35	-2552.91	1761846.04	441451.11	39°42'32.238"N	80°20'47.434"W	2740.06	290.562	1.08	-1.07	-0.11
10989.00	90.490	316.270	8075.68	2617.21	1031.04	-2629.67	1761782.61	441519.79	39°42'32.911"N	80°20'48.263"W	2824.57	291.409	2.46	1.99	-1.45
11083.00	90.550	316.300	8074.82	2711.10	1098.98	-2694.63	1761717.66	441587.73	39°42'33.577"N	80°20'49.102"W	2910.11	292.188	0.07	0.06	0.03



Actual Wellpath Report

WDTN-5H-HSM AWP Proj: 17284'

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

WELLPATH DATA (187 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)	(°)	(F/100ft)	(F/100ft)	(F/100ft)
11178.00	90.430	311.990	8074.01	2806.07	1165.12	-2762.78	1761649.51	441653.87	39°42'34.224"N	80°20'49.982"W	2998.41	292.866	4.54	-0.13	-4.54
11272.00	90.460	315.600	8073.28	2900.05	1230.17	-2830.62	1761581.68	441718.91	39°42'34.860"N	80°20'50.858"W	3086.37	293.489	3.84	0.03	3.84
11367.00	90.460	320.450	8072.52	2994.72	1300.77	-2894.13	1761518.16	441789.51	39°42'35.552"N	80°20'51.679"W	3173.01	294.202	5.11	0.00	5.11
11461.00	90.180	317.470	8071.99	3088.28	1371.66	-2955.84	1761456.46	441860.40	39°42'36.247"N	80°20'52.477"W	3258.60	294.894	3.18	-0.30	-3.17
11556.00	89.940	312.260	8071.89	3183.22	1438.65	-3023.15	1761389.15	441927.39	39°42'36.903"N	80°20'53.346"W	3348.01	295.449	5.49	-0.25	-5.48
11650.00	90.370	315.100	8071.64	3277.21	1503.56	-3091.13	1761321.18	441992.29	39°42'37.538"N	80°20'54.224"W	3437.41	295.939	3.06	0.46	3.02
11745.00	90.400	318.520	8071.00	3372.03	1572.82	-3156.14	1761256.18	442061.54	39°42'38.216"N	80°20'55.064"W	3526.32	296.489	3.60	0.03	3.60
11839.00	90.770	320.560	8070.04	3465.50	1644.33	-3217.13	1761195.19	442133.05	39°42'38.917"N	80°20'55.853"W	3612.99	297.072	2.21	0.39	2.17
11934.00	90.950	315.950	8068.61	3560.14	1715.18	-3280.36	1761131.96	442203.90	39°42'39.612"N	80°20'56.671"W	3701.70	297.603	4.86	0.19	-4.85
12028.00	91.110	316.080	8066.92	3654.03	1782.81	-3345.62	1761066.70	442271.52	39°42'40.274"N	80°20'57.514"W	3790.99	298.052	0.22	0.17	-0.14
12123.00	90.770	313.580	8065.36	3748.99	1849.77	-3412.98	1760999.34	442338.48	39°42'40.929"N	80°20'58.384"W	3882.02	298.457	2.66	-0.36	-2.63
12218.00	91.010	309.730	8063.89	3843.91	1912.89	-3483.94	1760928.39	442401.59	39°42'41.546"N	80°20'59.300"W	3974.54	298.769	4.06	0.25	-4.05
12312.00	91.420	306.470	8061.89	3937.46	1970.87	-3557.89	1760854.45	442459.57	39°42'42.112"N	80°21'00.253"W	4067.30	298.984	3.49	0.44	-3.47
