



# CNX GAS CO, LLC



Location: Monongalia County, WV  
 Field: Monongalia  
 Facility: WDTN-18 Pad

Slot: Slot U  
 Well: WDTN-18U-HSM  
 Wellbore: WDTN-18U-HSM PWB

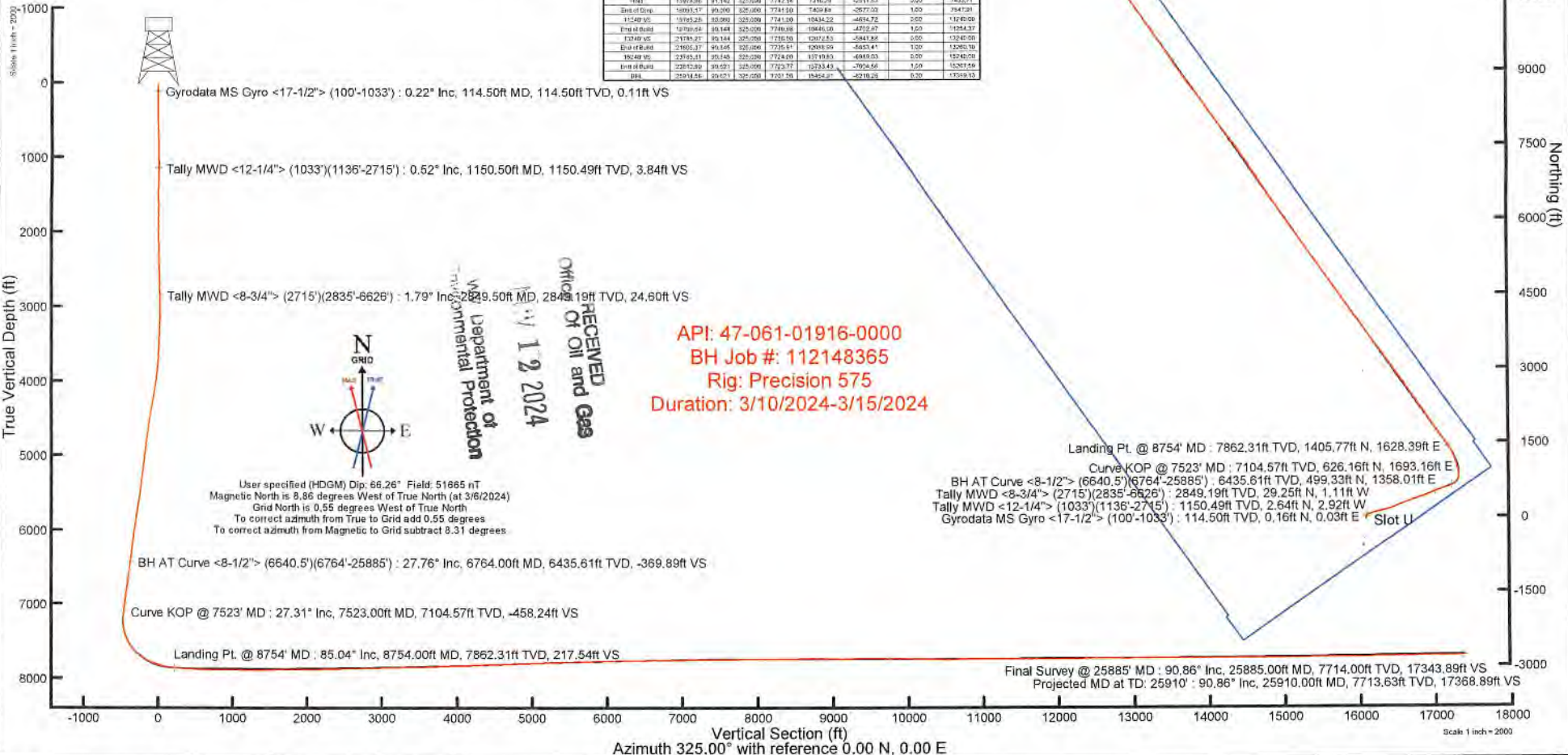
Easting (ft)

Plot reference wellbore is WDTN-18U-HSM PWB Rev-B.0	Grid System: NAD83 / Lambert West Virginia Zone, Northern Zone (LWD), US feet
True vertical depth (ft) referenced to Precision 575 (RKB)	North Reference: Grid North
Reference wellbore measured depths are referenced to Precision 575 (RKB)	Scale: True distance
Precision 575 (RKB) to Mean Sea Level: 1226.81 feet	Coordinates are in feet referenced to slot
Mean Sea Level to Mud line (At Slot: Slot U): -1198.81 feet	Depth: zero feet
Other wellbore MDs are referenced to exact pairs without MD datum	Checked by: vrbayala on 25/03/24 15:00:00. Database: WV_MPC_EASTERNUS Civil

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
WDTN-18 Pad	1758359.150	434429.260	39°41'22.5131"N	80°21'31.2000"W
Slot	Local N (ft)	Local E (ft)	Grid North (US ft)	Latitude
Slot U	551.89	81.78	1758420.930	434980.920
				39°41'27.9710"N
				80°21'30.4772"W
Precision 575 (RKB) to Mud line (At Slot: Slot U)	26 ft			
Mean Sea Level to Mud line (At Slot: Slot U)	-1198.81 ft			
Precision 575 (RKB) to Mean Sea Level	1226.81 ft			

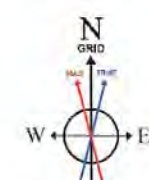
Well Data			
Slot	Well	Wellbore	Wellpath
Slot U	WDTN-18U-HSM	WDTN-18U-HSM AWB	WDTN-18U-HSM AWP Proj. 25910
Slot U	WDTN-18U-HSM	WDTN-18U-HSM PWB	WDTN-18U-HSM PWP Rev-B.0

Well Profile Data									
Design Comment	MD (ft)	Inc (°)	Age (ft)	TVD (ft)	Local N (ft)	Local E (ft)	CLS (ft/1000)	VS (ft)	VS (ft)
Top of Well	8640.92	29.940	87.140	8129.02	419.34	4391.86	0.00	0.00	-2585.55
End of Well	11025.00	29.910	87.140	8182.34	491.97	1344.06	0.00	0.00	-3012.91
Adj. Inc / Age	6747.30	28.198	69.880	6455.83	487.68	1352.70	3.00	3.00	-3012.91
Curve KOP	7523.29	27.195	61.934	7153.89	535.35	1116.93	0.00	0.00	-465.54
Landing Pt.	3184.87	89.508	129.000	2989.00	1624.91	1613.90	0.00	0.00	2411.11
End of Drop	3184.87	89.508	129.000	2989.00	1624.91	1613.90	0.00	0.00	1300.00
End of Build	3955.35	85.620	125.000	3875.80	1926.85	882.17	1.00	1.00	1542.72
End of Well	10783.72	85.620	125.000	3963.00	3041.89	467.40	0.00	0.00	2245.00
End of Build	10651.35	85.604	125.000	3882.16	3017.45	457.28	1.00	1.00	2251.75
End of Well	11163.40	85.604	125.000	3949.00	3041.89	-198.11	2.00	2.00	3365.00
End of Build	11163.40	81.331	125.000	3949.00	3024.29	-198.35	1.00	1.00	3362.77
End of Well	12784.09	81.331	125.000	3290.00	4170.16	-419.89	0.00	0.00	4245.00
End of Build	12653.83	82.223	125.000	3022.96	4151.25	-215.67	1.00	1.00	4209.79
End of Drop	13284.21	81.413	125.000	2739.16	5049.79	-238.56	1.00	1.00	5014.54
End of Well	14780.72	81.413	125.000	2789.00	6338.48	-1648.64	0.00	0.00	6340.00
End of Drop	14812.32	81.142	125.000	2788.48	6318.95	-1648.28	1.00	1.00	6301.00
End of Well	15165.22	81.142	125.000	2748.00	1151.81	-3400.42	0.00	0.00	7240.00
End of Drop	15079.26	81.142	125.000	2742.14	7216.29	-2511.53	0.00	0.00	7423.71
End of Well	16093.17	80.100	125.000	2784.00	1459.84	-3577.00	1.00	1.00	7941.00
End of Build	15193.28	85.990	125.000	2741.00	1043.02	-4614.72	2.00	2.00	11240.00
End of Well	15193.28	85.144	125.000	2740.88	1044.08	-4712.47	1.00	1.00	11234.37
End of Drop	15193.28	85.144	125.000	2736.00	1017.23	-2841.84	0.00	0.00	11240.00
End of Well	15602.37	85.144	125.000	2735.81	1004.99	-4631.47	1.00	1.00	12050.00
End of Drop	15602.37	85.144	125.000	2724.00	1011.83	-4643.03	0.00	0.00	12040.00
End of Well	15825.80	85.021	125.000	2723.77	1023.43	-7024.66	1.00	1.00	15267.56
End of Build	15825.80	84.671	125.000	2721.00	1044.21	-6219.28	0.00	0.00	15268.00



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API: 47-061-01916-0000  
 BH Job #: 112148365  
 Rig: Precision 575  
 Duration: 3/10/2024-3/15/2024



User specified (HDGM) Dip: 66.26° Field: 51665 nT  
 Magnetic North is 8.86 degrees West of True North (at 3/6/2024)  
 Grid North is 0.55 degrees West of True North  
 To correct azimuth from True to Grid add 0.55 degrees  
 To correct azimuth from Magnetic to Grid subtract 8.31 degrees



# Actual Wellpath Report

WDTN-18U-HSM AWP Proj: 25910'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18U-HSM
Field	Monongalia	API	47-061-01916-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18U-HSM AWB
Slot	Slot U		

