



CNX GAS CO, LLC



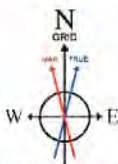
Location: Monongalia County, WV
 Field: Monongalia
 Facility: WDTN-18 Pad

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

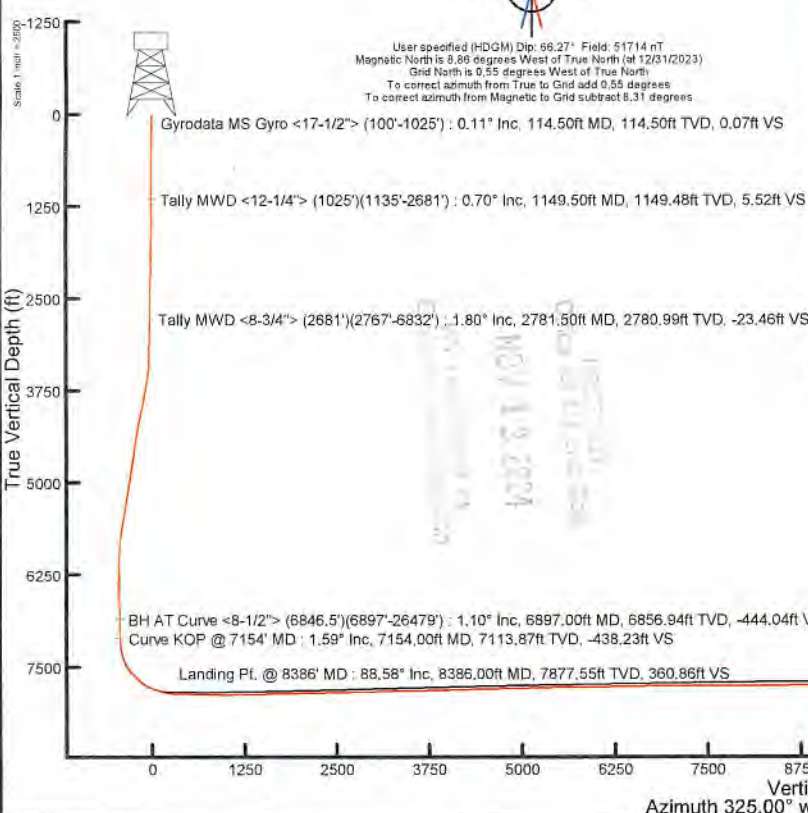
Field reference wellbore WDTN-18D-HSM PWB Rev-A.0	Grid System: NAD83 / Lambert West Virginia SP / North Zone (NAD83 US Feet)
This vertical depth is referenced to Precision 575 (RKB)	North Reference: Grid north
Subsurface depths measured depths are referenced to Precision 575 (RKB)	Scale: True distance
Precision 575 (RKB) to Mean Sea Level: 1226.77 feet	Coordinates are in feet referenced to GRS
Mean Sea Level to Mud line (At Slot, Slot D): -1198.77 feet	Depth: in feet
Other vertical MDs are referenced to wellbore path's default MD datum	Created by: adragon on 2024-02-27, Database: WA_MRI_EASTING.PWB_Elev

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
WDTN-18 Pad	1758356.150	434429.260	39°41'22.5131"N	80°21'31.2090"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot D	511.94	58.79	1758417.940	434941.170
Precision 575 (RKB) to Mud line (At Slot, Slot D)				28ft
Mean Sea Level to Mud line (At Slot, Slot D)				-1198.77ft
Precision 575 (RKB) to Mean Sea Level				1226.77ft

Well Data			
Slot	Well	Wellbore	Wellpath
Slot D	WDTN-18D-HSM	WDTN-18D-HSM AWB	WDTN-18D-HSM AWP Proj. 26505'
Slot D	WDTN-18D-HSM	WDTN-18D-HSM PWB	WDTN-18D-HSM PWP Rev-A.0

