



CNX GAS CO, LLC



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

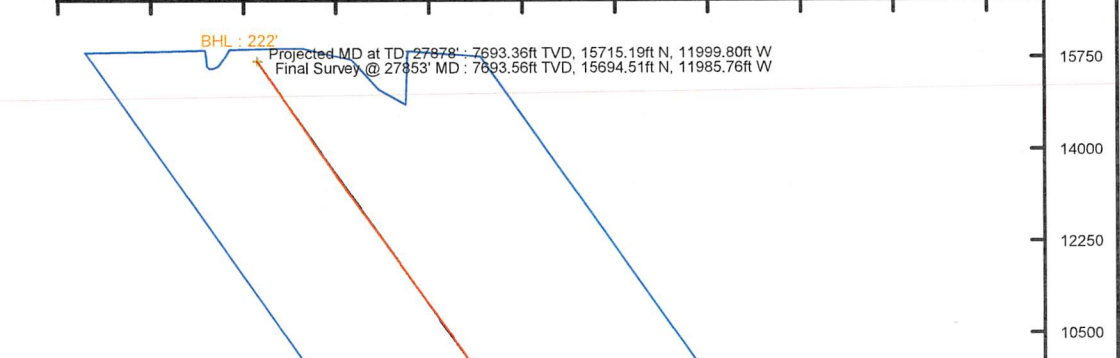
Slot: Slot C
Well: WDTN-18C-HSM
Wellbore: WDTN-18C-HSM PWB

Plot reference wellpath is: WDTN-18C-HSM PWB Rev-B.0	Grid System: NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet
True vertical depths are referenced to Precision 575 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to Precision 575 (RKB)	Scale: True distance
Precision 575 (RKB) to Mean Sea Level: 1226.77 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Mud line (At Slot: Slot C): -1198.77 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edstanyar on 2024-04-19; Database: WIA_MPL_EASTERJUN_Dwh

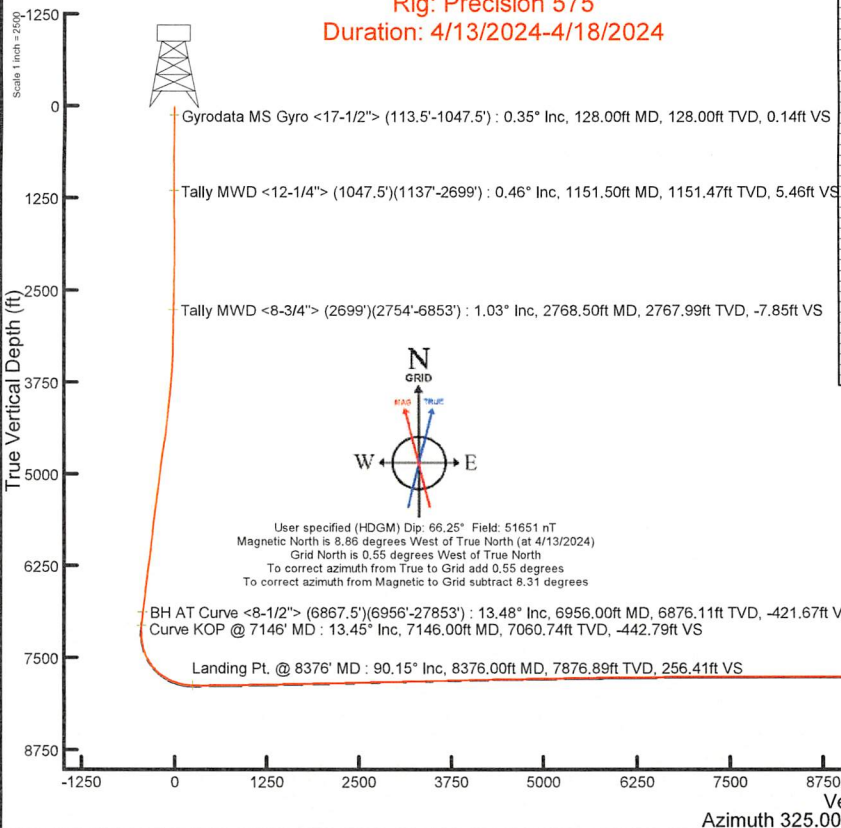
Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
WDTN-18 Pad	1758359.150	434429.260	39°41'22.5131"N	80°21'31.2000"W
Slot	Local N (ft)	Local E (ft)	Grid North (US ft)	Latitude
Slot C	513.44	38.57	1758397.720	434942.670
			39°41'27.5908"N	80°21'30.7694"W
Precision 575 (RKB) to Mud line (At Slot: Slot C)				28ft
Mean Sea Level to Mud line (At Slot: Slot C)				-1198.77ft
Precision 575 (RKB) to Mean Sea Level				1226.77ft

Well Data			
Slot	Well	Wellbore	Wellpath
Slot C	WDTN-18C-HSM	WDTN-18C-HSM AWB	WDTN-18C-HSM AWP Proj: 27878'
Slot C	WDTN-18C-HSM	WDTN-18C-HSM PWB	WDTN-18C-HSM PWP Rev-B.0

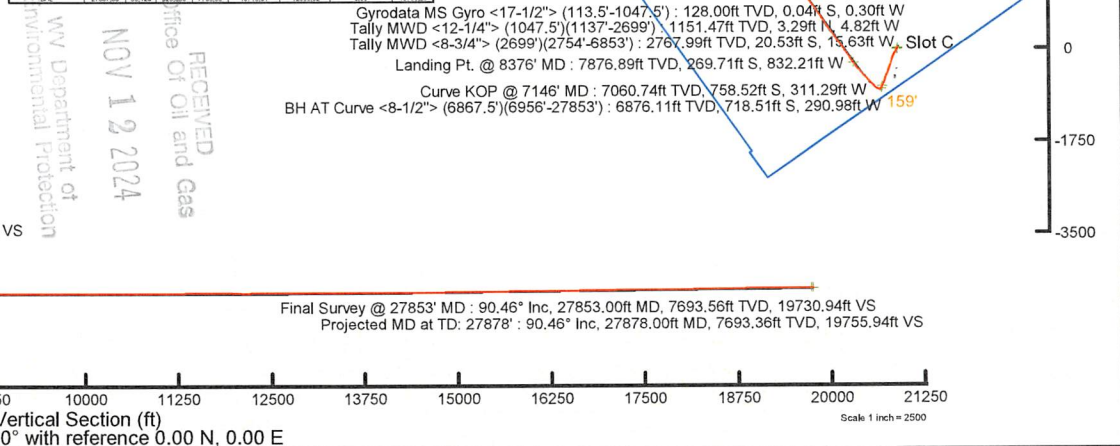
Scale 1 inch = 3500 Easting (ft)



API: 47-061-01946-0000
BH Job #: 112148370
Rig: Precision 575
Duration: 4/13/2024-4/18/2024



Well Profile Data									
Design Comment	MD (ft)	Inc. (°)	As. (°)	TVD (ft)	Low (ft)	Lead (ft)	Lead (ft)	ES (1100ft)	VS (ft)
Top On	6867.50	13.450	294.360	6790.05	-699.85	-282.23	0.85	0.85	-411.40
Req. to Bottom	6934.50	13.450	294.360	6855.21	-714.05	-288.66	0.00	0.00	-419.34
Curve KOP	7150.00	13.450	294.360	7067.23	-762.23	-309.60	0.00	0.00	-448.17
Turn	7467.00	14.363	298.670	7393.77	-770.27	-372.79	0.01	0.01	-417.14
Landing Pt.	8376.00	90.860	325.000	7888.00	-238.07	-820.45	8.26	298.19	
1250' V/S	8381.18	90.860	325.000	7871.00	-660.90	-1789.92	0.00	0.00	1359.00
End of Drop	8442.11	91.359	325.000	7899.96	-604.27	-1424.27	1.00	1.00	1311.92
2250' V/S	10389.47	91.389	325.000	7847.00	1380.07	-1987.49	0.00	0.00	2259.00
End of Drop	10390.87	91.375	325.000	7848.97	1381.23	-1988.50	1.00	1.00	2260.00
3250' V/S	11389.76	91.375	325.000	7833.00	2199.23	-2541.07	0.00	0.00	3259.00
End of Drop	11401.28	91.280	325.000	7822.74	2208.66	-2547.67	1.00	1.00	3270.11
4250' V/S	12390.00	91.280	325.000	7810.00	3016.39	-3114.65	0.00	0.00	4259.00
End of Drop	12415.11	91.029	325.000	7800.54	3037.31	-3127.90	1.00	1.00	4282.11
5250' V/S	13390.17	91.029	325.000	7793.00	3837.53	-3688.22	0.00	0.00	5259.00
End of Drop	13418.00	90.741	325.000	7782.54	3861.11	-3704.71	1.00	1.00	5287.59
6250' V/S	14390.25	90.741	325.000	7770.00	4656.66	-4261.80	0.00	0.00	6259.00
End of Drop	14413.00	90.513	325.000	7769.75	4675.33	-4274.85	1.00	1.00	6281.76
7250' V/S	15390.00	90.513	325.000	7761.00	5476.84	-4835.37	0.00	0.00	7259.00
End of Drop	15436.96	90.048	325.000	7760.77	5514.06	-4862.14	1.00	1.00	7305.66
8250' V/S	16390.29	90.048	325.000	7760.00	6294.99	-5498.95	0.00	0.00	8259.00
End of Drop	16412.00	89.826	325.000	7760.02	6313.07	-5421.81	1.00	1.00	8281.07
9250' V/S	17390.30	89.826	325.000	7763.00	7114.14	-6082.53	0.00	0.00	9259.00
End of Drop	17396.29	89.898	325.000	7763.02	7119.05	-6085.96	1.00	1.00	9264.99
10250' V/S	18390.30	89.898	325.000	7765.00	7933.29	-6656.10	0.00	0.00	10259.00
End of Drop	18413.47	90.117	325.000	7765.00	7952.27	-6666.39	1.00	1.00	10282.17
11250' V/S	19390.30	90.117	325.000	7763.00	8752.44	-7129.68	0.00	0.00	11259.00
End of Drop	19390.32	90.052	325.000	7762.98	8752.27	-7129.13	1.00	1.00	11259.01
12250' V/S	20390.30	90.052	325.000	7762.00	9571.60	-7703.25	0.00	0.00	12259.00
End of Drop	20419.39	90.348	325.000	7761.90	9595.42	-7719.94	1.00	1.00	12288.99
13250' V/S	21390.30	90.348	325.000	7759.00	10399.74	-8276.83	0.00	0.00	13259.00
End of Drop	21402.27	90.228	325.000	7758.94	10400.54	-8283.89	1.00	1.00	13270.95
14250' V/S	22390.30	90.228	325.000	7752.00	11299.90	-8850.41	0.00	0.00	14259.00
End of Drop	22418.47	90.520	325.000	7751.81	11323.77	-8867.12	1.00	1.00	14288.14
15250' V/S	23390.30	90.520	325.000	7743.00	12029.05	-9423.99	0.00	0.00	15259.00
End of Drop	23396.94	90.458	325.000	7742.95	12024.11	-9427.53	1.00	1.00	15265.17
16250' V/S	24390.42	90.458	325.000	7736.00	12844.00	-9997.04	0.00	0.00	16259.00
End of Drop	24390.42	90.458	325.000	7735.00	12848.22	-9997.57	1.00	1.00	16259.02
17250' V/S	25390.48	90.458	325.000	7727.00	13667.58	-10567.14	0.00	0.00	17259.00
End of Drop	25401.96	90.674	325.000	7726.90	13678.80	-10577.75	1.00	1.00	17270.52
18250' V/S	26390.48	90.674	325.000	7717.00	14488.51	-11144.72	0.00	0.00	18259.00
End of Drop	26402.83	90.420	325.000	7717.87	14499.08	-11155.52	1.00	1.00	18271.34
19250' V/S	27390.00	90.420	325.000	7709.00	15313.01	-11700.02	0.00	0.00	19259.00



