



CNX GAS CO, LLC



Area: Monongalia County, WV
Field: Monongalia
Facility: WDTN-18 Pad
Slot: Slot J

Well: WDTN-18J-HSM
UWI: 47-061-02002-0000
Wellbore: WDTN-18J-HSM PWB
Wellpath: WDTN-18J-HSM PWP Rev-B.0

Easting (ft)

Scale 1 inch = 3500

North Reference: Grid North

Scale: True distance

Coordinates are in feet referenced to Slot

Depths are in feet

Offset wellpath MDs are referenced to each path's default MD datum

Created by software on 2025-01-17, Database: WVA_MPL_EASTERNUS_Dept

Well Profile Data

Design Comment	MD (ft)	Inc (ft)	As (ft)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (11000)	VS (ft)
See Ch	4329.50	1.520	194.880	6327.17	74.79	7.46	0.21	-56.90
Prop. to Bottom	6404.00	1.520	194.880	6402.14	72.87	8.95	0.00	-55.70
Build	6566.05	5.458	136.108	6563.40	85.26	11.73	3.00	-46.73
Curve KOP	6717.48	5.458	136.108	6716.07	23.62	11.73	0.00	-10.35
Landing Pt.	6814.80	91.128	145.000	7865.00	-465.71	509.17	7.50	785.88
10000 VS	9130.84	91.128	145.000	7864.00	-1272.56	972.11	0.00	1600.00
End of Drop	9150.52	90.898	145.000	7843.54	-1296.06	988.56	1.50	1628.69
22500 VS	9780.89	90.898	145.000	7836.00	-1305.01	1344.94	0.00	2250.00
End of Drop	9831.24	88.939	145.000	7835.72	-1346.34	1373.87	1.50	2355.45
30000 VS	11039.89	88.939	145.000	7837.00	-2828.95	2061.91	0.00	3000.00
End of Drop	11039.87	88.809	145.000	7837.02	-2836.07	2068.89	1.50	3008.89
50000 VS	12530.90	88.809	145.000	7842.00	-4057.48	2922.27	0.00	5000.00
End of Build	12541.30	88.995	145.000	7842.02	-4066.20	2928.24	1.50	5010.41
60000 VS	14132.90	88.995	145.000	7843.00	-5366.32	3893.96	0.00	6000.00
End of Drop	14181.61	86.204	145.000	7843.37	-5409.87	3893.68	1.50	6050.72
72000 VS	14730.95	86.204	145.000	7851.00	-5859.82	4184.14	0.00	7200.00
End of Drop	14832.23	87.685	145.000	7853.75	-5942.74	4242.21	1.50	7301.24
80000 VS	15338.56	87.685	145.000	7862.00	-6115.14	4943.00	0.00	8000.00
End of Drop	15573.24	87.280	145.000	7863.91	-6549.24	4896.88	1.50	8041.64
88000 VS	16432.74	87.080	145.000	7908.00	-7262.37	5159.22	0.00	8800.00
End of Build	16477.91	87.737	145.000	7900.05	-7289.34	5185.10	1.50	8945.13
94000 VS	19461.18	87.737	145.000	7950.00	-7752.91	5474.68	0.00	9400.00
End of Build	17953.68	86.798	145.000	7952.14	-7786.79	5515.22	1.50	9520.67
98000 VS	17333.27	88.798	145.000	7958.00	-7989.61	5675.44	0.00	9800.00
End of Build	17419.06	90.285	145.000	7958.84	-8059.90	5724.86	1.50	9895.82
104000 VS	17983.28	90.285	145.000	7959.00	-8522.06	6046.38	0.00	10400.00
End of Build	18508.96	90.441	145.000	7957.88	-8541.48	6061.86	1.50	10473.71
110000 VS	19033.31	90.441	145.000	7950.00	-8982.17	6650.52	0.00	11000.00
End of Build	19066.68	91.436	145.000	7948.91	-8435.53	6668.56	1.50	11566.36
126000 VS	20133.65	91.436	145.000	7923.00	-10383.24	7381.45	0.00	12600.00
End of Build	20176.12	91.436	145.000	7922.96	-10384.44	7382.30	1.50	12601.47
137000 VS	21234.05	91.436	145.000	7899.00	-11184.30	7912.39	0.00	13700.00
End of Drop	21296.24	90.525	145.000	7893.92	-11235.28	7948.08	1.50	13762.24
143000 VS	21834.01	90.525	145.000	7889.00	-11675.79	8296.53	0.00	14300.00
End of Drop	21947.70	90.338	145.000	7888.00	-11996.86	8294.74	1.50	14373.27
150000 VS	22534.05	90.338	145.000	7885.00	-12246.20	8658.04	0.00	15000.00
End of Drop	22590.00	90.088	145.000	7884.94	-12262.27	8667.19	1.50	15015.96
BHL	25837.18	90.088	145.000	7880.00	-14954.98	10523.44	0.00	18303.13

User specified (IFR1) Dip: 66.08° Field: 51402.5 nT
Magnetic North is 8.55 degrees West of True North (at 2026-01-08)
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 8.00 degrees

API: 47-061-02002-0000
BH Job #: 112938803
Rig: Precision 575
Duration: 1/12/2026-1/15/2026

Final Survey @ 25809' MD : 7886.42ft TVD, 14937.76ft S, 10533.53ft E
Projected MD at TD: 25834' : 7886.49ft TVD, 14958.11ft S, 10548.05ft E

BHL : 150°

SDI MWD+SuperiorQC IFR1+Sag+FDIR <12-1/4"> (1019')(1175'-2714') : 1.81" Inc, 1189.50ft MD, 1189.42ft TVD, -9.90ft VS

SDI MWD+SuperiorQC IFR1+Sag+FDIR <8-3/4"> (2714')(2781'-6315') : 1.69" Inc, 2795.50ft MD, 2793.76ft TVD, -46.27ft VS

BH Lucida+SuperiorQC IFR1+Sag+FDIR <8-1/2"> (6329.5')(6453'-25809') : 4.82" Inc, 6453.00ft MD, 6450.48ft TVD, -50.74ft VS

Curve KOP @ 7115' MD : 6.37" Inc, 7115.00ft MD, 7109.77ft TVD, 8.58ft VS

Landing Pt. @ 8345' MD : 88.23" Inc, 8345.00ft MD, 7862.54ft TVD, 818.23ft VS

Final Survey @ 25809' MD : 89.84" Inc, 25809.00ft MD, 7886.42ft TVD, 18278.08ft VS
Projected MD at TD: 25834' : 89.84" Inc, 25834.00ft MD, 7886.49ft TVD, 18303.08ft VS

Vertical Section (ft)

Scale 1 inch = 2500

Azimuth 145.000° with reference 0.00 N, 0.00 E

True Vertical Depth (ft)

Scale 1 inch = 5000

Location Information

Facility Name: WDTN-18 Pad

Grid East (US ft): 1758359.150

Grid North (US ft): 434429.260

Latitude: 39°41'22.5131N

Longitude: 80°21'31.2000W

Slot: Slot J

Local N (ft): 352.49

Local E (ft): 45.74

Grid East (US ft): 1758404.890

Grid North (US ft): 434781.730

Latitude: 39°41'26.0009N

Longitude: 80°21'30.6580W

Precision 575 (RKB) to Mud line (At Slot: Slot J)

Mean Sea Level to Mud line (At Slot: Slot J)

Precision 575 (RKB) to Mean Sea Level

Well Data

Slot: Slot J

Well: WDTN-18J-HSM

Wellbore: WDTN-18J-HSM AWP

Wellpath: WDTN-18J-HSM AWP Proj 25834'

Slot: Slot J

Well: WDTN-18J-HSM

Wellbore: WDTN-18J-HSM PWB

Wellpath: WDTN-18J-HSM PWP Rev-B.0



Actual Wellpath Report

WDTN-18J-HSM AWP Proj: 25834'

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS CO, LLC	Well	WDTN-18J-HSM
Field	Monongalia	UWI	47-061-02002-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18J-HSM AWB
Slot	Slot J		

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet [32050]	Software System	WellArchitect® 7.0
North Reference	Grid	Report Generated By	Edsaryar on 2026-01-17 at 10:12:59 PM
Scale	0.999941	Last Updated	2026-01-17
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	352.49	45.74	1758404.89	434781.73	39°41'26.0009"N	80°21'30.6580"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	1227.00ft
Horizontal Reference Pt	Slot	Precision 575 (RKB) to Mean Sea Level	1227.00ft
Vertical Reference Pt	Precision 575 (RKB)	Precision 575 (RKB) to Mud Line at Slot (Slot J)	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	145.000°

RECEIVED
Office of Oil and Gas
JUL 24 2026
WV Department of
Environmental Protection



Actual Wellpath Report

WDTN-18J-HSM AWP Proj: 25834'

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Field	Monongalia	UWI	47-061-02002-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18J-HSM AWB
Slot	Slot J		

