



# CNX GAS CO, LLC



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

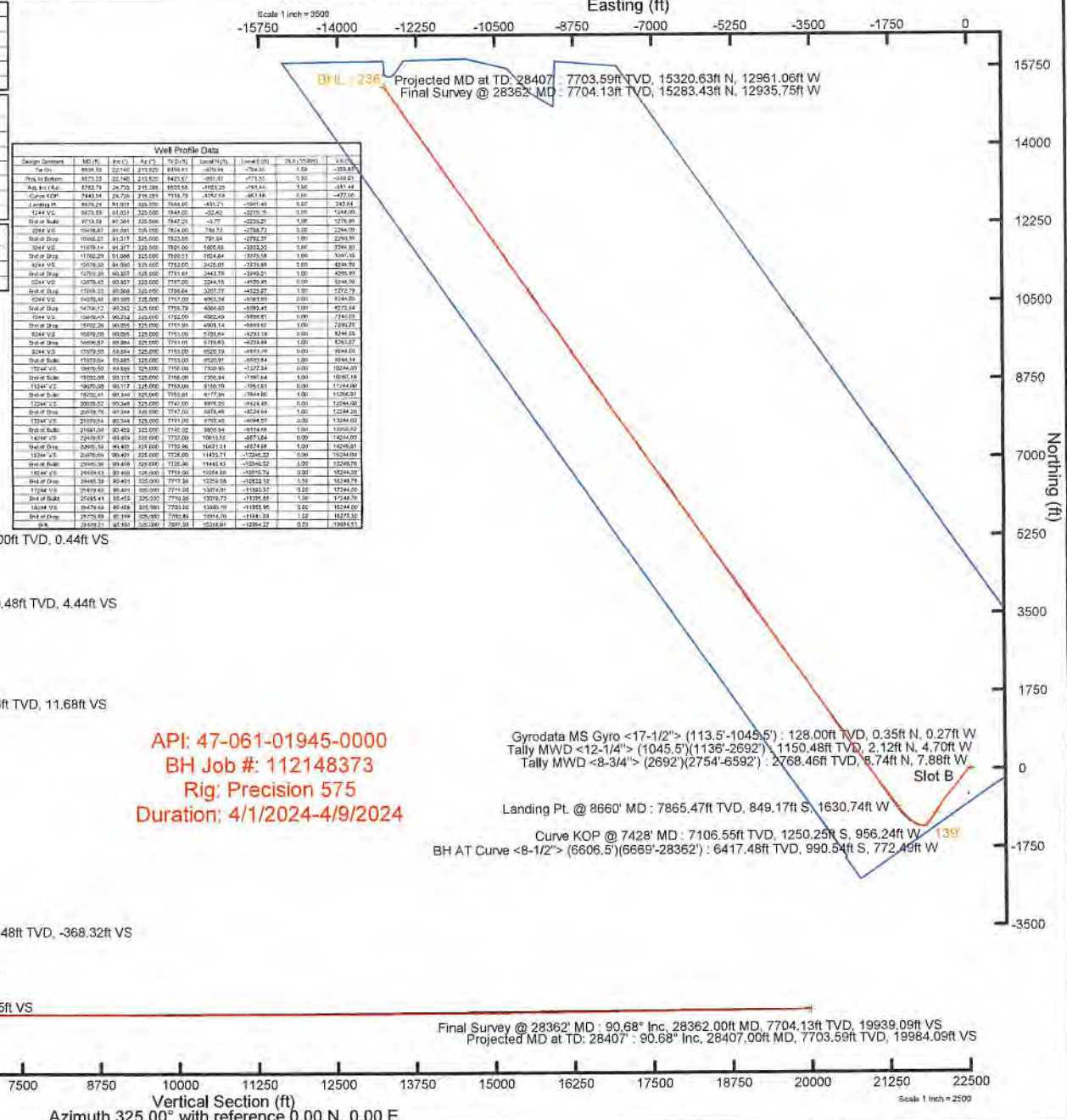
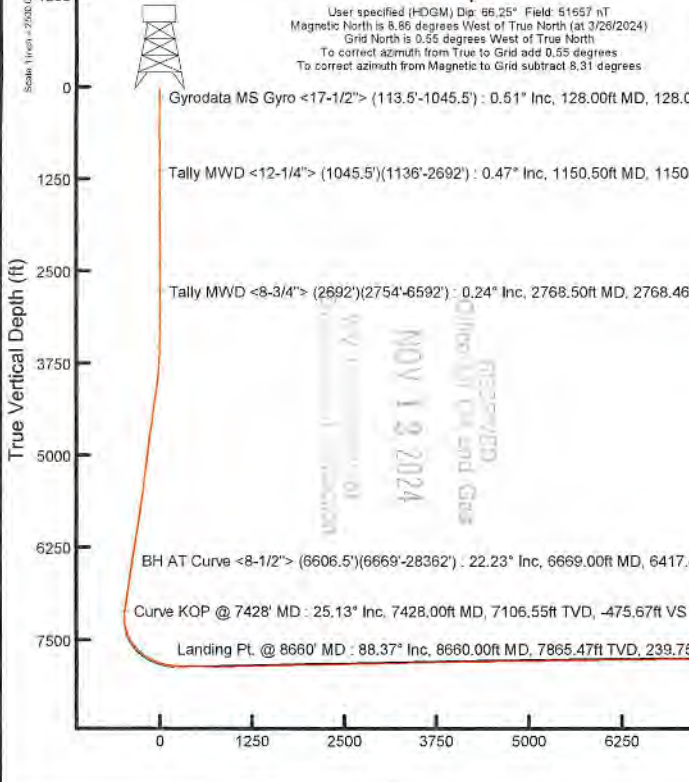
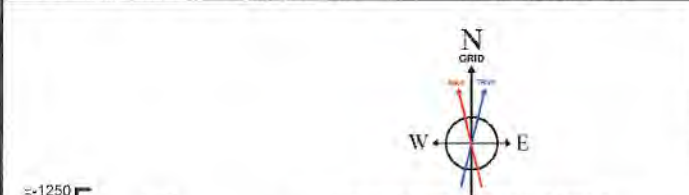
Slot: Slot B  
 Well: WDTN-18B-HSM  
 Wellbore: WDTN-18B-HSM PWB

Reference location (WDTN-18B-HSM PWB)	Grid System: NAD83 (Landsat West Virginia 97' Meridian Zone 18T UTM Spheroid)
This wellbore depth is measured to Precision 2'S (PKB)	North Reference Orientation
Workover/depth measured depths are referenced to Precision 2'S (PKB)	Scale: True distance
Precision 575 (PKB) to Mean Sea Level: 1226.89ft	Coordinate system is referenced to GRS80
Mean Sea Level to Mxd line (At Slot: Slot B)	Created by: Addshore on 2024-04-14; Drawn by: WPL, MGT, ERT, JTC, JCB
Mean Sea Level to Mxd line (At Slot: Slot B)	Drawn by: MGT
Precision 575 (PKB) to Mean Sea Level	Checked by: Addshore on 2024-04-14; Drawn by: WPL, MGT, ERT, JTC, JCB

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
WDTN-18 Pad	1758369.150	434429.260	39°41'22.5131"N	80°21'31.2000"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot B	533.46	40.40	1758369.550	434992.690
			39°41'27.7689"N	80°21'30.7484"W

Precision 575 (PKB) to Mxd line (At Slot: Slot B) 26ft  
 Mean Sea Level to Mxd line (At Slot: Slot B) -1198.69ft  
 Precision 575 (PKB) to Mean Sea Level 1226.89ft

Well Data			
Slot	Well	Wellbore	Wellpath
Slot B	WDTN-18B-HSM	WDTN-18B-HSM AWB	WDTN-18B-HSM AWP Proj 28407
Slot B	WDTN-18B-HSM	WDTN-18B-HSM PWB	WDTN-18B-HSM PWP Rev-B, D



API: 47-061-01945-0000  
 BH Job #: 112148373  
 Rig: Precision 575  
 Duration: 4/1/2024-4/9/2024

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# Actual Wellpath Report

WDTN-18B-HSM AWP Proj: 28407'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18B-HSM
Field	Monongalia	API	47-061-01945-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18B-HSM AWB
Slot	Slot B		

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	4/14/2024 at 3:17:22 AM
Convergence at slot	0.55° West	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	533.46	40.40	1758399.55	434962.69	39°41'27.7889"N	80°21'30.7484"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	1226.69ft
Horizontal Reference Pt	Slot	Precision 575 (RKB) to Mean Sea Level	1226.69ft
Vertical Reference Pt	Precision 575 (RKB)	Precision 575 (RKB) to Mud Line at Slot (Slot B)	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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# Actual Wellpath Report

WDTN-18B-HSM AWP Proj: 28407'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18B-HSM
Field	Monongalia	API	47-061-01945-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18B-HSM AWB
Slot	Slot B		