REPORT SETUP INFORMATION			
Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999941	Report Generated	3/19/2024 at 12:01:48 PM
Convergence at slot	0.55° West	Database	WA_MPL_EASTERNU_S_Dofn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	551.69	61.78	1758420.93	434980.92	39°41'27.9710"N	80°21'30.4772"W
Facility Reference Pt			1758359.15	434429.26	39°41'22.5131"N	80°21'31.2000"W
Field Reference Pt			609601.22	0.00	38°23'48.7532"N	84°21'9.7646"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Precision 575 (RKB) to Facility Vertical Datum	1226.81ft
Horizontal Reference Pt	Slot	Precision 575 (RKB) to Mean Sea Level	1226.81ft
Vertical Reference Pt	Precision 575 (RKB)	Precision 575 (RKB) to Mud Line at Slot (Slot U)	28.00ft
MD Reference Pt	Precision 575 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	325.00°

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WDTN-18U-HSM AWP Proj: 25910'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18U-HSM
Field	Monongalia	API	47-061-01916-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18U-HSM AWB
Slot	Slot U		

WELLPATH DATA (290 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	11.970	0.00	0.00	0.00	0.00	1758420.93	434980.92	39°41'27.9710"N	80°21'30.4772"W	0.00	0.000	0.00	0.00	0.00	
28.00	0.000	11.970	28.00	0.00	0.00	0.00	1758420.93	434980.92	39°41'27.9710"N	80°21'30.4772"W	0.00	0.000	0.00	0.00	0.00	
114.50	0.220	11.970	114.50	0.11	0.16	0.03	1758420.96	434981.08	39°41'27.9727"N	80°21'30.4767"W	0.17	11.970	0.25	0.25	0.00	
164.50	0.210	284.900	164.50	0.25	0.28	-0.03	1758420.90	434981.20	39°41'27.9738"N	80°21'30.4776"W	0.28	353.035	0.59	-0.02	-174.14	
214.50	0.080	293.760	214.50	0.35	0.32	-0.15	1758420.78	434981.24	39°41'27.9742"N	80°21'30.4792"W	0.35	334.027	0.26	-0.26	17.72	
264.50	0.150	351.300	264.50	0.44	0.40	-0.20	1758420.73	434981.32	39°41'27.9749"N	80°21'30.4797"W	0.44	333.622	0.25	0.14	115.08	
314.50	0.250	24.230	314.50	0.55	0.56	-0.16	1758420.77	434981.48	39°41'27.9766"N	80°21'30.4793"W	0.58	343.909	0.30	0.20	65.86	
364.50	0.110	354.750	364.50	0.65	0.71	-0.12	1758420.81	434981.63	39°41'27.9780"N	80°21'30.4788"W	0.72	350.275	0.33	-0.28	-58.96	
414.50	0.100	304.490	414.50	0.73	0.78	-0.16	1758420.77	434981.70	39°41'27.9787"N	80°21'30.4793"W	0.80	348.295	0.18	-0.02	-100.52	
464.50	0.150	349.400	464.50	0.83	0.87	-0.21	1758420.72	434981.79	39°41'27.9796"N	80°21'30.4800"W	0.89	346.440	0.21	0.10	89.82	
514.50	0.160	21.080	514.50	0.93	1.00	-0.20	1758420.73	434981.92	39°41'27.9809"N	80°21'30.4798"W	1.02	348.865	0.17	0.02	63.36	
564.50	0.200	317.070	564.50	1.06	1.13	-0.23	1758420.70	434982.05	39°41'27.9822"N	80°21'30.4803"W	1.15	348.429	0.39	0.08	-128.02	
614.50	0.080	277.640	614.50	1.17	1.20	-0.32	1758420.61	434982.12	39°41'27.9828"N	80°21'30.4815"W	1.24	344.804	0.29	-0.24	-78.86	
664.50	0.320	229.420	664.50	1.18	1.11	-0.47	1758420.46	434982.03	39°41'27.9820"N	80°21'30.4833"W	1.20	337.247	0.55	0.48	-96.44	
714.50	0.300	261.010	714.50	1.22	1.00	-0.70	1758420.23	434981.92	39°41'27.9808"N	80°21'30.4863"W	1.22	324.942	0.34	-0.04	83.18	
764.50	0.310	303.480	764.50	1.40	1.05	-0.94	1758419.99	434981.97	39°41'27.9814"N	80°21'30.4894"W	1.41	318.154	0.44	0.02	84.94	
814.50	0.270	307.390	814.50	1.64	1.20	-1.15	1758419.78	434982.12	39°41'27.9828"N	80°21'30.4920"W	1.66	316.213	0.09	-0.08	7.82	
864.50	0.320	346.100	864.50	1.88	1.41	-1.28	1758419.65	434982.33	39°41'27.9848"N	80°21'30.4937"W	1.90	317.767	0.40	0.10	77.42	
914.50	0.360	337.860	914.49	2.17	1.69	-1.37	1758419.56	434982.61	39°41'27.9876"N	80°21'30.4949"W	2.17	320.939	0.13	0.08	-16.48	
964.50	0.390	327.800	964.49	2.49	1.98	-1.52	1758419.41	434982.90	39°41'27.9904"N	80°21'30.4968"W	2.49	322.457	0.14	0.06	-20.12	
1014.50	0.480	295.990	1014.49	2.84	2.21	-1.80	1758419.13	434983.13	39°41'27.9927"N	80°21'30.5004"W	2.85	320.899	0.51	0.18	-63.62	
1047.50	0.500	289.100	1047.49	3.08	2.32	-2.06	1758418.87	434983.24	39°41'27.9938"N	80°21'30.5038"W	3.10	318.421	0.19	0.06	-20.88	
1150.50	0.520	291.570	1150.49	3.84	2.64	-2.92	1758418.01	434983.56	39°41'27.9968"N	80°21'30.5148"W	3.93	312.129	0.03	0.02	2.40	
1238.50	0.450	286.610	1238.48	4.44	2.88	-3.62	1758417.31	434983.80	39°41'27.9992"N	80°21'30.5238"W	4.63	308.548	0.09	-0.08	-5.64	
1324.50	0.210	20.580	1324.48	4.79	3.13	-3.89	1758417.04	434984.05	39°41'28.0016"N	80°21'30.5273"W	4.99	308.821	0.59	-0.28	109.27	
1412.50	1.070	61.010	1412.48	4.80	3.68	-3.11	1758417.82	434984.60	39°41'28.0071"N	80°21'30.5174"W	4.82	319.755	1.05	0.98	45.94	
1500.50	0.960	49.680	1500.46	4.78	4.55	-1.83	1758419.10	434985.47	39°41'28.0159"N	80°21'30.5012"W	4.91	338.079	0.26	-0.13	-12.87	
1587.50	0.830	42.070	1587.45	4.99	5.49	-0.85	1758420.08	434986.41	39°41'28.0252"N	80°21'30.4888"W	5.56	351.157	0.20	-0.15	-8.75	
1675.50	0.820	29.040	1675.44	5.41	6.52	-0.12	1758420.81	434987.44	39°41'28.0354"N	80°21'30.4795"W	6.52	358.930	0.21	-0.01	-14.81	
1763.50	0.830	24.390	1763.43	6.01	7.65	0.45	1758421.38	434988.57	39°41'28.0467"N	80°21'30.4724"W	7.66	3.346	0.08	0.01	-5.28	

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# Actual Wellpath Report

WDTN-18U-HSM AWP Proj: 25910'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18U-HSM
Field	Monongalia	API	47-061-01916-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18U-HSM AWB
Slot	Slot U		