WELLPATH DATA (301 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	351.060	0.00	0.00	0.00	0.00	1758404.89	434781.73	39°41'26.0009"N	80°21'30.6580"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	351.060	28.00	0.00	0.00	0.00	1758404.89	434781.73	39°41'26.0009"N	80°21'30.6580"W	0.00	0.000	0.00	0.00	0.00
114.50	0.170	351.060	114.50	-0.12	0.13	-0.02	1758404.87	434781.86	39°41'26.0021"N	80°21'30.6583"W	0.13	351.060	0.20	0.20	0.00
214.50	0.050	221.280	214.50	-0.24	0.24	-0.07	1758404.82	434781.97	39°41'26.0033"N	80°21'30.6589"W	0.25	343.383	0.21	-0.12	-129.78
314.50	0.070	62.570	314.50	-0.22	0.24	-0.05	1758404.84	434781.97	39°41'26.0032"N	80°21'30.6586"W	0.24	348.883	0.12	0.02	-158.71
414.50	0.200	341.580	414.50	-0.38	0.43	-0.05	1758404.84	434782.16	39°41'26.0051"N	80°21'30.6587"W	0.43	353.720	0.20	0.13	-80.99
514.50	0.130	343.010	514.50	-0.65	0.70	-0.14	1758404.75	434782.43	39°41'26.0078"N	80°21'30.6598"W	0.72	349.095	0.07	-0.07	1.43
614.50	0.310	317.240	614.50	-1.03	1.01	-0.35	1758404.54	434782.74	39°41'26.0109"N	80°21'30.6626"W	1.07	340.780	0.20	0.18	-25.77
714.50	0.480	328.230	714.50	-1.72	1.57	-0.76	1758404.13	434783.30	39°41'26.0163"N	80°21'30.6679"W	1.74	334.206	0.19	0.17	10.99
814.50	0.770	334.210	814.49	-2.80	2.53	-1.27	1758403.62	434784.26	39°41'26.0257"N	80°21'30.6745"W	2.83	333.323	0.30	0.29	5.98
914.50	0.870	335.990	914.48	-4.21	3.83	-1.87	1758403.02	434785.55	39°41'26.0385"N	80°21'30.6824"W	4.26	333.939	0.10	0.10	1.78
1014.50	0.950	329.450	1014.47	-5.78	5.23	-2.60	1758402.29	434786.96	39°41'26.0524"N	80°21'30.6919"W	5.84	333.569	0.13	0.08	-6.54
1033.50	0.990	330.210	1033.46	-6.10	5.51	-2.76	1758402.13	434787.24	39°41'26.0551"N	80°21'30.6940"W	6.16	333.374	0.22	0.21	4.00
1189.50	1.810	326.850	1189.42	-9.90	8.74	-4.78	1758400.11	434790.47	39°41'26.0868"N	80°21'30.7202"W	9.96	331.336	0.53	0.53	-2.15
1232.50	2.060	326.490	1232.39	-11.35	9.96	-5.58	1758399.31	434791.69	39°41'26.0988"N	80°21'30.7306"W	11.41	330.742	0.58	0.58	-0.84
1274.50	1.970	342.410	1274.37	-12.80	11.27	-6.21	1758398.68	434793.00	39°41'26.1117"N	80°21'30.7388"W	12.87	331.143	1.35	-0.21	37.90
1317.50	2.340	359.420	1317.34	-14.23	12.86	-6.44	1758398.45	434794.59	39°41'26.1273"N	80°21'30.7420"W	14.38	333.375	1.71	0.86	39.56
1358.50	2.540	7.090	1358.30	-15.59	14.59	-6.34	1758398.55	434796.32	39°41'26.1445"N	80°21'30.7409"W	15.91	336.516	0.93	0.49	18.71
1402.50	2.520	10.080	1402.26	-17.00	16.51	-6.05	1758398.84	434798.24	39°41'26.1635"N	80°21'30.7374"W	17.59	339.876	0.30	-0.05	6.80
1445.50	2.810	21.120	1445.21	-18.25	18.43	-5.51	1758399.38	434800.16	39°41'26.1825"N	80°21'30.7307"W	19.23	343.365	1.37	0.67	25.67
1490.50	2.980	24.270	1490.15	-19.47	20.52	-4.63	1758400.26	434802.25	39°41'26.2033"N	80°21'30.7197"W	21.04	347.293	0.52	0.38	7.00
1533.50	3.420	28.400	1533.09	-20.61	22.67	-3.56	1758401.33	434804.40	39°41'26.2246"N	80°21'30.7063"W	22.95	351.080	1.15	1.02	9.60
1576.50	3.820	29.240	1576.00	-21.81	25.05	-2.25	1758402.64	434806.78	39°41'26.2482"N	80°21'30.6898"W	25.15	354.870	0.94	0.93	1.95
1618.50	3.840	30.490	1617.91	-23.00	27.48	-0.85	1758404.04	434809.21	39°41'26.2724"N	80°21'30.6723"W	27.49	358.225	0.20	0.05	2.98
1661.50	4.430	29.720	1660.79	-24.31	30.16	0.70	1758405.59	434811.89	39°41'26.2991"N	80°21'30.6527"W	30.17	1.334	1.38	1.37	-1.79
1704.50	3.840	30.870	1703.68	-25.60	32.84	2.26	1758407.15	434814.57	39°41'26.3257"N	80°21'30.6330"W	32.92	3.944	1.39	-1.37	2.67
1746.50	2.930	29.610	1745.61	-26.64	34.98	3.52	1758408.41	434816.71	39°41'26.3470"N	80°21'30.6173"W	35.16	5.740	2.17	-2.17	-3.00
1789.50	2.880	30.310	1788.55	-27.56	36.87	4.60	1758409.49	434818.60	39°41'26.3657"N	80°21'30.6036"W	37.16	7.118	0.14	-0.12	1.63
1833.50	2.650	33.000	1832.50	-28.40	38.68	5.72	1758410.61	434820.41	39°41'26.3837"N	80°21'30.5896"W	39.10	8.407	0.60	-0.52	6.11
1876.50	2.180	32.480	1875.46	-29.09	40.20	6.70	1758411.59	434821.93	39°41'26.3988"N	80°21'30.5772"W	40.76	9.458	1.09	-1.09	-1.21



Actual Wellpath Report

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Field	Monongalia	UWI	47-061-02002-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18J-HSM AWB
Slot	Slot J		

WELLPATH DATA (301 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]
1919.50	2.210	36.850	1918.43	-29.66	41.56	7.63	1758412.52	434823.28	39°41'26.4123"N	80°21'30.5654"W	42.25	10.409	0.40	0.07	10.16
1963.50	2.300	35.110	1962.40	-30.23	42.96	8.65	1758413.54	434824.68	39°41'26.4262"N	80°21'30.5526"W	43.82	11.385	0.26	0.20	-3.95
2006.50	2.660	33.590	2005.36	-30.88	44.49	9.70	1758414.59	434826.22	39°41'26.4415"N	80°21'30.5394"W	45.54	12.296	0.85	0.84	-3.53
2050.50	3.060	28.660	2049.30	-31.78	46.37	10.83	1758415.72	434828.10	39°41'26.4602"N	80°21'30.5252"W	47.62	13.141	1.07	0.91	-11.20
2093.50	2.760	26.420	2092.25	-32.78	48.31	11.84	1758416.73	434830.04	39°41'26.4794"N	80°21'30.5125"W	49.74	13.768	0.75	-0.70	-5.21
2137.50	2.160	16.420	2136.21	-33.81	50.05	12.54	1758417.43	434831.78	39°41'26.4967"N	80°21'30.5037"W	51.60	14.069	1.67	-1.36	-22.73
2181.50	2.250	12.020	2180.17	-34.91	51.69	12.96	1758417.85	434833.42	39°41'26.5130"N	80°21'30.4986"W	53.29	14.072	0.44	0.20	-10.00
2224.50	2.590	10.910	2223.14	-36.16	53.47	13.32	1758418.21	434835.20	39°41'26.5306"N	80°21'30.4942"W	55.11	13.985	0.80	0.79	-2.58
2267.50	2.530	10.960	2266.09	-37.50	55.36	13.68	1758418.57	434837.09	39°41'26.5493"N	80°21'30.4898"W	57.02	13.882	0.14	-0.14	0.12
2311.50	2.740	14.640	2310.05	-38.86	57.33	14.13	1758419.02	434839.06	39°41'26.5688"N	80°21'30.4842"W	59.05	13.848	0.61	0.48	8.36
2355.50	2.990	16.910	2353.99	-40.24	59.44	14.73	1758419.62	434841.17	39°41'26.5898"N	80°21'30.4768"W	61.24	13.919	0.62	0.57	5.16
2399.50	2.750	22.420	2397.94	-41.52	61.52	15.47	1758420.36	434843.24	39°41'26.6103"N	80°21'30.4677"W	63.43	14.114	0.83	-0.55	12.52
2443.50	2.170	29.840	2441.90	-42.44	63.22	16.28	1758421.17	434844.94	39°41'26.6272"N	80°21'30.4574"W	65.28	14.446	1.50	-1.32	16.86
2486.50	2.200	33.320	2484.86	-43.09	64.61	17.14	1758422.03	434846.34	39°41'26.6411"N	80°21'30.4466"W	66.85	14.860	0.32	0.07	8.09
2528.50	1.980	32.150	2526.84	-43.67	65.90	17.97	1758422.86	434847.63	39°41'26.6539"N	80°21'30.4362"W	68.31	15.255	0.53	-0.52	-2.79
2571.50	1.260	33.220	2569.82	-44.14	66.93	18.63	1758423.52	434848.65	39°41'26.6640"N	80°21'30.4279"W	69.47	15.553	1.68	-1.67	2.49
2613.50	1.160	32.110	2611.81	-44.47	67.67	19.11	1758423.99	434849.40	39°41'26.6715"N	80°21'30.4219"W	70.32	15.766	0.24	-0.24	-2.64
2655.50	1.160	33.720	2653.80	-44.79	68.39	19.57	1758424.46	434850.11	39°41'26.6786"N	80°21'30.4161"W	71.13	15.968	0.08	0.00	3.83
2700.50	1.380	30.410	2698.79	-45.19	69.23	20.09	1758424.98	434850.96	39°41'26.6870"N	80°21'30.4094"W	72.09	16.186	0.52	0.49	-7.36
2728.50	1.430	29.030	2726.78	-45.48	69.83	20.43	1758425.32	434851.55	39°41'26.6929"N	80°21'30.4051"W	72.76	16.312	0.22	0.18	-4.93
2795.50	1.690	29.390	2793.76	-46.27	71.42	21.33	1758426.21	434853.15	39°41'26.7087"N	80°21'30.3939"W	74.54	16.625	0.39	0.39	0.54
2838.50	2.070	27.600	2836.73	-46.90	72.66	22.00	1758426.89	434854.39	39°41'26.7210"N	80°21'30.3855"W	75.92	16.843	0.89	0.88	-4.16
2880.50	1.570	7.500	2878.71	-47.68	73.90	22.42	1758427.31	434855.63	39°41'26.7334"N	80°21'30.3802"W	77.23	16.878	1.91	-1.19	-47.86
2924.50	1.300	333.400	2922.70	-48.61	74.95	22.28	1758427.17	434856.67	39°41'26.7437"N	80°21'30.3822"W	78.19	16.555	2.00	-0.61	-77.50
2969.50	1.400	329.730	2967.69	-49.67	75.88	21.77	1758426.66	434857.60	39°41'26.7528"N	80°21'30.3888"W	78.94	16.010	0.29	0.22	-8.16
3011.50	1.040	313.680	3009.68	-50.55	76.58	21.24	1758426.13	434858.31	39°41'26.7598"N	80°21'30.3957"W	79.47	15.500	1.17	-0.86	-38.21
3054.50	0.730	277.170	3052.67	-51.12	76.89	20.68	1758425.57	434858.61	39°41'26.7627"N	80°21'30.4028"W	79.62	15.057	1.46	-0.72	-84.91
3098.50	0.810	270.000	3096.67	-51.49	76.92	20.10	1758424.98	434858.65	39°41'26.7630"N	80°21'30.4104"W	79.50	14.641	0.28	0.18	-16.30
3184.50	1.000	263.190	3182.66	-52.19	76.83	18.74	1758423.63	434858.56	39°41'26.7620"N	80°21'30.4277"W	79.09	13.708	0.25	0.22	-7.92
3261.50	1.020	257.640	3259.65	-52.77	76.61	17.41	1758422.29	434858.33	39°41'26.7596"N	80°21'30.4447"W	78.56	12.800	0.13	0.03	-7.21