WELLPATH DATA (307 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	322.010	0.00	0.00	0.00	0.00	1758399.55	434962.69	39°41'27.7889"N	80°21'30.7484"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	322.010	28.00	0.00	0.00	0.00	1758399.55	434962.69	39°41'27.7889"N	80°21'30.7484"W	0.00	0.000	0.00	0.00	0.00
128.00	0.510	322.010	128.00	0.44	0.35	-0.27	1758399.28	434963.04	39°41'27.7923"N	80°21'30.7520"W	0.45	322.010	0.51	0.51	0.00
228.00	0.170	276.560	228.00	0.99	0.72	-0.70	1758398.85	434963.41	39°41'27.7959"N	80°21'30.7574"W	1.00	315.940	0.41	-0.34	-45.45
328.00	0.100	238.850	328.00	1.09	0.69	-0.92	1758398.63	434963.38	39°41'27.7966"N	80°21'30.7602"W	1.15	306.960	0.11	-0.07	-37.71
428.00	0.180	304.750	428.00	1.24	0.73	-1.12	1758398.43	434963.42	39°41'27.7960"N	80°21'30.7629"W	1.34	303.237	0.17	0.08	65.90
528.00	0.250	298.390	528.00	1.59	0.93	-1.44	1758398.11	434963.62	39°41'27.7979"N	80°21'30.7670"W	1.71	302.760	0.07	0.07	-6.36
628.00	0.320	174.490	628.00	1.54	0.75	-1.61	1758397.94	434963.44	39°41'27.7962"N	80°21'30.7691"W	1.78	295.124	0.50	0.07	-123.90
728.00	0.390	279.990	727.99	1.54	0.53	-1.92	1758397.63	434963.22	39°41'27.7940"N	80°21'30.7730"W	1.99	285.598	0.57	0.07	105.50
828.00	0.510	292.850	827.99	2.15	0.77	-2.66	1758396.89	434963.46	39°41'27.7962"N	80°21'30.7826"W	2.77	286.073	0.16	0.12	12.86
928.00	0.370	303.950	927.99	2.83	1.12	-3.34	1758396.21	434963.81	39°41'27.7996"N	80°21'30.7913"W	3.52	288.541	0.16	-0.14	11.10
1028.00	0.450	301.980	1027.99	3.50	1.51	-3.94	1758395.61	434964.20	39°41'27.8034"N	80°21'30.7990"W	4.22	290.946	0.08	0.08	-1.97
1060.00	0.460	303.090	1059.98	3.73	1.64	-4.15	1758395.40	434964.33	39°41'27.8047"N	80°21'30.8018"W	4.47	291.601	0.04	0.03	3.47
1150.50	0.470	319.040	1150.48	4.44	2.12	-4.70	1758394.85	434964.81	39°41'27.8094"N	80°21'30.8088"W	5.16	294.305	0.14	0.01	17.62
1239.50	0.440	301.150	1239.48	5.11	2.58	-5.23	1758394.32	434965.27	39°41'27.8138"N	80°21'30.8157"W	5.83	296.206	0.16	-0.03	-20.10
1325.50	0.190	318.340	1325.48	5.56	2.85	-5.61	1758393.94	434965.54	39°41'27.8165"N	80°21'30.8205"W	6.29	296.954	0.31	-0.29	19.99
1413.50	0.190	323.300	1413.48	5.85	3.08	-5.79	1758393.76	434965.77	39°41'27.8187"N	80°21'30.8229"W	6.56	297.984	0.02	0.00	5.64
1501.50	0.410	323.610	1501.48	6.31	3.45	-6.07	1758393.48	434966.14	39°41'27.8224"N	80°21'30.8265"W	6.98	299.614	0.25	0.25	0.35
1588.50	0.260	339.600	1588.47	6.81	3.89	-6.32	1758393.23	434966.57	39°41'27.8267"N	80°21'30.8298"W	7.42	301.571	0.20	-0.17	18.38
1675.50	0.380	316.170	1675.47	7.29	4.28	-6.59	1758392.96	434966.97	39°41'27.8305"N	80°21'30.8333"W	7.86	302.988	0.20	0.14	-26.93
1763.50	0.340	330.390	1763.47	7.83	4.72	-6.92	1758392.63	434967.41	39°41'27.8348"N	80°21'30.8375"W	8.38	304.266	0.11	-0.05	16.16
1851.50	0.280	311.780	1851.47	8.30	5.09	-7.21	1758392.34	434967.78	39°41'27.8384"N	80°21'30.8413"W	8.82	305.195	0.13	-0.07	-21.15
1938.50	0.340	342.780	1938.47	8.76	5.47	-7.45	1758392.10	434968.16	39°41'27.8423"N	80°21'30.8443"W	9.24	306.322	0.20	0.07	35.63
2026.50	0.340	319.470	2026.47	9.26	5.92	-7.69	1758391.86	434968.61	39°41'27.8467"N	80°21'30.8476"W	9.71	307.588	0.16	0.00	-26.49
2114.50	0.350	329.180	2114.47	9.79	6.35	-8.00	1758391.55	434969.04	39°41'27.8509"N	80°21'30.8515"W	10.22	308.444	0.07	0.01	11.03
2202.50	0.220	327.720	2202.46	10.23	6.73	-8.23	1758391.32	434969.41	39°41'27.8545"N	80°21'30.8545"W	10.63	309.258	0.15	-0.15	-1.66
2290.50	0.170	323.860	2290.46	10.53	6.97	-8.40	1758391.15	434969.66	39°41'27.8570"N	80°21'30.8567"W	10.91	309.712	0.06	-0.06	-4.39
2378.50	0.110	346.670	2378.46	10.74	7.16	-8.49	1758391.06	434969.85	39°41'27.8588"N	80°21'30.8579"W	11.11	310.138	0.09	-0.07	25.92
2466.50	0.210	31.100	2466.46	10.88	7.38	-8.43	1758391.12	434970.07	39°41'27.8610"N	80°21'30.8571"W	11.20	311.210	0.17	0.11	50.48
2554.50	0.300	35.370	2554.46	11.02	7.71	-8.21	1758391.34	434970.40	39°41'27.8642"N	80°21'30.8544"W	11.26	313.184	0.10	0.10	4.85

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 WDTN-18B-HSM AWP  
 28407'



# Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18B-HSM
Field	Monongalia	API	47-061-01945-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18B-HSM AWB
Slot	Slot B		

WELLPATH DATA (307 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]	
2642.50	0.320	25.660	2642.46	11.22	8.12	-7.97	1758391.58	434970.81	39°41'27.8683"N	80°21'30.8514"W	11.38	315.514	0.06	0.02	-11.03	
2706.50	0.320	10.770	2706.46	11.43	8.45	-7.86	1758391.69	434971.14	39°41'27.8717"N	80°21'30.8500"W	11.54	317.078	0.13	0.00	-23.27	
2768.50	0.240	337.150	2768.46	11.68	8.74	-7.88	1758391.67	434971.43	39°41'27.8745"N	80°21'30.8503"W	11.77	317.974	0.29	-0.13	-54.23	
2856.50	0.290	328.450	2856.46	12.08	9.10	-8.07	1758391.48	434971.79	39°41'27.8780"N	80°21'30.8527"W	12.16	318.450	0.07	0.06	-9.89	
2945.50	0.430	333.840	2945.46	12.64	9.59	-8.33	1758391.22	434972.28	39°41'27.8829"N	80°21'30.8562"W	12.71	319.026	0.16	0.16	6.06	
3023.50	0.520	260.880	3023.45	13.08	9.80	-8.81	1758390.74	434972.49	39°41'27.8849"N	80°21'30.8623"W	13.18	318.044	0.73	0.12	-93.54	
3109.50	3.020	214.140	3109.41	12.45	7.86	-10.47	1758389.08	434970.55	39°41'27.8656"N	80°21'30.8833"W	13.09	306.914	3.13	2.91	-54.35	
3196.50	5.410	212.170	3196.17	10.04	2.49	-13.94	1758385.61	434965.18	39°41'27.8122"N	80°21'30.9270"W	14.16	280.147	2.75	2.75	-2.26	
3285.50	6.790	220.070	3284.66	7.05	-5.08	-19.56	1758379.99	434957.61	39°41'27.7368"N	80°21'30.9980"W	20.21	255.431	1.81	1.55	8.88	
3371.50	8.220	229.760	3369.93	5.18	-12.95	-27.53	1758372.03	434949.74	39°41'27.6583"N	80°21'31.0989"W	30.42	244.811	2.21	1.66	11.27	
3459.50	9.850	232.630	3456.83	4.30	-21.58	-38.31	1758361.24	434941.11	39°41'27.5720"N	80°21'31.2358"W	43.97	240.609	1.92	1.85	3.26	
3547.50	10.910	228.010	3543.39	2.97	-31.72	-50.48	1758349.07	434930.97	39°41'27.4706"N	80°21'31.3903"W	59.62	237.858	1.53	1.20	-5.25	
3636.50	12.770	222.070	3630.50	-0.25	-44.66	-63.34	1758336.22	434918.04	39°41'27.3415"N	80°21'31.5531"W	77.50	234.812	2.50	2.09	-6.67	
3723.50	13.890	219.810	3715.15	-5.14	-59.82	-76.46	1758323.09	434902.88	39°41'27.1905"N	80°21'31.7192"W	97.08	231.964	1.42	1.29	-2.60	
3809.50	15.590	218.700	3798.32	-11.09	-76.77	-90.30	1758309.26	434885.93	39°41'27.0217"N	80°21'31.8941"W	118.52	229.631	2.00	1.98	-1.29	
3897.50	17.110	217.930	3882.76	-18.21	-96.21	-105.65	1758293.91	434866.49	39°41'26.8281"N	80°21'32.0881"W	142.89	227.679	1.74	1.73	-0.87	
3983.50	20.260	216.340	3964.22	-26.69	-118.19	-122.26	1758277.30	434844.51	39°41'26.6093"N	80°21'32.2978"W	170.04	225.970	3.71	3.66	-1.85	
4071.50	21.610	216.830	4046.41	-36.62	-143.43	-141.00	1758258.56	434819.27	39°41'26.3581"N	80°21'32.5344"W	201.13	224.510	1.55	1.53	0.56	
4159.50	23.680	217.710	4127.62	-46.92	-170.38	-161.52	1758238.04	434792.32	39°41'26.0898"N	80°21'32.7937"W	234.78	223.471	2.38	2.35	1.00	
4247.50	23.590	215.720	4208.24	-57.99	-198.66	-182.61	1758216.95	434764.04	39°41'25.8083"N	80°21'33.0600"W	269.84	222.580	0.91	-0.10	-2.26	
4336.50	23.900	216.180	4289.70	-69.69	-227.67	-203.65	1758195.91	434735.03	39°41'25.5196"N	80°21'33.3256"W	305.47	221.813	0.41	0.35	0.52	
4424.50	24.040	216.280	4370.11	-81.19	-256.51	-224.78	1758174.78	434706.20	39°41'25.2326"N	80°21'33.5923"W	341.06	221.229	0.17	0.16	0.11	
4512.50	26.470	217.100	4449.70	-92.97	-286.61	-247.22	1758152.34	434676.10	39°41'24.9331"N	80°21'33.8757"W	378.50	220.781	2.79	2.76	0.93	
4598.50	24.660	213.950	4527.28	-105.31	-316.78	-268.81	1758130.76	434645.93	39°41'24.6329"N	80°21'34.1480"W	415.46	220.317	2.63	-2.10	-3.66	
4686.50	25.260	217.510	4607.06	-117.55	-346.90	-290.49	1758109.07	434615.81	39°41'24.3331"N	80°21'34.4217"W	452.47	219.942	1.84	0.68	4.05	
4774.50	24.230	216.350	4686.98	-128.96	-376.34	-312.63	1758086.94	434586.37	39°41'24.0401"N	80°21'34.7013"W	489.26	219.717	1.29	-1.17	-1.32	
4863.50	25.240	216.970	4767.82	-140.68	-406.21	-334.87	1758064.70	434556.50	39°41'23.7428"N	80°21'34.9821"W	526.45	219.501	1.17	1.13	0.70	
4951.50	25.660	221.600	4847.28	-150.90	-435.45	-358.80	1758040.77	434527.26	39°41'23.4515"N	80°21'35.2847"W	564.23	219.488	2.31	0.48	5.26	
5039.50	27.350	224.160	4926.04	-159.12	-464.21	-385.54	1758014.03	434498.51	39°41'23.1648"N	80°21'35.6231"W	603.43	219.711	2.32	1.92	2.91	
5127.50	25.920	222.030	5004.70	-167.24	-493.00	-412.50	1757987.07	434469.72	39°41'22.8778"N	80°21'35.9645"W	642.81	219.920	1.95	-1.62	-2.42	