12408.00	91.290	307.380	8059.62	4032.80	2028.53	-3634.61	1760777.73	442517.23	39°42'42.675"N	80°21'01.241"W	4162.37	299.167	0.96	-0.14	0.95
12503.00	91.790	309.940	8057.07	4127.42	2087.85	-3708.76	1760703.58	442576.54	39°42'43.254"N	80°21'02.197"W	4256.05	299.377	2.74	0.53	2.69
12597.00	91.910	309.790	8054.04	4221.18	2148.07	-3780.87	1760631.48	442636.76	39°42'43.843"N	80°21'03.127"W	4348.47	299.603	0.20	0.13	-0.16
12692.00	91.510	308.470	8051.20	4315.86	2207.99	-3854.53	1760557.82	442696.68	39°42'44.428"N	80°21'04.077"W	4442.14	299.805	1.45	-0.42	-1.39
12786.00	91.540	313.260	8048.70	4409.70	2269.46	-3925.57	1760486.78	442758.14	39°42'45.029"N	80°21'04.994"W	4534.37	300.033	5.09	0.03	5.10
12881.00	91.450	311.780	8046.22	4504.65	2333.64	-3995.57	1760416.80	442822.32	39°42'45.657"N	80°21'05.897"W	4627.14	300.287	1.56	-0.09	-1.56
12975.00	91.850	313.340	8043.51	4598.60	2397.19	-4064.77	1760347.59	442888.86	39°42'46.278"N	80°21'06.790"W	4718.99	300.530	1.71	0.43	1.66
13070.00	91.540	315.480	8040.70	4693.54	2463.63	-4132.60	1760279.77	442952.30	39°42'46.928"N	80°21'07.666"W	4811.22	300.801	2.28	-0.33	2.25
13164.00	91.320	319.650	8038.36	4787.25	2532.97	-4195.99	1760216.38	443021.64	39°42'47.608"N	80°21'08.486"W	4901.26	301.118	4.44	-0.23	4.44
13259.00	90.860	318.750	8036.55	4881.76	2604.87	-4258.06	1760154.32	443093.54	39°42'48.312"N	80°21'09.288"W	4991.63	301.456	1.06	-0.48	-0.95
13353.00	90.980	315.730	8035.04	4975.54	2673.87	-4321.86	1760090.52	443162.53	39°42'48.988"N	80°21'10.113"W	5082.13	301.744	3.21	0.13	-3.21
13448.00	91.630	315.120	8032.87	5070.46	2741.52	-4388.52	1760023.87	443230.18	39°42'49.651"N	80°21'10.974"W	5174.46	301.993	0.94	0.68	-0.64
13542.00	91.570	312.370	8030.25	5164.41	2806.49	-4456.39	1759956.00	443295.14	39°42'50.286"N	80°21'11.851"W	5266.48	302.201	2.93	-0.06	-2.93
13637.00	92.370	318.430	8026.98	5259.26	2874.06	-4523.03	1759889.37	443363.71	39°42'50.948"N	80°21'12.712"W	5358.92	302.433	6.43	0.84	6.38
13731.00	92.030	320.640	8023.37	5352.62	2945.52	-4583.98	1759828.41	443434.16	39°42'51.648"N	80°21'13.500"W	5448.76	302.723	2.38	-0.36	2.35
13826.00	91.940	315.710	8020.08	5447.26	3016.25	-4647.28	1759765.12	443504.88	39°42'52.341"N	80°21'14.319"W	5540.30	302.985	5.19	-0.09	-5.19
13920.00	91.940	316.520	8016.90	5541.11	3083.95	-4712.40	1759700.00	443572.59	39°42'53.004"N	80°21'15.160"W	5631.83	303.202	0.86	0.00	0.86



Actual Wellpath Report

WDTN-SH-HSM AWP Proj: 17284'
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REFERENCE WELLPATH IDENTIFICATION