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Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS CO, LLC	Well	WDTN-18J-HSM
Field	Monongalia	UWI	47-061-02002-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18J-HSM AWB
Slot	Slot J		

WELLPATH DATA (301 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]
3348.50	1.010	256.800	3346.63	-53.35	76.27	15.90	1758420.79	434857.99	39°41'26.7561"N	80°21'30.4639"W	77.91	11.778	0.02	-0.01	-0.97
3433.50	0.860	257.090	3431.62	-53.87	75.95	14.55	1758419.44	434857.68	39°41'26.7529"N	80°21'30.4812"W	77.33	10.845	0.18	-0.18	0.34
3519.50	0.940	255.420	3517.61	-54.36	75.63	13.24	1758418.13	434857.36	39°41'26.7496"N	80°21'30.4979"W	76.78	9.929	0.10	0.09	-1.94
3606.50	0.870	253.410	3604.60	-54.82	75.26	11.92	1758416.81	434856.99	39°41'26.7458"N	80°21'30.5148"W	76.20	8.997	0.09	-0.08	-2.31
3692.50	1.190	208.150	3690.59	-54.62	74.29	10.87	1758415.76	434856.01	39°41'26.7361"N	80°21'30.5281"W	75.08	8.324	0.98	0.37	-52.63
3778.50	1.600	187.190	3776.56	-53.33	72.31	10.30	1758415.19	434854.04	39°41'26.7165"N	80°21'30.5351"W	73.04	8.105	0.75	0.48	-24.37
3866.50	1.520	185.690	3864.53	-51.53	69.93	10.03	1758414.92	434851.66	39°41'26.6929"N	80°21'30.5383"W	70.65	8.160	0.10	-0.09	-1.70
3952.50	1.640	181.320	3950.50	-49.68	67.57	9.89	1758414.78	434849.29	39°41'26.6695"N	80°21'30.5398"W	68.28	8.325	0.20	0.14	-5.08
4039.50	0.960	145.150	4037.47	-47.94	65.72	10.27	1758415.16	434847.45	39°41'26.6514"N	80°21'30.5346"W	66.52	8.885	1.19	-0.78	-41.57
4126.50	1.040	96.790	4124.46	-46.69	65.03	11.47	1758416.36	434846.76	39°41'26.6447"N	80°21'30.5192"W	66.04	10.007	0.95	0.09	-55.59
4213.50	0.980	89.830	4211.45	-45.74	64.94	13.00	1758417.89	434846.67	39°41'26.6439"N	80°21'30.4996"W	66.23	11.322	0.16	-0.07	-8.00
4299.50	1.110	82.070	4297.43	-44.94	65.06	14.56	1758419.45	434846.78	39°41'26.6452"N	80°21'30.4797"W	66.67	12.618	0.22	0.15	-9.02
4383.50	1.000	76.270	4381.42	-44.30	65.34	16.08	1758420.97	434847.07	39°41'26.6482"N	80°21'30.4603"W	67.29	13.826	0.18	-0.13	-6.90
4470.50	0.910	53.580	4468.41	-44.04	65.93	17.37	1758422.26	434847.66	39°41'26.6541"N	80°21'30.4438"W	68.18	14.763	0.44	-0.10	-26.08
4556.50	0.840	45.260	4554.40	-44.17	66.78	18.37	1758423.26	434848.51	39°41'26.6626"N	80°21'30.4312"W	69.26	15.381	0.17	-0.08	-9.67
4645.50	0.740	28.150	4643.39	-44.54	67.75	19.11	1758424.00	434849.47	39°41'26.6722"N	80°21'30.4219"W	70.39	15.749	0.29	-0.11	-19.22
4730.50	0.710	16.390	4728.38	-45.11	68.74	19.51	1758424.40	434850.46	39°41'26.6820"N	80°21'30.4168"W	71.45	15.849	0.18	-0.04	-13.84
4818.50	0.810	2.360	4816.38	-45.95	69.88	19.69	1758424.58	434851.61	39°41'26.6934"N	80°21'30.4146"W	72.60	15.738	0.24	0.11	-15.94
4904.50	0.910	350.330	4902.37	-47.05	71.16	19.60	1758424.49	434852.89	39°41'26.7060"N	80°21'30.4159"W	73.81	15.402	0.24	0.12	-13.99
4991.50	0.980	341.070	4989.35	-48.39	72.55	19.25	1758424.14	434854.27	39°41'26.7197"N	80°21'30.4207"W	75.06	14.858	0.19	0.08	-10.64
5079.50	1.190	334.880	5077.34	-50.01	74.09	18.61	1758423.50	434855.81	39°41'26.7348"N	80°21'30.4290"W	76.39	14.103	0.27	0.24	-7.03
5165.50	1.390	329.490	5163.32	-51.93	75.79	17.71	1758422.59	434857.52	39°41'26.7516"N	80°21'30.4408"W	77.83	13.148	0.27	0.23	-6.27
5252.50	0.710	338.890	5250.30	-53.51	77.21	16.98	1758421.86	434858.93	39°41'26.7655"N	80°21'30.4503"W	79.05	12.401	0.80	-0.78	10.80
5339.50	0.410	25.430	5337.30	-54.18	77.99	16.92	1758421.80	434859.72	39°41'26.7732"N	80°21'30.4512"W	79.80	12.237	0.60	-0.34	53.49
5427.50	0.540	11.780	5425.29	-54.62	78.68	17.14	1758422.02	434860.41	39°41'26.7801"N	80°21'30.4484"W	80.52	12.286	0.19	0.15	-15.51
5511.50	0.640	354.330	5509.29	-55.30	79.53	17.17	1758422.06	434861.26	39°41'26.7885"N	80°21'30.4481"W	81.37	12.182	0.24	0.12	-20.77
5598.50	0.500	285.120	5596.29	-56.02	80.12	16.75	1758421.64	434861.84	39°41'26.7942"N	80°21'30.4535"W	81.85	11.812	0.76	-0.16	-79.55
5683.50	0.810	259.890	5681.28	-56.56	80.11	15.81	1758420.69	434861.83	39°41'26.7941"N	80°21'30.4656"W	81.65	11.161	0.49	0.36	-29.68
5770.50	0.780	258.260	5768.27	-57.05	79.88	14.62	1758419.51	434861.61	39°41'26.7917"N	80°21'30.4808"W	81.21	10.372	0.04	-0.03	-1.87
5856.50	0.650	262.140	5854.27	-57.50	79.69	13.56	1758418.45	434861.42	39°41'26.7898"N	80°21'30.4942"W	80.84	9.659	0.16	-0.15	4.51



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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS CO, LLC	Well	WDTN-18J-HSM
Field	Monongalia	UWI	47-061-02002-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18J-HSM AWB
Slot	Slot J		