Received  
 Office of Land & Water  
 10/11/2011  
 10:00 AM



# Actual Wellpath Report

WDTN-18B-HSM AWP Proj: 28407'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18B-HSM
Field	Monongalia	API	47-061-01945-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18B-HSM AWB
Slot	Slot B		

WELLPATH DATA (307 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]
5214.50	24.570	219.450	5083.39	-176.36	-521.09	-436.73	1757962.85	434441.63	39°41'22.5978"N	80°21'36.2709"W	679.90	219.966	2.00	-1.55	-2.97
5290.50	24.960	215.990	5152.40	-185.82	-546.27	-456.19	1757943.39	434416.46	39°41'22.3472"N	80°21'36.5168"W	711.70	219.865	1.97	0.51	-4.55
5377.50	26.270	216.460	5230.85	-197.92	-576.61	-478.42	1757921.16	434386.12	39°41'22.0453"N	80°21'36.7974"W	749.24	219.683	1.52	1.51	0.54
5464.50	25.660	220.970	5309.08	-208.61	-606.32	-502.21	1757897.37	434356.41	39°41'21.7494"N	80°21'37.0981"W	787.30	219.635	2.37	-0.70	5.18
5551.50	26.060	221.750	5387.36	-217.55	-634.80	-527.29	1757872.29	434327.93	39°41'21.4656"N	80°21'37.4154"W	825.23	219.714	0.60	0.46	0.90
5639.50	24.250	219.110	5467.02	-226.93	-663.24	-551.56	1757848.02	434299.49	39°41'21.1821"N	80°21'37.7224"W	862.62	219.747	2.42	-2.06	-3.00
5728.50	23.880	218.110	5548.28	-237.17	-691.60	-574.21	1757825.37	434271.13	39°41'20.8998"N	80°21'38.0086"W	898.90	219.702	0.62	-0.42	-1.12
5816.50	23.610	216.240	5628.83	-248.01	-719.83	-595.62	1757803.98	434242.90	39°41'20.6188"N	80°21'38.2790"W	934.30	219.606	0.91	-0.31	-2.13
5904.50	22.730	214.050	5709.74	-259.76	-748.13	-615.56	1757784.03	434214.61	39°41'20.3372"N	80°21'38.5305"W	968.82	219.448	1.40	-1.00	-2.49
5991.50	23.500	215.250	5789.75	-271.63	-776.22	-634.98	1757764.61	434186.52	39°41'20.0577"N	80°21'38.7755"W	1002.86	219.285	1.04	0.89	1.38
6079.50	22.370	214.190	5870.79	-283.51	-804.40	-654.52	1757745.07	434158.34	39°41'19.7774"N	80°21'39.0220"W	1037.04	219.134	1.37	-1.28	-1.20
6167.50	23.140	213.140	5951.94	-295.90	-832.73	-673.38	1757726.21	434130.01	39°41'19.4956"N	80°21'39.2598"W	1070.93	218.960	0.99	0.88	-1.19
6254.50	22.690	212.040	6032.08	-308.81	-861.27	-691.63	1757707.96	434101.47	39°41'19.2119"N	80°21'39.4897"W	1104.60	218.766	0.71	-0.52	-1.26
6343.50	21.740	210.530	6114.47	-322.33	-890.02	-709.11	1757690.48	434072.72	39°41'18.9261"N	80°21'39.7097"W	1137.97	218.546	1.25	-1.07	-1.70
6430.50	20.870	211.560	6195.53	-335.17	-917.10	-725.41	1757674.19	434045.64	39°41'18.6569"N	80°21'39.9148"W	1169.31	218.343	1.09	-1.00	1.18
6518.50	20.900	211.830	6277.74	-347.58	-943.80	-741.89	1757657.71	434018.95	39°41'18.3915"N	80°21'40.1224"W	1200.48	218.170	0.11	0.03	0.31
6606.50	22.140	213.620	6359.61	-359.80	-970.94	-759.35	1757640.25	433991.81	39°41'18.1216"N	80°21'40.3424"W	1232.62	218.028	1.59	1.41	2.03
6689.00	22.230	214.070	6417.48	-368.32	-990.54	-772.49	1757627.10	433972.21	39°41'17.9267"N	80°21'40.5081"W	1256.15	217.950	0.31	0.14	0.72
6764.00	24.940	217.280	6504.54	-380.84	-1021.37	-794.70	1757604.90	433941.38	39°41'17.6199"N	80°21'40.7883"W	1294.12	217.885	3.16	2.85	3.38
6859.00	25.010	214.850	6590.66	-393.85	-1053.79	-818.31	1757581.29	433908.96	39°41'17.2973"N	80°21'41.0863"W	1334.20	217.831	1.08	0.07	-2.55
6954.00	24.990	214.950	6676.76	-407.65	-1086.72	-841.28	1757558.32	433876.04	39°41'16.9697"N	80°21'41.3761"W	1374.30	217.745	0.05	-0.02	0.11
7049.00	24.970	215.220	6762.87	-421.32	-1119.55	-864.34	1757535.27	433843.21	39°41'16.6430"N	80°21'41.6670"W	1414.38	217.670	0.12	-0.02	0.28
7144.00	24.880	214.760	6849.03	-435.02	-1152.35	-887.29	1757512.31	433810.41	39°41'16.3167"N	80°21'41.9567"W	1454.37	217.596	0.22	-0.09	-0.48
7238.00	24.830	215.050	6934.32	-448.59	-1184.75	-909.90	1757489.70	433778.01	39°41'15.9944"N	80°21'42.2419"W	1493.84	217.525	0.14	-0.05	0.31
7333.00	24.980	215.170	7020.48	-462.20	-1217.48	-932.91	1757466.69	433745.29	39°41'15.6688"N	80°21'42.5321"W	1533.81	217.462	0.17	0.16	0.13
7428.00	25.130	215.720	7106.55	-475.67	-1250.25	-956.24	1757443.36	433712.51	39°41'15.3426"N	80°21'42.8265"W	1574.02	217.410	0.29	0.16	0.58
7523.00	25.040	231.280	7192.68	-483.64	-1279.24	-983.74	1757415.87	433683.53	39°41'15.0536"N	80°21'43.1746"W	1613.75	217.560	6.93	-0.09	16.38
7617.00	25.110	252.160	7277.99	-479.04	-1297.83	-1018.31	1757381.30	433664.94	39°41'14.8666"N	80°21'43.6146"W	1649.64	218.119	9.37	0.07	22.21
7712.00	27.610	270.840	7363.25	-460.17	-1303.69	-1059.59	1757340.03	433659.08	39°41'14.8047"N	80°21'44.1418"W	1679.98	219.103	9.08	2.63	19.66
7807.00	32.010	279.640	7445.70	-429.55	-1299.15	-1106.47	1757293.15	433663.62	39°41'14.8452"N	80°21'44.7420"W	1706.47	220.421	6.52	4.63	9.26

Date: 11/13/2024  
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# Actual Wellpath Report

WDTN-18B-HSM AWP Proj: 28407'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18B-HSM
Field	Monongalia	API	47-061-01945-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18B-HSM AWB
Slot	Slot B		