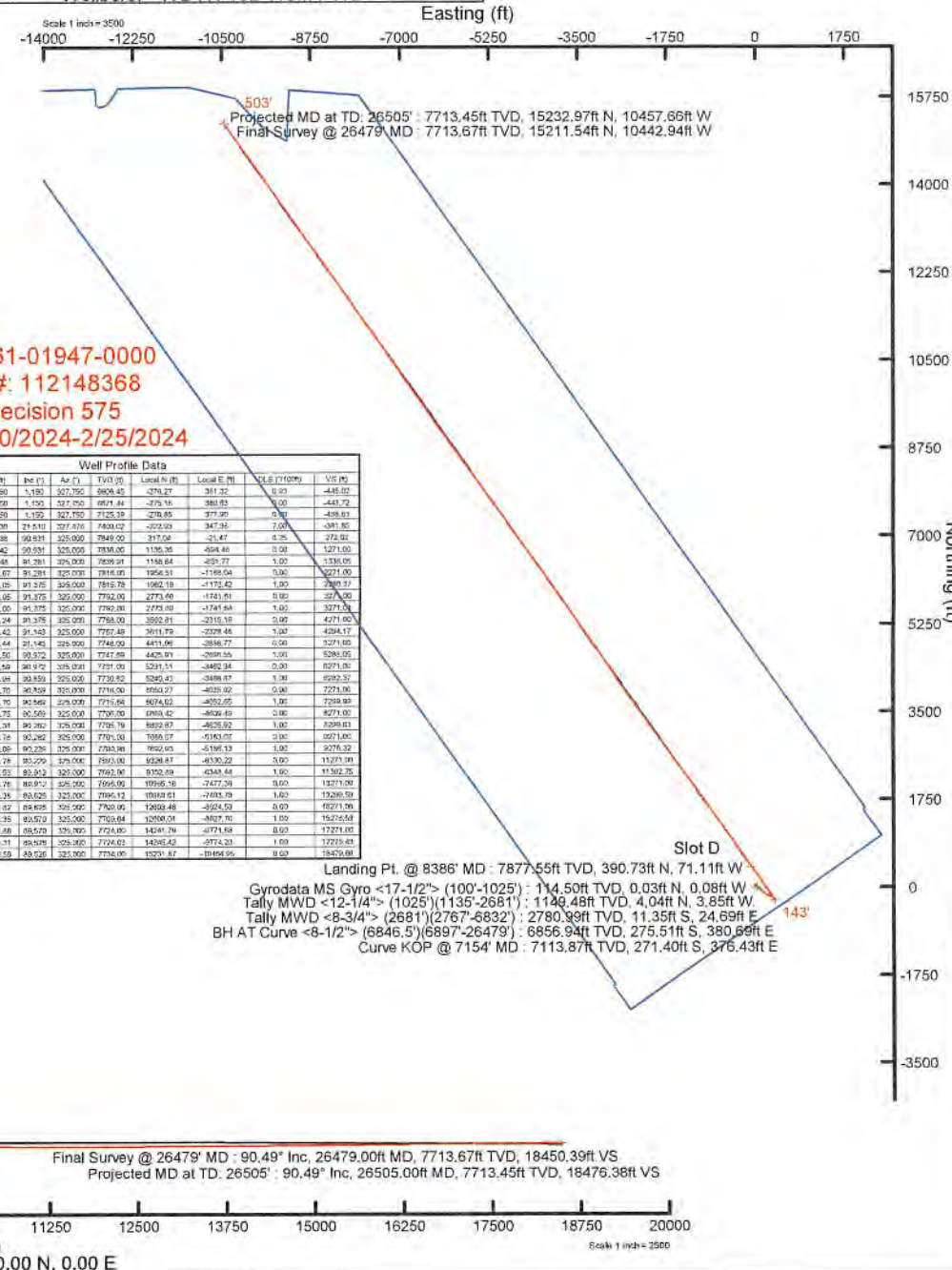


User specified (HDGM) Dip: 66.27° Field: 517.14 nT
 Magnetic North is 8.86 degrees West of True North (at 12/31/2023)
 Grid North is 0.55 degrees West of True North
 To correct azimuth from True to Grid add 0.55 degrees
 To correct azimuth from Magnetic to Grid subtract 8.31 degrees



API: 47-061-01947-0000
 BH Job #: 112148368
 Rig: Precision 575
 Duration: 2/20/2024-2/25/2024