WELLPATH DATA (301 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]
5943.50	0.860	280.360	5941.26	-58.19	79.74	12.43	1758417.32	434861.47	39°41'26.7902"N	80°21'30.5087"W	80.71	8.862	0.36	0.24	20.94
6031.50	0.970	283.530	6029.25	-59.22	80.04	11.06	1758415.95	434861.76	39°41'26.7929"N	80°21'30.5263"W	80.80	7.867	0.14	0.13	3.60
6118.50	1.140	227.260	6116.24	-59.65	79.62	9.71	1758414.60	434861.35	39°41'26.7887"N	80°21'30.5436"W	80.21	6.951	1.16	0.20	-64.68
6206.50	1.580	203.980	6204.21	-58.91	77.92	8.57	1758413.46	434859.64	39°41'26.7718"N	80°21'30.5579"W	78.39	6.277	0.79	0.50	-26.45
6329.50	1.520	194.880	6327.17	-56.99	74.79	7.46	1758412.35	434856.52	39°41'26.7408"N	80°21'30.5717"W	75.17	5.698	0.21	-0.05	-7.40
6453.00	4.820	144.190	6450.48	-50.74	69.00	10.08	1758414.97	434850.73	39°41'26.6838"N	80°21'30.5375"W	69.73	8.311	3.26	2.67	-41.04
6548.00	4.930	139.240	6545.13	-42.69	62.67	15.08	1758419.97	434844.40	39°41'26.6217"N	80°21'30.4728"W	64.46	13.529	0.46	0.12	-5.21
6642.00	5.020	137.150	6638.78	-34.60	56.60	20.51	1758425.40	434838.32	39°41'26.5622"N	80°21'30.4025"W	60.20	19.923	0.22	0.10	-2.22
6737.00	5.080	138.080	6733.41	-26.30	50.42	26.15	1758431.04	434832.15	39°41'26.5017"N	80°21'30.3297"W	56.80	27.414	0.11	0.06	0.98
6832.00	5.040	137.780	6828.04	-17.99	44.20	31.76	1758436.65	434825.93	39°41'26.4407"N	80°21'30.2571"W	54.43	35.703	0.05	-0.04	-0.32
6926.00	5.350	136.960	6921.65	-9.55	37.94	37.53	1758442.42	434819.67	39°41'26.3794"N	80°21'30.1826"W	53.37	44.689	0.34	0.33	-0.87
7021.00	5.240	137.240	7016.25	-0.87	31.52	43.50	1758448.39	434813.25	39°41'26.3165"N	80°21'30.1055"W	53.72	54.074	0.12	-0.12	0.29
7115.00	6.370	139.530	7109.77	8.58	24.40	49.80	1758454.68	434806.13	39°41'26.2467"N	80°21'30.0240"W	55.45	63.897	1.23	1.20	2.44
7210.00	9.540	142.250	7203.84	21.69	14.16	58.04	1758462.93	434795.89	39°41'26.1463"N	80°21'29.9173"W	59.74	76.287	3.36	3.34	2.86
7304.00	15.420	142.620	7295.58	41.97	-1.94	70.41	1758475.29	434779.79	39°41'25.9884"N	80°21'29.7572"W	70.43	91.579	6.26	6.26	0.39
7399.00	21.820	143.290	7385.56	72.27	-26.16	88.65	1758493.53	434755.58	39°41'25.7508"N	80°21'29.5209"W	92.43	106.439	6.74	6.74	0.71
7493.00	28.700	142.250	7470.52	112.33	-58.05	112.94	1758517.82	434723.69	39°41'25.4379"N	80°21'29.2063"W	126.98	117.202	7.33	7.32	-1.11
7588.00	34.770	140.730	7551.28	162.17	-97.09	144.08	1758548.96	434684.65	39°41'25.0550"N	80°21'28.8032"W	173.74	123.975	6.44	6.39	-1.60
7682.00	42.560	141.030	7624.62	220.70	-142.63	181.09	1758585.97	434639.11	39°41'24.6085"N	80°21'28.3242"W	230.51	128.223	8.29	8.29	0.32
7777.00	50.350	142.800	7690.02	289.41	-196.82	223.48	1758628.35	434584.92	39°41'24.0769"N	80°21'27.7754"W	297.79	131.371	8.31	8.20	1.86
7871.00	57.640	142.140	7745.24	365.32	-257.07	269.79	1758674.66	434524.67	39°41'23.4858"N	80°21'27.1757"W	372.65	133.618	7.78	7.76	-0.70
7966.00	65.560	141.920	7790.39	448.71	-322.89	321.16	1758726.03	434458.86	39°41'22.8402"N	80°21'26.5105"W	455.42	135.154	8.34	8.34	-0.23
8061.00	74.630	143.840	7822.70	537.88	-394.07	374.98	1758779.84	434387.69	39°41'22.1419"N	80°21'25.8135"W	543.96	136.422	9.73	9.55	2.02
8156.00	79.520	143.540	7843.95	630.42	-468.66	429.79	1758834.65	434313.10	39°41'21.4099"N	80°21'25.1033"W	635.89	137.477	5.16	5.15	-0.32
8250.00	84.800	142.430	7856.76	723.45	-542.98	485.84	1758890.70	434238.78	39°41'20.6807"N	80°21'24.3774"W	728.60	138.179	5.74	5.62	-1.18
8345.00	88.230	145.010	7862.54	818.23	-619.41	541.93	1758946.79	434162.36	39°41'19.9307"N	80°21'23.6505"W	823.01	138.817	4.51	3.61	2.72
8440.00	89.930	146.430	7864.06	913.20	-697.89	595.43	1759000.28	434083.88	39°41'19.1601"N	80°21'22.9567"W	917.38	139.530	2.33	1.79	1.49
8534.00	90.360	146.430	7863.83	1007.17	-776.21	647.40	1759052.26	434005.57	39°41'18.3910"N	80°21'22.2823"W	1010.76	140.170	0.46	0.46	0.00
8628.00	89.930	146.130	7863.59	1101.15	-854.40	699.59	1759104.43	433927.39	39°41'17.6232"N	80°21'21.6053"W	1104.27	140.689	0.56	-0.46	-0.32
8723.00	89.930	146.190	7863.70	1196.13	-933.30	752.49	1759157.33	433848.48	39°41'16.8484"N	80°21'20.9190"W	1198.87	141.122	0.06	0.00	0.06

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS CO, LLC	Well	WDTN-18J-HSM
Field	Monongalia	UVI	47-061-02002-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18J-HSM AWB
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WELLPATH DATA (301 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]
8818.00	89.530	145.760	7864.15	1291.11	-1012.04	805.65	1759210.49	433769.75	39°41'16.0753"N	80°21'20.2295"W	1293.56	141.478	0.62	-0.42	-0.45
8912.00	90.430	146.170	7864.18	1385.10	-1089.93	858.26	1759263.10	433691.86	39°41'15.3105"N	80°21'19.5471"W	1387.29	141.782	1.05	0.96	0.44
9007.00	90.210	145.890	7863.65	1480.08	-1168.72	911.34	1759316.17	433613.08	39°41'14.5368"N	80°21'18.8586"W	1482.04	142.054	0.37	-0.23	-0.29
9101.00	90.550	146.370	7863.03	1574.06	-1246.76	963.72	1759368.56	433535.04	39°41'13.7705"N	80°21'18.1790"W	1575.81	142.297	0.63	0.36	0.51
9196.00	90.430	146.430	7862.22	1669.03	-1325.89	1016.30	1759421.12	433455.92	39°41'12.9935"N	80°21'17.4970"W	1670.58	142.530	0.14	-0.13	0.06
9291.00	90.180	145.680	7861.71	1764.01	-1404.70	1069.34	1759474.17	433377.12	39°41'12.2196"N	80°21'16.8089"W	1765.41	142.719	0.83	-0.26	-0.79
9386.00	90.980	145.720	7860.75	1859.00	-1483.17	1122.87	1759527.70	433298.65	39°41'11.4491"N	80°21'16.1147"W	1860.28	142.872	0.84	0.84	0.04
9480.00	90.800	145.840	7859.29	1952.98	-1560.89	1175.73	1759580.55	433220.94	39°41'10.6860"N	80°21'15.4292"W	1954.15	143.011	0.23	-0.19	0.13
9575.00	90.920	146.310	7857.87	2047.95	-1639.71	1228.74	1759633.56	433142.12	39°41'9.9121"N	80°21'14.7415"W	2049.01	143.153	0.51	0.13	0.49
9670.00	90.980	146.170	7856.29	2142.91	-1718.68	1281.53	1759686.34	433063.16	39°41'9.1366"N	80°21'14.0568"W	2143.87	143.290	0.16	0.06	-0.15
9764.00	91.020	145.990	7854.65	2236.88	-1796.67	1333.98	1759738.79	432985.17	39°41'8.3708"N	80°21'13.3765"W	2237.75	143.407	0.20	0.04	-0.19
9859.00	90.770	145.680	7853.17	2331.86	-1875.26	1387.32	1759792.13	432906.58	39°41'7.5991"N	80°21'12.6846"W	2332.65	143.506	0.42	-0.26	-0.33
9954.00	90.950	145.870	7851.74	2426.84	-1953.80	1440.75	1759845.55	432828.04	39°41'6.8279"N	80°21'11.9918"W	2427.57	143.595	0.28	0.19	0.20
10049.00	91.080	145.850	7850.06	2521.82	-2032.42	1494.05	1759898.85	432749.43	39°41'6.0560"N	80°21'11.3004"W	2522.49	143.680	0.14	0.14	-0.02
10143.00	89.970	145.650	7849.20	2615.80	-2110.12	1546.95	1759951.75	432671.74	39°41'5.2931"N	80°21'10.6144"W	2616.42	143.754	1.20	-1.18	-0.21
10238.00	89.940	145.870	7849.27	2710.79	-2188.65	1600.41	1760005.20	432593.21	39°41'4.5220"N	80°21'9.9212"W	2711.36	143.825	0.23	-0.03	0.23
10333.00	90.120	146.150	7849.22	2805.78	-2267.42	1653.52	1760058.31	432514.45	39°41'3.7486"N	80°21'9.2323"W	2806.30	143.899	0.35	0.19	0.29
10427.00	90.030	145.970	7849.10	2899.76	-2345.40	1706.00	1760110.79	432436.47	39°41'2.9828"N	80°21'8.5516"W	2900.23	143.969	0.21	-0.10	-0.19
10522.00	90.030	146.120	7849.05	2994.75	-2424.20	1759.06	1760163.84	432357.67	39°41'2.2090"N	80°21'7.8634"W	2995.17	144.034	0.16	0.00	0.16
10617.00	90.000	146.050	7849.02	3089.73	-2503.04	1812.07	1760216.85	432278.84	39°41'1.4349"N	80°21'7.1759"W	3090.11	144.097	0.08	-0.03	-0.07
10711.00	89.970	144.970	7849.05	3183.72	-2580.52	1865.29	1760270.07	432201.37	39°41'0.6742"N	80°21'6.4857"W	3184.08	144.139	1.15	-0.03	-1.15
10806.00	90.000	144.620	7849.07	3278.72	-2658.14	1920.06	1760324.84	432123.75	39°40'59.9122"N	80°21'5.7758"W	3279.08	144.158	0.37	0.03	-0.37
10901.00	89.970	145.130	7849.10	3373.72	-2735.84	1974.72	1760379.49	432046.05	39°40'59.1494"N	80°21'5.0673"W	3374.07	144.178	0.54	-0.03	0.54
10996.00	90.120	144.960	7849.02	3468.72	-2813.70	2029.15	1760433.92	431968.20	39°40'58.3850"N	80°21'4.3618"W	3469.06	144.202	0.24	0.16	-0.18
11091.00	90.150	145.020	7848.80	3563.72	-2891.51	2083.65	1760488.42	431890.39	39°40'57.6212"N	80°21'3.6553"W	3564.05	144.223	0.07	0.03	0.06
11185.00	89.780	144.670	7848.86	3657.72	-2968.37	2137.78	1760542.54	431813.54	39°40'56.8667"N	80°21'2.9537"W	3658.04	144.239	0.54	-0.39	-0.37
11280.00	89.910	145.220	7849.11	3752.72	-3046.13	2192.34	1760597.10	431735.78	39°40'56.1033"N	80°21'2.2464"W	3753.04	144.257	0.59	0.14	0.58
11374.00	89.630	144.680	7849.49	3846.72	-3123.09	2246.32	1760651.08	431658.83	39°40'55.3479"N	80°21'1.5467"W	3847.03	144.274	0.65	-0.30	-0.57
11469.00	89.880	144.790	7849.90	3941.72	-3200.65	2301.17	1760705.92	431581.27	39°40'54.5864"N	80°21'0.8358"W	3942.03	144.285	0.29	0.26	0.12
11563.00	90.000	144.960	7850.00	4035.72	-3277.53	2355.26	1760760.00	431504.40	39°40'53.8317"N	80°21'0.1348"W	4036.02	144.299	0.22	0.13	0.18