WELLPATH DATA (290 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]	
1850.50	0.980	27.160	1850.42	6.68	8.88	1.05	1758421.98	434989.80	39°41'28.0589"N	80°21'30.4649"W	8.94	6.722	0.18	0.17	3.18	
1937.50	0.940	26.750	1937.41	7.36	10.18	1.71	1758422.64	434991.10	39°41'28.0718"N	80°21'30.4566"W	10.32	9.521	0.05	-0.05	-0.47	
2025.50	1.070	14.930	2025.40	8.23	11.62	2.24	1758423.17	434992.54	39°41'28.0861"N	80°21'30.4499"W	11.84	10.931	0.28	0.15	-13.43	
2113.50	1.070	7.140	2113.38	9.37	13.23	2.56	1758423.49	434994.15	39°41'28.1020"N	80°21'30.4461"W	13.48	10.944	0.17	0.00	-8.85	
2201.50	1.010	1.430	2201.37	10.60	14.82	2.68	1758423.81	434995.74	39°41'28.1178"N	80°21'30.4447"W	15.06	10.249	0.14	-0.07	-6.49	
2289.50	1.180	356.540	2289.35	12.00	16.50	2.64	1758423.57	434997.42	39°41'28.1344"N	80°21'30.4454"W	16.71	9.105	0.22	0.19	-5.56	
2377.50	1.160	348.400	2377.33	13.59	18.28	2.41	1758423.34	434999.20	39°41'28.1519"N	80°21'30.4486"W	18.44	7.513	0.19	-0.02	-9.25	
2465.50	1.130	351.310	2465.32	15.18	20.01	2.10	1758423.03	435000.93	39°41'28.1690"N	80°21'30.4527"W	20.12	5.993	0.07	-0.03	3.31	
2553.50	1.360	347.780	2553.29	16.93	21.89	1.75	1758422.68	435002.80	39°41'28.1875"N	80°21'30.4575"W	21.96	4.567	0.28	0.26	-4.01	
2641.50	1.400	336.270	2641.27	18.94	23.89	1.09	1758422.02	435004.81	39°41'28.2073"N	80°21'30.4661"W	23.92	2.623	0.32	0.05	-13.08	
2729.50	1.570	337.260	2729.24	21.17	25.99	0.20	1758421.13	435006.91	39°41'28.2279"N	80°21'30.4778"W	25.99	0.432	0.20	0.19	1.13	
2849.50	1.790	338.990	2849.19	24.60	29.25	-1.11	1758419.82	435010.17	39°41'28.2600"N	80°21'30.4950"W	29.27	357.824	0.19	0.18	1.44	
2938.50	1.640	1.950	2938.15	26.97	31.82	-1.57	1758419.36	435012.74	39°41'28.2854"N	80°21'30.5011"W	31.86	357.182	0.78	-0.17	25.80	
3015.50	2.500	55.220	3015.10	27.84	33.88	-0.15	1758420.78	435014.80	39°41'28.3059"N	80°21'30.4832"W	33.88	359.747	2.61	1.12	69.18	
3101.50	4.510	80.940	3100.94	26.35	35.49	4.73	1758425.66	435016.40	39°41'28.3222"N	80°21'30.4210"W	35.80	7.594	2.91	2.34	29.91	
3190.50	5.940	74.680	3189.57	23.27	37.25	12.63	1758433.56	435018.17	39°41'28.3404"N	80°21'30.3202"W	39.34	18.726	1.73	1.61	-7.03	
3276.50	5.820	74.280	3275.12	20.33	39.61	21.12	1758442.05	435020.53	39°41'28.3645"N	80°21'30.2119"W	44.89	28.064	0.15	-0.14	-0.47	
3363.50	6.040	70.940	3361.66	17.62	42.30	29.69	1758450.62	435023.22	39°41'28.3919"N	80°21'30.1026"W	51.68	35.065	0.47	0.25	-3.84	
3452.50	7.750	68.600	3450.01	14.92	46.02	39.70	1758460.63	435026.94	39°41'28.4296"N	80°21'29.9749"W	60.78	40.786	1.95	1.92	-2.63	
3540.50	9.370	68.710	3537.03	11.83	50.79	51.90	1758472.83	435031.70	39°41'28.4778"N	80°21'29.8195"W	72.62	45.624	1.84	1.84	0.13	
3628.50	11.350	69.270	3621.82	8.08	56.32	66.34	1758487.27	435037.24	39°41'28.5339"N	80°21'29.6354"W	87.03	49.670	2.31	2.30	0.65	
3714.50	13.970	70.800	3707.47	3.06	62.88	84.48	1758505.40	435043.80	39°41'28.6005"N	80°21'29.4043"W	105.31	53.336	3.00	2.98	1.74	
3802.50	15.890	70.060	3792.50	-2.97	70.48	105.83	1758526.76	435051.40	39°41'28.6776"N	80°21'29.1320"W	127.16	56.336	2.19	2.18	-0.84	
3888.50	17.790	71.480	3874.81	-9.75	78.67	129.36	1758550.28	435059.59	39°41'28.7608"N	80°21'28.8321"W	151.41	58.693	2.26	2.21	1.65	
3975.50	18.930	77.500	3957.38	-18.92	85.95	155.74	1758576.66	435066.87	39°41'28.8352"N	80°21'28.4955"W	177.89	61.107	2.54	1.31	6.92	
4064.50	20.570	79.480	4041.15	-30.93	91.93	185.21	1758606.13	435072.84	39°41'28.8970"N	80°21'28.1193"W	206.77	63.602	1.99	1.84	2.22	
4152.50	22.660	78.200	4122.95	-44.01	98.22	217.01	1758637.93	435079.13	39°41'28.9622"N	80°21'27.7133"W	238.20	65.648	2.43	2.37	-1.45	
4240.50	24.550	76.550	4203.59	-57.41	105.94	251.39	1758672.30	435086.85	39°41'29.0417"N	80°21'27.2746"W	272.80	67.148	2.27	2.15	-1.88	
4329.50	26.160	76.950	4284.01	-71.53	114.67	288.48	1758709.40	435095.58	39°41'29.1315"N	80°21'26.8011"W	310.44	68.322	1.82	1.81	0.45	
4417.50	26.560	77.360	4362.86	-86.27	123.36	326.58	1758747.49	435104.27	39°41'29.2209"N	80°21'26.3149"W	349.10	69.307	0.50	0.45	0.47	

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# Actual Wellpath Report

WDTN-18U-HSM AWP Proj: 25910'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18U-HSM
Field	Monongalia	API	47-061-01916-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18U-HSM AWB
Slot	Slot U		

WELLPATH DATA (290 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]
4505.50	26.640	74.660	4441.55	-100.39	132.88	364.80	1758785.71	435113.79	39°41'29.3187"N	80°21'25.8271"W	388.25	69.988	1.38	0.09	-3.07
4591.50	27.490	72.820	4518.13	-112.95	143.84	402.36	1758823.27	435124.76	39°41'29.4306"N	80°21'25.3480"W	427.30	70.328	1.39	0.99	-2.14
4679.50	27.390	71.620	4596.23	-124.96	156.23	440.97	1758861.88	435137.14	39°41'29.5566"N	80°21'24.8556"W	467.83	70.492	0.64	-0.11	-1.36
4768.50	27.110	71.870	4675.38	-136.70	168.99	479.67	1758900.57	435149.90	39°41'29.6864"N	80°21'24.3622"W	508.57	70.592	0.34	-0.31	0.28
4856.50	27.330	69.210	4753.61	-147.48	182.40	517.62	1758938.51	435163.31	39°41'29.8225"N	80°21'23.8785"W	548.81	70.588	1.40	0.25	-3.02
4944.50	28.810	68.490	4831.26	-157.38	197.35	556.23	1758977.13	435178.26	39°41'29.9738"N	80°21'23.3863"W	590.20	70.466	1.73	1.68	-0.82
5032.50	29.130	67.230	4908.25	-166.87	213.41	595.71	1759016.60	435194.32	39°41'30.1363"N	80°21'22.8833"W	632.78	70.290	0.78	0.36	-1.43
5109.50	27.310	65.630	4976.10	-174.10	227.96	629.08	1759049.97	435208.86	39°41'30.2832"N	80°21'22.4582"W	669.11	70.081	2.56	-2.36	-2.08
5196.50	25.940	68.830	5053.87	-182.33	243.06	665.01	1759085.90	435223.97	39°41'30.4359"N	80°21'22.0005"W	708.04	69.922	2.28	-1.57	3.68
5283.50	26.530	72.240	5131.91	-192.63	255.86	701.26	1759122.15	435236.77	39°41'30.5658"N	80°21'21.5383"W	746.48	69.955	1.86	0.68	3.92
5369.50	27.540	71.800	5208.52	-204.07	267.93	738.44	1759159.32	435248.84	39°41'30.6885"N	80°21'21.0642"W	785.55	70.057	1.20	1.17	-0.51
5455.50	26.290	69.340	5285.20	-214.54	280.86	775.15	1759196.03	435261.77	39°41'30.8198"N	80°21'20.5962"W	824.46	70.083	1.95	-1.45	-2.86
5543.50	24.920	68.200	5364.56	-223.60	294.62	810.60	1759231.48	435275.53	39°41'30.9591"N	80°21'20.1444"W	862.48	70.026	1.65	-1.56	-1.30
5631.50	26.570	68.400	5443.82	-232.39	308.76	846.12	1759266.99	435289.66	39°41'31.1021"N	80°21'19.6919"W	900.69	69.952	1.88	1.87	0.23
5719.50	27.920	69.380	5522.06	-242.07	323.26	883.70	1759304.58	435304.16	39°41'31.2490"N	80°21'19.2129"W	940.97	69.907	1.62	1.53	1.11
5807.50	28.430	70.540	5599.63	-252.80	337.49	922.73	1759343.61	435318.39	39°41'31.3933"N	80°21'18.7153"W	982.52	69.910	0.85	0.58	1.32
5896.50	29.080	71.790	5677.65	-264.73	351.31	963.25	1759384.13	435332.21	39°41'31.5337"N	80°21'18.1987"W	1025.32	69.963	0.99	0.73	1.40
5983.50	30.190	72.240	5753.27	-277.32	364.59	1004.17	1759425.04	435345.49	39°41'31.6688"N	80°21'17.6769"W	1068.31	70.045	1.30	1.28	0.52
6071.50	29.600	71.120	5829.56	-289.91	378.37	1045.81	1759466.67	435359.27	39°41'31.8089"N	80°21'17.1460"W	1112.15	70.110	0.92	-0.67	-1.27
6158.50	30.350	70.420	5904.93	-301.72	392.69	1086.85	1759507.71	435373.59	39°41'31.9542"N	80°21'16.6228"W	1155.61	70.135	0.96	0.86	-0.80
6246.50	30.260	70.910	5980.90	-313.71	407.39	1128.75	1759549.61	435388.29	39°41'32.1035"N	80°21'16.0886"W	1200.02	70.154	0.30	-0.10	0.56
6335.50	28.650	67.530	6058.40	-324.49	422.88	1169.66	1759590.52	435403.78	39°41'32.2604"N	80°21'15.5672"W	1243.76	70.123	2.60	-1.81	-3.80
6422.50	28.410	67.140	6134.84	-333.36	438.89	1208.01	1759628.86	435419.79	39°41'32.4222"N	80°21'15.0786"W	1285.26	70.033	0.35	-0.28	-0.45
6509.50	28.360	67.970	6211.38	-342.35	454.68	1246.23	1759667.08	435435.58	39°41'32.5819"N	80°21'14.5916"W	1326.59	69.956	0.46	-0.06	0.95
6596.50	28.430	67.680	6287.91	-351.54	470.30	1284.54	1759705.39	435451.19	39°41'32.7398"N	80°21'14.1034"W	1367.93	69.891	0.18	0.08	-0.33
6640.50	28.360	67.140	6326.62	-356.03	478.34	1303.86	1759724.71	435459.23	39°41'32.8211"N	80°21'13.8573"W	1388.83	69.854	0.60	-0.16	-1.23
6764.00	27.760	70.510	6435.61	-369.89	499.33	1358.01	1759778.85	435480.22	39°41'33.0336"N	80°21'13.1672"W	1446.90	69.812	1.37	-0.49	2.73
6859.00	27.070	70.340	6519.94	-381.53	513.98	1399.22	1759820.06	435494.87	39°41'33.1823"N	80°21'12.6418"W	1490.64	69.830	0.73	-0.73	-0.18
6954.00	26.760	70.200	6604.65	-392.85	528.50	1439.70	1759860.54	435509.39	39°41'33.3296"N	80°21'12.1258"W	1533.64	69.842	0.33	-0.33	-0.15
7049.00	29.360	70.450	6688.47	-404.67	543.54	1481.77	1759902.61	435524.43	39°41'33.4821"N	80°21'11.5894"W	1578.32	69.856	2.74	2.74	0.26