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Actual Wellpath Report

WDTN-18C-HSM AWP Proj: 27878'
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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS CO, LLC	Well	WDTN-18C-HSM
Field	Monongalia	API	47-061-01946-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18C-HSM AWB
Slot	Slot C		

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	4/19/2024 at 4:19:57 PM
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	513.44	38.57	1758397.72	434942.67	39°41'27.5908"N	80°21'30.7694"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	1226.77ft
Horizontal Reference Pt	Slot	Precision 575 (RKB) to Mean Sea Level	1226.77ft
Vertical Reference Pt	Precision 575 (RKB)	Precision 575 (RKB) to Mud Line at Slot (Slot C)	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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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18C-HSM
Field	Monongalia	API	47-061-01946-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18C-HSM AWB
Slot	Slot C		

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	262.220	0.00	0.00	0.00	0.00	1758397.72	434942.67	39°41'27.5908"N	80°21'30.7694"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	262.220	28.00	0.00	0.00	0.00	1758397.72	434942.67	39°41'27.5908"N	80°21'30.7694"W	0.00	0.000	0.00	0.00	0.00
128.00	0.350	262.220	128.00	0.14	-0.04	-0.30	1758397.42	434942.63	39°41'27.5904"N	80°21'30.7733"W	0.31	262.220	0.35	0.35	0.00
228.00	0.220	276.180	228.00	0.41	-0.06	-0.80	1758396.92	434942.61	39°41'27.5901"N	80°21'30.7796"W	0.80	265.545	0.15	-0.13	13.96
328.00	0.190	251.460	328.00	0.58	-0.09	-1.14	1758396.58	434942.58	39°41'27.5898"N	80°21'30.7840"W	1.15	265.300	0.09	-0.03	-24.72
428.00	0.160	260.310	428.00	0.69	-0.17	-1.44	1758396.28	434942.50	39°41'27.5890"N	80°21'30.7878"W	1.45	263.251	0.04	-0.03	8.85
528.00	0.110	309.150	528.00	0.84	-0.13	-1.65	1758396.07	434942.54	39°41'27.5893"N	80°21'30.7905"W	1.66	265.388	0.12	-0.05	48.84
628.00	0.250	267.230	628.00	1.05	-0.08	-1.94	1758395.78	434942.59	39°41'27.5898"N	80°21'30.7942"W	1.95	267.551	0.18	0.14	-41.92
728.00	0.530	290.980	727.99	1.55	0.07	-2.59	1758395.13	434942.74	39°41'27.5913"N	80°21'30.8026"W	2.59	271.589	0.32	0.28	23.75
828.00	0.520	319.140	827.99	2.38	0.58	-3.32	1758394.40	434943.25	39°41'27.5962"N	80°21'30.8120"W	3.37	279.916	0.26	-0.01	28.16
928.00	0.550	325.530	927.99	3.31	1.32	-3.89	1758393.83	434943.99	39°41'27.6035"N	80°21'30.8193"W	4.11	288.737	0.07	0.03	6.39
1028.00	0.670	341.520	1027.98	4.35	2.27	-4.35	1758393.37	434944.94	39°41'27.6128"N	80°21'30.8253"W	4.90	297.569	0.21	0.12	15.99
1062.00	0.530	328.260	1061.98	4.70	2.59	-4.49	1758393.23	434945.26	39°41'27.6160"N	80°21'30.8272"W	5.19	299.981	0.58	-0.41	-39.00
1151.50	0.460	341.620	1151.47	5.46	3.29	-4.82	1758392.90	434945.95	39°41'27.6228"N	80°21'30.8315"W	5.84	304.253	0.15	-0.08	14.93
1239.50	0.310	341.230	1239.47	6.03	3.85	-5.01	1758392.71	434946.52	39°41'27.6284"N	80°21'30.8340"W	6.32	307.498	0.17	-0.17	-0.44
1325.50	0.300	272.290	1325.47	6.38	4.07	-5.31	1758392.41	434946.74	39°41'27.6306"N	80°21'30.8378"W	6.69	307.493	0.40	-0.01	-80.16
1413.50	0.690	264.220	1413.47	6.78	4.03	-6.07	1758391.65	434946.70	39°41'27.6301"N	80°21'30.8475"W	7.29	303.589	0.45	0.44	-9.17
1501.50	1.320	254.480	1501.45	7.38	3.71	-7.57	1758390.15	434946.38	39°41'27.6267"N	80°21'30.8667"W	8.43	296.077	0.74	0.72	-11.07
1588.50	1.750	246.790	1588.42	7.99	2.91	-9.76	1758387.96	434945.58	39°41'27.6187"N	80°21'30.8946"W	10.19	286.627	0.55	0.49	-8.84
1676.50	1.850	232.720	1676.38	8.20	1.52	-12.12	1758385.60	434944.19	39°41'27.6047"N	80°21'30.9247"W	12.22	277.167	0.51	0.11	-15.99
1764.50	1.180	225.200	1764.35	7.99	0.03	-13.90	1758383.82	434942.70	39°41'27.5898"N	80°21'30.9472"W	13.90	270.106	0.79	-0.76	-8.55
1852.50	0.890	229.770	1852.33	7.78	-1.05	-15.06	1758382.66	434941.62	39°41'27.5790"N	80°21'30.9619"W	15.10	265.997	0.34	-0.33	5.19
1938.50	0.530	246.830	1938.33	7.80	-1.64	-15.94	1758381.78	434941.03	39°41'27.5731"N	80°21'30.9731"W	16.02	264.118	0.48	-0.42	19.84
2026.50	0.620	241.010	2026.32	7.93	-2.03	-16.73	1758380.99	434940.64	39°41'27.5691"N	80°21'30.9831"W	16.85	263.071	0.12	0.10	-6.61
2114.50	0.800	226.380	2114.32	7.89	-2.69	-17.59	1758380.13	434939.98	39°41'27.5626"N	80°21'30.9941"W	17.79	261.313	0.29	0.20	-16.62
2202.50	1.300	216.990	2202.30	7.49	-3.91	-18.64	1758379.09	434938.76	39°41'27.5504"N	80°21'31.0073"W	19.04	258.154	0.60	0.57	-10.67
2290.50	1.700	211.040	2290.27	6.65	-5.82	-19.91	1758377.81	434936.85	39°41'27.5314"N	80°21'31.0233"W	20.74	253.693	0.49	0.45	-6.76
2378.50	1.750	182.920	2378.23	5.06	-8.28	-20.65	1758377.07	434934.39	39°41'27.5070"N	80°21'31.0325"W	22.25	248.140	0.95	0.06	-31.95
2466.50	2.140	167.780	2466.18	2.48	-11.23	-20.37	1758377.35	434931.44	39°41'27.4779"N	80°21'31.0286"W	23.26	241.128	0.73	0.44	-17.20
2554.50	2.580	158.090	2554.11	-0.96	-14.68	-19.28	1758378.44	434927.99	39°41'27.4440"N	80°21'31.0143"W	24.23	232.728	0.67	0.50	-11.01

Date of this report: 08/18/2014
 By: [Signature]
 Title: [Signature]



Actual Wellpath Report

WDTN-18C-HSM AWP Proj: 27878'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18C-HSM
Field	Monongalia	API	47-061-01946-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18C-HSM AWB
Slot	Slot C		