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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS CO, LLC	Well	WDTN-18J-HSM
Field	Monongalia	UWI	47-061-02002-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18J-HSM AWB
Slot	Slot J		

WELLPATH DATA (301 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]
11658.00	89.230	144.010	7850.63	4130.71	-3354.86	2410.44	1760815.19	431427.08	39°40'53.0727"N	80°20'59.4197"W	4131.02	144.303	1.29	-0.81	-1.00
11752.00	89.600	145.350	7851.59	4224.70	-3431.55	2464.78	1760869.52	431350.39	39°40'52.3199"N	80°20'58.7154"W	4225.01	144.311	1.48	0.39	1.43
11847.00	89.230	145.050	7852.56	4319.70	-3509.55	2519.00	1760923.73	431272.39	39°40'51.5540"N	80°20'58.0126"W	4319.99	144.331	0.50	-0.39	-0.32
11941.00	88.000	141.510	7854.84	4413.61	-3584.87	2575.17	1760979.91	431197.08	39°40'50.8150"N	80°20'57.2850"W	4413.93	144.309	3.99	-1.31	-3.77
12036.00	89.380	145.300	7857.01	4508.53	-3661.10	2631.78	1761036.51	431120.85	39°40'50.0669"N	80°20'56.5518"W	4508.87	144.290	4.24	1.45	3.99
12130.00	89.600	145.420	7857.85	4602.52	-3738.44	2685.21	1761089.94	431043.52	39°40'49.3076"N	80°20'55.8592"W	4602.85	144.311	0.27	0.23	0.13
12225.00	90.030	145.190	7858.15	4697.52	-3816.55	2739.28	1761144.01	430965.42	39°40'48.5407"N	80°20'55.1581"W	4697.84	144.332	0.51	0.45	-0.24
12319.00	90.060	144.910	7858.08	4791.52	-3893.59	2793.13	1761197.85	430888.37	39°40'47.7843"N	80°20'54.4602"W	4791.83	144.346	0.30	0.03	-0.30
12414.00	89.970	144.830	7858.05	4886.52	-3971.29	2847.80	1761252.52	430810.68	39°40'47.0216"N	80°20'53.7516"W	4886.83	144.356	0.13	-0.09	-0.08
12509.00	89.840	144.850	7858.21	4981.52	-4048.96	2902.51	1761307.22	430733.02	39°40'46.2592"N	80°20'53.0426"W	4981.83	144.365	0.14	-0.14	0.02
12603.00	89.880	143.840	7858.44	5075.51	-4125.33	2957.30	1761362.01	430656.65	39°40'45.5095"N	80°20'52.3326"W	5075.82	144.365	1.08	0.04	-1.07
12698.00	90.120	144.990	7858.44	5170.51	-4202.59	3012.58	1761417.29	430579.39	39°40'44.7511"N	80°20'51.6163"W	5170.82	144.366	1.24	0.25	1.21
12792.00	90.180	144.910	7858.19	5264.50	-4279.54	3066.56	1761471.27	430502.45	39°40'43.9956"N	80°20'50.9167"W	5264.82	144.376	0.11	0.06	-0.09
12887.00	89.810	144.580	7858.20	5359.50	-4357.12	3121.40	1761526.10	430424.87	39°40'43.2341"N	80°20'50.2060"W	5359.81	144.383	0.52	-0.39	-0.35
12981.00	89.780	144.790	7858.54	5453.50	-4433.82	3175.74	1761580.43	430348.18	39°40'42.4812"N	80°20'49.5018"W	5453.81	144.388	0.23	-0.03	0.22
13076.00	90.060	145.510	7858.67	5548.50	-4511.78	3230.02	1761634.72	430270.22	39°40'41.7157"N	80°20'48.7982"W	5548.80	144.401	0.81	0.29	0.76
13170.00	90.060	145.210	7858.57	5642.50	-4589.12	3283.45	1761688.14	430192.89	39°40'40.9564"N	80°20'48.1055"W	5642.79	144.417	0.32	0.00	-0.32
13265.00	90.060	145.180	7858.47	5737.50	-4667.12	3337.68	1761742.36	430114.89	39°40'40.1906"N	80°20'47.4026"W	5737.78	144.430	0.03	0.00	-0.03
13360.00	89.540	144.980	7858.81	5832.50	-4745.02	3392.06	1761796.74	430037.00	39°40'39.4259"N	80°20'46.6978"W	5832.77	144.440	0.59	-0.55	-0.21
13454.00	90.460	144.810	7858.81	5926.50	-4821.92	3446.11	1761850.80	429960.10	39°40'38.6709"N	80°20'45.9972"W	5926.77	144.447	1.00	0.98	-0.18
13549.00	90.590	145.010	7857.93	6021.49	-4899.65	3500.72	1761905.40	429882.38	39°40'37.9078"N	80°20'45.2895"W	6021.76	144.455	0.25	0.14	0.21
13644.00	90.550	144.790	7856.99	6116.49	-4977.37	3555.35	1761960.02	429804.66	39°40'37.1448"N	80°20'44.5816"W	6116.76	144.462	0.24	-0.04	-0.23
13738.00	90.340	144.380	7856.26	6210.48	-5053.98	3609.82	1762014.49	429728.06	39°40'36.3928"N	80°20'43.8757"W	6210.75	144.464	0.49	-0.22	-0.44
13833.00	90.030	145.300	7855.95	6305.48	-5131.64	3664.52	1762069.19	429650.40	39°40'35.6304"N	80°20'43.1668"W	6305.75	144.469	1.02	-0.33	0.97
13927.00	89.720	144.530	7856.16	6399.48	-5208.56	3718.55	1762123.22	429573.48	39°40'34.8752"N	80°20'42.4665"W	6399.75	144.476	0.88	-0.33	-0.82
14021.00	89.630	144.730	7856.69	6493.47	-5285.21	3772.96	1762177.63	429496.84	39°40'34.1228"N	80°20'41.7615"W	6493.74	144.478	0.23	-0.10	0.21
14116.00	89.540	144.910	7857.38	6588.47	-5362.86	3827.70	1762232.35	429419.20	39°40'33.3605"N	80°20'41.0522"W	6588.74	144.483	0.21	-0.09	0.19
14211.00	89.260	143.740	7858.37	6683.46	-5440.02	3883.10	1762287.75	429342.04	39°40'32.6031"N	80°20'40.3345"W	6683.73	144.481	1.27	-0.29	-1.23
14305.00	89.510	144.670	7859.38	6777.44	-5516.26	3938.07	1762342.72	429265.80	39°40'31.8547"N	80°20'39.6222"W	6777.72	144.477	1.02	0.27	0.99
14400.00	89.540	144.640	7860.17	6872.44	-5593.75	3993.03	1762397.67	429188.32	39°40'31.0941"N	80°20'38.9101"W	6872.72	144.479	0.04	0.03	-0.03

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Actual Wellpath Report

WDTN-18J-HSM AWP Proj: 25834'
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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS CO, LLC	Well	WDTN-18J-HSM
Field	Monongalia	UWI	47-061-02002-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18J-HSM AWB
Slot	Slot J		