Well Profile Data									
Design Comment	MET (ft)	Inc (°)	Apr (°)	TVD (ft)	Label N (ft)	Local E (ft)	True E (ft)	VS (ft)	VS (ft)
Top of Hole	8648.50	1.150	327.750	5904.45	-376.27	311.32	0.00	-448.60	
Prev. to Bottom	6941.59	1.150	327.750	6911.44	-275.16	360.63	0.00	-448.72	
Curve KOP	7195.59	1.150	327.750	7125.59	-276.95	371.90	0.00	-458.63	
End of Dip	7629.39	21.450	329.000	7630.02	-222.00	347.85	1.00	-381.90	
Landing Pt.	8386.38	89.631	325.000	7849.00	317.04	-21.47	4.75	-272.91	
1271° VS	8293.42	90.551	325.000	7838.00	1135.35	-694.48	0.00	1271.00	
End of Build	8365.48	80.381	325.000	7839.97	1138.64	-693.77	1.00	1330.00	
5271° VS	10293.67	91.281	325.000	7816.00	1954.31	-1148.04	0.00	10271.00	
End of Build	10303.00	91.325	325.000	7816.78	1962.19	-1152.42	1.00	2869.57	
6271° VS	11069.05	91.875	325.000	7792.00	2773.66	-1741.61	0.00	11069.00	
End of Build	11254.00	91.375	325.000	7782.00	2779.09	-1741.64	1.00	3271.00	
6271° VS	12084.24	91.375	325.000	7788.00	3292.91	-2015.10	0.00	4271.00	
End of Dip	12217.42	91.140	325.000	7791.48	3911.79	-2228.46	1.00	4594.17	
5271° VS	12264.44	21.140	325.000	7746.00	4411.06	-2846.77	0.00	5271.00	
End of Dip	13111.50	30.972	325.000	7747.89	4425.93	-2849.55	1.00	5263.00	
6271° VS	14094.59	30.972	325.000	7721.00	5291.51	-3452.34	0.00	6271.00	
End of Dip	14558.89	30.950	325.000	7720.62	6042.47	-3948.87	1.00	6929.57	
7271° VS	15284.74	30.829	325.000	7716.00	6950.27	-4635.92	0.00	7271.00	
End of Dip	15325.70	30.560	325.000	7715.66	6074.02	-4052.05	1.00	7089.89	
6271° VS	16204.72	30.560	325.000	7707.00	6989.42	-4639.49	0.00	8271.00	
End of Dip	16333.39	30.280	325.000	7705.78	8053.67	-5255.32	1.00	8269.61	
6271° VS	17204.74	30.280	325.000	7700.00	7089.07	-5163.07	0.00	9271.00	
End of Dip	17300.00	30.235	325.000	7700.00	7662.95	-5198.13	1.00	9276.32	
11271° VS	18204.78	30.220	325.000	7693.00	9298.87	-4830.22	0.00	11271.00	
End of Dip	18328.00	30.072	325.000	7692.00	9752.59	-4584.44	1.00	11302.35	
10271° VS	19176.78	30.000	325.000	7686.00	10916.18	-3477.28	0.00	13271.00	
End of Dip	21923.25	65.625	325.000	7096.12	10919.61	-7493.78	1.00	13269.59	
10271° VS	23294.82	65.625	325.000	7700.00	12691.48	-3624.59	0.00	16271.00	
End of Dip	23594.35	65.570	325.000	7703.84	12908.21	-3629.70	1.00	16263.68	
11271° VS	25234.68	65.570	325.000	7724.00	14491.79	-4774.64	0.00	17271.00	
End of Dip	26764.31	65.429	325.000	7724.62	14263.42	-4774.23	1.00	17270.43	
B-L	26593.59	30.526	325.000	7736.00	13291.87	-18464.95	0.00	18470.00	



Landing Pt. @ 8386' MD : 7877.55ft TVD, 390.73ft N, 71.11ft W
 Gyrodatta MS Gyro <17-1/2"> (100'-1025') : 114.50ft TVD, 0.03ft N, 0.08ft W
 Tally MWD <12-1/4"> (1025')(1135'-2681') : 1149.48ft TVD, 4.04ft N, 3.85ft W
 Tally MWD <8-3/4"> (2681')(2767'-6832') : 2780.99ft TVD, 11.35ft S, 24.69ft E
 BH AT Curve <8-1/2"> (6846.5')(6897'-26479') : 6856.94ft TVD, 275.51ft S, 380.69ft E
 Curve KOP @ 7154' MD : 7113.87ft TVD, 271.40ft S, 376.43ft E