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]	
2642.50	2.240	150.560	2642.03	-4.60	-18.01	-17.70	1758380.02	434924.66	39°41'27.4112"N	80°21'30.9936"W	25.25	224.501	0.53	-0.39	-8.56	
2713.50	1.290	135.290	2713.00	-6.77	-19.79	-16.46	1758381.27	434922.88	39°41'27.3937"N	80°21'30.9775"W	25.74	219.748	1.48	-1.34	-21.51	
2768.50	1.030	128.060	2767.99	-7.85	-20.53	-15.63	1758382.09	434922.14	39°41'27.3864"N	80°21'30.9668"W	25.81	217.282	0.54	-0.47	-13.15	
2847.50	0.940	94.530	2846.97	-8.95	-21.02	-14.43	1758383.29	434921.65	39°41'27.3817"N	80°21'30.9513"W	25.50	214.460	0.73	-0.11	-42.44	
2935.50	0.760	84.120	2934.96	-9.69	-21.02	-13.13	1758384.59	434921.65	39°41'27.3819"N	80°21'30.9347"W	24.78	211.985	0.27	-0.20	-11.83	
3022.50	0.790	92.410	3021.96	-10.33	-20.98	-11.95	1758385.77	434921.69	39°41'27.3823"N	80°21'30.9197"W	24.15	209.666	0.13	0.03	9.53	
3109.50	0.400	165.440	3108.95	-10.98	-21.30	-11.28	1758386.44	434921.37	39°41'27.3792"N	80°21'30.9110"W	24.10	207.895	0.89	-0.45	83.94	
3197.50	2.090	207.860	3196.93	-12.00	-23.02	-11.95	1758385.77	434919.65	39°41'27.3622"N	80°21'30.9194"W	25.94	207.434	2.06	1.92	48.20	
3283.50	3.230	215.050	3282.84	-13.54	-26.39	-14.07	1758383.65	434916.28	39°41'27.3287"N	80°21'30.9462"W	29.91	208.072	1.38	1.33	8.36	
3371.50	4.790	214.100	3370.62	-15.70	-31.46	-17.56	1758380.16	434911.21	39°41'27.2782"N	80°21'30.9901"W	36.03	209.165	1.77	1.77	-1.08	
3459.50	6.590	211.730	3458.18	-19.01	-38.80	-22.27	1758375.45	434903.87	39°41'27.2053"N	80°21'31.0496"W	44.74	209.859	2.06	2.05	-2.69	
3547.50	7.890	211.310	3545.48	-23.43	-48.26	-28.07	1758369.65	434894.42	39°41'27.1113"N	80°21'31.1225"W	55.83	210.185	1.48	1.48	-0.48	
3634.50	9.450	210.750	3631.48	-28.76	-59.50	-34.82	1758362.90	434883.18	39°41'26.9996"N	80°21'31.2076"W	68.94	210.341	1.80	1.79	-0.64	
3721.50	10.800	207.460	3717.12	-35.46	-72.87	-42.23	1758355.49	434869.81	39°41'26.8667"N	80°21'31.3007"W	84.22	210.097	1.69	1.55	-3.78	
3809.50	12.180	209.730	3803.36	-43.24	-88.25	-50.64	1758347.08	434854.43	39°41'26.7139"N	80°21'31.4064"W	101.74	209.850	1.65	1.57	2.58	
3895.50	12.460	209.670	3887.38	-51.08	-104.18	-59.73	1758337.99	434838.49	39°41'26.5556"N	80°21'31.5207"W	120.09	209.827	0.33	0.33	-0.07	
3983.50	12.100	205.040	3973.37	-59.75	-120.79	-68.34	1758329.39	434821.89	39°41'26.3906"N	80°21'31.6287"W	138.78	209.498	1.19	-0.41	-5.26	
4071.50	12.310	204.270	4059.38	-69.15	-137.70	-76.10	1758321.63	434804.98	39°41'26.2228"N	80°21'31.7259"W	157.33	208.926	0.30	0.24	-0.88	
4159.50	12.640	205.880	4145.30	-78.63	-154.91	-84.15	1758313.57	434787.77	39°41'26.0519"N	80°21'31.8269"W	176.29	208.512	0.54	0.38	1.83	
4248.50	11.760	202.850	4232.29	-88.19	-172.03	-91.93	1758305.80	434770.65	39°41'25.8820"N	80°21'31.9242"W	195.05	208.118	1.22	-0.99	-3.40	
4336.50	11.880	200.770	4318.42	-98.06	-188.77	-98.62	1758299.11	434753.92	39°41'25.7160"N	80°21'32.0078"W	212.98	207.585	0.50	0.14	-2.36	
4423.50	12.230	199.660	4403.51	-108.43	-205.82	-104.90	1758292.83	434736.87	39°41'25.5469"N	80°21'32.0860"W	231.01	207.006	0.48	0.40	-1.28	
4511.50	13.780	197.890	4489.25	-120.14	-224.57	-111.25	1758286.47	434718.11	39°41'25.3610"N	80°21'32.1650"W	250.62	206.354	1.82	1.76	-2.01	
4598.50	12.680	194.620	4573.94	-132.58	-243.67	-116.85	1758280.88	434699.01	39°41'25.1717"N	80°21'32.2342"W	270.24	205.619	1.53	-1.26	-3.76	
4686.50	14.000	195.640	4659.58	-145.59	-263.27	-122.15	1758275.57	434679.42	39°41'24.9775"N	80°21'32.2997"W	290.23	204.891	1.52	1.50	1.16	
4774.50	13.170	193.400	4745.10	-159.00	-283.27	-127.35	1758270.38	434659.42	39°41'24.7794"N	80°21'32.3637"W	310.58	204.207	1.12	-0.94	-2.55	
4862.50	12.820	197.290	4830.85	-171.63	-302.34	-132.57	1758265.16	434640.34	39°41'24.5904"N	80°21'32.4282"W	330.13	203.676	1.07	-0.40	4.42	
4951.50	12.230	203.490	4917.73	-182.59	-320.42	-139.26	1758258.46	434622.27	39°41'24.4111"N	80°21'32.5116"W	349.37	203.491	1.65	-0.66	6.97	
5039.50	12.620	201.460	5003.67	-192.78	-337.91	-146.50	1758251.23	434604.78	39°41'24.2375"N	80°21'32.6019"W	368.30	203.438	0.67	0.44	-2.31	
5126.50	12.750	201.510	5088.55	-203.32	-355.69	-153.49	1758244.24	434587.00	39°41'24.0612"N	80°21'32.6893"W	387.40	203.342	0.15	0.16	0.06	

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Actual Wellpath Report

WDTN-18C-HSM AWP Proj: 27878'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18C-HSM
Field	Monongalia	API	47-061-01946-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18C-HSM AWB
Slot	Slot C		

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]	
5213.50	12.530	199.250	5173.44	-214.14	-373.53	-160.13	1758237.60	434569.16	39°41'23.8842"N	80°21'32.7719"W	406.41	203.204	0.62	-0.25	-2.60	
5299.50	12.700	199.110	5257.36	-225.13	-391.27	-166.30	1758231.43	434551.42	39°41'23.7083"N	80°21'32.8487"W	425.14	203.026	0.20	0.20	-0.16	
5385.50	12.190	197.120	5341.34	-236.25	-408.88	-172.06	1758225.67	434533.81	39°41'23.5338"N	80°21'32.9203"W	443.61	202.822	0.77	-0.59	-2.31	
5472.50	12.370	196.520	5426.35	-247.68	-426.59	-177.42	1758220.31	434516.10	39°41'23.3582"N	80°21'32.9866"W	462.02	202.582	0.25	0.21	-0.69	
5560.50	11.830	198.770	5512.40	-258.88	-444.17	-183.00	1758214.73	434498.52	39°41'23.1840"N	80°21'33.0558"W	480.39	202.392	0.81	-0.61	-2.56	
5638.50	11.990	203.790	5588.72	-267.80	-459.16	-188.84	1758208.89	434483.54	39°41'23.0353"N	80°21'33.1287"W	496.47	202.356	1.34	0.21	6.44	
5726.50	12.240	202.460	5674.76	-277.56	-476.14	-196.09	1758201.64	434466.56	39°41'22.8668"N	80°21'33.2194"W	514.94	202.384	0.43	0.28	-1.51	
5814.50	12.560	204.080	5760.71	-287.49	-493.50	-203.56	1758194.17	434449.20	39°41'22.6946"N	80°21'33.3128"W	533.83	202.415	0.54	0.36	1.84	
5902.50	11.530	201.580	5846.77	-297.25	-510.41	-210.70	1758187.03	434432.29	39°41'22.5267"N	80°21'33.4020"W	552.19	202.431	1.31	-1.17	-2.84	
5989.50	11.820	200.730	5931.97	-307.06	-526.83	-217.05	1758180.68	434415.87	39°41'22.3639"N	80°21'33.4813"W	569.79	202.391	0.39	0.33	-0.98	
6078.50	12.270	202.290	6019.01	-317.30	-544.11	-223.86	1758173.87	434398.60	39°41'22.1925"N	80°21'33.5663"W	588.36	202.364	0.62	0.51	1.75	
6165.50	11.500	196.960	6104.15	-327.64	-560.96	-229.90	1758167.83	434381.75	39°41'22.0254"N	80°21'33.6415"W	606.24	202.286	1.54	-0.89	-6.13	
6253.50	11.630	193.570	6190.36	-338.92	-577.97	-234.54	1758163.19	434364.74	39°41'21.8568"N	80°21'33.6987"W	623.75	202.087	0.79	0.15	-3.85	
6341.50	11.700	194.580	6276.55	-350.57	-595.23	-238.87	1758158.87	434347.48	39°41'21.6859"N	80°21'33.7520"W	641.37	201.866	0.25	0.08	1.15	
6428.50	11.490	197.930	6361.77	-361.52	-612.01	-243.76	1758153.98	434330.70	39°41'21.5196"N	80°21'33.8124"W	658.77	201.717	0.81	-0.24	3.85	
6516.50	11.200	196.080	6448.05	-372.17	-628.56	-248.82	1758148.91	434314.15	39°41'21.3555"N	80°21'33.8752"W	676.02	201.597	0.53	-0.33	-2.10	
6603.50	12.290	204.460	6533.23	-382.18	-645.11	-255.00	1758142.74	434297.60	39°41'21.1914"N	80°21'33.9522"W	693.68	201.568	2.32	1.25	9.63	
6691.50	13.390	208.040	6619.03	-391.56	-662.63	-263.66	1758134.07	434280.08	39°41'21.0174"N	80°21'34.0609"W	713.16	201.698	1.54	1.25	4.07	
6779.50	13.930	206.800	6704.55	-401.19	-681.08	-273.23	1758124.51	434261.63	39°41'20.8342"N	80°21'34.1810"W	733.84	201.859	0.70	0.61	-1.41	
6867.50	13.450	204.380	6790.05	-411.40	-699.85	-282.23	1758115.51	434242.86	39°41'20.6478"N	80°21'34.2938"W	754.62	201.963	0.85	-0.55	-2.75	
6956.00	13.480	205.890	6876.11	-421.67	-718.51	-290.98	1758106.75	434224.21	39°41'20.4626"N	80°21'34.4035"W	775.19	202.047	0.40	0.03	1.71	
7051.00	13.860	206.500	6968.42	-432.48	-738.65	-300.90	1758096.84	434204.06	39°41'20.2626"N	80°21'34.5278"W	797.59	202.164	0.43	0.40	0.64	
7146.00	13.450	208.780	7060.74	-442.79	-758.52	-311.29	1758086.45	434184.20	39°41'20.0653"N	80°21'34.6584"W	819.91	202.313	0.71	-0.43	2.40	
7240.00	11.980	233.900	7152.50	-447.81	-773.86	-324.45	1758073.29	434168.86	39°41'19.9124"N	80°21'34.8248"W	839.12	202.746	6.03	-1.56	26.72	
7335.00	12.080	265.810	7245.52	-442.91	-780.40	-342.35	1758055.39	434162.31	39°41'19.8461"N	80°21'35.0529"W	852.19	203.686	6.92	0.11	33.59	
7430.00	14.880	297.210	7338.01	-427.00	-775.55	-363.14	1758034.60	434167.17	39°41'19.8921"N	80°21'35.3195"W	856.35	205.091	8.13	2.95	33.05	
7525.00	21.180	303.410	7428.31	-400.22	-760.50	-388.34	1758009.40	434182.21	39°41'20.0384"N	80°21'35.6437"W	853.92	207.051	6.92	6.63	6.53	
7619.00	29.310	309.230	7513.27	-362.22	-736.56	-420.40	1757977.35	434206.16	39°41'20.2720"N	80°21'36.0566"W	848.09	209.716	9.03	8.65	6.19	
7714.00	35.800	313.660	7593.31	-312.54	-702.63	-458.56	1757939.19	434240.09	39°41'20.6037"N	80°21'36.5489"W	839.02	213.130	7.27	6.83	4.66	
7809.00	44.760	317.070	7665.72	-252.04	-658.86	-501.53	1757896.22	434283.85	39°41'21.0322"N	80°21'37.1039"W	828.03	217.279	9.71	9.43	3.59	