WELLPATH DATA (301 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]
14494.00	89.420	144.540	7861.02	6966.43	-5670.36	4047.49	1762452.13	429111.72	39°40'30.3420"N	80°20'38.2044"W	6966.72	144.481	0.17	-0.13	-0.11
14589.00	89.600	144.820	7861.84	7061.43	-5747.87	4102.41	1762507.05	429034.21	39°40'29.5811"N	80°20'37.4928"W	7061.71	144.484	0.35	0.19	0.29
14683.00	89.510	144.600	7862.57	7155.42	-5824.59	4156.71	1762561.35	428957.49	39°40'28.8279"N	80°20'36.7891"W	7155.71	144.486	0.25	-0.10	-0.23
14778.00	89.760	145.200	7863.17	7250.42	-5902.32	4211.34	1762615.97	428879.77	39°40'28.0649"N	80°20'36.0812"W	7250.70	144.492	0.68	0.26	0.63
14872.00	88.280	145.100	7864.78	7344.40	-5979.44	4265.04	1762669.68	428802.65	39°40'27.3076"N	80°20'35.3852"W	7344.68	144.500	1.58	-1.57	-0.11
14967.00	88.400	145.700	7867.53	7439.36	-6057.61	4318.97	1762723.59	428724.49	39°40'26.5402"N	80°20'34.6862"W	7439.63	144.512	0.64	0.13	0.63
15061.00	88.400	145.290	7870.16	7533.32	-6135.04	4372.19	1762776.82	428647.06	39°40'25.7799"N	80°20'33.9963"W	7533.58	144.524	0.44	0.00	-0.44
15156.00	88.400	145.410	7872.81	7628.28	-6213.16	4426.19	1762830.81	428568.95	39°40'25.0128"N	80°20'33.2964"W	7628.53	144.534	0.13	0.00	0.13
15250.00	88.250	145.360	7875.56	7722.24	-6290.49	4479.56	1762884.18	428491.62	39°40'24.2536"N	80°20'32.6046"W	7722.48	144.545	0.17	-0.16	-0.05
15345.00	88.120	144.970	7878.56	7817.19	-6368.43	4533.80	1762938.41	428413.69	39°40'23.4884"N	80°20'31.9016"W	7817.43	144.552	0.43	-0.14	-0.41
15439.00	88.460	145.400	7881.37	7911.15	-6445.57	4587.44	1762992.05	428336.56	39°40'22.7310"N	80°20'31.2064"W	7911.38	144.560	0.58	0.36	0.46
15534.00	86.950	145.430	7885.17	8006.07	-6523.71	4641.32	1763045.93	428258.41	39°40'21.9637"N	80°20'30.5080"W	8006.29	144.570	1.59	-1.59	0.03
15629.00	86.860	145.330	7890.30	8100.92	-6601.78	4695.22	1763099.82	428180.35	39°40'21.1972"N	80°20'29.8095"W	8101.14	144.579	0.14	-0.09	-0.11
15723.00	87.050	145.350	7895.30	8194.79	-6678.99	4748.60	1763153.20	428103.15	39°40'20.4391"N	80°20'29.1176"W	8195.00	144.588	0.20	0.20	0.02
15817.00	86.890	144.750	7900.27	8288.66	-6755.93	4802.37	1763206.97	428026.21	39°40'19.6837"N	80°20'28.4207"W	8288.87	144.593	0.66	-0.17	-0.64
15912.00	87.260	144.820	7905.11	8383.53	-6833.44	4857.08	1763261.68	427948.70	39°40'18.9227"N	80°20'27.7118"W	8383.74	144.595	0.40	0.39	0.07
16006.00	87.320	144.930	7909.56	8477.43	-6910.24	4911.11	1763315.70	427871.91	39°40'18.1688"N	80°20'27.0118"W	8477.64	144.599	0.13	0.06	0.12
16101.00	87.380	144.990	7913.95	8572.33	-6987.93	4965.59	1763370.18	427794.22	39°40'17.4060"N	80°20'26.3058"W	8572.53	144.603	0.09	0.06	0.06
16195.00	87.200	144.830	7918.39	8666.22	-7064.76	5019.57	1763424.15	427717.39	39°40'16.6517"N	80°20'25.6063"W	8666.43	144.606	0.26	-0.19	-0.17
16289.00	88.280	145.250	7922.10	8760.15	-7141.74	5073.39	1763477.97	427640.42	39°40'15.8959"N	80°20'24.9089"W	8760.35	144.611	1.23	1.15	0.45
16384.00	87.750	144.740	7925.39	8855.09	-7219.51	5127.85	1763532.43	427562.66	39°40'15.1324"N	80°20'24.2031"W	8855.29	144.615	0.77	-0.56	-0.54
16478.00	87.880	145.020	7928.98	8949.02	-7296.34	5181.89	1763586.46	427485.83	39°40'14.3781"N	80°20'23.5030"W	8949.22	144.617	0.33	0.14	0.30
16573.00	87.970	145.240	7932.42	9043.96	-7374.23	5236.17	1763640.74	427407.95	39°40'13.6133"N	80°20'22.7996"W	9044.15	144.623	0.25	0.09	0.23
16668.00	87.940	144.970	7935.81	9138.90	-7452.10	5290.48	1763695.05	427330.08	39°40'12.8488"N	80°20'22.0957"W	9139.09	144.628	0.29	-0.03	-0.28
16762.00	87.780	144.870	7939.32	9232.83	-7528.97	5344.46	1763749.03	427253.21	39°40'12.0941"N	80°20'21.3962"W	9233.02	144.631	0.20	-0.17	-0.11
16857.00	88.310	144.310	7942.56	9327.77	-7606.35	5399.48	1763804.04	427175.84	39°40'11.3344"N	80°20'20.6835"W	9327.97	144.630	0.81	0.56	-0.59
16952.00	87.970	144.990	7945.64	9422.72	-7683.80	5454.41	1763858.97	427098.40	39°40'10.5742"N	80°20'19.9718"W	9422.92	144.631	0.80	-0.36	0.72
17046.00	88.340	145.030	7948.67	9516.67	-7760.77	5508.29	1763912.84	427021.43	39°40'9.8185"N	80°20'19.2737"W	9516.87	144.634	0.40	0.39	0.04
17141.00	88.090	145.200	7951.63	9611.63	-7838.66	5562.59	1763967.15	426943.55	39°40'9.0537"N	80°20'18.5699"W	9611.82	144.639	0.32	-0.26	0.18
17236.00	87.850	145.010	7954.99	9706.57	-7916.53	5616.91	1764021.46	426865.68	39°40'8.2892"N	80°20'17.8661"W	9706.75	144.644	0.32	-0.25	-0.20



Actual Wellpath Report

WDTN-18J-HSM AWP Proj: 25834'

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS CO, LLC	Well	WDTN-18J-HSM
Field	Monongalia	UWI	47-061-02002-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18J-HSM AWB
Slot	Slot J		

WELLPATH DATA (301 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]
17330.00	89.140	145.350	7957.46	9800.53	-7993.67	5670.56	1764075.11	426788.55	39°40'7.5318"N	80°20'17.1709"W	9800.71	144.649	1.42	1.37	0.36
17425.00	89.200	145.100	7958.84	9895.52	-8071.69	5724.74	1764129.28	426710.53	39°40'6.7657"N	80°20'16.4688"W	9895.70	144.654	0.27	0.06	-0.26
17520.00	88.920	144.880	7960.39	9990.51	-8149.49	5779.24	1764183.77	426632.73	39°40'6.0018"N	80°20'15.7626"W	9990.69	144.658	0.37	-0.29	-0.23
17614.00	89.020	145.490	7962.08	10084.49	-8226.65	5832.89	1764237.43	426555.57	39°40'5.2442"N	80°20'15.0673"W	10084.67	144.662	0.66	0.11	0.65
17709.00	89.110	145.380	7963.63	10179.48	-8304.87	5886.78	1764291.32	426477.36	39°40'4.4761"N	80°20'14.3689"W	10179.64	144.670	0.15	0.09	-0.12
17899.00	90.090	145.220	7964.96	10369.47	-8461.08	5994.94	1764399.47	426321.17	39°40'2.9424"N	80°20'12.9672"W	10369.63	144.681	0.52	0.52	-0.08
17993.00	89.940	144.820	7964.94	10463.47	-8538.09	6048.83	1764453.36	426244.15	39°40'2.1862"N	80°20'12.2690"W	10463.62	144.684	0.45	-0.16	-0.43
18088.00	89.690	144.870	7965.24	10558.46	-8615.77	6103.53	1764508.05	426166.49	39°40'1.4237"N	80°20'11.5603"W	10558.62	144.686	0.27	-0.26	0.05
18182.00	90.190	145.280	7965.34	10652.46	-8692.84	6157.35	1764561.86	426089.42	39°40'0.6670"N	80°20'10.8630"W	10652.62	144.689	0.69	0.53	0.44
18277.00	90.460	144.420	7964.80	10747.46	-8770.51	6212.04	1764616.55	426011.75	39°39'59.9044"N	80°20'10.1544"W	10747.62	144.691	0.95	0.28	-0.91
18371.00	90.340	144.830	7964.15	10841.46	-8847.15	6266.46	1764670.97	425935.11	39°39'59.1519"N	80°20'9.4495"W	10841.62	144.690	0.45	-0.13	0.44
18466.00	90.090	144.810	7963.79	10936.46	-8924.80	6321.19	1764725.70	425857.47	39°39'58.3896"N	80°20'8.7404"W	10936.61	144.691	0.26	-0.26	-0.02
18561.00	90.560	143.790	7963.25	11031.45	-9001.95	6376.62	1764781.13	425780.33	39°39'57.6323"N	80°20'8.0224"W	11031.61	144.688	1.18	0.49	-1.07
18655.00	89.730	144.550	7963.01	11125.43	-9078.16	6431.65	1764836.15	425704.12	39°39'56.8842"N	80°20'7.3097"W	11125.60	144.683	1.20	-0.88	0.81
18750.00	90.870	144.770	7962.52	11220.43	-9155.65	6486.60	1764891.09	425626.64	39°39'56.1234"N	80°20'6.5979"W	11220.60	144.683	1.22	1.20	0.23
18845.00	90.840	144.840	7961.10	11315.42	-9233.27	6541.35	1764945.84	425549.02	39°39'55.3613"N	80°20'5.8886"W	11315.59	144.684	0.08	-0.03	0.07
18939.00	91.260	144.680	7959.37	11409.40	-9310.04	6595.58	1765000.07	425472.26	39°39'54.6077"N	80°20'5.1861"W	11409.57	144.685	0.48	0.45	-0.17
19034.00	91.420	144.430	7957.15	11504.37	-9387.41	6650.65	1765055.14	425394.89	39°39'53.8481"N	80°20'4.4727"W	11504.55	144.684	0.31	0.17	-0.26
19128.00	91.080	144.630	7955.10	11598.35	-9463.94	6705.19	1765109.67	425318.36	39°39'53.0967"N	80°20'3.7663"W	11598.52	144.683	0.42	-0.36	0.21
19223.00	91.080	144.480	7953.31	11693.33	-9541.32	6760.27	1765164.75	425240.98	39°39'52.3370"N	80°20'3.0528"W	11693.51	144.681	0.16	0.00	-0.16
19318.00	91.420	144.810	7951.24	11788.30	-9618.79	6815.23	1765219.70	425163.53	39°39'51.5766"N	80°20'2.3409"W	11788.48	144.681	0.50	0.36	0.35
19412.00	91.510	145.110	7948.84	11882.27	-9695.72	6869.18	1765273.65	425086.59	39°39'50.8212"N	80°20'1.6419"W	11882.45	144.683	0.33	0.10	0.32
19507.00	91.480	144.720	7946.36	11977.24	-9773.44	6923.76	1765328.23	425008.89	39°39'50.0582"N	80°20'0.9347"W	11977.42	144.685	0.41	-0.03	-0.41
19602.00	91.230	144.410	7944.11	12072.21	-9850.82	6978.83	1765383.29	424931.51	39°39'49.2985"N	80°20'0.2215"W	12072.39	144.684	0.42	-0.26	-0.33
19696.00	91.290	144.460	7942.04	12166.18	-9927.26	7033.49	1765437.95	424855.07	39°39'48.5480"N	80°19'59.5135"W	12166.37	144.682	0.08	0.06	0.05
19791.00	91.140	144.090	7940.03	12261.15	-10004.37	7088.95	1765493.41	424777.97	39°39'47.7911"N	80°19'58.7953"W	12261.34	144.679	0.42	-0.16	-0.39
19885.00	90.960	144.350	7938.31	12355.13	-10080.62	7143.90	1765548.35	424701.72	39°39'47.0426"N	80°19'58.0837"W	12355.33	144.676	0.34	-0.19	0.28
19980.00	91.230	145.010	7936.49	12450.11	-10158.12	7198.81	1765603.26	424624.23	39°39'46.2817"N	80°19'57.3724"W	12450.31	144.676	0.75	0.28	0.69
20075.00	91.080	144.850	7934.58	12545.09	-10235.85	7253.38	1765657.83	424546.50	39°39'45.5185"N	80°19'56.6654"W	12545.29	144.678	0.23	-0.16	-0.17
20170.00	91.170	144.650	7932.71	12640.07	-10313.42	7308.20	1765712.65	424468.94	39°39'44.7569"N	80°19'55.9553"W	12640.27	144.678	0.23	0.09	-0.21