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# Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18U-HSM
Field	Monongalia	API	47-061-01916-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18U-HSM AWB
Slot	Slot U		

WELLPATH DATA (290 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]
7143.00	29.390	68.730	6770.39	-416.28	559.62	1524.99	1759945.82	435540.51	39°41'33.6451"N	80°21'11.0386"W	1624.42	69.848	0.90	0.03	-1.83
7238.00	28.970	68.110	6853.33	-427.03	576.65	1568.06	1759988.89	435557.54	39°41'33.8175"N	80°21'10.4898"W	1670.73	69.809	0.54	-0.44	-0.65
7333.00	28.030	68.510	6936.82	-437.47	593.41	1610.18	1760031.01	435574.29	39°41'33.9870"N	80°21'9.9530"W	1716.04	69.769	1.01	-0.99	0.42
7428.00	28.340	68.530	7020.55	-447.96	609.84	1651.93	1760072.76	435590.72	39°41'34.1533"N	80°21'9.4209"W	1760.90	69.737	0.33	0.33	0.02
7523.00	27.310	68.280	7104.57	-458.24	626.16	1693.16	1760113.99	435607.04	39°41'34.3184"N	80°21'8.8955"W	1805.23	69.705	1.09	-1.08	-0.26
7617.00	28.070	61.470	7187.82	-465.69	644.71	1732.63	1760153.46	435625.59	39°41'34.5055"N	80°21'8.3928"W	1848.69	69.590	3.46	0.81	-7.24
7712.00	27.710	46.660	7271.89	-465.00	670.57	1768.38	1760189.20	435651.45	39°41'34.7644"N	80°21'7.9387"W	1891.25	69.233	7.29	-0.38	-15.59
7807.00	29.410	39.060	7355.36	-455.39	703.86	1799.15	1760219.97	435684.73	39°41'35.0962"N	80°21'7.5491"W	1931.93	68.634	4.22	1.79	-8.00
7901.00	32.590	19.130	7436.13	-434.15	745.82	1822.06	1760242.88	435726.69	39°41'35.5131"N	80°21'7.2612"W	1968.79	67.739	11.38	3.38	-21.20
7996.00	36.690	1.560	7514.47	-396.25	798.51	1831.24	1760252.06	435779.39	39°41'36.0347"N	80°21'7.1501"W	1997.77	66.440	11.32	4.32	-18.49
8091.00	42.900	352.690	7587.49	-344.73	859.06	1827.90	1760248.71	435839.93	39°41'36.6328"N	80°21'7.2003"W	2019.70	64.828	8.84	6.54	-9.34
8186.00	48.740	349.360	7653.68	-283.51	926.30	1817.18	1760238.00	435907.16	39°41'37.2962"N	80°21'7.3455"W	2039.65	62.990	6.64	6.15	-3.51
8281.00	55.130	345.270	7712.24	-214.34	999.17	1800.65	1760221.47	435980.03	39°41'38.0149"N	80°21'7.5657"W	2059.30	60.974	7.53	6.73	-4.31
8375.00	62.770	341.510	7760.70	-137.96	1076.24	1777.56	1760198.38	436057.09	39°41'38.7743"N	80°21'7.8706"W	2077.98	58.807	8.82	8.13	-4.00
8470.00	69.720	340.100	7798.94	-64.34	1158.29	1748.96	1760169.78	436139.14	39°41'39.5825"N	80°21'8.2463"W	2097.74	56.484	7.44	7.32	-1.48
8565.00	72.950	335.240	7829.36	33.43	1241.49	1714.75	1760135.57	436222.34	39°41'40.4015"N	80°21'8.6941"W	2116.99	54.095	5.92	3.40	-5.12
8660.00	80.920	333.160	7850.82	124.71	1324.72	1674.48	1760095.31	436305.56	39°41'41.2203"N	80°21'9.2193"W	2135.13	51.652	8.66	8.39	-2.19
8754.00	85.040	327.610	7862.31	217.54	1405.77	1628.39	1760049.22	436386.61	39°41'42.0170"N	80°21'9.8187"W	2151.24	49.196	7.32	4.38	-5.90
8849.00	84.820	324.860	7870.71	312.13	1484.43	1575.80	1759996.63	436465.26	39°41'42.7894"N	80°21'10.5010"W	2164.87	46.710	2.89	-0.23	-2.89
8944.00	87.470	324.980	7877.10	406.91	1561.99	1521.33	1759942.17	436542.82	39°41'43.5508"N	80°21'11.2072"W	2180.43	44.244	2.79	2.79	0.13
9039.00	87.200	325.860	7881.51	501.80	1640.12	1467.47	1759888.31	436620.94	39°41'44.3178"N	80°21'11.9056"W	2200.79	41.820	0.97	-0.28	0.93
9134.00	87.570	326.160	7885.85	596.69	1718.81	1414.42	1759835.26	436699.62	39°41'45.0905"N	80°21'12.5939"W	2225.95	39.451	0.50	0.39	0.32
9228.00	89.510	325.920	7888.24	690.64	1796.74	1361.93	1759782.77	436777.56	39°41'45.8558"N	80°21'13.2748"W	2254.58	37.162	2.08	2.06	-0.26
9323.00	89.820	326.220	7888.80	785.62	1875.57	1308.90	1759729.75	436856.37	39°41'46.6298"N	80°21'13.9627"W	2287.13	34.910	0.45	0.33	0.32
9418.00	89.630	324.410	7889.26	880.61	1953.68	1254.84	1759675.70	436934.48	39°41'47.3966"N	80°21'14.6637"W	2321.96	32.712	1.92	-0.20	-1.91
9513.00	90.400	324.680	7889.23	975.61	2031.06	1199.74	1759620.59	437011.86	39°41'48.1562"N	80°21'15.3781"W	2358.94	30.570	0.86	0.81	0.28
9608.00	89.200	326.190	7889.56	1070.60	2109.29	1145.84	1759566.70	437090.08	39°41'48.9242"N	80°21'16.0770"W	2400.43	28.512	2.03	-1.26	1.59
9702.00	89.690	324.510	7890.47	1164.59	2186.81	1092.40	1759513.27	437167.40	39°41'49.6833"N	80°21'16.7701"W	2444.30	26.546	1.86	0.52	-1.79
9797.00	90.920	327.840	7889.97	1259.56	2265.52	1039.53	1759460.39	437246.30	39°41'50.4582"N	80°21'17.4560"W	2492.63	24.648	3.74	1.29	3.51
9892.00	90.090	324.770	7889.13	1354.52	2344.55	986.83	1759407.70	437325.32	39°41'51.2342"N	80°21'18.1398"W	2543.76	22.827	3.35	-0.87	-3.23

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# Actual Wellpath Report

WDTN-18U-HSM AWP Proj: 25910'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18U-HSM
Field	Monongalia	API	47-061-01916-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18U-HSM AWB
Slot	Slot U		