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Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18C-HSM
Field	Monongalia	API	47-061-01946-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18C-HSM AWB
Slot	Slot C		

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]
7904.00	53.310	318.070	7727.95	-180.97	-605.94	-549.86	1757847.90	434336.77	39°41'21.5506"N	80°21'37.7285"W	818.23	222.222	9.03	9.00	1.05
7998.00	60.820	317.820	7779.02	-102.73	-547.40	-602.67	1757795.09	434395.30	39°41'22.1241"N	80°21'38.4112"W	814.16	227.751	7.99	7.99	-0.27
8093.00	67.320	317.450	7820.54	-18.04	-484.32	-660.22	1757737.54	434458.38	39°41'22.7421"N	80°21'39.1550"W	818.81	233.737	6.85	6.84	-0.39
8187.00	73.850	319.370	7851.77	69.98	-418.03	-719.01	1757678.76	434524.66	39°41'23.3916"N	80°21'39.9151"W	831.70	239.826	7.21	6.95	2.04
8282.00	82.720	322.740	7871.04	162.67	-345.74	-777.38	1757620.39	434596.95	39°41'24.1005"N	80°21'40.6706"W	850.79	246.023	9.96	9.34	3.55
8376.00	90.150	325.650	7876.89	256.41	-269.71	-832.21	1757565.56	434672.98	39°41'24.8467"N	80°21'41.3813"W	874.82	252.043	8.49	7.90	3.10
8471.00	90.000	325.090	7876.76	351.40	-191.54	-886.20	1757511.58	434751.14	39°41'25.6141"N	80°21'42.0815"W	906.66	257.804	0.61	-0.16	-0.59
8565.00	90.550	325.650	7876.31	445.40	-114.19	-939.61	1757458.16	434828.48	39°41'26.3734"N	80°21'42.7742"W	946.53	263.071	0.84	0.59	0.60
8660.00	90.740	325.810	7875.24	540.39	-35.69	-993.10	1757404.68	434906.98	39°41'27.1441"N	80°21'43.4680"W	993.75	267.942	0.26	0.20	0.17
8754.00	90.490	325.610	7874.23	634.37	41.97	-1046.06	1757351.72	434984.63	39°41'27.9066"N	80°21'44.1549"W	1046.90	272.297	0.34	-0.27	-0.21
8849.00	90.680	325.270	7873.26	729.36	120.20	-1099.95	1757297.84	435062.86	39°41'28.6746"N	80°21'44.8538"W	1106.49	276.236	0.41	0.20	-0.36
8944.00	91.080	324.530	7871.80	824.35	197.91	-1154.57	1757243.22	435140.57	39°41'29.4374"N	80°21'45.5620"W	1171.41	279.727	0.89	0.42	-0.78
9038.00	91.350	325.420	7869.81	918.33	274.87	-1208.50	1757189.29	435217.52	39°41'30.1928"N	80°21'46.2614"W	1239.37	282.814	0.99	0.29	0.95
9133.00	91.350	325.410	7867.57	1013.30	353.06	-1262.41	1757135.38	435295.71	39°41'30.9604"N	80°21'46.9606"W	1310.85	285.625	0.01	0.00	-0.01
9227.00	90.890	325.560	7865.74	1107.28	430.50	-1315.66	1757082.14	435373.14	39°41'31.7207"N	80°21'47.6513"W	1384.31	288.119	0.51	-0.49	0.16
9321.00	90.650	324.770	7864.47	1201.27	507.65	-1369.35	1757028.45	435450.29	39°41'32.4780"N	80°21'48.3475"W	1460.42	290.341	0.88	-0.26	-0.84
9415.00	91.020	326.440	7863.10	1295.25	585.20	-1422.45	1756975.36	435527.84	39°41'33.2394"N	80°21'49.0362"W	1538.12	292.363	1.82	0.39	1.78
9510.00	91.290	325.640	7861.19	1390.22	663.98	-1475.50	1756922.31	435606.61	39°41'34.0129"N	80°21'49.7246"W	1618.02	294.228	0.89	0.28	-0.84
9605.00	91.110	325.130	7859.20	1485.19	742.15	-1529.46	1756868.36	435684.77	39°41'34.7802"N	80°21'50.4243"W	1700.01	295.884	0.57	-0.19	-0.54
9700.00	91.170	325.040	7857.31	1580.17	820.03	-1583.82	1756814.00	435762.65	39°41'35.5448"N	80°21'51.1293"W	1783.52	297.373	0.11	0.06	-0.09
9794.00	91.140	325.010	7855.41	1674.15	897.04	-1637.69	1756760.13	435839.66	39°41'36.3007"N	80°21'51.8279"W	1867.27	298.712	0.05	-0.03	-0.03
9888.00	91.290	325.490	7853.42	1768.13	974.26	-1691.26	1756706.56	435916.87	39°41'37.0587"N	80°21'52.5226"W	1951.80	299.944	0.53	0.16	0.51
9983.00	91.380	325.290	7851.21	1863.10	1052.43	-1745.20	1756652.62	435995.03	39°41'37.8261"N	80°21'53.2223"W	2037.97	301.092	0.23	0.09	-0.21
10078.00	90.980	325.350	7849.25	1958.08	1130.53	-1799.25	1756598.58	436073.13	39°41'38.5928"N	80°21'53.9232"W	2124.94	302.143	0.43	-0.42	0.06
10173.00	90.980	325.130	7847.63	2053.07	1208.57	-1853.40	1756544.43	436151.16	39°41'39.3588"N	80°21'54.6256"W	2212.63	303.108	0.23	0.00	-0.23
10268.00	91.170	325.440	7845.84	2148.05	1286.64	-1907.49	1756490.34	436229.23	39°41'40.1253"N	80°21'55.3271"W	2300.87	304.000	0.38	0.20	0.33
10363.00	91.110	325.550	7843.95	2243.03	1364.91	-1961.30	1756436.54	436307.50	39°41'40.8937"N	80°21'56.0250"W	2389.49	304.835	0.13	-0.06	0.12
10457.00	90.860	324.940	7842.34	2337.01	1442.13	-2014.88	1756382.97	436384.71	39°41'41.6517"N	80°21'56.7199"W	2477.80	305.593	0.70	-0.27	-0.65
10552.00	91.020	325.380	7840.78	2432.00	1520.09	-2069.14	1756328.70	436462.67	39°41'42.4170"N	80°21'57.4237"W	2567.49	306.303	0.49	0.17	0.46
10647.00	91.880	325.530	7838.37	2526.96	1598.32	-2122.99	1756274.86	436540.89	39°41'43.1849"N	80°21'58.1222"W	2657.39	306.975	0.92	0.91	0.16

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Actual Wellpath Report

WDTN-18C-HSM AWP Proj: 27878'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18C-HSM
Field	Monongalia	API	47-061-01946-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18C-HSM AWB
Slot	Slot C		