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS CO, LLC	Well	WDTN-18J-HSM
Field	Monongalia	UWI	47-061-02002-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18J-HSM AWB
Slot	Slot J		

WELLPATH DATA (301 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]
20264.00	91.300	144.800	7930.69	12734.05	-10390.14	7362.47	1765766.92	424392.22	39°39'44.0037"N	80°19'55.2523"W	12734.25	144.679	0.21	0.14	0.16
20359.00	91.110	144.210	7928.69	12829.02	-10467.47	7417.62	1765822.06	424314.89	39°39'43.2445"N	80°19'54.5380"W	12829.22	144.677	0.65	-0.20	-0.62
20454.00	91.850	145.080	7926.23	12923.99	-10544.92	7472.57	1765877.01	424237.45	39°39'42.4841"N	80°19'53.8262"W	12924.19	144.677	1.20	0.78	0.92
20549.00	91.600	144.830	7923.37	13018.94	-10622.66	7527.10	1765931.53	424159.71	39°39'41.7208"N	80°19'53.1198"W	13019.15	144.679	0.37	-0.26	-0.26
20643.00	91.360	144.710	7920.95	13112.91	-10699.42	7581.30	1765985.74	424082.96	39°39'40.9672"N	80°19'52.4177"W	13113.12	144.680	0.29	-0.26	-0.13
20738.00	91.290	144.390	7918.75	13207.88	-10776.79	7636.39	1766040.82	424005.59	39°39'40.2076"N	80°19'51.7042"W	13208.09	144.679	0.34	-0.07	-0.34
20833.00	91.720	144.430	7916.26	13302.84	-10854.02	7691.66	1766096.08	423928.37	39°39'39.4495"N	80°19'50.9884"W	13303.06	144.677	0.45	0.45	0.04
20927.00	91.260	144.390	7913.81	13396.81	-10930.43	7746.35	1766150.77	423851.96	39°39'38.6993"N	80°19'50.2802"W	13397.02	144.675	0.49	-0.49	-0.04
21022.00	91.450	144.080	7911.56	13491.77	-11007.50	7801.85	1766206.27	423774.90	39°39'37.9428"N	80°19'49.5614"W	13491.99	144.672	0.38	0.20	-0.33
21116.00	91.420	144.010	7909.21	13585.73	-11083.56	7857.03	1766261.44	423698.84	39°39'37.1960"N	80°19'48.8469"W	13585.96	144.668	0.08	-0.03	-0.07
21211.00	91.230	144.730	7907.01	13680.70	-11160.76	7912.36	1766316.77	423621.65	39°39'36.4382"N	80°19'48.1304"W	13680.93	144.665	0.78	-0.20	0.76
21306.00	91.420	144.480	7904.82	13775.67	-11238.18	7967.37	1766371.77	423544.23	39°39'35.6781"N	80°19'47.4179"W	13775.91	144.665	0.33	0.20	-0.26
21400.00	91.260	144.480	7902.62	13869.64	-11314.67	8021.96	1766426.37	423467.75	39°39'34.9272"N	80°19'46.7108"W	13869.88	144.664	0.17	-0.17	0.00
21495.00	91.350	145.510	7900.45	13964.61	-11392.46	8076.45	1766480.85	423389.96	39°39'34.1634"N	80°19'46.0051"W	13964.85	144.666	1.09	0.09	1.08
21589.00	91.410	145.780	7898.19	14058.58	-11470.04	8129.48	1766533.87	423312.39	39°39'33.4015"N	80°19'45.3179"W	14058.81	144.673	0.29	0.06	0.29
21684.00	91.350	145.400	7895.90	14153.55	-11548.39	8183.15	1766587.54	423234.04	39°39'32.6321"N	80°19'44.6225"W	14153.77	144.679	0.40	-0.06	-0.40
21779.00	91.230	145.380	7893.76	14248.52	-11626.56	8237.09	1766641.48	423155.87	39°39'31.8645"N	80°19'43.9235"W	14248.74	144.684	0.13	-0.13	-0.02
21874.00	91.450	145.560	7891.54	14343.49	-11704.80	8290.93	1766695.31	423077.64	39°39'31.0961"N	80°19'43.2260"W	14343.70	144.689	0.30	0.23	0.19
21969.00	91.510	145.480	7889.09	14438.46	-11783.09	8344.69	1766749.07	422999.36	39°39'30.3274"N	80°19'42.5294"W	14438.66	144.694	0.11	0.06	-0.08
22063.00	90.640	145.630	7887.33	14532.44	-11860.59	8397.85	1766802.23	422921.86	39°39'29.5663"N	80°19'41.8406"W	14532.63	144.700	0.94	-0.93	0.16
22158.00	90.610	145.560	7886.29	14627.42	-11938.97	8451.52	1766855.90	422843.49	39°39'28.7966"N	80°19'41.1451"W	14627.62	144.706	0.08	-0.03	-0.07
22252.00	90.090	145.770	7885.72	14721.42	-12016.59	8504.54	1766908.91	422765.87	39°39'28.0343"N	80°19'40.4581"W	14721.60	144.712	0.60	-0.55	0.22
22347.00	90.310	145.880	7885.38	14816.41	-12095.18	8557.90	1766962.27	422687.28	39°39'27.2625"N	80°19'39.7666"W	14816.58	144.719	0.26	0.23	0.12
22442.00	90.210	145.840	7884.95	14911.39	-12173.81	8611.22	1767015.59	422608.66	39°39'26.4903"N	80°19'39.0757"W	14911.56	144.726	0.11	-0.11	-0.04
22536.00	90.280	145.910	7884.55	15005.38	-12251.62	8663.95	1767068.32	422530.85	39°39'25.7260"N	80°19'38.3924"W	15005.54	144.733	0.11	0.07	0.07
22631.00	90.030	144.960	7884.29	15100.38	-12329.85	8717.85	1767122.21	422452.62	39°39'24.9578"N	80°19'37.6941"W	15100.54	144.738	1.03	-0.26	-1.00
22726.00	90.240	145.490	7884.07	15195.38	-12407.89	8772.03	1767176.39	422374.60	39°39'24.1916"N	80°19'36.9922"W	15195.53	144.741	0.60	0.22	0.56
22820.00	90.210	145.900	7883.70	15289.37	-12485.53	8825.01	1767229.36	422296.95	39°39'23.4290"N	80°19'36.3057"W	15289.52	144.747	0.44	-0.03	0.44
22915.00	90.210	145.920	7883.35	15384.36	-12564.21	8878.26	1767282.61	422218.28	39°39'22.6564"N	80°19'35.6157"W	15384.50	144.754	0.02	0.00	0.02
23010.00	90.270	145.900	7882.95	15479.34	-12642.88	8931.50	1767335.85	422139.61	39°39'21.8837"N	80°19'34.9257"W	15479.48	144.761	0.07	0.06	-0.02



Actual Wellpath Report

WDTN-18J-HSM AWP Proj: 25834'

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS CO, LLC	Well	WDTN-18J-HSM
Field	Monongalia	UWI	47-061-02002-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18J-HSM AWB
Slot	Slot J		