WELLPATH DATA (290 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]
9987.00	90.650	324.820	7888.52	1449.51	2422.17	932.07	1759352.94	437402.94	39°41'51.9962"N	80°21'18.8498"W	2595.31	21.047	0.59	0.59	0.05
10082.00	90.740	325.410	7887.36	1544.50	2500.09	877.74	1759298.61	437480.86	39°41'52.7611"N	80°21'19.5543"W	2649.69	19.345	0.63	0.09	0.62
10177.00	90.250	325.870	7886.54	1639.49	2578.51	824.12	1759245.00	437559.27	39°41'53.5311"N	80°21'20.2497"W	2707.01	17.725	0.71	-0.52	0.48
10271.00	90.090	325.430	7886.26	1733.49	2656.12	771.08	1759191.97	437636.88	39°41'54.2930"N	80°21'20.9377"W	2765.78	16.188	0.50	-0.17	-0.47
10366.00	90.340	324.150	7885.91	1828.48	2733.73	716.31	1759137.20	437714.49	39°41'55.0549"N	80°21'21.6478"W	2826.02	14.683	1.37	0.26	-1.35
10461.00	92.000	324.910	7883.97	1923.46	2811.08	661.20	1759082.09	437791.83	39°41'55.8141"N	80°21'22.3623"W	2887.80	13.236	1.92	1.75	0.80
10556.00	91.110	324.910	7881.39	2018.42	2888.79	606.61	1759027.50	437869.53	39°41'56.5769"N	80°21'23.0702"W	2951.79	11.859	0.94	-0.94	0.00
10650.00	89.850	324.390	7880.60	2112.41	2965.45	552.22	1758973.12	437946.19	39°41'57.3294"N	80°21'23.7752"W	3016.43	10.549	1.45	-1.34	-0.55
10745.00	90.280	323.670	7880.49	2207.40	3042.34	496.43	1758917.33	438023.07	39°41'58.0840"N	80°21'24.4984"W	3082.57	9.267	0.88	0.45	-0.76
10840.00	90.920	323.930	7879.50	2302.37	3118.99	440.32	1758861.22	438099.73	39°41'58.8363"N	80°21'25.2255"W	3149.92	8.038	0.73	0.67	0.27
10935.00	92.770	325.770	7876.44	2397.32	3196.62	385.66	1758806.57	438177.35	39°41'59.5983"N	80°21'25.9342"W	3219.80	6.879	2.75	1.95	1.94
11030.00	92.090	324.270	7872.41	2492.23	3274.39	331.25	1758752.16	438255.11	39°42'0.3617"N	80°21'26.6398"W	3291.10	5.777	1.73	-0.72	-1.58
11125.00	91.260	324.540	7869.64	2587.18	3351.61	275.98	1758696.89	438332.32	39°42'1.1196"N	80°21'27.3563"W	3362.95	4.707	0.92	-0.87	0.28
11219.00	90.860	322.530	7867.90	2681.13	3427.18	220.12	1758641.04	438407.90	39°42'1.8612"N	80°21'28.0801"W	3434.25	3.675	2.18	-0.43	-2.14
11314.00	91.320	323.940	7866.09	2776.06	3503.27	163.27	1758584.19	438483.98	39°42'2.6078"N	80°21'28.8167"W	3507.08	2.668	1.56	0.48	1.48
11409.00	91.600	323.850	7863.67	2871.01	3580.00	107.31	1758528.24	438560.71	39°42'3.3608"N	80°21'29.5420"W	3581.61	1.717	0.31	0.29	-0.09
11503.00	91.450	323.870	7861.17	2964.96	3655.89	51.89	1758472.82	438636.59	39°42'4.1055"N	80°21'30.2602"W	3656.26	0.813	0.16	-0.16	0.02
11598.00	91.880	326.300	7858.41	3059.92	3733.75	-2.45	1758418.48	438714.44	39°42'4.8698"N	80°21'30.9650"W	3733.75	359.962	2.60	0.45	2.56
11693.00	90.580	323.350	7856.37	3154.88	3811.37	-57.16	1758363.77	438792.06	39°42'5.6318"N	80°21'31.6744"W	3811.80	359.141	3.39	-1.37	-3.11
11788.00	91.820	324.040	7854.38	3249.83	3887.91	-113.39	1758307.54	438868.60	39°42'6.3829"N	80°21'32.4032"W	3889.57	358.329	1.49	1.31	0.73
11882.00	91.350	326.080	7851.78	3343.79	3964.94	-167.21	1758253.73	438945.62	39°42'7.1390"N	80°21'33.1010"W	3968.46	357.585	2.23	-0.50	2.17
11977.00	90.950	325.430	7849.87	3438.76	4043.45	-220.66	1758200.29	439024.12	39°42'7.9099"N	80°21'33.7944"W	4049.47	356.876	0.80	-0.42	-0.68
12071.00	91.110	324.750	7848.18	3532.75	4120.52	-274.44	1758146.51	439101.19	39°42'8.6664"N	80°21'34.4919"W	4129.65	356.190	0.74	0.17	-0.72
12165.00	92.180	324.660	7845.48	3626.71	4197.21	-328.73	1758092.22	439177.88	39°42'9.4192"N	80°21'35.1959"W	4210.06	355.522	1.14	1.14	-0.10
12260.00	92.280	325.180	7841.79	3721.63	4274.89	-383.29	1758037.67	439255.56	39°42'10.1818"N	80°21'35.9033"W	4292.04	354.877	0.56	0.11	0.55
12355.00	92.310	325.300	7837.98	3816.56	4352.88	-437.41	1757983.55	439333.54	39°42'10.9473"N	80°21'36.6053"W	4374.80	354.262	0.13	0.03	0.13
12449.00	92.180	325.360	7834.30	3910.48	4430.13	-490.84	1757930.12	439410.78	39°42'11.7057"N	80°21'37.2983"W	4457.24	353.678	0.15	-0.14	0.06
12544.00	92.340	325.420	7830.55	4005.41	4508.26	-544.75	1757876.21	439488.90	39°42'12.4727"N	80°21'37.9977"W	4541.05	353.110	0.18	0.17	0.06
12638.00	89.820	324.790	7828.78	4099.38	4585.34	-598.52	1757822.45	439565.98	39°42'13.2293"N	80°21'38.6949"W	4624.23	352.563	2.76	-2.68	-0.67
12733.00	93.020	325.310	7826.43	4194.34	4663.17	-652.91	1757768.06	439643.81	39°42'13.9934"N	80°21'39.4004"W	4708.66	352.030	3.41	3.37	0.55

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# Actual Wellpath Report

WDTN-18U-HSM AWP Proj: 25910'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18U-HSM
Field	Monongalia	API	47-061-01916-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18U-HSM AWB
Slot	Slot U		

WELLPATH DATA (290 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)
12827.00	92.150	325.600	7822.19	4288.24	4740.51	-706.16	1757714.81	439721.15	39°42'14.7527"N	80°21'40.0911"W	4792.82	351.527	0.98	-0.93	0.31
12922.00	91.420	324.350	7819.23	4383.19	4818.27	-760.66	1757660.32	439798.90	39°42'15.5160"N	80°21'40.7979"W	4877.94	351.029	1.52	-0.77	-1.32
13016.00	91.420	325.060	7816.90	4477.16	4894.97	-814.95	1757606.03	439875.59	39°42'16.2688"N	80°21'41.5019"W	4962.34	350.548	0.76	0.00	0.76
13110.00	92.120	325.650	7814.00	4571.11	4972.26	-868.36	1757562.62	439952.88	39°42'17.0276"N	80°21'42.1947"W	5047.52	350.094	0.97	0.74	0.63
13205.00	92.250	325.090	7810.37	4666.04	5050.38	-922.31	1757498.67	440030.99	39°42'17.7944"N	80°21'42.8945"W	5133.90	349.651	0.60	0.14	-0.59
13300.00	91.880	324.340	7806.95	4760.98	5127.87	-977.15	1757443.84	440108.48	39°42'18.5551"N	80°21'43.6056"W	5220.14	349.211	0.88	-0.39	-0.79
13394.00	91.720	324.610	7804.00	4854.93	5204.34	-1031.74	1757389.25	440184.94	39°42'19.3056"N	80°21'44.3135"W	5305.62	348.787	0.33	-0.17	0.29
13489.00	92.340	325.340	7800.63	4949.87	5282.08	-1086.23	1757334.76	440262.68	39°42'20.0687"N	80°21'45.0201"W	5392.62	348.379	1.01	0.65	0.77
13583.00	92.000	324.720	7797.07	5043.80	5359.06	-1140.07	1757280.93	440339.65	39°42'20.8243"N	80°21'45.7184"W	5478.98	347.990	0.75	-0.36	-0.66
13678.00	90.950	323.230	7794.63	5138.75	5435.86	-1195.92	1757225.08	440416.45	39°42'21.5780"N	80°21'46.4424"W	5565.86	347.592	1.92	-1.11	-1.57
13773.00	92.060	325.130	7792.13	5233.70	5512.86	-1251.50	1757169.51	440493.45	39°42'22.3337"N	80°21'47.1629"W	5653.13	347.210	2.32	1.17	2.00
13868.00	92.220	325.730	7788.59	5328.63	5591.03	-1305.36	1757115.65	440571.61	39°42'23.1011"N	80°21'47.8617"W	5741.39	346.858	0.65	0.17	0.63
13962.00	91.510	323.950	7785.53	5422.58	5667.84	-1359.46	1757061.55	440648.41	39°42'23.8550"N	80°21'48.5633"W	5828.59	346.512	2.04	-0.76	-1.89
14057.00	92.090	325.800	7782.54	5517.52	5745.49	-1414.09	1757006.92	440726.07	39°42'24.6173"N	80°21'49.2718"W	5916.96	346.173	2.04	0.61	1.95
14152.00	91.540	323.610	7779.53	5612.47	5822.99	-1468.95	1756952.07	440803.55	39°42'25.3779"N	80°21'49.9832"W	6005.41	345.842	2.38	-0.58	-2.31
14247.00	91.780	324.760	7776.78	5707.42	5899.99	-1524.52	1756896.50	440880.55	39°42'26.1336"N	80°21'50.7036"W	6093.77	345.512	1.24	0.25	1.21
14342.00	91.780	325.160	7773.83	5802.37	5977.73	-1579.04	1756841.99	440958.29	39°42'26.8967"N	80°21'51.4107"W	6182.77	345.203	0.42	0.00	0.42
14437.00	91.540	325.330	7771.08	5897.33	6055.75	-1633.17	1756787.86	441036.31	39°42'27.6626"N	80°21'52.1129"W	6272.11	344.907	0.31	-0.25	0.18
14532.00	91.380	325.220	7768.66	5992.30	6133.81	-1687.27	1756733.76	441114.36	39°42'28.4288"N	80°21'52.8146"W	6361.64	344.620	0.20	-0.17	-0.12
14627.00	90.430	326.490	7767.16	6087.27	6212.42	-1740.58	1756680.45	441192.96	39°42'29.2007"N	80°21'53.5064"W	6451.65	344.348	1.67	-1.00	1.34
14721.00	90.650	326.330	7766.27	6181.24	6290.72	-1792.59	1756628.45	441271.26	39°42'29.9695"N	80°21'54.1814"W	6541.14	344.095	0.29	0.23	-0.17
14816.00	90.620	325.010	7765.22	6276.23	6369.16	-1846.16	1756574.88	441349.70	39°42'30.7396"N	80°21'54.8765"W	6631.33	343.835	1.39	-0.03	-1.39
14911.00	90.400	324.510	7764.37	6371.22	6446.75	-1900.97	1756520.07	441427.28	39°42'31.5012"N	80°21'55.5874"W	6721.18	343.571	0.57	-0.23	-0.53
15005.00	91.110	325.960	7763.13	6465.21	6523.96	-1954.56	1756466.48	441504.49	39°42'32.2591"N	80°21'56.2826"W	6810.46	343.322	1.72	0.76	1.54
15100.00	91.510	326.820	7760.96	6560.16	6603.06	-2007.14	1756413.92	441583.58	39°42'33.0358"N	80°21'56.9650"W	6901.38	343.092	1.00	0.42	0.91
15195.00	91.540	326.720	7758.43	6655.08	6682.50	-2059.18	1756361.88	441663.01	39°42'33.8159"N	80°21'57.6406"W	6992.57	342.874	0.11	0.03	-0.11
15290.00	90.460	325.720	7756.77	6750.04	6761.44	-2111.99	1756309.07	441741.95	39°42'34.5911"N	80°21'58.3261"W	7083.62	342.653	1.55	-1.14	-1.05
15385.00	90.280	324.530	7756.16	6845.03	6839.38	-2166.31	1756254.76	441819.88	39°42'35.3561"N	80°21'59.0307"W	7174.26	342.425	1.27	-0.19	-1.25
15479.00	90.710	326.350	7755.35	6939.02	6916.79	-2219.63	1756201.44	441897.29	39°42'36.1160"N	80°21'59.7224"W	7264.20	342.208	1.99	0.46	1.94
15573.00	90.800	326.230	7754.11	7032.99	6994.97	-2271.79	1756149.28	441975.47	39°42'36.8837"N	80°22'0.3995"W	7354.64	342.008	0.76	0.10	-0.13