WELLPATH DATA (307 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]
7902.00	37.040	290.450	7524.02	-388.23	-1284.91	-1158.18	1757241.44	433677.86	39°41'14.9810"N	80°21'45.4052"W	1729.85	222.031	8.33	5.29	11.38
7997.00	44.470	300.860	7596.01	-334.16	-1257.78	-1213.70	1757185.93	433704.99	39°41'15.2439"N	80°21'46.1186"W	1747.87	223.978	10.58	7.82	10.96
8091.00	48.640	307.550	7660.68	-270.40	-1219.35	-1269.99	1757129.64	433743.42	39°41'15.6183"N	80°21'46.8433"W	1760.59	226.165	6.81	4.44	7.12
8186.00	56.050	310.290	7718.68	-198.16	-1172.07	-1328.40	1757071.23	433790.69	39°41'16.0800"N	80°21'47.5962"W	1771.55	228.578	8.13	7.80	2.88
8281.00	61.400	311.580	7767.98	-119.43	-1118.87	-1389.70	1757009.94	433843.89	39°41'16.5999"N	80°21'48.3868"W	1784.13	231.162	5.75	5.63	1.36
8376.00	68.360	315.440	7808.30	-35.19	-1059.64	-1451.97	1756947.67	433903.11	39°41'17.1793"N	80°21'49.1906"W	1797.51	233.878	8.20	7.33	4.06
8470.00	74.930	316.380	7837.89	52.86	-995.59	-1514.00	1756885.64	433967.16	39°41'17.8064"N	80°21'49.9919"W	1812.01	236.672	7.05	6.99	1.00
8565.00	81.630	320.920	7857.18	145.23	-925.79	-1575.37	1756824.28	434036.96	39°41'18.4904"N	80°21'50.7854"W	1827.26	239.559	8.46	7.05	4.78
8660.00	88.370	327.330	7865.47	239.75	-849.17	-1630.74	1756768.90	434113.57	39°41'19.2423"N	80°21'51.5032"W	1838.59	242.493	9.77	7.09	6.75
8754.00	89.880	324.130	7866.90	333.72	-771.51	-1683.66	1756715.99	434191.22	39°41'20.0047"N	80°21'52.1896"W	1852.01	245.381	3.76	1.61	-3.40
8849.00	90.000	324.600	7867.00	428.71	-694.30	-1739.01	1756660.65	434268.43	39°41'20.7625"N	80°21'52.9070"W	1872.49	248.236	0.51	0.13	0.49
8943.00	90.060	324.030	7866.95	522.71	-617.95	-1793.84	1756605.82	434344.77	39°41'21.5118"N	80°21'53.6178"W	1897.30	250.992	0.61	0.06	-0.61
9038.00	89.940	324.330	7866.95	617.70	-540.92	-1849.44	1756550.22	434421.80	39°41'22.2678"N	80°21'54.3384"W	1926.92	253.697	0.34	-0.13	0.32
9132.00	89.780	323.620	7867.18	711.68	-464.90	-1904.72	1756494.94	434497.82	39°41'23.0138"N	80°21'55.0549"W	1960.64	256.284	0.77	-0.17	-0.76
9227.00	89.880	324.270	7867.46	806.66	-388.10	-1960.64	1756439.03	434574.62	39°41'23.7675"N	80°21'55.7796"W	1998.68	258.803	0.69	0.11	0.68
9321.00	91.140	324.240	7866.63	900.65	-311.81	-2015.55	1756384.13	434650.90	39°41'24.5162"N	80°21'56.4913"W	2039.52	261.206	1.34	1.34	-0.03
9416.00	91.290	324.170	7864.61	995.62	-234.77	-2071.10	1756328.58	434727.93	39°41'25.2723"N	80°21'57.2114"W	2084.36	263.533	0.17	0.16	-0.07
9510.00	91.170	324.320	7862.59	1089.59	-158.50	-2126.01	1756273.67	434804.19	39°41'26.0207"N	80°21'57.9232"W	2131.91	265.736	0.20	-0.13	0.16
9605.00	91.230	324.310	7860.60	1184.56	-81.36	-2181.42	1756218.27	434881.34	39°41'26.7779"N	80°21'58.6414"W	2182.93	267.864	0.06	0.06	-0.01
9699.00	91.230	323.090	7858.59	1278.52	-5.62	-2237.05	1756162.63	434957.07	39°41'27.5210"N	80°21'59.3624"W	2237.06	269.856	1.30	0.00	-1.30
9794.00	91.170	324.430	7856.60	1373.47	70.98	-2293.20	1756106.49	435033.67	39°41'28.2727"N	80°22'0.0901"W	2294.30	271.773	1.41	-0.06	1.41
9888.00	91.200	324.040	7854.65	1467.44	147.24	-2348.13	1756051.57	435109.92	39°41'29.0211"N	80°22'0.8021"W	2352.74	273.588	0.42	0.03	-0.41
9982.00	91.230	324.130	7852.66	1561.41	223.35	-2403.25	1755996.44	435186.03	39°41'29.7680"N	80°22'1.5166"W	2413.61	275.310	0.10	0.03	0.10
10077.00	91.290	324.430	7850.57	1656.38	300.46	-2458.70	1755941.00	435263.13	39°41'30.5248"N	80°22'2.2354"W	2476.99	276.967	0.32	0.06	0.32
10172.00	91.290	324.570	7848.43	1751.35	377.78	-2513.86	1755885.85	435340.45	39°41'31.2837"N	80°22'2.9504"W	2542.08	278.546	0.15	0.00	0.15
10266.00	91.230	324.670	7846.37	1845.33	454.41	-2568.27	1755831.44	435417.07	39°41'32.0357"N	80°22'3.6559"W	2608.16	280.034	0.12	-0.06	0.11
10361.00	91.260	324.320	7844.30	1940.30	531.72	-2623.43	1755776.28	435494.38	39°41'32.7945"N	80°22'4.3710"W	2676.77	281.458	0.37	0.03	-0.37
10455.00	91.170	324.080	7842.31	2034.27	607.95	-2678.40	1755721.31	435570.60	39°41'33.5426"N	80°22'5.0837"W	2746.53	282.788	0.27	-0.10	-0.26
10550.00	91.200	324.310	7840.34	2129.24	684.98	-2733.97	1755665.75	435647.62	39°41'34.2985"N	80°22'5.8040"W	2818.47	284.066	0.24	0.03	0.24
10645.00	91.140	324.630	7838.40	2224.22	762.27	-2789.16	1755610.56	435724.92	39°41'35.0571"N	80°22'6.5196"W	2891.45	285.286	0.34	-0.06	0.34

Approved by: [Signature]  
 Date: 11/15/2024  
 NSU 1 & 2024



# Actual Wellpath Report

WDTN-18B-HSM AWP Proj: 28407'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18B-HSM
Field	Monongalia	API	47-061-01945-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18B-HSM AWB
Slot	Slot B		

WELLPATH DATA (307 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]
10740.00	91.290	325.600	7836.39	2319.19	840.18	-2843.48	1755556.24	435802.82	39°41'35.8219"N	80°22'7.2240"W	2965.01	286.461	1.03	0.16	1.02
10835.00	91.170	325.400	7834.35	2414.17	918.46	-2897.28	1755502.45	435881.09	39°41'36.5903"N	80°22'7.9219"W	3039.37	287.589	0.25	-0.13	-0.21
10929.00	91.290	325.880	7832.33	2508.14	996.04	-2950.32	1755449.41	435958.67	39°41'37.3519"N	80°22'8.6099"W	3113.92	288.655	0.53	0.13	0.51
11024.00	91.170	325.540	7830.29	2603.11	1074.51	-3003.83	1755395.90	436037.13	39°41'38.1223"N	80°22'9.3041"W	3190.23	289.683	0.38	-0.13	-0.36
11119.00	91.200	325.540	7828.33	2698.09	1152.82	-3057.57	1755342.16	436115.44	39°41'38.8911"N	80°22'10.0013"W	3267.68	290.658	0.03	0.03	0.00
11214.00	91.260	325.650	7826.29	2793.06	1231.18	-3111.24	1755288.50	436193.80	39°41'39.6603"N	80°22'10.6975"W	3345.98	291.590	0.13	0.06	0.12
11309.00	91.170	325.820	7824.27	2888.03	1309.68	-3164.71	1755235.03	436272.29	39°41'40.4310"N	80°22'11.3912"W	3425.01	292.482	0.20	-0.09	0.18
11404.00	91.290	325.800	7822.24	2983.00	1388.24	-3218.09	1755181.66	436350.85	39°41'41.2023"N	80°22'12.0837"W	3504.75	293.335	0.13	0.13	-0.02
11499.00	91.320	325.490	7820.07	3077.97	1466.65	-3271.68	1755128.07	436429.25	39°41'41.9720"N	80°22'12.7790"W	3585.38	294.146	0.33	0.03	-0.33
11594.00	91.140	325.260	7818.03	3172.94	1544.80	-3325.65	1755074.10	436507.40	39°41'42.7392"N	80°22'13.4790"W	3666.93	294.915	0.31	-0.19	-0.24
11688.00	91.200	325.260	7816.11	3266.92	1622.03	-3379.20	1755020.55	436584.62	39°41'43.4973"N	80°22'14.1737"W	3748.33	295.641	0.06	0.06	0.00
11783.00	91.390	325.690	7813.97	3361.89	1700.28	-3433.03	1754966.73	436662.87	39°41'44.2654"N	80°22'14.8720"W	3831.01	296.348	0.49	0.20	0.45
11878.00	91.230	325.450	7811.79	3456.86	1778.62	-3486.73	1754913.03	436741.20	39°41'45.0345"N	80°22'15.5686"W	3914.18	297.027	0.30	-0.17	-0.25
11972.00	91.110	325.950	7809.87	3550.84	1856.25	-3539.69	1754860.07	436818.83	39°41'45.7966"N	80°22'16.2557"W	3996.89	297.673	0.55	-0.13	0.53
12067.00	91.420	324.030	7807.78	3645.81	1934.04	-3594.18	1754805.59	436896.61	39°41'46.5602"N	80°22'16.9624"W	4081.50	298.285	2.05	0.33	-2.02
12162.00	91.420	325.300	7805.42	3740.78	2011.52	-3649.10	1754750.67	436974.08	39°41'47.3205"N	80°22'17.6746"W	4166.79	298.865	1.34	0.00	1.34
12257.00	91.540	325.600	7802.97	3835.74	2089.73	-3702.96	1754696.81	437052.30	39°41'48.0884"N	80°22'18.3733"W	4251.93	299.438	0.34	0.13	0.32
12351.00	91.480	325.600	7800.49	3929.70	2167.27	-3756.05	1754643.73	437129.83	39°41'48.8495"N	80°22'19.0621"W	4336.47	299.985	0.06	-0.06	0.00
12446.00	91.420	325.040	7798.09	4024.67	2245.37	-3810.09	1754589.69	437207.92	39°41'49.6161"N	80°22'19.7630"W	4422.49	300.512	0.59	-0.06	-0.59
12540.00	90.980	325.300	7796.12	4118.65	2322.51	-3863.76	1754536.02	437285.06	39°41'50.3733"N	80°22'20.4592"W	4508.07	301.010	0.54	-0.47	0.28
12635.00	90.860	324.540	7794.59	4213.64	2400.24	-3918.35	1754481.43	437362.79	39°41'51.1363"N	80°22'21.1672"W	4595.07	301.490	0.81	-0.13	-0.80
12730.00	90.890	325.050	7793.14	4308.63	2477.86	-3973.12	1754426.67	437440.40	39°41'51.8981"N	80°22'21.8774"W	4682.46	301.950	0.54	0.03	0.54
12824.00	91.020	325.540	7791.58	4402.61	2555.12	-4026.63	1754373.17	437517.66	39°41'52.6565"N	80°22'22.5716"W	4768.90	302.397	0.54	0.14	0.52
12919.00	90.950	325.300	7789.94	4497.59	2633.33	-4080.54	1754319.26	437595.86	39°41'53.4242"N	80°22'23.2709"W	4856.46	302.836	0.26	-0.07	-0.25
13014.00	90.890	325.250	7788.42	4592.58	2711.40	-4134.65	1754265.15	437673.92	39°41'54.1905"N	80°22'23.9728"W	4944.39	303.256	0.08	-0.06	-0.05
13108.00	90.920	324.700	7786.93	4686.57	2788.36	-4188.59	1754211.21	437750.88	39°41'54.9460"N	80°22'24.6725"W	5031.82	303.652	0.59	0.03	-0.59
13203.00	91.020	325.010	7785.33	4781.56	2866.03	-4243.27	1754156.54	437828.55	39°41'55.7083"N	80°22'25.3816"W	5120.49	304.036	0.34	0.11	0.33
13298.00	90.620	325.920	7783.97	4876.54	2944.28	-4297.12	1754102.69	437906.79	39°41'56.4764"N	80°22'26.0802"W	5209.03	304.418	1.05	-0.42	0.96
13392.00	90.490	325.610	7783.06	4970.53	3021.99	-4350.00	1754049.82	437984.50	39°41'57.2393"N	80°22'26.7664"W	5296.69	304.788	0.36	-0.14	-0.33
13487.00	90.430	325.250	7782.29	5065.52	3100.22	-4403.90	1753995.92	438062.72	39°41'58.0072"N	80°22'27.4657"W	5385.69	305.144	0.38	-0.06	-0.38