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]
10742.00	91.750	325.570	7835.37	2621.91	1676.62	-2176.71	1756221.15	436619.18	39°41'43.9536"N	80°21'58.8190"W	2747.56	307.605	0.14	-0.14	0.04
10837.00	90.860	325.250	7833.20	2716.88	1754.80	-2230.62	1756167.23	436697.37	39°41'44.7211"N	80°21'59.5183"W	2838.14	308.192	1.00	-0.94	-0.34
10932.00	91.020	325.180	7831.64	2811.87	1832.82	-2284.81	1756113.04	436775.37	39°41'45.4869"N	80°22'0.2212"W	2929.09	308.736	0.18	0.17	-0.07
11027.00	91.110	325.320	7829.88	2906.85	1910.86	-2338.95	1756058.91	436853.41	39°41'46.2530"N	80°22'0.9234"W	3020.28	309.248	0.18	0.09	0.15
11121.00	90.980	325.170	7828.18	3000.84	1988.08	-2392.53	1756005.33	436930.63	39°41'47.0110"N	80°22'1.6183"W	3110.73	309.725	0.21	-0.14	-0.15
11216.00	91.820	325.560	7825.84	3095.80	2066.22	-2446.51	1755951.36	437008.76	39°41'47.7781"N	80°22'2.3184"W	3202.29	310.183	0.97	0.88	0.41
11311.00	91.480	325.030	7823.11	3190.76	2144.28	-2500.57	1755897.30	437086.82	39°41'48.5444"N	80°22'3.0197"W	3294.06	310.614	0.66	-0.36	-0.56
11406.00	91.510	325.220	7820.63	3285.73	2222.19	-2554.88	1755843.00	437164.73	39°41'49.3092"N	80°22'3.7239"W	3386.08	311.016	0.20	0.03	0.20
11500.00	91.570	325.400	7818.10	3379.70	2299.46	-2608.35	1755789.52	437241.99	39°41'50.0677"N	80°22'4.4176"W	3477.21	311.399	0.20	0.06	0.19
11595.00	91.570	325.440	7815.50	3474.66	2377.64	-2662.25	1755735.63	437320.17	39°41'50.8352"N	80°22'5.1168"W	3569.42	311.768	0.04	0.00	0.04
11690.00	91.630	325.400	7812.85	3569.62	2455.83	-2716.15	1755681.74	437398.35	39°41'51.6027"N	80°22'5.8159"W	3661.77	312.119	0.08	0.06	-0.04
11784.00	91.570	325.530	7810.22	3663.58	2533.24	-2769.42	1755628.47	437475.75	39°41'52.3626"N	80°22'6.5069"W	3753.26	312.450	0.15	-0.06	0.14
11879.00	91.630	325.570	7807.57	3758.54	2611.54	-2823.14	1755574.75	437554.06	39°41'53.1314"N	80°22'7.2038"W	3845.81	312.770	0.08	0.06	0.04
11973.00	91.570	325.400	7804.94	3852.50	2688.97	-2876.38	1755521.52	437631.47	39°41'53.8914"N	80°22'7.8945"W	3937.52	313.071	0.19	-0.06	-0.18
12068.00	91.540	325.360	7802.37	3947.46	2767.12	-2930.33	1755467.57	437709.62	39°41'54.6586"N	80°22'8.5943"W	4030.36	313.359	0.05	-0.03	-0.04
12163.00	91.510	325.190	7799.84	4042.42	2845.17	-2984.43	1755413.47	437787.67	39°41'55.4248"N	80°22'9.2960"W	4123.32	313.632	0.18	-0.03	-0.18
12258.00	91.600	325.590	7797.26	4137.39	2923.33	-3038.37	1755359.54	437865.82	39°41'56.1920"N	80°22'9.9957"W	4216.34	313.895	0.43	0.09	0.42
12352.00	91.540	325.120	7794.69	4231.35	3000.63	-3091.78	1755306.12	437943.12	39°41'56.9509"N	80°22'10.6887"W	4308.47	314.143	0.50	-0.06	-0.50
12447.00	91.720	325.520	7791.98	4326.31	3078.72	-3145.82	1755252.09	438021.21	39°41'57.7175"N	80°22'11.3896"W	4401.67	314.382	0.46	0.19	0.42
12542.00	91.200	325.850	7789.56	4421.27	3157.16	-3199.35	1755198.56	438099.64	39°41'58.4875"N	80°22'12.0842"W	4494.84	314.620	0.65	-0.55	0.35
12636.00	91.080	325.930	7787.69	4515.24	3234.98	-3252.06	1755145.86	438177.45	39°41'59.2515"N	80°22'12.7680"W	4587.04	314.849	0.15	-0.13	0.09
12731.00	90.890	325.400	7786.06	4610.22	3313.41	-3305.63	1755092.29	438255.88	39°42'0.0215"N	80°22'13.4631"W	4680.37	315.067	0.59	-0.20	-0.56
12826.00	90.520	325.350	7784.89	4705.21	3391.58	-3359.61	1755038.32	438334.04	39°42'0.7888"N	80°22'14.1633"W	4773.86	315.271	0.39	-0.39	-0.05
12921.00	90.490	325.270	7784.05	4800.21	3469.69	-3413.67	1754984.25	438412.15	39°42'1.5555"N	80°22'14.8647"W	4867.43	315.466	0.09	-0.03	-0.08
13015.00	90.580	324.840	7783.18	4894.20	3546.74	-3467.51	1754930.42	438489.19	39°42'2.3118"N	80°22'15.5630"W	4960.14	315.647	0.47	0.10	-0.46
13110.00	90.550	324.160	7782.24	4989.19	3624.08	-3522.68	1754875.26	438566.53	39°42'3.0708"N	80°22'16.2783"W	5054.03	315.813	0.72	-0.03	-0.72
13205.00	90.980	323.790	7780.97	5084.17	3700.90	-3578.54	1754819.39	438643.35	39°42'3.8247"N	80°22'17.0026"W	5148.07	315.963	0.60	0.45	-0.39
13299.00	91.970	324.450	7778.55	5178.13	3777.04	-3633.62	1754764.32	438719.48	39°42'4.5718"N	80°22'17.7166"W	5241.11	316.109	1.27	1.05	0.70
13394.00	91.260	324.510	7775.87	5273.08	3854.33	-3688.79	1754709.15	438796.76	39°42'5.3304"N	80°22'18.4320"W	5335.07	316.257	0.75	-0.75	0.06
13489.00	90.990	323.620	7774.01	5368.05	3931.23	-3744.53	1754653.42	438873.66	39°42'6.0850"N	80°22'19.1546"W	5429.19	316.393	0.98	-0.28	-0.94

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18C-HSM
Field	Monongalia	API	47-061-01946-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18C-HSM AWB
Slot	Slot C		

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]
13584.00	91.110	324.020	7772.27	5463.01	4007.90	-3800.60	1754597.35	438950.33	39°42'6.8373"N	80°22'19.8815"W	5523.39	316.521	0.44	0.13	0.42
13679.00	91.230	324.580	7770.33	5557.99	4085.03	-3856.03	1754541.93	439027.45	39°42'7.5943"N	80°22'20.6001"W	5617.51	316.652	0.60	0.13	0.59
13773.00	90.830	324.710	7768.64	5651.97	4161.68	-3910.41	1754487.55	439104.10	39°42'8.3466"N	80°22'21.3054"W	5710.60	316.783	0.45	-0.43	0.14
13868.00	90.950	324.730	7767.16	5746.96	4239.23	-3965.27	1754432.69	439181.64	39°42'9.1076"N	80°22'22.0169"W	5804.69	316.912	0.13	0.13	0.02
13963.00	90.180	323.910	7766.22	5841.94	4316.39	-4020.68	1754377.29	439258.80	39°42'9.8649"N	80°22'22.7353"W	5898.90	317.031	1.18	-0.81	-0.86
14058.00	90.520	324.950	7765.64	5936.94	4393.66	-4075.94	1754322.03	439336.06	39°42'10.6232"N	80°22'23.4519"W	5993.12	317.148	1.15	0.36	1.09
14152.00	90.460	324.720	7764.84	6030.93	4470.50	-4130.07	1754267.90	439412.90	39°42'11.3774"N	80°22'24.1540"W	6086.29	317.267	0.25	-0.06	-0.24
14247.00	90.310	324.600	7764.20	6125.93	4547.99	-4185.02	1754212.95	439490.39	39°42'12.1379"N	80°22'24.8667"W	6180.51	317.380	0.20	-0.16	-0.13
14342.00	90.370	324.210	7763.64	6220.92	4625.24	-4240.32	1754157.66	439567.63	39°42'12.8960"N	80°22'25.5837"W	6274.80	317.486	0.42	0.06	-0.41
14436.00	90.490	324.190	7762.93	6314.91	4701.48	-4295.30	1754102.68	439643.86	39°42'13.6441"N	80°22'26.2966"W	6368.16	317.585	0.13	0.13	-0.02
14531.00	90.550	324.250	7762.07	6409.90	4778.55	-4350.84	1754047.14	439720.93	39°42'14.4004"N	80°22'27.0168"W	6462.53	317.682	0.09	0.06	0.06
14626.00	90.490	324.060	7761.21	6504.88	4855.55	-4406.47	1753991.51	439797.93	39°42'15.1561"N	80°22'27.7381"W	6556.93	317.776	0.21	-0.06	-0.20
14721.00	91.450	324.620	7759.60	6599.86	4932.73	-4461.85	1753936.14	439875.10	39°42'15.9134"N	80°22'28.4561"W	6651.30	317.869	1.17	1.01	0.59
14815.00	89.970	324.570	7758.44	6693.85	5009.33	-4516.30	1753881.69	439951.70	39°42'16.6653"N	80°22'29.1623"W	6744.66	317.963	1.58	-1.57	-0.05
14910.00	90.980	324.770	7757.65	6788.84	5086.84	-4571.23	1753826.76	440029.20	39°42'17.4259"N	80°22'29.8748"W	6839.01	318.056	1.08	1.06	0.21
15005.00	90.370	324.450	7756.53	6883.83	5164.28	-4626.25	1753771.75	440106.63	39°42'18.1859"N	80°22'30.5883"W	6933.39	318.145	0.73	-0.64	-0.34
15100.00	90.460	324.170	7755.84	6978.82	5241.43	-4681.67	1753716.33	440183.78	39°42'18.9431"N	80°22'31.3070"W	7027.85	318.229	0.31	0.09	-0.29
15194.00	90.430	324.230	7755.11	7072.81	5317.67	-4736.65	1753661.35	440260.02	39°42'19.6912"N	80°22'32.0199"W	7121.34	318.307	0.07	-0.03	0.06
15289.00	90.520	324.480	7754.32	7167.80	5394.87	-4792.01	1753606.00	440337.21	39°42'20.4488"N	80°22'32.7378"W	7215.82	318.387	0.28	0.09	0.26
15384.00	90.400	324.430	7753.56	7262.80	5472.16	-4847.24	1753550.77	440414.50	39°42'21.2073"N	80°22'33.4540"W	7310.29	318.465	0.14	-0.13	-0.06
15479.00	90.680	324.900	7752.67	7357.79	5549.66	-4902.18	1753495.84	440491.99	39°42'21.9679"N	80°22'34.1666"W	7404.73	318.545	0.58	0.29	0.49
15573.00	90.340	324.140	7751.83	7451.78	5626.20	-4956.74	1753441.28	440568.53	39°42'22.7191"N	80°22'34.8742"W	7498.23	318.620	0.89	-0.36	-0.81
15668.00	89.940	324.080	7751.60	7546.77	5703.16	-5012.43	1753385.59	440645.49	39°42'23.4743"N	80°22'35.5963"W	7592.79	318.688	0.43	-0.42	-0.06
15763.00	90.090	324.480	7751.57	7641.76	5780.29	-5067.89	1753330.13	440722.61	39°42'24.2312"N	80°22'36.3155"W	7687.35	318.757	0.45	0.16	0.42
15857.00	90.150	325.730	7751.37	7735.76	5857.39	-5121.67	1753276.36	440799.70	39°42'24.9879"N	80°22'37.0131"W	7780.78	318.834	1.33	0.06	1.33
15952.00	90.150	325.750	7751.13	7830.75	5935.91	-5175.15	1753222.89	440878.22	39°42'25.7587"N	80°22'37.7072"W	7875.10	318.917	0.02	0.00	0.02
16047.00	90.090	325.380	7750.93	7925.75	6014.26	-5228.87	1753169.17	440956.56	39°42'26.5278"N	80°22'38.4043"W	7969.46	318.996	0.39	-0.06	-0.39
16142.00	89.910	324.950	7750.93	8020.75	6092.23	-5283.13	1753114.91	441034.54	39°42'27.2932"N	80°22'39.1083"W	8063.92	319.068	0.49	-0.19	-0.45
16237.00	89.910	325.000	7751.08	8115.75	6170.03	-5337.65	1753060.39	441112.33	39°42'28.0567"N	80°22'39.8156"W	8158.42	319.137	0.05	0.00	0.05
16331.00	89.780	325.020	7751.33	8209.75	6247.04	-5391.56	1753006.49	441189.33	39°42'28.8126"N	80°22'40.5149"W	8251.93	319.204	0.14	-0.14	0.02