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# Actual Wellpath Report

WDTN-18U-HSM AWP Proj: 25910'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18U-HSM
Field	Monongalia	API	47-061-01916-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18U-HSM AWB
Slot	Slot U		

WELLPATH DATA (290 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]
15668.00	90.150	325.820	7753.32	7127.97	7073.75	-2324.88	1756096.19	442054.24	39°42'37.6571"N	80°22'1.0885"W	7446.01	341.806	0.81	-0.68	-0.43
15763.00	90.920	325.990	7752.44	7222.96	7152.42	-2378.13	1756042.95	442132.90	39°42'38.4295"N	80°22'1.7795"W	7537.41	341.608	0.83	0.81	0.18
15858.00	90.550	326.190	7751.22	7317.93	7231.25	-2431.12	1755989.95	442211.73	39°42'39.2035"N	80°22'2.4673"W	7628.98	341.418	0.44	-0.39	0.21
15952.00	90.250	325.790	7750.56	7411.91	7309.17	-2483.70	1755937.38	442289.65	39°42'39.9685"N	80°22'3.1497"W	7719.63	341.232	0.53	-0.32	-0.43
16047.00	90.490	323.930	7749.95	7506.91	7386.85	-2538.38	1755882.71	442367.32	39°42'40.7310"N	80°22'3.8588"W	7810.82	341.036	1.97	0.25	-1.96
16142.00	90.800	323.520	7748.88	7601.88	7463.43	-2594.58	1755826.51	442443.90	39°42'41.4825"N	80°22'4.5874"W	7901.56	340.831	0.54	0.33	-0.43
16236.00	90.800	323.960	7747.57	7695.85	7539.22	-2650.17	1755770.92	442519.69	39°42'42.2261"N	80°22'5.3081"W	7991.45	340.633	0.47	0.00	0.47
16331.00	89.940	323.080	7746.95	7790.81	7615.61	-2706.65	1755714.44	442596.06	39°42'42.9756"N	80°22'6.0402"W	8082.29	340.434	1.30	-0.91	-0.93
16426.00	90.460	323.370	7746.62	7885.76	7691.70	-2763.52	1755657.57	442672.15	39°42'43.7222"N	80°22'6.7773"W	8173.08	340.237	0.63	0.55	0.31
16520.00	89.970	323.420	7746.27	7979.73	7767.16	-2819.57	1755601.53	442747.61	39°42'44.4625"N	80°22'7.5038"W	8263.10	340.048	0.52	-0.52	0.05
16615.00	89.940	322.360	7746.34	8074.66	7842.92	-2876.89	1755544.21	442823.36	39°42'45.2058"N	80°22'8.2466"W	8353.91	339.856	1.12	-0.03	-1.12
16710.00	91.540	325.490	7745.12	8169.62	7919.68	-2932.82	1755488.29	442900.12	39°42'45.9590"N	80°22'8.9717"W	8445.28	339.679	3.70	1.68	3.29
16805.00	90.490	324.670	7743.43	8264.60	7997.56	-2987.19	1755433.92	442978.00	39°42'46.7235"N	80°22'9.6770"W	8537.23	339.519	1.40	-1.11	-0.86
16899.00	91.110	325.130	7742.12	8358.59	8074.46	-3041.23	1755379.88	443054.89	39°42'47.4783"N	80°22'10.3781"W	8628.21	339.361	0.82	0.66	0.49
16994.00	90.400	324.040	7740.87	8453.58	8151.88	-3096.28	1755324.84	443132.30	39°42'48.2381"N	80°22'11.0920"W	8720.09	339.202	1.37	-0.75	-1.15
17089.00	90.220	324.510	7740.35	8548.57	8229.00	-3151.75	1755269.37	443209.42	39°42'48.9949"N	80°22'11.8113"W	8811.92	339.043	0.53	-0.19	0.49
17184.00	90.650	325.570	7739.63	8643.57	8306.86	-3206.18	1755214.94	443287.27	39°42'49.7591"N	80°22'12.5174"W	8904.12	338.895	1.20	0.45	1.12
17278.00	90.250	324.390	7738.89	8737.56	8383.83	-3260.12	1755161.00	443364.24	39°42'50.5147"N	80°22'13.2172"W	8995.39	338.751	1.33	-0.43	-1.26
17373.00	88.770	324.330	7739.71	8832.55	8461.03	-3315.47	1755105.66	443441.44	39°42'51.2723"N	80°22'13.9350"W	9087.43	338.602	1.56	-1.56	-0.06
17468.00	89.380	323.480	7741.24	8927.52	8537.78	-3371.43	1755049.70	443518.19	39°42'52.0255"N	80°22'14.6605"W	9179.34	338.452	1.10	0.64	-0.89
17563.00	89.110	322.190	7742.49	9022.44	8613.48	-3428.82	1754992.32	443593.88	39°42'52.7680"N	80°22'15.4042"W	9270.86	338.294	1.39	-0.28	-1.36
17658.00	90.220	323.920	7743.05	9117.38	8689.40	-3485.91	1754935.23	443669.79	39°42'53.5129"N	80°22'16.1442"W	9362.55	338.141	2.16	1.17	1.82
17752.00	91.480	325.400	7741.65	9211.36	8766.07	-3540.28	1754880.87	443746.46	39°42'54.2653"N	80°22'16.8493"W	9453.97	338.008	2.07	1.34	1.57
17847.00	90.680	324.370	7739.86	9306.34	8843.76	-3594.91	1754826.24	443824.15	39°42'55.0279"N	80°22'17.5581"W	9546.49	337.879	1.37	-0.84	-1.08
17942.00	90.150	325.160	7739.17	9401.34	8921.36	-3649.72	1754771.43	443901.73	39°42'55.7894"N	80°22'18.2690"W	9639.04	337.751	1.00	-0.56	0.83
18036.00	89.750	325.120	7739.26	9495.34	8998.49	-3703.45	1754717.71	443978.86	39°42'56.5465"N	80°22'18.9660"W	9730.79	337.630	0.43	-0.43	-0.04
18131.00	89.480	325.210	7739.90	9590.34	9076.46	-3757.71	1754663.45	444056.83	39°42'57.3119"N	80°22'19.6701"W	9823.57	337.510	0.30	-0.28	0.09
18226.00	89.820	326.040	7740.48	9685.33	9154.87	-3811.35	1754609.81	444135.23	39°42'58.0816"N	80°22'20.3661"W	9916.55	337.397	0.94	0.36	0.87
18321.00	90.220	325.460	7740.44	9780.32	9233.39	-3864.81	1754556.35	444213.75	39°42'58.8525"N	80°22'21.0600"W	10009.51	337.287	0.74	0.42	-0.61
18415.00	89.750	325.450	7740.47	9874.32	9310.82	-3918.12	1754503.05	444291.17	39°42'59.6126"N	80°22'21.7517"W	10101.63	337.178	0.50	-0.50	-0.01

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# Actual Wellpath Report

WDTN-18U-HSM AWP Proj: 25910'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18U-HSM
Field	Monongalia	API	47-061-01916-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18U-HSM AWB
Slot	Slot U		