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

WELLPATH DATA (187 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]
14015.00	91.970	313.120	8013.66	5636.01	3150.87	-4779.74	1759632.67	443639.50	39°42'53.659"N	80°21'16.030"W	5724.85	303.393	3.58	0.03	-3.58
14109.00	91.140	311.360	8011.10	5729.95	3214.03	-4849.30	1759563.11	443702.66	39°42'54.277"N	80°21'16.928"W	5817.71	303.536	2.07	-0.88	-1.87
14204.00	91.140	313.730	8009.21	5824.91	3278.25	-4919.27	1759493.14	443766.87	39°42'54.905"N	80°21'17.831"W	5911.53	303.680	2.49	0.00	2.49
14298.00	91.260	312.500	8007.25	5918.89	3342.48	-4987.87	1759424.55	443831.10	39°42'55.533"N	80°21'18.717"W	6004.26	303.827	1.31	0.13	-1.31
14392.00	91.200	308.160	8005.23	6012.70	3403.29	-5059.50	1759352.93	443951.02	39°42'56.128"N	80°21'19.641"W	6097.62	303.927	4.62	-0.06	-4.62
14487.00	91.200	308.830	8003.24	6107.32	3462.41	-5133.84	1759278.59	443981.90	39°42'56.705"N	80°21'20.599"W	6192.30	303.997	0.71	0.00	0.71
14581.00	91.480	311.760	8001.04	6201.14	3523.18	-5205.50	1759206.93	444011.79	39°42'57.299"N	80°21'21.523"W	6285.70	304.091	3.13	0.30	3.12
14675.00	91.380	311.370	7998.69	6295.05	3585.52	-5275.81	1759136.62	444074.13	39°42'57.908"N	80°21'22.431"W	6378.89	304.201	0.43	-0.11	-0.41
14769.00	91.660	310.570	7996.20	6388.93	3647.13	-5346.76	1759065.68	444135.73	39°42'58.510"N	80°21'23.346"W	6472.21	304.299	0.90	0.30	-0.85
14862.00	91.790	313.220	7993.40	6481.84	3709.20	-5415.95	1758996.49	444197.80	39°42'59.117"N	80°21'24.239"W	6564.35	304.406	2.85	0.14	2.85
14956.00	91.690	314.250	7990.54	6575.79	3774.16	-5483.84	1758928.61	444262.75	39°42'59.753"N	80°21'25.116"W	6657.08	304.537	1.10	-0.11	1.10
15050.00	91.720	316.320	7987.75	6669.70	3840.92	-5549.94	1758862.51	444329.51	39°43'00.406"N	80°21'25.970"W	6749.41	304.686	2.20	0.03	2.20
15143.00	91.750	314.230	7984.93	6762.61	3906.96	-5615.35	1758797.10	444395.55	39°43'01.053"N	80°21'26.815"W	6840.80	304.829	2.25	0.03	-2.25
15237.00	91.410	311.380	7982.34	6856.56	3970.81	-5684.29	1758728.18	444459.39	39°43'01.677"N	80°21'27.704"W	6933.86	304.937	3.05	-0.36	-3.03
15331.00	91.290	312.570	7980.12	6950.50	4033.65	-5754.15	1758658.32	444522.23	39°43'02.292"N	80°21'28.606"W	7027.13	305.030	1.27	-0.13	1.27
15425.00	91.230	310.810	7978.06	7044.42	4096.16	-5824.32	1758588.15	444584.73	39°43'02.903"N	80°21'29.512"W	7120.48	305.118	1.87	-0.06	-1.87
15518.00	91.230	311.010	7976.06	7137.31	4157.05	-5894.59	1758517.88	444645.62	39°43'03.498"N	80°21'30.418"W	7212.99	305.193	0.22	0.00	0.22
15612.00	91.200	310.630	7974.07	7231.18	4218.48	-5965.71	1758446.77	444707.04	39°43'04.098"N	80°21'31.336"W	7306.52	305.265	0.41	-0.03	-0.40
15706.00	91.200	313.450	7972.10	7325.12	4281.40	-6035.50	1758376.98	444769.97	39°43'04.714"N	80°21'32.237"W	7399.84	305.351	3.00	0.00	3.00
15799.00	91.260	317.990	7970.10	7418.01	4347.95	-6100.40	1758302.109	444836.51	39°43'05.365"N	80°21'33.075"W	7491.30	305.479	4.88	0.06	4.88
15893.00	91.230	316.630	7968.06	7511.77	4417.03	-6164.12	1758234.38	444905.58	39°43'06.042"N	80°21'33.899"W	7583.30	305.624	1.45	-0.03	-1.45
15987.00	91.260	315.000	7966.02	7605.67	4484.42	-6229.61	1758162.88	444972.97	39°43'06.701"N	80°21'34.745"W	7675.81	305.748	1.73	0.03	-1.73
16082.00	91.050	316.650	7964.10	7700.57	4552.54	-6295.80	1758116.70	445041.08	39°43'07.368"N	80°21'35.601"W	7769.34	305.871	1.75	-0.22	1.74
16176.00	90.980	315.320	7962.44	7794.47	4620.13	-6361.10	1758051.40	445108.67	39°43'08.030"N	80°21'36.445"W	7861.88	305.991	1.42	-0.07	-1.41
16270.00	90.800	308.760	7960.97	7888.37	4683.03	-6430.87	1757981.64	445171.57	39°43'08.645"N	80°21'37.345"W	7955.30	306.063	6.98	-0.19	-6.98
16365.00	90.800	301.430	7959.65	7982.28	4737.61	-6506.31	1757903.98	445226.14	39°43'09.177"N	80°21'38.347"W	8050.22	306.051	7.72	0.00	-7.72
16459.00	90.120	306.850	7958.89	8074.99	4780.34	-6586.34	1757826.21	445278.87	39°43'09.691"N	80°21'39.347"W	8144.12	306.029	5.81	-0.72	5.77
16553.00	89.600	308.880	7959.12	8168.53	4848.03	-6660.51	1757752.01	445336.56	39°43'10.254"N	80°21'40.304"W	8238.07	306.050	2.23	-0.55	2.16
16648.00	89.720	314.030	7959.68	8263.44	4910.90	-6731.68	1757680.84	445399.43	39°43'10.869"N	80°21'41.222"W	8332.62	306.112	5.42	0.13	5.42
16742.00	89.630	314.150	7960.22	8357.43	4976.31	-6799.20	1757613.33	445464.83	39°43'11.509"N	80°21'42.094"W	8425.72	306.200	0.16	-0.10	0.13