Final Survey @ 26479' MD : 90.49° Inc, 26479.00ft MD, 7713.67ft TVD, 18450.39ft VS
 Projected MD at TD. 26505' : 90.49° Inc, 26505.00ft MD, 7713.45ft TVD, 18476.38ft VS



Actual Wellpath Report

WDTN-18D-HSM AWP Proj: 26505'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18D-HSM
Field	Monongalia	API	47-061-01947-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18D-HSM AWB
Slot	Slot D		

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	2/27/2024 at 12:57:22 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	511.94	58.79	1758417.94	434941.17	39°41'27.5779"N	80°21'30.5106"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 D)	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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 Environmental Protection



Actual Wellpath Report

WDTN-18D-HSM AWP Proj: 26505'
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Facility	WDTN-18 Pad	Wellbore	WDTN-18D-HSM AWB
Slot	Slot D		

WELLPATH DATA (298 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	288.480	0.00	0.00	0.00	0.00	1758417.94	434941.17	39°41'27.5779"N	80°21'30.5106"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	288.480	28.00	0.00	0.00	0.00	1758417.94	434941.17	39°41'27.5779"N	80°21'30.5106"W	0.00	0.000	0.00	0.00	0.00
114.50	0.110	288.480	114.50	0.07	0.03	-0.08	1758417.86	434941.20	39°41'27.5782"N	80°21'30.5116"W	0.08	288.480	0.13	0.13	0.00
164.50	0.030	171.860	164.50	0.09	0.03	-0.12	1758417.82	434941.20	39°41'27.5782"N	80°21'30.5121"W	0.13	283.139	0.25	-0.16	-233.24
214.50	0.180	342.710	214.50	0.16	0.09	-0.14	1758417.80	434941.26	39°41'27.5788"N	80°21'30.5124"W	0.17	302.195	0.42	0.30	341.70
264.50	0.170	322.210	264.50	0.31	0.22	-0.21	1758417.73	434941.39	39°41'27.5801"N	80°21'30.5133"W	0.31	316.509	0.13	-0.02	-41.00
314.50	0.280	337.880	314.50	0.50	0.40	-0.30	1758417.64	434941.57	39°41'27.5818"N	80°21'30.5145"W	0.50	322.474	0.25	0.22	31.34
364.50	0.380	330.620	364.50	0.78	0.65	-0.43	1758417.51	434941.82	39°41'27.5843"N	80°21'30.5162"W	0.78	326.570	0.22	0.20	-14.52
414.50	0.230	307.450	414.50	1.04	0.86	-0.59	1758417.35	434942.03	39°41'27.5863"N	80°21'30.5182"W	1.04	325.408	0.38	-0.30	-46.34
464.50	0.250	280.250	464.50	1.22	0.94	-0.78	1758417.16	434942.11	39°41'27.5871"N	80°21'30.5206"W	1.22	320.320	0.23	0.04	-54.40
514.50	0.180	331.510	514.50	1.37	1.03	-0.92	1758417.02	434942.20	39°41'27.5880"N	80°21'30.5225"W	1.38	318.041	0.39	-0.14	102.52