WELLPATH DATA (290 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)
18510.00	88.710	325.570	7741.74	9969.30	9389.11	-3971.91	1754449.27	444369.46	39°43'0.3811"N	80°22'22.4497"W	10194.68	337.070	1.10	-1.09	0.13
18605.00	88.650	325.060	7743.93	10064.27	9467.21	-4025.95	1754395.22	444447.56	39°43'1.1477"N	80°22'23.1510"W	10287.68	336.962	0.54	-0.06	-0.54
18700.00	89.320	325.180	7745.61	10159.26	9545.13	-4080.27	1754340.91	444525.47	39°43'1.9126"N	80°22'23.8558"W	10380.66	336.855	0.72	0.71	0.13
18794.00	89.290	325.790	7746.76	10253.25	9622.58	-4133.53	1754287.65	444602.91	39°43'2.6728"N	80°22'24.5469"W	10472.82	336.753	0.65	-0.03	0.65
18889.00	89.380	325.390	7747.86	10348.24	9700.95	-4187.21	1754233.97	444681.28	39°43'3.4422"N	80°22'25.2436"W	10566.04	336.654	0.43	0.09	-0.42
18984.00	90.550	325.890	7747.92	10443.23	9779.37	-4240.83	1754180.36	444759.70	39°43'4.2120"N	80°22'25.9394"W	10659.30	336.556	1.34	1.23	0.53
19078.00	90.000	325.270	7747.46	10537.22	9856.91	-4293.96	1754127.23	444837.23	39°43'4.9732"N	80°22'26.6290"W	10751.59	336.461	0.88	-0.59	-0.66
19173.00	90.280	325.470	7747.23	10632.22	9935.08	-4347.94	1754073.25	444915.40	39°43'5.7405"N	80°22'27.3295"W	10844.83	336.364	0.36	0.29	0.21
19268.00	90.030	326.210	7746.98	10727.21	10013.69	-4401.29	1754019.91	444994.00	39°43'6.5123"N	80°22'28.0219"W	10938.25	336.273	0.82	-0.26	0.78
19363.00	90.120	325.510	7746.85	10822.20	10092.32	-4454.60	1753966.60	445072.63	39°43'7.2842"N	80°22'28.7139"W	11031.70	336.184	0.74	0.09	-0.74
19457.00	90.150	325.670	7746.63	10916.19	10169.87	-4507.72	1753913.48	445150.17	39°43'8.0455"N	80°22'29.4033"W	11124.11	336.095	0.17	0.03	0.17
19552.00	90.250	325.260	7746.30	11011.19	10248.13	-4561.58	1753859.63	445228.43	39°43'8.8137"N	80°22'30.1023"W	11217.49	336.006	0.44	0.11	-0.43
19647.00	89.970	325.180	7746.12	11106.19	10326.15	-4615.77	1753805.44	445306.45	39°43'9.5796"N	80°22'30.8054"W	11310.83	335.915	0.31	-0.29	-0.08
19742.00	90.710	325.440	7745.55	11201.18	10404.27	-4669.84	1753751.38	445384.56	39°43'10.3463"N	80°22'31.5070"W	11404.21	335.828	0.83	0.78	0.27
19837.00	90.680	325.180	7744.40	11296.17	10482.37	-4723.90	1753697.32	445462.66	39°43'11.1130"N	80°22'32.2086"W	11497.62	335.741	0.28	-0.03	-0.27
19931.00	90.800	325.540	7743.19	11390.16	10559.70	-4777.33	1753643.89	445539.98	39°43'11.8720"N	80°22'32.9019"W	11590.09	335.657	0.40	0.13	0.38
20026.00	90.220	325.020	7742.34	11485.16	10637.79	-4831.43	1753589.79	445618.06	39°43'12.6385"N	80°22'33.6040"W	11683.54	335.574	0.82	-0.61	-0.55
20121.00	89.200	324.100	7742.82	11580.15	10715.18	-4886.52	1753534.71	445695.45	39°43'13.3980"N	80°22'34.3186"W	11776.81	335.485	1.45	-1.07	-0.97
20216.00	89.850	324.680	7743.61	11675.14	10792.41	-4941.83	1753479.40	445772.68	39°43'14.1559"N	80°22'35.0360"W	11870.04	335.397	0.92	0.68	0.61
20310.00	90.000	324.270	7743.73	11769.14	10868.92	-4996.45	1753424.79	445849.18	39°43'14.9067"N	80°22'35.7445"W	11962.35	335.312	0.46	0.16	-0.44
20405.00	90.460	325.720	7743.35	11864.14	10946.73	-5050.94	1753370.29	445926.98	39°43'15.6704"N	80°22'36.4516"W	12055.82	335.231	1.60	0.48	1.53
20499.00	90.400	325.330	7742.64	11958.13	11024.22	-5104.15	1753317.09	446004.47	39°43'16.4311"N	80°22'37.1422"W	12148.48	335.156	0.42	-0.06	-0.41
20594.00	90.740	325.370	7741.70	12053.12	11102.36	-5158.16	1753263.08	446082.61	39°43'17.1982"N	80°22'37.8431"W	12242.10	335.080	0.36	0.36	0.04
20689.00	90.000	324.590	7741.09	12148.12	11180.16	-5212.67	1753208.57	446160.40	39°43'17.9617"N	80°22'38.5504"W	12335.64	335.003	1.13	-0.78	-0.82
20784.00	90.220	325.570	7740.90	12243.12	11258.05	-5267.05	1753154.19	446238.29	39°43'18.7283"N	80°22'39.2561"W	12429.23	334.928	1.06	0.23	1.03
20879.00	90.430	325.090	7740.36	12338.11	11336.19	-5321.09	1753100.16	446316.42	39°43'19.4932"N	80°22'39.9574"W	12522.90	334.855	0.55	0.22	-0.51
20973.00	90.250	325.130	7739.81	12432.11	11413.29	-5374.86	1753046.39	446393.52	39°43'20.2499"N	80°22'40.6551"W	12615.56	334.783	0.20	-0.19	0.04
21068.00	90.310	325.170	7739.34	12527.11	11491.25	-5429.15	1752992.11	446471.47	39°43'21.0152"N	80°22'41.3595"W	12709.23	334.711	0.08	0.06	0.04
21163.00	89.720	325.290	7739.32	12622.11	11569.29	-5483.32	1752937.94	446549.50	39°43'21.7811"N	80°22'42.0626"W	12802.94	334.641	0.63	-0.62	0.13
21258.00	89.570	325.030	7739.91	12717.11	11647.26	-5537.59	1752883.67	446627.47	39°43'22.5464"N	80°22'42.7668"W	12896.65	334.572	0.32	-0.16	-0.27

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# Actual Wellpath Report

WDTN-18U-HSM AWP Proj: 25910'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18U-HSM
Field	Monongalia	API	47-061-01916-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18U-HSM AWB
Slot	Slot U		

WELLPATH DATA (290 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]
21353.00	89.850	324.710	7740.39	12812.11	11724.95	-5592.26	1752829.01	446705.16	39°43'23.3089"N	80°22'43.4761"W	12990.30	334.501	0.45	0.29	-0.34
21447.00	90.060	325.030	7740.46	12906.10	11801.83	-5646.35	1752774.92	446782.03	39°43'24.0635"N	80°22'44.1780"W	13082.98	334.432	0.41	0.22	0.34
21542.00	90.120	324.870	7740.31	13001.10	11879.60	-5700.91	1752720.37	446859.80	39°43'24.8288"N	80°22'44.8859"W	13176.69	334.364	0.18	0.06	-0.17
21636.00	90.280	324.740	7739.98	13095.10	11956.41	-5755.09	1752666.19	446936.61	39°43'25.5806"N	80°22'45.5888"W	13269.40	334.297	0.22	0.17	-0.14
21731.00	90.220	324.870	7739.57	13190.10	12034.05	-5809.84	1752611.44	447014.24	39°43'26.3426"N	80°22'46.2993"W	13363.10	334.230	0.15	-0.06	0.14
21826.00	90.310	324.900	7739.13	13285.10	12111.76	-5864.48	1752556.80	447091.94	39°43'27.1052"N	80°22'47.0083"W	13456.85	334.164	0.10	0.09	0.03
21921.00	90.180	325.030	7738.72	13380.10	12189.54	-5919.02	1752502.27	447169.72	39°43'27.8687"N	80°22'47.7160"W	13550.64	334.100	0.19	-0.14	0.14
22016.00	90.060	324.550	7738.52	13475.10	12267.16	-5973.80	1752447.50	447247.34	39°43'28.6304"N	80°22'48.4267"W	13644.39	334.035	0.52	-0.13	-0.51
22110.00	90.220	324.890	7738.29	13569.10	12343.90	-6028.09	1752393.21	447324.07	39°43'29.3835"N	80°22'49.1311"W	13737.16	333.972	0.40	0.17	0.36
22205.00	89.910	324.810	7738.19	13664.10	12421.57	-6082.78	1752338.52	447401.74	39°43'30.1458"N	80°22'49.8408"W	13830.97	333.909	0.34	-0.33	-0.08
22300.00	89.820	324.730	7738.41	13759.10	12499.17	-6137.58	1752283.72	447479.34	39°43'30.9074"N	80°22'50.5518"W	13924.77	333.847	0.13	-0.09	-0.08
22395.00	89.780	324.160	7738.74	13854.09	12576.46	-6192.82	1752228.48	447556.62	39°43'31.6659"N	80°22'51.2685"W	14018.50	333.784	0.60	-0.04	-0.60
22490.00	90.220	324.700	7738.74	13949.08	12653.73	-6248.08	1752173.22	447633.89	39°43'32.4242"N	80°22'51.9854"W	14112.25	333.721	0.73	0.46	0.57
22585.00	89.970	324.690	7738.59	14044.08	12731.26	-6302.99	1752118.33	447711.41	39°43'33.1850"N	80°22'52.6977"W	14206.08	333.661	0.26	-0.26	-0.01
22680.00	89.880	325.060	7738.71	14139.08	12808.96	-6357.65	1752063.67	447789.10	39°43'33.9476"N	80°22'53.4070"W	14299.97	333.603	0.40	-0.09	0.39
22774.00	89.850	324.810	7738.93	14233.08	12885.90	-6411.65	1752009.67	447866.04	39°43'34.7027"N	80°22'54.1078"W	14392.90	333.546	0.27	-0.03	-0.27
22869.00	89.780	324.870	7739.24	14328.08	12963.57	-6466.36	1751954.97	447943.70	39°43'35.4649"N	80°22'54.8177"W	14486.82	333.490	0.10	-0.07	0.06
22964.00	90.740	324.990	7738.81	14423.08	13041.32	-6520.94	1751900.39	448021.45	39°43'36.2280"N	80°22'55.5260"W	14580.76	333.434	1.02	1.01	0.13
23059.00	90.520	324.180	7737.76	14518.07	13118.73	-6575.99	1751845.34	448098.86	39°43'36.9877"N	80°22'56.2402"W	14674.63	333.377	0.88	-0.23	-0.85
23154.00	90.250	324.570	7737.12	14613.06	13195.95	-6631.32	1751790.01	448176.07	39°43'37.7455"N	80°22'56.9581"W	14768.47	333.319	0.50	-0.28	0.41
23248.00	90.710	325.030	7736.34	14707.06	13272.78	-6685.50	1751735.83	448252.88	39°43'38.4993"N	80°22'57.6611"W	14861.43	333.266	0.69	0.49	0.49
23343.00	90.310	325.470	7735.49	14802.05	13350.81	-6739.65	1751681.69	448330.93	39°43'39.2654"N	80°22'58.3639"W	14955.51	333.215	0.63	-0.42	0.46
23437.00	89.850	324.600	7735.36	14896.05	13427.85	-6793.52	1751627.82	448407.95	39°43'40.0214"N	80°22'59.0630"W	15048.55	333.164	1.05	-0.49	-0.93
23532.00	90.280	325.040	7735.25	14991.05	13505.49	-6848.25	1751573.09	448485.60	39°43'40.7834"N	80°22'59.7733"W	15142.55	333.112	0.65	0.45	0.46
23627.00	90.310	325.410	7734.76	15086.05	13583.53	-6902.44	1751518.91	448563.62	39°43'41.5493"N	80°23'0.4765"W	15236.66	333.063	0.39	0.03	0.39
23722.00	90.310	324.830	7734.25	15181.05	13661.46	-6956.76	1751464.59	448641.55	39°43'42.3142"N	80°23'1.1816"W	15330.75	333.014	0.61	0.00	-0.61
23816.00	90.120	324.820	7733.90	15275.05	13738.29	-7010.91	1751410.44	448718.38	39°43'43.0682"N	80°23'1.8843"W	15423.80	332.964	0.20	-0.20	-0.01
23911.00	90.120	324.570	7733.70	15370.04	13815.82	-7065.82	1751355.54	448795.90	39°43'43.8291"N	80°23'2.5967"W	15517.82	332.913	0.26	0.00	-0.26
24005.00	90.150	324.810	7733.48	15464.04	13892.53	-7120.15	1751301.21	448872.61	39°43'44.5818"N	80°23'3.3018"W	15610.86	332.864	0.26	0.03	0.26
24100.00	90.250	325.590	7733.14	15559.04	13970.54	-7174.36	1751247.00	448950.61	39°43'45.3475"N	80°23'4.0055"W	15705.01	332.818	0.83	0.11	0.82