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# Actual Wellpath Report

WDTN-18B-HSM AWP Proj: 28407'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18B-HSM
Field	Monongalia	API	47-061-01945-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18B-HSM AWB
Slot	Slot B		

WELLPATH DATA (307 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]
13582.00	90.740	326.590	7781.32	5160.50	3178.89	-4457.13	1753942.69	438141.39	39°41'58.7796"N	80°22'28.1564"W	5474.61	305.497	1.45	0.33	1.41
13677.00	90.890	324.980	7779.97	5255.48	3257.44	-4510.54	1753889.28	438219.94	39°41'59.5507"N	80°22'28.8495"W	5563.80	305.836	1.70	0.16	-1.69
13771.00	90.950	325.420	7778.46	5349.47	3334.62	-4564.18	1753835.65	438297.11	39°42'0.3083"N	80°22'29.5453"W	5652.56	306.152	0.47	0.06	0.47
13866.00	91.050	325.590	7776.80	5444.45	3412.91	-4617.97	1753781.85	438375.39	39°42'1.0768"N	80°22'30.2433"W	5742.27	306.466	0.21	0.11	0.18
13961.00	90.370	325.320	7775.63	5539.44	3491.15	-4671.84	1753727.99	438453.63	39°42'1.8448"N	80°22'30.9421"W	5832.17	306.770	0.77	-0.72	-0.28
14056.00	90.460	325.570	7774.94	5634.43	3569.39	-4725.72	1753674.11	438531.86	39°42'2.6128"N	80°22'31.6412"W	5922.24	307.064	0.28	0.09	0.26
14151.00	90.460	325.350	7774.18	5729.43	3647.64	-4779.58	1753620.26	438610.11	39°42'3.3810"N	80°22'32.3400"W	6012.46	307.350	0.23	0.00	-0.23
14245.00	90.490	325.560	7773.40	5823.42	3725.06	-4832.89	1753566.96	438687.53	39°42'4.1410"N	80°22'33.0315"W	6101.87	307.624	0.23	0.03	0.22
14340.00	90.490	325.990	7772.58	5918.41	3803.61	-4886.32	1753513.53	438766.07	39°42'4.9120"N	80°22'33.7249"W	6192.21	307.898	0.45	0.00	0.45
14435.00	90.490	325.580	7771.77	6013.40	3882.16	-4939.73	1753460.12	438844.62	39°42'5.6832"N	80°22'34.4180"W	6282.69	308.164	0.43	0.00	-0.43
14530.00	90.460	325.250	7770.98	6108.39	3960.37	-4993.65	1753406.20	438922.82	39°42'6.4509"N	80°22'35.1176"W	6373.47	308.417	0.35	-0.03	-0.35
14624.00	90.430	325.100	7770.25	6202.39	4037.54	-5047.33	1753352.52	438999.98	39°42'7.2083"N	80°22'35.8140"W	6463.53	308.658	0.16	-0.03	-0.16
14719.00	90.520	325.580	7769.47	6297.38	4115.67	-5101.36	1753298.50	439078.11	39°42'7.9753"N	80°22'36.5149"W	6554.59	308.896	0.51	0.09	0.51
14814.00	90.710	324.940	7768.45	6392.37	4193.73	-5155.49	1753244.37	439156.17	39°42'8.7415"N	80°22'37.2172"W	6645.79	309.127	0.70	0.20	-0.67
14908.00	90.860	324.940	7767.16	6486.37	4270.67	-5209.48	1753190.38	439233.10	39°42'9.4966"N	80°22'37.9175"W	6736.27	309.344	0.16	0.16	0.00
15003.00	90.830	324.270	7765.76	6581.35	4348.10	-5264.50	1753135.37	439310.53	39°42'10.2566"N	80°22'38.6311"W	6827.96	309.554	0.71	-0.03	-0.71
15098.00	90.980	324.600	7764.26	6676.34	4425.37	-5319.75	1753080.12	439387.79	39°42'11.0149"N	80°22'39.3475"W	6919.80	309.756	0.38	0.16	0.35
15193.00	90.710	322.840	7762.86	6771.30	4501.94	-5375.96	1753023.92	439464.36	39°42'11.7661"N	80°22'40.0762"W	7012.02	309.944	1.87	-0.28	-1.85
15288.00	90.280	323.840	7762.04	6866.25	4578.15	-5432.67	1752967.21	439540.56	39°42'12.5138"N	80°22'40.8113"W	7104.46	310.121	1.15	-0.45	1.05
15382.00	89.600	323.670	7762.13	6960.23	4653.96	-5488.25	1752911.63	439616.37	39°42'13.2576"N	80°22'41.5318"W	7195.85	310.297	0.75	-0.72	-0.18
15477.00	89.850	324.460	7762.59	7055.22	4730.88	-5544.00	1752855.88	439693.28	39°42'14.0123"N	80°22'42.2547"W	7288.15	310.475	0.87	0.26	0.83
15572.00	89.690	323.990	7762.97	7150.21	4807.95	-5598.54	1752800.35	439770.35	39°42'14.7687"N	80°22'42.9749"W	7380.46	310.650	0.52	-0.17	-0.49
15667.00	90.150	324.680	7763.10	7245.20	4885.13	-5654.93	1752744.97	439847.53	39°42'15.5261"N	80°22'43.6932"W	7472.80	310.823	0.87	0.48	0.73
15761.00	90.000	323.810	7762.98	7339.19	4961.42	-5709.85	1752690.04	439923.80	39°42'16.2746"N	80°22'44.4054"W	7564.26	310.988	0.94	-0.16	-0.93
15856.00	90.030	324.140	7762.96	7434.17	5038.25	-5765.73	1752634.17	440000.63	39°42'17.0285"N	80°22'45.1298"W	7656.86	311.148	0.35	0.03	0.35
15951.00	90.120	324.540	7762.83	7529.17	5115.43	-5821.11	1752578.80	440077.81	39°42'17.7859"N	80°22'45.8481"W	7749.38	311.308	0.43	0.09	0.42
16045.00	90.060	323.890	7762.68	7623.16	5191.69	-5876.07	1752523.83	440154.06	39°42'18.5342"N	80°22'46.5608"W	7841.04	311.462	0.69	-0.06	-0.69
16140.00	90.090	324.300	7762.56	7718.15	5268.64	-5931.79	1752468.12	440231.01	39°42'19.2893"N	80°22'47.2832"W	7933.76	311.612	0.43	0.03	0.43
16235.00	90.060	324.140	7762.44	7813.14	5345.71	-5987.33	1752412.58	440308.07	39°42'20.0455"N	80°22'48.0035"W	8026.50	311.760	0.17	-0.03	-0.17
16329.00	90.120	324.410	7762.29	7907.13	5422.02	-6042.22	1752357.70	440384.38	39°42'20.7944"N	80°22'48.7153"W	8118.29	311.903	0.29	0.06	0.29





# Actual Wellpath Report

WDTN-18B-HSM AWP Proj: 28407'  
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REFERENCE WELLPATH IDENTIFICATION				
Operator	CNX GAS CO, LLC		Well	WDTN-18B-HSM
Field	Monongalia		API	47-061-01945-0000
Facility	WDTN-18 Pad		Wellbore	WDTN-18B-HSM AWB
Slot	Slot B			