WELLPATH DATA (301 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]
23105.00	90.710	145.550	7882.14	15574.33	-12721.38	8985.00	1767389.35	422061.12	39°39'21.1128"N	80°19'34.2325"W	15574.46	144.767	0.59	0.46	-0.37
23199.00	90.430	145.140	7881.21	15668.33	-12798.70	9038.45	1767442.79	421983.80	39°39'20.3535"N	80°19'33.5401"W	15668.45	144.770	0.53	-0.30	-0.44
23294.00	90.610	145.460	7880.34	15763.32	-12876.80	9092.53	1767496.87	421905.71	39°39'19.5866"N	80°19'32.8395"W	15763.44	144.773	0.39	0.19	0.34
23389.00	90.000	145.890	7879.84	15858.31	-12955.26	9146.10	1767550.43	421827.26	39°39'18.8161"N	80°19'32.1454"W	15858.43	144.779	0.79	-0.64	0.45
23483.00	89.660	144.710	7880.12	15952.31	-13032.54	9199.61	1767603.94	421749.98	39°39'18.0572"N	80°19'31.4522"W	15952.42	144.782	1.31	-0.36	-1.26
23578.00	90.150	145.850	7880.28	16047.30	-13110.62	9253.72	1767658.05	421671.90	39°39'17.2905"N	80°19'30.7513"W	16047.42	144.785	1.31	0.52	1.20
23673.00	89.970	145.800	7880.18	16142.29	-13189.22	9307.08	1767711.41	421593.31	39°39'16.5186"N	80°19'30.0599"W	16142.40	144.791	0.20	-0.19	-0.05
23768.00	90.150	145.750	7880.08	16237.29	-13267.76	9360.51	1767764.83	421514.77	39°39'15.7472"N	80°19'29.3675"W	16237.39	144.797	0.20	0.19	-0.05
23862.00	90.060	145.520	7879.90	16331.28	-13345.36	9413.57	1767817.89	421437.18	39°39'14.9851"N	80°19'28.6801"W	16331.38	144.802	0.26	-0.10	-0.24
23957.00	90.240	145.850	7879.66	16426.27	-13423.82	9467.13	1767871.44	421358.72	39°39'14.2146"N	80°19'27.9862"W	16426.37	144.807	0.40	0.19	0.35
24051.00	89.970	145.430	7879.48	16520.27	-13501.42	9520.18	1767924.49	421281.13	39°39'13.4525"N	80°19'27.2988"W	16520.36	144.811	0.53	-0.29	-0.45
24146.00	90.060	145.730	7879.46	16615.26	-13579.79	9573.88	1767978.19	421202.77	39°39'12.6829"N	80°19'26.6031"W	16615.35	144.816	0.33	0.09	0.32
24241.00	90.120	145.840	7879.31	16710.25	-13658.35	9627.30	1768031.60	421124.21	39°39'11.9114"N	80°19'25.9110"W	16710.33	144.821	0.13	0.06	0.12
24336.00	90.680	145.810	7878.65	16805.24	-13736.94	9680.66	1768084.96	421045.62	39°39'11.1395"N	80°19'25.2196"W	16805.32	144.827	0.59	0.59	-0.03
24430.00	90.640	146.130	7877.56	16899.22	-13814.84	9733.26	1768137.56	420967.73	39°39'10.3744"N	80°19'24.5380"W	16899.29	144.833	0.34	-0.04	0.34
24525.00	90.640	144.140	7876.50	16994.21	-13892.77	9787.56	1768191.86	420889.80	39°39'9.6091"N	80°19'23.8347"W	16994.28	144.835	2.09	0.00	-2.09
24620.00	90.180	144.110	7875.82	17089.20	-13969.75	9843.23	1768247.52	420812.83	39°39'8.8534"N	80°19'23.1140"W	17089.27	144.831	0.49	-0.48	-0.03
24714.00	89.470	144.470	7876.11	17183.19	-14046.08	9898.10	1768302.39	420736.51	39°39'8.1041"N	80°19'22.4036"W	17183.26	144.828	0.85	-0.76	0.38
24809.00	89.600	144.240	7876.88	17278.18	-14123.27	9953.46	1768357.74	420659.31	39°39'7.3462"N	80°19'21.6868"W	17278.26	144.826	0.28	0.14	-0.24
24904.00	89.540	144.590	7877.59	17373.17	-14200.53	10008.74	1768413.02	420582.06	39°39'6.5877"N	80°19'20.9711"W	17373.25	144.823	0.37	-0.06	0.37
24998.00	89.200	144.020	7878.63	17467.16	-14276.87	10063.58	1768467.86	420505.73	39°39'5.8382"N	80°19'20.2610"W	17467.24	144.820	0.71	-0.36	-0.61
25093.00	89.200	144.650	7879.95	17562.14	-14354.04	10118.96	1768523.24	420428.56	39°39'5.0805"N	80°19'19.5440"W	17562.23	144.818	0.66	0.00	0.66
25188.00	89.040	144.530	7881.41	17657.13	-14431.46	10174.00	1768578.27	420351.15	39°39'4.3204"N	80°19'18.8313"W	17657.22	144.817	0.21	-0.17	-0.13
25283.00	89.100	144.810	7882.95	17752.11	-14508.95	10228.93	1768633.20	420273.66	39°39'3.5595"N	80°19'18.1200"W	17752.20	144.816	0.30	0.06	0.29
25377.00	89.140	144.490	7884.40	17846.10	-14585.61	10283.31	1768687.58	420197.00	39°39'2.8068"N	80°19'17.4159"W	17846.19	144.815	0.34	0.04	-0.34
25472.00	89.780	144.690	7885.29	17941.09	-14663.04	10338.35	1768742.62	420119.58	39°39'2.0467"N	80°19'16.7032"W	17941.19	144.814	0.71	0.67	0.21
25566.00	89.720	144.530	7885.70	18035.09	-14739.67	10392.79	1768797.05	420042.96	39°39'1.2943"N	80°19'15.9983"W	18035.19	144.813	0.18	-0.06	-0.17
25661.00	89.970	144.660	7885.96	18130.09	-14817.10	10447.83	1768852.09	419965.53	39°39'0.5340"N	80°19'15.2857"W	18130.18	144.812	0.30	0.26	0.14
25755.00	89.720	144.630	7886.21	18224.08	-14893.76	10502.22	1768906.47	419888.87	39°38'59.7812"N	80°19'14.5814"W	18224.18	144.811	0.27	-0.27	-0.03
25809.00	89.840	144.490	7886.42	18278.08	-14937.76	10533.53	1768937.78	419844.88	39°38'59.3493"N	80°19'14.1760"W	18278.18	144.810	0.34	0.22	-0.26

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Actual Wellpath Report

WDTN-18J-HSM AWP Proj: 25834'

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS CO, LLC	Well	WDTN-18J-HSM
Field	Monongalia	UWI	47-061-02002-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18J-HSM AWB
Slot	Slot J		

WELLPATH DATA (301 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]
25834.00‡	89.840	144.490	7886.49	18303.08	-14958.11	10548.05	1768952.30	419824.53	39°38'59.1495"N	80°19'13.9880"W	18303.18	144.810	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: WDTN-18J-HSM AWB Ref Wellpath: WDTN-18J-HSM AWP Proj: 25834'

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]
24in Open Hole	28.00	68.00	40.00	28.00	68.00	0.00	0.00	0.03	0.00
20in Conductor	28.00	68.00	40.00	28.00	68.00	0.00	0.00	0.03	0.00
17 1/2in Open Hole	68.00	1115.00	1047.00	68.00	1114.95	0.03	0.00	6.98	-3.65
13 3/8in Casing Surface	28.00	1115.00	1087.00	28.00	1114.95	0.00	0.00	6.98	-3.65
12 1/4in Open Hole	1115.00	2765.00	1650.00	1114.95	2763.27	6.98	-3.65	70.66	20.90
9 5/8in Casing Intermediate	28.00	2765.00	2737.00	28.00	2763.27	0.00	0.00	70.66	20.90
8 3/4in Open Hole	2765.00	6404.50	3639.50	2763.27	6402.10	70.66	20.90	71.90	8.23
8 1/2in Open Hole	6404.50	25834.00	19429.50	6402.10	7886.49	71.90	8.23	-14958.11	10548.05
5 1/2in Casing Production	28.00	25834.00	25806.00	28.00	7886.49	0.00	0.00	-14958.11	10548.05



Actual Wellpath Report

WDTN-18J-HSM AWP Proj: 25834'

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS CO, LLC	Well	WDTN-18J-HSM
Field	Monongalia	UWI	47-061-02002-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18J-HSM AWB
Slot	Slot J		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
WDTN-18J-HSM BHL Rev-1	7847.00	-14954.98	10552.64	1768956.89	419827.66	39°38'59.1809"N	80°19'13.9297"W	point
WDTN-18J-HSM LP Rev-1	7847.00	-605.71	505.17	1758910.03	434176.06	39°41'20.0626"N	80°21'24.1223"W	point
WDTN-18J-HSM LP Rev-2	7860.00	-605.71	505.17	1758910.03	434176.06	39°41'20.0626"N	80°21'24.1223"W	point
WDTN-18J-HSM BHL Rev-2	7880.00	-14954.98	10552.64	1768956.89	419827.66	39°38'59.1809"N	80°19'13.9297"W	point
TMP_01_12_29.6 Parcel Rev-1	8400.00	-4568.40	-595.10	1757809.82	430213.61	39°40'40.7970"N	80°21'37.7103"W	polygon
	2D Polygon:: dimensions not calculated							
TMP_01_13A Parcel Rev-1	8400.00	-6230.81	4851.13	1763255.73	428551.30	39°40'24.8778"N	80°20'27.8601"W	polygon
	2D Polygon:: dimensions not calculated							
WDTN-18 South Lease Rev-2	8500.00	-12830.68	12234.29	1770638.44	421951.83	39°39'20.3259"N	80°18'52.6782"W	polygon
	2D Polygon:: dimensions not calculated							

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WDTN-18J-HSM AWP Proj: 25834'

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS CO, LLC	Well	WDTN-18J-HSM
Field	Monongalia	UVI	47-061-02002-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18J-HSM AWB
Slot	Slot J		

WELLPATH COMPOSITION - Ref Wellbore: WDTN-18J-HSM AWB Ref Wellpath: WDTN-18J-HSM AWP Proj: 25834'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1033.50	BH Generic gyro - continuous (Standard)	01 Gyro <17-1/2"> (100'-1019')	WDTN-18J-HSM AWB	2026-01-02
1033.50	2728.50	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	02 SDI MWD+SuperiorQC IFR1+Sag+FDIR <12-1/4"> (1019')(1175'-2714')	WDTN-18J-HSM AWB	2026-01-02
2728.50	6329.50	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	03 SDI MWD+SuperiorQC IFR1+Sag+FDIR <8-3/4"> (2714')(2781'-6315')	WDTN-18J-HSM AWB	2026-01-02
6329.50	25834.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	04 BH Lucida+SuperiorQC IFR1+Sag+FDIR <8-1/2"> (6329.5')(6453'-25809')	WDTN-18J-HSM AWB	2026-01-08



Actual Wellpath Report

WDTN-18J-HSM AWP Proj: 25834'
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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS CO, LLC	Well	WDTN-18J-HSM
Field	Monongalia	UWI	47-061-02002-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18J-HSM AWB
Slot	Slot J		

COMMENTS

Wellpath general comments

API: 47-061-02002-0000

BH Job #: 112938803

Rig: Precision 575

Duration: 1/12/2026-1/15/2026

Gyro <17-1/2"> (100'-1019')

SDI MWD+SuperiorQC IFR1+Sag+FDIR <12-1/4"> (1019')(1175'-2714')

SDI MWD+SuperiorQC IFR1+Sag+FDIR <8-3/4"> (2714')(2781'-6315')

BH Lucida+SuperiorQC IFR1+Sag+FDIR <8-1/2"> (6329.5')(6453'-25809')

Projected MD at TD: 25834'

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