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18C-HSM
Field	Monongalia	API	47-061-01946-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18C-HSM AWB
Slot	Slot C		

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)
16426.00	89.910	325.190	7751.59	8304.75	6324.96	-5445.90	1752952.15	441267.25	39°42'29.5773"N	80°22'41.2200"W	8346.43	319.271	0.23	0.14	0.18
16521.00	89.940	325.320	7751.71	8399.74	6403.02	-5500.05	1752898.01	441345.30	39°42'30.3436"N	80°22'41.9224"W	8440.92	319.338	0.14	0.03	0.14
16616.00	90.030	325.310	7751.74	8494.74	6481.14	-5554.11	1752843.95	441423.41	39°42'31.1103"N	80°22'42.6239"W	8535.41	319.405	0.10	0.09	-0.01
16710.00	89.880	325.030	7751.81	8588.74	6558.30	-5607.80	1752790.26	441500.57	39°42'31.8677"N	80°22'43.3205"W	8628.94	319.467	0.34	-0.16	-0.30
16805.00	90.220	325.450	7751.73	8683.74	6636.34	-5661.96	1752736.10	441578.61	39°42'32.6837"N	80°22'44.0232"W	8723.46	319.530	0.57	0.36	0.44
16900.00	89.880	325.120	7751.64	8778.74	6714.43	-5716.06	1752682.01	441656.70	39°42'33.4002"N	80°22'44.7252"W	8817.99	319.592	0.50	-0.36	-0.35
16995.00	89.850	325.060	7751.87	8873.74	6792.34	-5770.43	1752627.64	441734.60	39°42'34.1649"N	80°22'45.4306"W	8912.56	319.650	0.07	-0.03	-0.06
17089.00	89.630	325.140	7752.30	8967.74	6869.43	-5824.21	1752573.86	441811.69	39°42'34.9215"N	80°22'46.1283"W	9006.14	319.707	0.25	-0.23	0.09
17184.00	89.690	324.680	7752.86	9062.74	6947.16	-5878.82	1752519.26	441889.41	39°42'35.6844"N	80°22'46.8368"W	9100.75	319.761	0.49	0.06	-0.48
17279.00	89.850	325.660	7753.24	9157.73	7025.14	-5933.08	1752465.00	441967.39	39°42'36.4498"N	80°22'47.5408"W	9195.33	319.817	1.05	0.17	1.03
17373.00	89.880	325.210	7753.46	9251.73	7102.55	-5986.41	1752411.68	442044.79	39°42'37.2096"N	80°22'48.2328"W	9288.88	319.874	0.48	0.03	-0.48
17468.00	89.720	325.020	7753.79	9346.73	7180.48	-6040.74	1752357.35	442122.71	39°42'37.9745"N	80°22'48.9378"W	9383.49	319.927	0.26	-0.17	-0.20
17563.00	89.630	324.990	7754.33	9441.73	7258.30	-6095.22	1752302.87	442200.53	39°42'38.7383"N	80°22'49.6446"W	9478.11	319.978	0.10	-0.09	-0.03
17658.00	90.120	325.400	7754.54	9536.73	7336.30	-6149.45	1752248.65	442278.53	39°42'39.5039"N	80°22'50.3482"W	9572.72	320.030	0.67	0.52	0.43
17752.00	90.000	325.450	7754.44	9630.72	7413.70	-6202.79	1752195.31	442355.92	39°42'40.2637"N	80°22'51.0404"W	9666.31	320.082	0.14	-0.13	0.05
17847.00	90.250	325.220	7754.23	9725.72	7491.84	-6256.82	1752141.28	442434.06	39°42'41.0306"N	80°22'51.7416"W	9760.92	320.133	0.36	0.26	-0.24
17942.00	90.000	325.060	7754.03	9820.72	7569.79	-6311.12	1752086.98	442512.00	39°42'41.7957"N	80°22'52.4461"W	9855.56	320.181	0.31	-0.26	-0.17
18036.00	90.000	325.170	7754.03	9914.72	7646.90	-6364.88	1752033.22	442589.11	39°42'42.5525"N	80°22'53.1437"W	9949.21	320.228	0.12	0.00	0.12
18131.00	90.000	324.810	7754.03	10009.72	7724.71	-6419.39	1751978.72	442666.91	39°42'43.3162"N	80°22'53.8508"W	10043.89	320.273	0.38	0.00	-0.38
18226.00	90.180	325.360	7753.88	10104.72	7802.61	-6473.76	1751924.35	442744.81	39°42'44.0808"N	80°22'54.5563"W	10138.55	320.318	0.61	0.19	0.58
18321.00	90.150	325.400	7753.60	10199.72	7880.79	-6527.73	1751870.38	442822.98	39°42'44.8481"N	80°22'55.2567"W	10233.19	320.365	0.05	-0.03	0.04
18416.00	89.850	325.540	7753.60	10294.71	7959.05	-6581.58	1751816.54	442901.24	39°42'45.6163"N	80°22'55.9556"W	10327.81	320.412	0.35	-0.32	0.15
18511.00	89.820	325.490	7753.88	10389.71	8037.36	-6635.37	1751762.75	442979.54	39°42'46.3850"N	80°22'56.6537"W	10422.44	320.458	0.06	-0.03	-0.05
18606.00	89.910	325.230	7754.10	10484.71	8115.52	-6689.37	1751708.75	443057.70	39°42'47.1521"N	80°22'57.3544"W	10517.10	320.502	0.29	0.09	-0.27
18701.00	89.850	325.000	7754.30	10579.71	8193.45	-6743.70	1751654.42	443135.62	39°42'47.9170"N	80°22'58.0594"W	10611.79	320.544	0.25	-0.06	-0.24
18795.00	89.880	325.410	7754.52	10673.71	8270.64	-6797.34	1751600.79	443212.81	39°42'48.6746"N	80°22'58.7555"W	10705.48	320.584	0.44	0.03	0.44
18890.00	89.820	325.030	7754.77	10768.71	8348.67	-6851.53	1751546.60	443290.83	39°42'49.4405"N	80°22'59.4587"W	10800.17	320.625	0.40	-0.06	-0.40
18985.00	90.180	325.330	7754.77	10863.70	8426.66	-6905.78	1751492.36	443368.82	39°42'50.2060"N	80°23'0.1626"W	10894.88	320.665	0.49	0.38	0.32
19080.00	90.220	325.420	7754.44	10958.70	8504.83	-6959.76	1751438.38	443446.98	39°42'50.9733"N	80°23'0.8631"W	10989.56	320.706	0.10	0.04	0.09
19174.00	90.250	325.370	7754.05	11052.70	8582.20	-7013.14	1751385.00	443524.35	39°42'51.7327"N	80°23'1.5659"W	11083.24	320.745	0.06	0.03	-0.05



Actual Wellpath Report

WDTN-18C-HSM AWP Proj: 27878'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18C-HSM
Field	Monongalia	API	47-061-01946-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18C-HSM AWB
Slot	Slot C		

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]
19269.00	90.710	325.560	7753.26	11147.69	8660.46	-7067.00	1751331.15	443602.60	39°42'52.5008"N	80°23'2.2549"W	11177.92	320.785	0.52	0.48	0.20
19364.00	90.650	325.470	7752.13	11242.68	8738.76	-7120.78	1751277.37	443680.90	39°42'53.2694"N	80°23'2.9529"W	11272.59	320.825	0.11	-0.06	-0.09
19459.00	91.020	325.590	7750.75	11337.67	8817.07	-7174.54	1751223.61	443759.20	39°42'54.0381"N	80°23'3.6507"W	11367.27	320.864	0.41	0.39	0.13
19553.00	90.370	325.560	7749.61	11431.65	8894.60	-7227.68	1751170.48	443836.73	39°42'54.7991"N	80°23'4.3404"W	11460.94	320.903	0.69	-0.69	-0.03
19648.00	90.000	324.950	7749.30	11526.65	8972.66	-7281.82	1751116.34	443914.79	39°42'55.5653"N	80°23'5.0480"W	11555.67	320.939	0.75	-0.39	-0.64
19743.00	89.690	325.110	7749.56	11621.65	9050.51	-7336.27	1751061.90	443992.63	39°42'56.3293"N	80°23'5.7495"W	11650.43	320.972	0.37	-0.33	0.17
19838.00	89.570	325.170	7750.17	11716.65	9128.46	-7390.57	1751007.60	444070.57	39°42'57.0944"N	80°23'6.4541"W	11745.18	321.006	0.14	-0.13	0.06
19932.00	90.000	325.960	7750.52	11810.64	9205.98	-7443.72	1750954.45	444148.10	39°42'57.8553"N	80°23'7.1441"W	11838.88	321.042	0.96	0.46	0.84
20027.00	89.880	325.550	7750.62	11905.64	9284.51	-7497.18	1750900.99	444226.62	39°42'58.6262"N	80°23'7.8380"W	11933.56	321.079	0.45	-0.13	-0.43
20122.00	89.660	325.090	7751.00	12000.63	9362.64	-7551.23	1750846.94	444304.74	39°42'59.3930"N	80°23'8.5395"W	12028.30	321.113	0.54	-0.23	-0.48
20216.00	90.060	325.570	7751.23	12094.63	9439.95	-7604.71	1750793.48	444382.04	39°43'0.1518"N	80°23'9.2335"W	12122.05	321.146	0.66	0.43	0.51
20311.00	90.280	325.800	7750.95	12189.62	9518.41	-7658.26	1750739.92	444460.50	39°43'0.9220"N	80°23'9.9287"W	12216.75	321.181	0.34	0.23	0.24
20405.00	90.250	325.600	7750.52	12283.62	9596.06	-7711.23	1750686.96	444538.15	39°43'1.6842"N	80°23'10.6163"W	12310.46	321.215	0.22	-0.03	-0.21
20500.00	90.090	325.500	7750.23	12378.61	9674.40	-7764.97	1750633.22	444616.48	39°43'2.4532"N	80°23'11.3139"W	12405.19	321.248	0.20	-0.17	-0.11
20595.00	90.150	324.710	7750.03	12473.61	9752.32	-7819.32	1750578.88	444694.40	39°43'3.2179"N	80°23'12.0191"W	12499.98	321.278	0.83	0.06	-0.83
20690.00	90.400	325.550	7749.58	12568.61	9830.26	-7873.63	1750524.57	444772.33	39°43'3.9828"N	80°23'12.7240"W	12594.76	321.307	0.92	0.26	0.88
20784.00	90.340	323.160	7748.97	12662.59	9906.64	-7928.40	1750469.80	444848.71	39°43'4.7323"N	80°23'13.4345"W	12688.62	321.329	2.54	-0.06	-2.54
20879.00	90.580	325.550	7748.21	12757.58	9983.84	-7983.76	1750414.44	444925.90	39°43'5.4898"N	80°23'14.1526"W	12783.48	321.352	2.53	0.25	2.52
20974.00	90.520	325.520	7747.30	12852.57	10062.16	-8037.52	1750360.69	445004.22	39°43'6.2586"N	80°23'14.8504"W	12878.23	321.383	0.07	-0.06	-0.03
21069.00	90.310	325.420	7746.61	12947.56	10140.42	-8091.37	1750306.84	445082.47	39°43'7.0267"N	80°23'15.5494"W	12972.98	321.413	0.24	-0.22	-0.11
21164.00	90.250	325.600	7746.14	13042.56	10218.72	-8145.16	1750253.05	445160.77	39°43'7.7953"N	80°23'16.2476"W	13067.74	321.442	0.20	-0.06	0.19
21258.00	90.280	325.330	7745.71	13136.55	10296.15	-8198.45	1750199.77	445238.20	39°43'8.5553"N	80°23'16.9393"W	13161.51	321.471	0.29	0.03	-0.29
21354.00	90.370	325.720	7745.17	13232.55	10375.29	-8252.79	1750145.43	445317.33	39°43'9.3321"N	80°23'17.6447"W	13257.27	321.500	0.42	0.09	0.41
21448.00	90.310	325.480	7744.61	13326.54	10452.85	-8305.90	1750092.33	445394.89	39°43'10.0934"N	80°23'18.3341"W	13351.03	321.529	0.26	-0.06	-0.26
21543.00	90.220	325.090	7744.17	13421.54	10530.94	-8360.00	1750038.23	445472.97	39°43'10.8598"N	80°23'19.0363"W	13445.83	321.556	0.42	-0.09	-0.41
21638.00	90.000	324.170	7743.99	13516.53	10608.40	-8414.99	1749983.24	445550.43	39°43'11.6200"N	80°23'19.7498"W	13540.69	321.577	1.00	-0.23	-0.97
21732.00	90.030	324.370	7743.96	13610.53	10684.71	-8469.88	1749928.35	445626.73	39°43'12.3687"N	80°23'20.4619"W	13634.59	321.596	0.22	0.03	0.21
21827.00	90.060	324.700	7743.89	13705.52	10762.09	-8525.00	1749873.24	445704.10	39°43'13.1280"N	80°23'21.1770"W	13729.46	321.616	0.35	0.03	0.35
21921.00	90.090	324.220	7743.76	13799.52	10838.57	-8579.64	1749818.60	445780.59	39°43'13.8785"N	80°23'21.8859"W	13823.35	321.635	0.51	0.03	-0.51
22016.00	89.940	324.760	7743.74	13894.51	10915.90	-8634.82	1749763.42	445857.91	39°43'14.6373"N	80°23'22.6018"W	13918.23	321.655	0.59	-0.16	0.57