Actual Wellpath Report

WDTN-5H-HSM AWP Proj: 17284'

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

WELLPATH DATA (187 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]	[°/100ft]
16837.00	89.720	313.360	7960.76	8452.43	5042.01	-6867.82	1757544.72	445530.52	39°43'12.151"N	80°21'42.981"W	8519.90	306.284	0.84	0.09	-0.83
16931.00	89.510	314.160	7961.39	8546.42	5107.02	-6935.70	1757476.83	445595.53	39°43'12.787"N	80°21'43.857"W	8613.11	306.366	0.88	-0.22	0.85
17025.00	90.000	316.160	7961.79	8640.38	5173.67	-7001.98	1757410.56	445662.18	39°43'13.440"N	80°21'44.714"W	8706.01	306.460	2.19	0.52	2.13
17120.00	89.880	319.870	7961.89	8735.06	5244.27	-7065.52	1757347.03	445732.77	39°43'14.132"N	80°21'45.535"W	8799.09	306.584	3.91	-0.13	3.91
17214.00	89.970	319.570	7962.01	8828.51	5315.98	-7126.29	1757286.26	445804.48	39°43'14.834"N	80°21'46.322"W	8890.65	306.722	0.33	0.10	-0.32
17260.00	89.880	319.160	7962.07	8874.27	5350.89	-7156.25	1757256.30	445839.39	39°43'15.177"N	80°21'46.709"W	8935.54	306.786	0.91	-0.20	-0.89
17284.00	89.880	319.160	7962.12	8898.15	5369.05	-7171.95	1757240.61	445857.54	39°43'15.365"N	80°21'46.913"W	8958.99	306.819	0.00	0.00	0.00