WELLPATH DATA (307 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]
16424.00	90.090	324.420	7762.11	8002.12	5499.28	-6097.50	1752302.42	440461.63	39°42'21.5525"N	80°22'49.4323"W	8211.06	312.047	0.03	-0.03	0.01
16519.00	90.090	324.320	7761.96	8097.12	5576.49	-6152.84	1752247.08	440538.84	39°42'22.3103"N	80°22'50.1500"W	8303.90	312.187	0.11	0.00	-0.11
16614.00	90.000	323.660	7761.89	8192.10	5653.34	-6208.69	1752191.24	440615.69	39°42'23.0643"N	80°22'50.8742"W	8396.91	312.320	0.70	-0.09	-0.69
16709.00	89.970	323.950	7761.91	8287.08	5730.01	-6264.79	1752135.14	440692.35	39°42'23.8165"N	80°22'51.6016"W	8490.03	312.447	0.31	-0.03	0.31
16803.00	90.060	325.600	7761.89	8381.08	5806.79	-6319.01	1752080.92	440769.13	39°42'24.5701"N	80°22'52.3049"W	8581.88	312.581	1.76	0.10	1.76
16898.00	89.880	325.090	7761.94	8476.08	5884.94	-6373.03	1752026.91	440847.27	39°42'25.3371"N	80°22'53.0058"W	8674.56	312.720	0.57	-0.19	-0.54
16993.00	89.780	324.740	7762.22	8571.08	5962.67	-6427.63	1751972.31	440925.00	39°42'26.1001"N	80°22'53.7142"W	8767.44	312.851	0.38	-0.11	-0.37
17088.00	89.910	325.450	7762.48	8666.07	6040.58	-6481.99	1751917.95	441002.91	39°42'26.8647"N	80°22'54.4195"W	8860.30	312.981	0.76	0.14	0.75
17182.00	89.750	324.880	7762.76	8760.07	6117.74	-6535.69	1751864.26	441080.06	39°42'27.6220"N	80°22'55.1161"W	8952.20	313.108	0.63	-0.17	-0.61
17277.00	89.850	325.190	7763.09	8855.07	6195.59	-6590.13	1751809.82	441157.90	39°42'28.3861"N	80°22'55.8225"W	9045.17	313.233	0.34	0.11	0.33
17372.00	89.780	325.170	7763.40	8950.07	6273.58	-6644.37	1751755.58	441235.89	39°42'29.1516"N	80°22'56.5263"W	9138.13	313.356	0.08	-0.07	-0.02
17466.00	89.820	325.130	7763.72	9044.07	6350.72	-6698.09	1751701.87	441313.03	39°42'29.9087"N	80°22'57.2232"W	9230.17	313.475	0.06	0.04	-0.04
17561.00	89.850	325.350	7764.00	9139.07	6428.77	-6752.25	1751647.71	441391.07	39°42'30.6747"N	80°22'57.9260"W	9323.19	313.594	0.23	0.03	0.23
17656.00	89.910	325.520	7764.20	9234.07	6507.00	-6806.15	1751593.81	441469.29	39°42'31.4426"N	80°22'58.6254"W	9416.19	313.713	0.19	0.06	0.18
17751.00	89.910	325.520	7764.35	9329.06	6585.31	-6859.93	1751540.04	441547.60	39°42'32.2113"N	80°22'59.3234"W	9509.20	313.830	0.00	0.00	0.00
17846.00	89.880	325.400	7764.52	9424.06	6663.56	-6913.79	1751486.18	441625.85	39°42'32.9794"N	80°23'0.0224"W	9602.27	313.944	0.13	-0.03	-0.13
17940.00	89.850	325.180	7764.74	9518.06	6740.83	-6967.32	1751432.65	441703.12	39°42'33.7379"N	80°23'0.7169"W	9694.45	314.053	0.24	-0.03	-0.23
18035.00	89.850	325.600	7764.99	9613.06	6819.02	-7021.28	1751378.70	441781.30	39°42'34.5053"N	80°23'1.4172"W	9787.61	314.163	0.44	0.00	0.44
18130.00	89.880	325.290	7765.21	9708.05	6897.26	-7075.16	1751324.82	441859.53	39°42'35.2733"N	80°23'2.1164"W	9880.80	314.271	0.33	0.03	-0.33
18225.00	89.820	324.950	7765.46	9803.05	6975.20	-7129.49	1751270.50	441937.46	39°42'36.0382"N	80°23'2.8213"W	9974.11	314.373	0.36	-0.06	-0.36
18319.00	90.180	324.870	7765.46	9897.05	7052.11	-7183.52	1751216.46	442014.37	39°42'36.7930"N	80°23'3.5224"W	10066.54	314.471	0.39	0.38	-0.09
18414.00	90.150	325.130	7765.19	9992.05	7129.93	-7238.01	1751161.98	442092.19	39°42'37.5568"N	80°23'4.2294"W	10159.96	314.569	0.28	-0.03	0.27
18509.00	90.250	325.400	7764.86	10087.05	7208.00	-7292.14	1751107.85	442170.25	39°42'38.3230"N	80°23'4.9318"W	10253.32	314.668	0.30	0.11	0.28
18603.00	90.120	325.060	7764.55	10181.05	7285.22	-7345.75	1751054.25	442247.46	39°42'39.0809"N	80°23'5.6274"W	10345.74	314.763	0.39	-0.14	-0.36
18698.00	90.180	325.120	7764.31	10276.05	7363.12	-7400.12	1750999.88	442325.36	39°42'39.8455"N	80°23'6.3329"W	10439.22	314.856	0.09	0.06	0.06
18793.00	90.220	325.270	7763.97	10371.05	7441.12	-7454.34	1750945.66	442403.36	39°42'40.6111"N	80°23'7.0365"W	10532.69	314.949	0.16	0.04	0.16
18888.00	90.220	325.160	7763.61	10466.04	7519.15	-7508.54	1750891.47	442481.38	39°42'41.3769"N	80°23'7.7398"W	10626.18	315.040	0.12	0.00	-0.12
18983.00	90.150	325.100	7763.30	10561.04	7597.09	-7562.85	1750837.16	442559.32	39°42'42.1419"N	80°23'8.4445"W	10719.72	315.129	0.10	-0.07	-0.06
19078.00	90.150	325.050	7763.05	10656.04	7674.98	-7617.24	1750782.77	442637.21	39°42'42.9063"N	80°23'9.1503"W	10813.31	315.216	0.05	0.00	-0.05
19172.00	90.280	325.210	7762.70	10750.04	7752.10	-7670.98	1750729.04	442714.32	39°42'43.6632"N	80°23'9.8476"W	10905.92	315.301	0.22	0.14	0.17

*Handwritten notes:*  
 1750729.04  
 442714.32  
 39°42'43.6632"N  
 80°23'9.8476"W



# Actual Wellpath Report

WDTN-18B-HSM AWP Proj: 28407'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18B-HSM
Field	Monongalia	API	47-061-01945-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18B-HSM AWB
Slot	Slot B		

WELLPATH DATA (307 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]
19267.00	90.310	325.480	7762.21	10845.04	7830.25	-7725.00	1750675.02	442792.46	39°42'44.4302"N	80°23'10.5487"W	10999.47	315.388	0.29	0.03	0.28
19362.00	90.250	325.530	7761.75	10940.03	7908.54	-7778.80	1750621.22	442870.75	39°42'45.1988"N	80°23'11.2469"W	11093.00	315.474	0.08	-0.06	0.05
19457.00	90.150	324.940	7761.42	11035.03	7986.58	-7832.97	1750567.06	442948.79	39°42'45.9647"N	80°23'11.9499"W	11186.64	315.556	0.63	-0.11	-0.62
19552.00	90.090	324.970	7761.22	11130.03	8064.36	-7887.52	1750512.51	443026.56	39°42'46.7280"N	80°23'12.6577"W	11280.38	315.635	0.07	-0.06	0.03
19646.00	90.120	325.240	7761.04	11224.03	8141.46	-7941.29	1750458.74	443103.66	39°42'47.4847"N	80°23'13.3555"W	11373.10	315.713	0.29	0.03	0.29
19741.00	89.910	325.420	7761.02	11319.03	8219.59	-7995.33	1750404.70	443181.78	39°42'48.2516"N	80°23'14.0569"W	11466.78	315.792	0.29	-0.22	0.19
19836.00	89.750	324.920	7761.30	11414.03	8297.57	-8049.59	1750350.45	443259.76	39°42'49.0169"N	80°23'14.7610"W	11560.52	315.869	0.55	-0.17	-0.53
19931.00	89.820	323.070	7761.66	11509.01	8374.42	-8105.44	1750294.61	443336.60	39°42'49.7709"N	80°23'15.4852"W	11654.57	315.935	1.95	0.07	-1.95
20026.00	89.970	325.830	7761.83	11604.00	8451.70	-8160.66	1750239.38	443413.88	39°42'50.5293"N	80°23'16.2017"W	11748.52	316.004	2.91	0.16	2.91
20120.00	90.150	325.760	7761.73	11697.99	8529.45	-8213.51	1750186.54	443491.62	39°42'51.2924"N	80°23'16.8876"W	11841.16	316.081	0.21	0.19	-0.07
20215.00	89.820	320.090	7761.76	11792.89	8605.21	-8270.76	1750129.30	443567.38	39°42'52.0355"N	80°23'17.6297"W	11935.45	316.135	5.98	-0.35	-5.97
20310.00	89.970	323.570	7761.93	11887.73	8679.89	-8329.46	1750070.60	443642.05	39°42'52.7678"N	80°23'18.3903"W	12029.97	316.180	3.67	0.16	3.66
20404.00	90.030	325.760	7761.93	11981.72	8756.56	-8383.82	1750016.24	443718.72	39°42'53.5203"N	80°23'19.0956"W	12122.95	316.246	2.33	0.06	2.33
20499.00	89.720	325.520	7762.14	12076.71	8834.99	-8437.43	1749962.63	443797.14	39°42'54.2900"N	80°23'19.7916"W	12216.68	316.319	0.41	-0.33	-0.25
20594.00	89.510	324.840	7762.78	12171.71	8912.98	-8491.68	1749908.39	443875.13	39°42'55.0554"N	80°23'20.4955"W	12310.55	316.387	0.75	-0.22	-0.72
20689.00	89.660	325.260	7763.47	12266.71	8990.84	-8546.10	1749853.97	443952.99	39°42'55.8196"N	80°23'21.2018"W	12404.48	316.453	0.47	0.16	0.44
20783.00	90.090	325.590	7763.67	12360.70	9068.24	-8599.44	1749800.63	444030.38	39°42'56.5793"N	80°23'21.8941"W	12497.33	316.520	0.58	0.46	0.35
20878.00	90.120	325.400	7763.50	12455.70	9146.52	-8653.26	1749746.82	444108.66	39°42'57.3477"N	80°23'22.5927"W	12591.18	316.587	0.20	0.03	-0.20
20972.00	90.000	325.310	7763.40	12549.70	9223.86	-8706.70	1749693.38	444185.99	39°42'58.1067"N	80°23'23.2862"W	12684.09	316.652	0.16	-0.13	-0.10
21067.00	90.310	325.400	7763.14	12644.69	9302.01	-8760.70	1749639.38	444264.14	39°42'58.8738"N	80°23'23.9872"W	12778.00	316.717	0.34	0.33	0.09
21161.00	90.370	325.430	7762.58	12738.69	9379.40	-8814.06	1749586.03	444341.52	39°42'59.6333"N	80°23'24.6797"W	12870.93	316.780	0.07	0.06	0.03
21256.00	90.680	325.220	7761.71	12833.68	9457.52	-8868.10	1749531.98	444419.64	39°43'0.4001"N	80°23'25.3812"W	12964.88	316.842	0.39	0.33	-0.22
21351.00	90.650	325.330	7760.61	12928.68	9535.60	-8922.21	1749477.88	444497.71	39°43'1.1664"N	80°23'26.0835"W	13058.85	316.903	0.12	-0.03	0.12
21446.00	90.650	325.140	7759.53	13023.67	9613.64	-8976.38	1749423.71	444575.74	39°43'1.9323"N	80°23'26.7865"W	13152.85	316.963	0.20	0.00	-0.20
21541.00	90.650	325.290	7758.46	13118.66	9691.65	-9030.58	1749369.52	444653.76	39°43'2.6980"N	80°23'27.4899"W	13246.87	317.022	0.16	0.00	0.16
21635.00	90.550	325.100	7757.47	13212.66	9768.83	-9084.23	1749315.87	444730.93	39°43'3.4554"N	80°23'28.1862"W	13339.91	317.080	0.23	-0.11	-0.20
21730.00	90.740	325.400	7756.40	13307.65	9846.89	-9138.37	1749261.73	444808.98	39°43'4.2215"N	80°23'28.8890"W	13433.95	317.137	0.37	0.20	0.32
21825.00	90.520	325.310	7755.36	13402.64	9925.04	-9192.38	1749207.73	444887.12	39°43'4.9885"N	80°23'29.5900"W	13527.97	317.195	0.25	-0.23	-0.09
21920.00	90.340	325.390	7754.64	13497.64	10003.18	-9246.39	1749153.72	444965.27	39°43'5.7555"N	80°23'30.2910"W	13622.02	317.251	0.21	-0.19	0.08
22015.00	90.090	325.550	7754.29	13592.63	10081.45	-9300.24	1749099.88	445043.53	39°43'6.5237"N	80°23'30.9900"W	13716.05	317.308	0.31	-0.26	0.17