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18C-HSM
Field	Monongalia	API	47-061-01946-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18C-HSM AWB
Slot	Slot C		

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]
22111.00	90.280	324.520	7743.56	13989.51	10993.38	-8689.80	1749708.45	445935.38	39°43'15.3976"N	80°23'23.3152"W	14013.10	321.675	0.44	0.36	-0.25
22300.00	89.780	324.400	7743.46	14178.50	11147.17	-8799.66	1749598.60	446089.17	39°43'16.9067"N	80°23'24.7405"W	14201.88	321.712	0.27	-0.26	-0.06
22395.00	89.690	324.480	7743.90	14273.50	11224.45	-8854.90	1749543.35	446166.44	39°43'17.6650"N	80°23'25.4573"W	14296.77	321.730	0.13	-0.09	0.08
22490.00	89.570	324.510	7744.51	14368.49	11301.79	-8910.08	1749488.18	446243.77	39°43'18.4239"N	80°23'26.1731"W	14391.66	321.749	0.13	-0.13	0.03
22584.00	90.250	324.020	7744.66	14462.48	11378.09	-8964.98	1749433.29	446320.07	39°43'19.1725"N	80°23'26.8954"W	14485.57	321.765	0.89	0.72	-0.52
22679.00	90.650	324.350	7743.91	14557.47	11455.12	-9020.56	1749377.70	446397.10	39°43'19.9284"N	80°23'27.6065"W	14580.48	321.781	0.55	0.42	0.35
22774.00	90.150	324.770	7743.25	14652.47	11532.52	-9075.65	1749322.62	446474.49	39°43'20.6878"N	80°23'28.3212"W	14675.37	321.799	0.69	-0.53	0.44
22869.00	90.280	324.300	7742.89	14747.46	11609.89	-9130.77	1749267.51	446551.86	39°43'21.4471"N	80°23'29.0364"W	14770.26	321.816	0.51	0.14	-0.49
22963.00	90.310	324.460	7742.41	14841.45	11686.30	-9185.51	1749212.76	446628.27	39°43'22.1968"N	80°23'29.7467"W	14864.16	321.832	0.17	0.03	0.17
23058.00	90.580	324.600	7741.67	14936.45	11763.67	-9240.64	1749157.64	446705.63	39°43'22.9560"N	80°23'30.4620"W	14959.06	321.850	0.32	0.28	0.15
23152.00	90.620	324.470	7740.69	15030.44	11840.23	-9295.17	1749103.11	446782.18	39°43'23.7072"N	80°23'31.1696"W	15052.95	321.866	0.14	0.04	-0.14
23247.00	90.550	324.600	7739.72	15125.43	11917.60	-9350.29	1749048.00	446859.55	39°43'24.4664"N	80°23'31.8848"W	15147.84	321.883	0.16	-0.07	0.14
23342.00	90.620	324.710	7738.75	15220.42	11995.08	-9405.24	1748993.05	446937.03	39°43'25.2268"N	80°23'32.5979"W	15242.73	321.900	0.14	0.07	0.12
23436.00	90.520	324.660	7737.81	15314.42	12071.78	-9459.58	1748938.71	447013.72	39°43'25.9794"N	80°23'33.3030"W	15336.61	321.917	0.12	-0.11	-0.05
23531.00	90.520	324.580	7736.95	15409.41	12149.24	-9514.58	1748883.71	447091.17	39°43'26.7395"N	80°23'34.0167"W	15431.50	321.934	0.08	0.00	-0.08
23626.00	90.620	324.630	7736.00	15504.41	12226.67	-9569.61	1748828.69	447168.60	39°43'27.4993"N	80°23'34.7307"W	15526.39	321.950	0.12	0.11	0.05
23721.00	90.680	324.670	7734.93	15599.40	12304.15	-9624.57	1748773.74	447246.08	39°43'28.2596"N	80°23'35.4439"W	15621.28	321.967	0.08	0.06	0.04
23815.00	90.370	323.850	7734.06	15693.39	12380.45	-9679.47	1748718.84	447322.37	39°43'29.0082"N	80°23'36.1562"W	15715.20	321.980	0.93	-0.33	-0.87
23910.00	90.490	324.390	7733.35	15788.37	12457.42	-9735.15	1748663.16	447399.33	39°43'29.7634"N	80°23'36.8786"W	15810.14	321.993	0.58	0.13	0.57
24005.00	90.310	323.590	7732.69	15883.35	12534.26	-9791.00	1748607.32	447476.17	39°43'30.5173"N	80°23'37.6031"W	15905.07	322.005	0.86	-0.19	-0.84
24100.00	90.550	324.140	7731.98	15978.33	12610.99	-9847.02	1748551.30	447552.89	39°43'31.2700"N	80°23'38.3298"W	16000.02	322.016	0.63	0.25	0.58
24194.00	90.580	324.640	7731.05	16072.32	12687.40	-9901.75	1748496.57	447629.31	39°43'32.0198"N	80°23'39.0399"W	16093.94	322.030	0.53	0.03	0.53
24289.00	90.370	324.260	7730.26	16167.31	12764.69	-9956.98	1748441.35	447706.59	39°43'32.7782"N	80°23'39.7566"W	16188.85	322.044	0.46	-0.22	-0.40
24384.00	90.430	324.200	7729.60	16262.30	12841.77	-10012.51	1748385.82	447783.66	39°43'33.5345"N	80°23'40.4771"W	16283.78	322.057	0.09	0.06	-0.06
24479.00	90.550	323.620	7728.79	16357.28	12918.54	-10068.47	1748329.86	447860.42	39°43'34.2876"N	80°23'41.2030"W	16378.72	322.068	0.62	0.13	-0.61
24574.00	90.400	324.480	7728.00	16452.26	12995.44	-10124.24	1748274.10	447937.32	39°43'35.0421"N	80°23'41.9265"W	16473.66	322.079	0.92	-0.16	0.91
24668.00	90.890	325.450	7726.94	16546.26	13072.40	-10178.19	1748220.14	448014.28	39°43'35.7974"N	80°23'42.6269"W	16567.54	322.096	1.16	0.52	1.03
24763.00	91.080	325.480	7725.31	16641.24	13150.65	-10232.04	1748166.30	448092.52	39°43'36.5653"N	80°23'43.3260"W	16662.36	322.115	0.20	0.20	0.03
24858.00	90.950	325.270	7723.62	16736.22	13228.81	-10286.01	1748112.33	448170.68	39°43'37.3324"N	80°23'44.0267"W	16757.19	322.133	0.26	-0.14	-0.22
24952.00	91.020	325.700	7722.01	16830.21	13306.25	-10339.27	1748059.08	448248.12	39°43'38.0925"N	80°23'44.7181"W	16851.02	322.152	0.46	0.07	0.46



Actual Wellpath Report

WDTN-18C-HSM AWP Proj: 27878'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18C-HSM
Field	Monongalia	API	47-061-01946-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18C-HSM AWB
Slot	Slot C		