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]				
20in Conductor	29.00	129.00	1388.00	1259.00	100.00	29.00	129.00	1387.97	1259.00	0.00	0.00	-0.02	0.42
17.5in Open Hole	129.00	1388.00	1357.30	1328.30	29.00	29.00	1387.97	1357.27	29.00	0.00	0.00	-6.66	3.08
13.375in Casing Surface	1388.00	2980.00	2943.30	2914.30	29.00	29.00	2979.93	2943.23	29.00	0.00	0.00	-0.28	-2.46
12.25in Open Hole	29.00	2980.00	2980.00	4370.00	1592.00	29.00	2979.93	7221.77	4370.00	-0.28	-2.46	-986.98	-243.64
9.625in Casing Intermediate	2980.00	17284.00	17284.00	17255.00	9934.00	7221.77	7962.12	7962.12	7221.77	-986.98	-243.64	5369.05	-7171.95
8.75in Open Hole	7350.00	17284.00	17284.00	17255.00	9934.00	7221.77	7962.12	7962.12	7221.77	-986.98	-243.64	5369.05	-7171.95
8.5in Open Hole	7350.00	17284.00	17284.00	17255.00	9934.00	7221.77	7962.12	7962.12	7221.77	-986.98	-243.64	5369.05	-7171.95
5.5in Casing Production	29.00	129.00	1388.00	1259.00	100.00	29.00	129.00	1387.97	1259.00	0.00	0.00	-0.02	0.42

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Actual Wellpath Report

WDTN-5H-HSM AWP Proj: 17284'

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

TARGETS								
Name	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape
WDTN-5H-HSM LP Rev-5	8035.00	-592.79	-888.93	1763523.25	439896.07	39°42'17.025"N	80°20'25.796"W	point
WDTN-5H-HSM BHL Rev-5	8155.95	5369.52	-7171.90	1757240.65	445858.01	39°43'15.359"N	80°21'46.912"W	point

WELLPATH COMPOSITION - Ref Wellbore: WDTN-5H-HSM AWB							Ref Wellpath: WDTN-5H-HSM AWP Proj: 17284'	
Start MD	End MD	Positional Uncertainty Model	Log Name/Comment				Wellbore	
29.00	1340.00	VESSI GyroFlex v4	01	VES Gyro <17-1/2"> (100--1340)				WDTN-5H-HSM AWB
1340.00	2932.00	BHI NavTrak (Axial)	02	APS EM <12-1/4"> (1340)(1453--2932)				WDTN-5H-HSM AWB
2932.00	7279.00	BHI NavTrak (Axial)	03	APS EM <8-3/4"> (2932)(3053--7279)				WDTN-5H-HSM AWB
7279.00	17260.00	BHI AutoTrak Curve (Short)	04	BH AT Curve <8-1/2"> (7279)(7322--17260)				WDTN-5H-HSM AWB
17260.00	17284.00	Blind Drilling (std)		Projection to bit				WDTN-5H-HSM AWB

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 WDTN-5H-HSM AWP Proj: 17284'
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REFERENCE WELLPATH IDENTIFICATION

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

COMMENTS

Wellpath general comments
 API: 47-061-01824-0000
 BH Job #: 109667139-A
 Rig: Patterson 801
 Duration: 4/26/2019-4/29/2019
 VES Gyro <17-1/2"> (100'-1340')
 APS EM <12-1/4"> (1340')(1453'-2932')
 APS EM <8-3/4"> (2932')(3053'-7279')
 BH AT Curve <8-1/2"> (7279')(7322'-17260')
 Projected MD at TD: 17284'

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