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AWP Proj: 28407'  
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# Actual Wellpath Report

WDTN-18B-HSM AWP Proj: 28407'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18B-HSM
Field	Monongalia	API	47-061-01945-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18B-HSM AWB
Slot	Slot B		

WELLPATH DATA (307 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]
22110.00	90.030	324.000	7754.19	13687.63	10159.05	-9355.03	1749045.09	445121.12	39°43'7.2852"N	80°23'31.7011"W	13810.25	317.359	1.63	-0.06	-1.63
22204.00	90.180	322.610	7754.02	13781.59	10234.42	-9411.20	1748988.92	445196.49	39°43'8.0245"N	80°23'32.4294"W	13903.74	317.399	1.49	0.16	-1.48
22299.00	90.000	324.230	7753.87	13876.55	10310.70	-9467.81	1748932.31	445272.77	39°43'8.7728"N	80°23'33.1635"W	13998.22	317.440	1.72	-0.19	1.71
22394.00	90.030	322.910	7753.84	13971.52	10387.14	-9524.22	1748875.90	445349.20	39°43'9.5227"N	80°23'33.8951"W	14092.68	317.482	1.39	0.03	-1.39
22488.00	90.120	325.070	7753.72	14065.50	10463.17	-9579.49	1748820.64	445425.23	39°43'10.2686"N	80°23'34.6120"W	14186.07	317.525	2.30	0.10	2.30
22583.00	90.250	325.680	7753.41	14160.49	10541.35	-9633.46	1748766.67	445503.40	39°43'11.0359"N	80°23'35.3126"W	14280.18	317.577	0.66	0.14	0.64
22678.00	90.090	325.230	7753.13	14255.49	10619.59	-9687.33	1748712.80	445581.64	39°43'11.8036"N	80°23'36.0119"W	14374.29	317.629	0.50	-0.17	-0.47
22772.00	90.220	325.450	7752.88	14349.49	10696.91	-9740.79	1748659.35	445658.95	39°43'12.5627"N	80°23'36.7059"W	14467.45	317.678	0.27	0.14	0.23
22867.00	90.310	325.170	7752.44	14444.48	10775.03	-9794.86	1748605.28	445737.06	39°43'13.3293"N	80°23'37.4077"W	14561.61	317.728	0.31	0.09	-0.29
22962.00	90.430	325.010	7751.82	14539.48	10852.93	-9849.23	1748550.92	445814.96	39°43'14.0939"N	80°23'38.1133"W	14655.83	317.776	0.21	0.13	-0.17
23057.00	90.340	325.200	7751.18	14634.48	10930.85	-9903.57	1748496.58	445892.87	39°43'14.8586"N	80°23'38.8187"W	14750.06	317.823	0.22	-0.09	0.20
23151.00	90.370	325.350	7750.60	14728.48	11008.10	-9957.12	1748443.04	445970.13	39°43'15.6168"N	80°23'39.5137"W	14843.26	317.870	0.16	0.03	0.16
23246.00	90.430	325.260	7749.94	14823.47	11086.21	-10011.19	1748388.97	446048.23	39°43'16.3833"N	80°23'40.2156"W	14937.47	317.917	0.11	0.06	-0.09
23341.00	90.370	325.230	7749.28	14918.47	11164.26	-10065.35	1748334.81	446126.27	39°43'17.1493"N	80°23'40.9186"W	15031.70	317.963	0.07	-0.06	-0.03
23435.00	90.370	325.040	7748.67	15012.47	11241.38	-10119.08	1748281.08	446203.39	39°43'17.9062"N	80°23'41.6160"W	15124.96	318.008	0.20	0.00	-0.20
23530.00	90.310	325.070	7748.11	15107.47	11319.25	-10173.49	1748226.67	446281.26	39°43'18.6704"N	80°23'42.3223"W	15219.25	318.052	0.07	-0.06	0.03
23625.00	90.400	325.250	7747.52	15202.46	11397.22	-10227.76	1748172.41	446359.22	39°43'19.4356"N	80°23'43.0267"W	15313.52	318.095	0.21	0.09	0.19
23719.00	90.370	325.470	7746.89	15296.46	11474.56	-10281.19	1748118.98	446436.55	39°43'20.1946"N	80°23'43.7203"W	15406.77	318.140	0.24	-0.03	0.23
23814.00	90.460	325.780	7746.20	15391.45	11552.97	-10334.83	1748065.35	446514.96	39°43'20.9642"N	80°23'44.4167"W	15500.96	318.185	0.34	0.09	0.33
23909.00	90.430	325.430	7745.46	15486.44	11631.36	-10388.49	1748011.69	446593.34	39°43'21.7336"N	80°23'45.1135"W	15595.17	318.231	0.37	-0.03	-0.37
24003.00	90.680	325.280	7744.55	15580.44	11708.68	-10441.93	1747958.25	446670.66	39°43'22.4925"N	80°23'45.8071"W	15688.44	318.273	0.31	0.27	-0.16
24098.00	90.680	325.290	7743.42	15675.43	11786.77	-10496.03	1747904.16	446748.74	39°43'23.2588"N	80°23'46.5094"W	15782.73	318.315	0.01	0.00	0.01
24193.00	90.740	325.600	7742.24	15770.42	11865.00	-10549.91	1747850.28	446826.97	39°43'24.0267"N	80°23'47.2089"W	15876.99	318.358	0.33	0.06	0.33
24287.00	90.580	325.210	7741.16	15864.41	11942.38	-10603.27	1747796.92	446904.34	39°43'24.7861"N	80°23'47.9017"W	15970.28	318.399	0.45	-0.17	-0.41
24382.00	90.680	325.320	7740.12	15959.40	12020.44	-10657.40	1747742.80	446982.40	39°43'25.5522"N	80°23'48.6044"W	16064.60	318.440	0.16	0.11	0.12
24477.00	90.680	325.380	7738.99	16054.40	12098.59	-10711.41	1747688.79	447060.54	39°43'26.3191"N	80°23'49.3055"W	16158.90	318.480	0.06	0.00	0.06
24572.00	90.370	325.220	7738.12	16149.39	12176.69	-10765.49	1747634.71	447138.64	39°43'27.0856"N	80°23'50.0076"W	16253.23	318.520	0.37	-0.33	-0.17
24666.00	90.460	325.440	7737.44	16243.39	12254.00	-10818.96	1747581.25	447215.94	39°43'27.8443"N	80°23'50.7017"W	16346.57	318.559	0.25	0.10	0.23
24761.00	90.460	325.560	7736.68	16338.38	12332.29	-10872.77	1747527.44	447294.23	39°43'28.6127"N	80°23'51.4003"W	16440.87	318.599	0.13	0.00	0.13
24856.00	90.310	325.190	7736.04	16433.37	12410.46	-10926.74	1747473.47	447372.40	39°43'29.3799"N	80°23'52.1011"W	16535.21	318.638	0.42	-0.16	-0.39

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# Actual Wellpath Report

WDTN-18B-HSM AWP Proj: 28407'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18B-HSM
Field	Monongalia	API	47-061-01945-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18B-HSM AWB
Slot	Slot B		