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]
25047.00	91.080	325.430	7720.27	16925.18	13384.59	-10392.98	1748005.37	448326.45	39°43'38.8614"N	80°23'45.4155"W	16945.84	322.171	0.29	0.06	-0.28
25141.00	90.620	324.970	7718.87	17019.17	13461.77	-10446.62	1747951.73	448403.63	39°43'39.6189"N	80°23'46.1118"W	17039.69	322.188	0.69	-0.49	-0.49
25236.00	90.890	325.050	7717.62	17114.16	13539.59	-10501.09	1747897.27	448481.44	39°43'40.3826"N	80°23'46.8189"W	17134.57	322.203	0.30	0.28	0.08
25331.00	90.860	325.280	7716.17	17209.15	13617.56	-10555.35	1747843.01	448559.41	39°43'41.1477"N	80°23'47.5232"W	17229.43	322.220	0.24	-0.03	0.24
25425.00	89.850	324.640	7715.59	17303.15	13694.52	-10609.32	1747789.04	448636.36	39°43'41.9029"N	80°23'48.2238"W	17323.32	322.235	1.27	-1.07	-0.68
25520.00	90.550	325.550	7715.26	17398.15	13772.43	-10663.68	1747734.69	448714.26	39°43'42.6675"N	80°23'48.9294"W	17418.20	322.250	1.21	0.74	0.96
25615.00	90.430	325.480	7714.44	17493.14	13850.73	-10717.46	1747680.91	448792.56	39°43'43.4360"N	80°23'49.6278"W	17513.05	322.268	0.15	-0.13	-0.07
25710.00	90.550	325.470	7713.63	17588.13	13929.00	-10771.30	1747627.07	448870.82	39°43'44.2042"N	80°23'50.3268"W	17607.90	322.285	0.13	0.13	-0.01
25805.00	90.340	325.330	7712.89	17683.13	14007.19	-10825.25	1747573.13	448949.01	39°43'44.9716"N	80°23'51.0272"W	17702.75	322.302	0.27	-0.22	-0.15
25899.00	90.430	325.590	7712.26	17777.12	14084.62	-10878.54	1747519.84	449026.44	39°43'45.7315"N	80°23'51.7192"W	17796.61	322.319	0.29	0.10	0.28
25994.00	90.030	324.810	7711.88	17872.12	14162.63	-10932.76	1747465.62	449104.44	39°43'46.4971"N	80°23'52.4231"W	17891.49	322.334	0.92	-0.42	-0.82
26089.00	90.650	325.590	7711.32	17967.12	14240.64	-10986.98	1747411.41	449182.44	39°43'47.2626"N	80°23'53.1269"W	17986.37	322.349	1.05	0.65	0.82
26184.00	90.620	325.660	7710.26	18062.11	14319.04	-11040.61	1747357.78	449260.84	39°43'48.0322"N	80°23'53.8234"W	18081.21	322.366	0.08	-0.03	0.07
26279.00	90.610	325.430	7709.24	18157.10	14397.37	-11094.35	1747304.04	449339.17	39°43'48.8009"N	80°23'54.5213"W	18176.05	322.383	0.24	-0.01	-0.24
26374.00	90.400	325.250	7708.41	18252.09	14475.51	-11148.38	1747250.02	449417.30	39°43'49.5678"N	80°23'55.2227"W	18270.93	322.398	0.29	-0.22	-0.19
26468.00	90.430	325.510	7707.73	18346.09	14552.86	-11201.78	1747196.62	449494.65	39°43'50.3270"N	80°23'55.9161"W	18364.80	322.413	0.28	0.03	0.28
26563.00	90.860	325.660	7706.66	18441.07	14631.23	-11255.47	1747142.93	449573.01	39°43'51.0961"N	80°23'56.6132"W	18459.65	322.430	0.48	0.45	0.16
26658.00	90.770	325.550	7705.30	18536.06	14709.61	-11309.13	1747089.27	449651.39	39°43'51.8654"N	80°23'57.3101"W	18554.49	322.446	0.15	-0.09	-0.12
26848.00	90.860	325.700	7702.60	18726.03	14866.41	-11416.39	1746982.02	449808.18	39°43'53.4044"N	80°23'58.7030"W	18744.18	322.478	0.09	0.05	0.08
26942.00	90.770	325.620	7701.27	18820.01	14944.02	-11469.42	1746929.00	449885.79	39°43'54.1661"N	80°23'59.3915"W	18838.03	322.494	0.13	-0.10	-0.09
27037.00	90.650	325.300	7700.09	18915.00	15022.27	-11523.27	1746875.14	449964.03	39°43'54.9341"N	80°24'0.0909"W	18932.89	322.509	0.36	-0.13	-0.34
27132.00	90.550	325.320	7699.09	19010.00	15100.38	-11577.34	1746821.08	450042.13	39°43'55.7006"N	80°24'0.7929"W	19027.78	322.523	0.11	-0.11	0.02
27227.00	90.890	325.450	7697.90	19104.99	15178.56	-11631.30	1746767.12	450120.31	39°43'56.4678"N	80°24'1.4935"W	19122.65	322.537	0.38	0.36	0.14
27322.00	90.370	325.410	7696.85	19199.98	15256.78	-11685.20	1746713.23	450198.52	39°43'57.2355"N	80°24'2.1934"W	19217.52	322.551	0.55	-0.55	-0.04
27416.00	90.340	325.590	7695.27	19293.97	15334.24	-11738.44	1746659.99	450275.99	39°43'57.9958"N	80°24'2.8848"W	19311.40	322.566	0.19	-0.03	0.19
27511.00	90.310	325.190	7695.73	19388.97	15412.43	-11792.40	1746606.03	450354.17	39°43'58.7631"N	80°24'3.5854"W	19406.28	322.580	0.42	-0.03	-0.42
27606.00	90.370	325.220	7695.17	19483.97	15490.44	-11846.61	1746551.83	450432.18	39°43'59.5287"N	80°24'4.2893"W	19501.18	322.592	0.07	0.06	0.03
27701.00	90.400	325.680	7694.53	19578.96	15568.69	-11900.49	1746497.96	450510.41	39°44'0.2966"N	80°24'4.9889"W	19596.06	322.606	0.49	0.03	0.48
27795.00	90.310	326.010	7693.95	19672.95	15646.47	-11953.26	1746445.19	450588.19	39°44'1.0601"N	80°24'5.6743"W	19689.91	322.622	0.36	-0.10	0.35
27853.00	90.460	325.830	7693.56	19730.94	15694.51	-11985.76	1746412.69	450636.23	39°44'1.5315"N	80°24'6.0965"W	19747.81	322.631	0.40	0.26	-0.31



Actual Wellpath Report

WDTN-18C-HSM AWP Proj: 27878'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18C-HSM
Field	Monongalia	API	47-061-01946-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18C-HSM AWB
Slot	Slot C		

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]	Tum Rate [°/100ft]
27878.00‡	90.460	325.830	7693.36	19755.94	15715.19	-11999.80	1746398.65	450656.91	39°44'1.7346"N	80°24'6.2788"W	19772.77	322.635	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: WDTN-18C-HSM AWB Ref Wellpath: WDTN-18C-HSM AWP Proj: 27878'									
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	-0.01	-0.05
20in Conductor	28.00	69.00	41.00	28.00	69.00	0.00	0.00	-0.01	-0.05
17.5in Open Hole	69.00	1123.00	1054.00	69.00	1122.98	-0.01	-0.05	3.07	-4.74
13.375in Casing Surface	28.00	1123.00	1095.00	28.00	1122.98	0.00	0.00	3.07	-4.74
12.25in Open Hole	1123.00	2746.00	1623.00	1122.98	2745.49	3.07	-4.74	-20.26	-15.96
9.625in Casing Intermediate	28.00	2746.00	2718.00	28.00	2745.49	0.00	0.00	-20.26	-15.96
8.75in Open Hole	2746.00	6934.50	4188.50	2745.49	6855.21	-20.26	-15.96	-713.99	-288.81
8.5in Open Hole	6934.50	27878.00	20943.50	6855.21	7693.36	-713.99	-288.81	15715.19	-11999.80
5.5in Casing Production	28.00	27878.00	27850.00	28.00	7693.36	0.00	0.00	15715.19	-11999.80

Prepared by:
 Checked by:
 Date: 11/19/2024



Actual Wellpath Report

WDTN-18C-HSM AWP Proj: 27878'

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS CO, LLC	Well	WDTN-18C-HSM
Field	Monongalia	API	47-061-01946-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18C-HSM AWB
Slot	Slot C		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
WDTN-18C-HSM BHL Rev-2	7706.00	15713.01	-12003.52	1746394.93	450654.73	39°44'1.7126"N	80°24'6.3262"W	point
WDTN-18C-HSM State Line	7848.00	11092.60	-8768.27	1749629.98	446034.60	39°43'16.3704"N	80°23'24.3320"W	point
WDTN-18C-HSM LP Rev-2	7886.00	-258.07	-820.45	1757577.32	434684.61	39°41'24.9628"N	80°21'41.2323"W	point
WDTN-18 Marcellus North Lease Rev-2	8249.86	15873.28	-15228.91	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-18C-HSM AWB Ref Wellpath: WDTN-18C-HSM AWP Proj: 27878'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1062.00	Gyrodata 2015 - GC+WIR+CAS	01 Gyrodata MS Gyro <17-1/2"> (113.5'-1047.5')	WDTN-18C-HSM AWB	2/16/2024
1062.00	2713.50	OWSG MWD rev2 + HRGM	02 Tally MWD <12-1/4"> (1047.5')(1137'-2699')	WDTN-18C-HSM AWB	2/16/2024
2713.50	6867.50	OWSG MWD rev2 + HRGM	03 Tally MWD <8-3/4"> (2699')(2754'-6853')	WDTN-18C-HSM AWB	2/16/2024
6867.50	27878.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6867.5')(6956'-27853')	WDTN-18C-HSM AWB	4/9/2024

WDTN-18C-HSM AWP
 27878'
 4/9/2024



Actual Wellpath Report

WDTN-18C-HSM AWP Proj: 27878'

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS CO, LLC	Well	WDTN-18C-HSM
Field	Monongalia	API	47-061-01946-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18C-HSM AWB
Slot	Slot C		

COMMENTS

Wellpath general comments

API: 47-061-01946-0000

BH Job #: 112148370

Rig: Precision 575

Duration: 4/13/2024-4/18/2024

Gyrodata MS Gyro <17-1/2"> (113.5'-1047.5')

Tally MWD <12-1/4"> (1047.5')(1137'-2699')

Tally MWD <8-3/4"> (2699')(2754'-6853')

BH AT Curve <8-1/2"> (6867.5')(6956'-27853')

Projected MD at TD: 27878'

WV Department of
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