564.50	0.090	284.760	564.50	1.48	1.11	-1.00	1758416.94	434942.28	39°41'27.5888"N	80°21'30.5235"W	1.49	317.916	0.27	-0.18	-93.50
614.50	0.320	293.490	614.50	1.63	1.17	-1.17	1758416.77	434942.34	39°41'27.5894"N	80°21'30.5256"W	1.65	315.170	0.46	0.46	17.46
664.50	0.410	309.250	664.50	1.92	1.34	-1.43	1758416.51	434942.51	39°41'27.5910"N	80°21'30.5290"W	1.96	313.125	0.27	0.18	31.52
714.50	0.300	315.120	714.49	2.22	1.55	-1.66	1758416.28	434942.72	39°41'27.5930"N	80°21'30.5320"W	2.27	312.935	0.23	-0.22	11.74
764.50	0.300	312.550	764.49	2.48	1.73	-1.85	1758416.09	434942.90	39°41'27.5948"N	80°21'30.5345"W	2.53	313.028	0.03	0.00	-5.14
814.50	0.330	345.040	814.49	2.74	1.96	-1.99	1758415.95	434943.13	39°41'27.5971"N	80°21'30.5362"W	2.79	314.575	0.36	0.06	64.98
864.50	0.380	315.850	864.49	3.04	2.21	-2.14	1758415.80	434943.38	39°41'27.5996"N	80°21'30.5382"W	3.08	316.002	0.37	0.10	-58.38
914.50	0.410	322.270	914.49	3.38	2.47	-2.36	1758415.58	434943.64	39°41'27.6021"N	80°21'30.5411"W	3.42	316.322	0.11	0.06	12.84
964.50	0.470	305.340	964.49	3.75	2.74	-2.64	1758415.30	434943.90	39°41'27.6047"N	80°21'30.5447"W	3.80	316.012	0.28	0.12	-33.88
1014.50	0.460	325.300	1014.49	4.15	3.02	-2.92	1758415.02	434944.19	39°41'27.6075"N	80°21'30.5483"W	4.20	315.936	0.32	-0.02	39.92
1039.50	0.520	320.280	1039.49	4.36	3.19	-3.05	1758414.89	434944.36	39°41'27.6091"N	80°21'30.5500"W	4.41	316.260	0.29	0.24	-20.08
1149.50	0.700	314.380	1149.48	5.52	4.04	-3.85	1758414.09	434945.21	39°41'27.6175"N	80°21'30.5603"W	5.58	316.393	0.17	0.16	-5.36
1237.50	0.620	303.930	1237.47	6.49	4.68	-4.63	1758413.31	434945.85	39°41'27.6238"N	80°21'30.5703"W	6.59	315.335	0.16	-0.09	-11.88
1323.50	0.730	173.910	1323.47	6.45	4.40	-4.96	1758412.98	434945.57	39°41'27.6209"N	80°21'30.5745"W	6.63	311.583	1.42	0.13	-151.19
1411.50	1.120	162.880	1411.46	5.14	3.02	-4.65	1758413.30	434944.19	39°41'27.6073"N	80°21'30.5703"W	5.54	303.028	0.49	0.44	-12.53
1499.50	1.270	155.240	1499.44	3.36	1.31	-3.98	1758413.96	434942.48	39°41'27.5905"N	80°21'30.5617"W	4.19	288.233	0.25	0.17	-8.68
1577.50	1.210	146.440	1577.42	1.69	-0.16	-3.17	1758414.77	434941.01	39°41'27.5760"N	80°21'30.5510"W	3.17	267.125	0.26	-0.08	-11.28
1665.50	1.440	137.940	1665.40	-0.34	-1.75	-1.91	1758416.03	434939.42	39°41'27.5604"N	80°21'30.5348"W	2.59	227.460	0.34	0.26	-9.66
1752.50	1.570	136.020	1752.37	-2.60	-3.42	-0.35	1758417.59	434937.75	39°41'27.5440"N	80°21'30.5146"W	3.44	185.867	0.16	0.15	-2.21