WELLPATH DATA (307 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]
24951.00	90.370	324.750	7735.47	16528.37	12488.25	-10981.27	1747418.94	447450.18	39°43'30.1433"N	80°23'52.8089"W	16629.63	318.674	0.47	0.06	-0.46
25046.00	90.460	325.510	7734.78	16623.37	12566.19	-11035.58	1747364.63	447528.12	39°43'30.9082"N	80°23'53.5139"W	16724.03	318.711	0.81	0.09	0.80
25140.00	90.400	325.210	7734.08	16717.36	12643.52	-11089.01	1747311.21	447605.45	39°43'31.6672"N	80°23'54.2076"W	16817.40	318.748	0.33	-0.06	-0.32
25235.00	90.800	325.330	7733.08	16812.36	12721.59	-11143.13	1747257.09	447683.51	39°43'32.4333"N	80°23'54.9102"W	16911.78	318.784	0.44	0.42	0.13
25330.00	91.480	325.530	7731.19	16907.34	12799.80	-11197.03	1747203.20	447761.72	39°43'33.2009"N	80°23'55.6099"W	17006.13	318.821	0.75	0.72	0.21
25425.00	90.520	324.610	7729.54	17002.32	12877.68	-11251.41	1747148.82	447839.59	39°43'33.9651"N	80°23'56.3159"W	17100.55	318.856	1.40	-1.01	-0.97
25519.00	90.580	324.320	7728.63	17096.31	12954.17	-11306.04	1747094.19	447916.07	39°43'34.7156"N	80°23'57.0248"W	17194.10	318.886	0.32	0.06	-0.31
25614.00	90.710	324.500	7727.58	17191.30	13031.41	-11361.33	1747038.91	447993.32	39°43'35.4736"N	80°23'57.7422"W	17288.65	318.917	0.23	0.14	0.19
25708.00	90.680	324.680	7726.42	17285.29	13108.02	-11415.79	1746984.45	448069.92	39°43'36.2252"N	80°23'58.4490"W	17382.19	318.947	0.19	-0.03	0.19
25803.00	90.520	324.910	7725.43	17380.28	13185.64	-11470.55	1746929.69	448147.53	39°43'36.9869"N	80°23'59.1598"W	17476.69	318.979	0.29	-0.17	0.24
25897.00	90.430	324.700	7724.65	17474.28	13262.46	-11524.73	1746875.52	448224.34	39°43'37.7406"N	80°23'59.8630"W	17570.21	319.010	0.24	-0.10	-0.22
26087.00	90.310	324.440	7723.42	17664.27	13417.27	-11634.87	1746765.38	448379.15	39°43'39.2597"N	80°24'1.2924"W	17759.32	319.070	0.15	-0.06	-0.14
26181.00	90.490	324.600	7722.77	17758.27	13493.81	-11689.43	1746710.83	448455.68	39°43'40.0107"N	80°24'2.0005"W	17852.89	319.098	0.26	0.19	0.17
26276.00	90.490	324.760	7721.95	17853.26	13571.32	-11744.35	1746655.91	448533.19	39°43'40.7713"N	80°24'2.7133"W	17947.44	319.128	0.17	0.00	0.17
26371.00	90.400	324.900	7721.22	17948.26	13648.98	-11799.07	1746601.20	448610.84	39°43'41.5333"N	80°24'3.4236"W	18041.97	319.158	0.18	-0.09	0.15
26466.00	90.490	325.010	7720.48	18043.25	13726.75	-11853.62	1746546.65	448688.61	39°43'42.2965"N	80°24'4.1317"W	18136.48	319.188	0.15	0.09	0.12
26561.00	90.460	324.610	7719.69	18138.25	13804.39	-11908.36	1746491.91	448766.24	39°43'43.0583"N	80°24'4.8423"W	18231.03	319.217	0.42	-0.03	-0.42
26656.00	90.400	324.780	7718.98	18233.25	13881.91	-11963.27	1746437.01	448843.76	39°43'43.8190"N	80°24'5.5549"W	18325.59	319.246	0.19	-0.06	0.18
26751.00	90.460	324.840	7718.27	18328.24	13959.55	-12018.01	1746382.27	448921.39	39°43'44.5808"N	80°24'6.2655"W	18420.14	319.274	0.09	0.06	0.06
26845.00	90.430	324.920	7717.54	18422.24	14036.44	-12072.09	1746328.19	448998.27	39°43'45.3362"N	80°24'6.9675"W	18513.69	319.303	0.09	-0.03	0.09
26940.00	90.490	324.900	7716.77	18517.24	14114.17	-12126.70	1746273.59	449076.00	39°43'46.0980"N	80°24'7.6764"W	18608.24	319.331	0.07	0.06	-0.02
27035.00	90.430	324.620	7716.01	18612.23	14191.75	-12181.51	1746218.78	449153.58	39°43'46.8593"N	80°24'8.3879"W	18702.81	319.359	0.30	-0.06	-0.29
27130.00	90.370	324.790	7715.35	18707.23	14269.29	-12236.40	1746163.89	449231.12	39°43'47.6201"N	80°24'9.1003"W	18797.40	319.386	0.19	-0.06	0.18
27225.00	90.490	324.830	7714.63	18802.23	14346.93	-12291.15	1746109.15	449308.75	39°43'48.3819"N	80°24'9.8110"W	18891.97	319.413	0.13	0.13	0.04
27319.00	90.430	324.770	7713.88	18896.22	14423.74	-12345.33	1746054.97	449385.55	39°43'49.1356"N	80°24'10.5143"W	18985.55	319.440	0.09	-0.06	-0.06
27414.00	90.370	324.830	7713.22	18991.22	14501.36	-12400.09	1746000.21	449463.17	39°43'49.8973"N	80°24'11.2251"W	19080.14	319.466	0.09	-0.06	0.06
27509.00	90.340	324.690	7712.63	19086.22	14578.95	-12454.90	1745945.40	449540.76	39°43'50.6586"N	80°24'11.9366"W	19174.73	319.492	0.15	-0.03	-0.15
27604.00	90.430	324.860	7711.99	19181.21	14656.55	-12509.70	1745890.61	449618.36	39°43'51.4201"N	80°24'12.6479"W	19269.33	319.519	0.20	0.09	0.18
27699.00	90.430	325.860	7711.28	19276.21	14734.71	-12563.69	1745836.62	449696.51	39°43'52.1871"N	80°24'13.3491"W	19363.84	319.547	1.05	0.00	1.05
27794.00	90.370	325.940	7710.61	19371.19	14813.38	-12616.95	1745783.36	449775.17	39°43'52.9592"N	80°24'14.0408"W	19458.25	319.578	0.11	-0.06	0.08

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# Actual Wellpath Report

WDTN-18B-HSM AWP Proj: 28407'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18B-HSM
Field	Monongalia	API	47-061-01945-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18B-HSM AWB
Slot	Slot B		

WELLPATH DATA (307 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]
27888.00	90.680	325.860	7709.75	19465.18	14891.21	-12669.65	1745730.67	449853.00	39°43'53.7231"N	80°24'14.7253"W	19551.68	319.608	0.34	0.33	-0.09
27983.00	90.680	325.800	7708.62	19560.16	14969.80	-12723.00	1745677.32	449931.59	39°43'54.4945"N	80°24'15.4183"W	19646.12	319.638	0.06	0.00	-0.06
28078.00	90.740	325.950	7707.45	19655.14	15048.44	-12776.30	1745624.03	450010.22	39°43'55.2664"N	80°24'16.1105"W	19740.55	319.668	0.17	0.06	0.16
28173.00	90.680	325.850	7706.27	19750.12	15127.10	-12829.55	1745570.78	450088.87	39°43'56.0384"N	80°24'16.8022"W	19834.98	319.698	0.12	-0.06	-0.11
28268.00	90.620	325.810	7705.19	19845.11	15205.70	-12882.91	1745517.43	450167.46	39°43'56.8098"N	80°24'17.4952"W	19929.44	319.727	0.08	-0.06	-0.04
28362.00	90.680	325.770	7704.13	19939.09	15283.43	-12935.75	1745464.58	450245.19	39°43'57.5727"N	80°24'18.1816"W	20022.91	319.756	0.08	0.06	-0.04
28407.00‡	90.680	325.770	7703.59	19984.09	15320.63	-12961.06	1745439.27	450282.39	39°43'57.9379"N	80°24'18.5104"W	20067.66	319.769	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: WDTN-18B-HSM AWB Ref Wellpath: WDTN-18B-HSM AWP Proj: 28407'									
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	0.06	-0.05
20in Conductor	28.00	69.00	41.00	28.00	69.00	0.00	0.00	0.06	-0.05
17.5in Open Hole	69.00	1123.00	1054.00	69.00	1122.98	0.06	-0.05	1.96	-4.55
13.375in Casing Surface	28.00	1123.00	1095.00	28.00	1122.98	0.00	0.00	1.96	-4.55
12.25in Open Hole	1123.00	2746.00	1623.00	1122.98	2745.96	1.96	-4.55	8.65	-7.85
9.625in Casing Intermediate	28.00	2746.00	2718.00	28.00	2745.96	0.00	0.00	8.65	-7.85
8.75in Open Hole	2746.00	6673.50	3927.50	2745.96	6421.65	8.65	-7.85	-991.96	-773.45
8.5in Open Hole	6673.50	28407.00	21733.50	6421.65	7703.59	-991.96	-773.45	15320.63	-12961.06
5.5in Casing Production	28.00	28407.00	28379.00	28.00	7703.59	0.00	0.00	15320.63	-12961.06

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# Actual Wellpath Report

WDTN-18B-HSM AWP Proj: 28407'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18B-HSM
Field	Monongalia	API	47-061-01945-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18B-HSM AWB
Slot	Slot B		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
WDTN-18B-HSM BHL Rev-2	7697.00	15318.91	-12964.27	1745436.07	450280.67	39°43'57.9205"N	80°24'18.5511"W	point
WDTN-18B-HSM State Line	7848.00	11084.63	-9999.39	1748400.77	446046.64	39°43'16.3689"N	80°23'40.0644"W	point
WDTN-18B-HSM LP Rev-2	7866.00	-851.71	-1641.48	1756758.17	434111.03	39°41'19.2162"N	80°21'51.6402"W	point
WDTN-18 Marcellus North Lease Rev-2	8249.78	15853.26	-15230.74	1743169.73	450814.99	39°44'2.9745"N	80°24'47.6290"W	polygon
2D Polygon: dimensions not calculated								

WELLPATH COMPOSITION - Ref Wellbore: WDTN-18B-HSM AWB Ref Wellpath: WDTN-18B-HSM AWP Proj: 28407'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1060.00	Gyrodata 2015 - GC+WIR+CAS	01 Gyrodata MS Gyro <17-1/2"> (113.5'-1045.5')	WDTN-18B-HSM AWB	2/16/2024
1060.00	2706.50	OWSG MWD rev2 + HRGM	02 Tally MWD <12-1/4"> (1045.5')(1136'-2692')	WDTN-18B-HSM AWB	2/16/2024
2706.50	6606.50	OWSG MWD rev2 + HRGM	03 Tally MWD <8-3/4"> (2692')(2754'-6592')	WDTN-18B-HSM AWB	2/16/2024
6606.50	28407.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6606.5')(6669'-28362')	WDTN-18B-HSM AWB	3/27/2024

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# Actual Wellpath Report

WDTN-18B-HSM AWP Proj: 28407'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18B-HSM
Field	Monongalia	API	47-061-01945-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18B-HSM AWB
Slot	Slot B		

COMMENTS
<p><b>Wellpath general comments</b> API: 47-061-01945-0000 BH Job #: 112148373 Rig: Precision 575 Duration: 4/1/2024-4/9/2024 Gyrodata MS Gyro &lt;17-1/2"&gt; (113.5'-1045.5') Tally MWD &lt;12-1/4"&gt; (1045.5')(1136'-2692') Tally MWD &lt;8-3/4"&gt; (2692')(2754'-6592') BH AT Curve &lt;8-1/2"&gt; (6606.5')(6669'-28362') Projected MD at TD: 28407'</p>

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