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# Actual Wellpath Report

WDTN-18U-HSM AWP Proj: 25910'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18U-HSM
Field	Monongalia	API	47-061-01916-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18U-HSM AWB
Slot	Slot U		

WELLPATH DATA (290 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]
24195.00	90.180	324.900	7732.79	15654.04	14048.59	-7228.52	1751192.85	449028.66	39°43'46.1135"N	80°23'4.7084"W	15799.19	332.772	0.73	-0.07	-0.73
24289.00	90.710	325.090	7732.06	15748.03	14125.58	-7282.44	1751138.93	449105.64	39°43'46.8692"N	80°23'5.4082"W	15892.32	332.727	0.60	0.56	0.20
24384.00	90.490	324.130	7731.06	15843.03	14203.02	-7337.46	1751083.92	449183.08	39°43'47.6291"N	80°23'6.1221"W	15986.37	332.679	1.04	-0.23	-1.01
24479.00	90.310	324.600	7730.40	15938.02	14280.23	-7392.80	1751028.57	449260.28	39°43'48.3868"N	80°23'6.8402"W	16080.38	332.630	0.53	-0.19	0.49
24574.00	91.170	324.890	7729.17	16033.01	14357.80	-7447.63	1750973.75	449337.85	39°43'49.1480"N	80°23'7.5517"W	16174.47	332.583	0.96	0.91	0.31
24668.00	90.920	324.480	7727.46	16126.99	14434.49	-7501.96	1750919.42	449414.53	39°43'49.9006"N	80°23'8.2567"W	16267.57	332.538	0.51	-0.27	-0.44
24763.00	90.920	324.590	7725.93	16221.97	14511.85	-7557.08	1750864.31	449491.89	39°43'50.6598"N	80°23'8.9718"W	16361.64	332.492	0.12	0.00	0.12
24858.00	90.830	324.400	7724.48	16316.96	14589.18	-7612.24	1750809.15	449569.22	39°43'51.4186"N	80°23'9.6876"W	16455.71	332.446	0.22	-0.09	-0.20
24953.00	90.180	324.670	7723.64	16411.95	14666.55	-7667.36	1750754.03	449646.58	39°43'52.1778"N	80°23'10.4028"W	16549.81	332.400	0.74	-0.68	0.28
25048.00	90.580	324.960	7723.01	16506.95	14744.19	-7722.10	1750699.30	449724.22	39°43'52.9398"N	80°23'11.1132"W	16643.98	332.357	0.52	0.42	0.31
25143.00	90.770	324.580	7721.90	16601.94	14821.79	-7776.90	1750644.50	449801.81	39°43'53.7013"N	80°23'11.8244"W	16738.15	332.314	0.45	0.20	-0.40
25237.00	90.430	324.910	7720.91	16695.94	14898.54	-7831.15	1750590.25	449878.56	39°43'54.4545"N	80°23'12.5284"W	16831.33	332.272	0.50	-0.36	0.35
25332.00	90.370	324.910	7720.25	16790.93	14976.27	-7885.76	1750535.65	449956.29	39°43'55.2173"N	80°23'13.2372"W	16925.54	332.231	0.06	-0.06	0.00
25427.00	90.400	324.900	7719.61	16885.93	15054.00	-7940.38	1750481.03	450034.01	39°43'55.9802"N	80°23'13.9461"W	17019.77	332.190	0.03	0.03	-0.01
25522.00	90.800	324.790	7718.61	16980.93	15131.67	-7995.08	1750426.34	450111.67	39°43'56.7424"N	80°23'14.6560"W	17113.99	332.149	0.44	0.42	-0.12
25616.00	90.890	324.620	7717.23	17074.91	15208.38	-8049.38	1750372.03	450188.38	39°43'57.4952"N	80°23'15.3607"W	17207.19	332.109	0.20	0.10	-0.18
25711.00	90.490	324.760	7716.08	17169.91	15285.90	-8104.29	1750317.13	450265.89	39°43'58.2559"N	80°23'16.0732"W	17301.39	332.068	0.45	-0.42	0.15
25805.00	90.710	324.700	7715.10	17263.90	15362.64	-8158.56	1750262.86	450342.63	39°43'59.0090"N	80°23'16.7776"W	17394.62	332.029	0.24	0.23	-0.06
25885.00	90.860	324.880	7714.00	17343.89	15428.00	-8204.69	1750216.74	450407.98	39°43'59.6504"N	80°23'17.3762"W	17473.98	331.996	0.29	0.19	0.22
25910.00‡	90.860	324.880	7713.63	17368.89	15448.44	-8219.07	1750202.36	450428.43	39°43'59.8510"N	80°23'17.5628"W	17498.79	331.986	0.00	0.00	0.00

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# Actual Wellpath Report

WDTN-18U-HSM AWP Proj: 25910'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18U-HSM
Field	Monongalia	API	47-061-01916-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18U-HSM AWB
Slot	Slot U		

HOLE & CASING SECTIONS - Ref Wellbore: WDTN-18U-HSM AWB Ref Wellpath: WDTN-18U-HSM AWP Proj: 25910'									
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]
26in Open Hole	28.00	69.00	41.00	28.00	69.00	0.00	0.00	0.04	0.01
20in Conductor	28.00	69.00	41.00	28.00	69.00	0.00	0.00	0.04	0.01
17.5in Open Hole	69.00	1121.00	1052.00	69.00	1120.99	0.04	0.01	2.54	-2.67
13.375in Casing Surface	28.00	1121.00	1093.00	28.00	1120.99	0.00	0.00	2.54	-2.67
12.25in Open Hole	1121.00	2777.00	1656.00	1120.99	2776.72	2.54	-2.67	27.22	-0.31
9.625in Casing Intermediate	28.00	2777.00	2749.00	28.00	2776.72	0.00	0.00	27.22	-0.31
8.75in Open Hole	2777.00	6709.50	3932.50	2776.72	6387.43	27.22	-0.31	490.51	1334.09
8.5in Open Hole	6709.50	25910.00	19200.50	6387.43	7713.63	490.51	1334.09	15448.44	-8219.07
5.5in Casing Production	28.00	25910.00	25882.00	28.00	7713.63	0.00	0.00	15448.44	-8219.07

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
WDTN-18U-HSM BHL Rev-3	7701.00	15454.91	-8210.25	1750211.18	450434.90	39°43'59.9158"N	80°23'17.4508"W	point
WDTN-18U-HSM State Line	7848.00	11017.55	-5103.17	1753318.07	445997.80	39°43'16.3653"N	80°22'37.1288"W	point
WDTN-18U-HSM LP Rev-3	7866.00	1424.51	1613.95	1760034.78	436405.34	39°41'42.2008"N	80°21'10.0057"W	point
WDTN-18 Marcellus North Lease Rev-2	8249.90	15835.03	-15252.12	1743169.73	450814.99	39°44'2.9745"N	80°24'47.6290"W	polygon
2D Polygon: dimensions not calculated								

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# Actual Wellpath Report

WDTN-18U-HSM AWP Proj: 25910'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18U-HSM
Field	Monongalia	API	47-061-01916-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18U-HSM AWB
Slot	Slot U		

WELLPATH COMPOSITION - Ref Wellbore: WDTN-18U-HSM AWB Ref Wellpath: WDTN-18U-HSM AWP Proj: 25910'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1047.50	Gyrodatta 2015 - GC+WIR+CAS	01 Gyrodatta MS Gyro <17-1/2"> (100'-1033')	WDTN-18U-HSM AWB	2/16/2024
1047.50	2729.50	OWSG MWD rev2 + HRGM	02 Tally MWD <12-1/4"> (1033')(1136'-2715')	WDTN-18U-HSM AWB	2/16/2024
2729.50	6640.50	OWSG MWD rev2 + HRGM	03 Tally MWD <8-3/4"> (2715')(2835'-6626')	WDTN-18U-HSM AWB	2/16/2024
6640.50	25910.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6640.5')(6764'-25885')	WDTN-18U-HSM AWB	3/6/2024

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# Actual Wellpath Report

WDTN-18U-HSM AWP Proj: 25910'

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Field	Monongalia	API	47-061-01916-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18U-HSM AWB
Slot	Slot U		

COMMENTS
<p><b>Wellpath general comments</b>            API: 47-061-01916-0000            BH Job #: 112148365            Rig: Precision 575            Duration: 3/10/2024-3/15/2024            Gyrodata MS Gyro &lt;17-1/2"&gt; (100'-1033')            Tally MWD &lt;12-1/4"&gt; (1033')(1136'-2715')            Tally MWD &lt;8-3/4"&gt; (2715')(2835'-6626')            BH AT Curve &lt;8-1/2"&gt; (6640.5')(6764'-25885')            Projected MD at TD: 25910'</p>

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