Approved
 Date: 11/11/2014
 By: [Signature]



Actual Wellpath Report

WDTN-18D-HSM AWP Proj: 26505'
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REFERENCE WELLPATH IDENTIFICATION			
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Field	Monongalia	API	47-061-01947-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18D-HSM AWB
Slot	Slot D		

WELLPATH DATA (298 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]
1840.50	1.500	128.480	1840.34	-4.90	-5.01	1.39	1758419.33	434936.16	39°41'27.5285"N	80°21'30.4922"W	5.20	164.519	0.24	-0.08	-8.57
1926.50	1.410	127.320	1926.31	-6.98	-6.35	3.11	1758421.05	434934.82	39°41'27.5154"N	80°21'30.4700"W	7.07	153.907	0.11	-0.10	-1.35
2014.50	1.670	122.640	2014.28	-9.20	-7.70	5.05	1758422.99	434933.47	39°41'27.5023"N	80°21'30.4450"W	9.21	146.731	0.33	0.30	-5.32
2103.50	1.870	121.310	2103.24	-11.73	-9.15	7.38	1758425.32	434932.02	39°41'27.4882"N	80°21'30.4150"W	11.76	141.105	0.23	0.22	-1.49
2191.50	1.370	118.870	2191.20	-13.99	-10.41	9.53	1758427.47	434930.76	39°41'27.4760"N	80°21'30.3874"W	14.11	137.512	0.57	-0.57	-2.77
2279.50	1.360	109.790	2279.18	-15.79	-11.27	11.43	1758429.37	434929.90	39°41'27.4676"N	80°21'30.3629"W	16.05	134.577	0.25	-0.01	-10.32
2367.50	1.330	107.720	2367.15	-17.45	-11.93	13.39	1758431.33	434929.24	39°41'27.4613"N	80°21'30.3378"W	17.94	131.703	0.06	-0.03	-2.35
2454.50	1.530	93.510	2454.12	-18.98	-12.31	15.51	1758433.45	434928.86	39°41'27.4577"N	80°21'30.3106"W	19.80	128.436	0.47	0.23	-16.33
2542.50	1.490	87.930	2542.09	-20.33	-12.34	17.83	1758435.77	434928.83	39°41'27.4576"N	80°21'30.2810"W	21.68	124.692	0.17	-0.05	-6.34
2630.50	1.730	83.670	2630.06	-21.59	-12.15	20.29	1758438.23	434929.02	39°41'27.4597"N	80°21'30.2495"W	23.65	120.918	0.30	0.27	-4.84
2695.50	1.630	76.070	2695.03	-22.40	-11.82	22.16	1758440.10	434929.35	39°41'27.4632"N	80°21'30.2256"W	25.12	118.076	0.38	-0.15	-11.69
2781.50	1.800	82.380	2780.99	-23.46	-11.35	24.69	1758442.63	434929.82	39°41'27.4681"N	80°21'30.1934"W	27.17	114.686	0.30	0.20	7.34
2869.50	1.170	118.390	2868.96	-24.90	-11.59	26.85	1758444.79	434929.58	39°41'27.4659"N	80°21'30.1657"W	29.25	113.352	1.25	-0.72	40.92
2956.50	1.040	140.440	2955.95	-26.48	-12.62	28.13	1758446.07	434928.55	39°41'27.4558"N	80°21'30.1491"W	30.84	114.165	0.51	-0.15	25.34
3043.50	0.970	118.800	3042.94	-27.93	-13.59	29.28	1758447.22	434927.58	39°41'27.4464"N	80°21'30.1343"W	32.28	114.891	0.44	-0.08	-24.87
3131.50	0.900	132.720	3130.92	-29.27	-14.41	30.44	1758448.38	434926.76	39°41'27.4383"N	80°21'30.1194"W	33.68	115.338	0.27	-0.08	15.82
3218.50	1.010	133.560	3217.91	-30.69	-15.41	31.50	1758449.44	434925.76	39°41'27.4286"N	80°21'30.1057"W	35.07	116.063	0.13	0.13	0.97
3305.50	1.830	117.920	3304.89	-32.68	-16.59	33.28	1758451.22	434924.59	39°41'27.4171"N	80°21'30.0828"W	37.19	116.488	1.03	0.94	-17.98
3393.50	3.640	124.420	3392.78	-36.54	-18.82	36.83	1758454.77	434922.35	39°41'27.3954"N	80°21'30.0372"W	41.36	117.070	2.08	2.06	7.39
3482.50	5.590	124.290	3481.49	-43.24	-22.86	42.74	1758460.68	434918.31	39°41'27.3560"N	80°21'29.9610"W	48.47	118.142	2.19	2.19	-0.15
3568.50	7.410	125.250	3566.93	-52.38	-28.42	50.73	1758468.67	434912.75	39°41'27.3018"N	80°21'29.8582"W	58.15	119.260	2.12	2.12	1.12
3655.50	8.940	129.180	3653.05	-64.17	-35.93	60.55	1758478.49	434905.24	39°41'27.2285"N	80°21'29.7316"W	70.41	120.684	1.87	1.76	4.52
3743.50	10.090	131.140	3739.83	-78.23	-45.32	71.66	1758489.60	434895.85	39°41'27.1368"N	80°21'29.5884"W	84.79	122.312	1.36	1.31	2.23
3830.50	10.960	128.240	3825.37	-93.55	-55.46	83.90	1758501.83	434885.72	39°41'27.0378"N	80°21'29.4306"W	100.57	123.465	1.17	1.00	-3.33
3917.50	11.510	126.090	3910.70	-109.68	-65.69	97.41	1758515.34	434875.49	39°41'26.9379"N	80°21'29.2566"W	117.49	123.995	0.78	0.63	-2.47
4005.50	12.400	129.280	3996.79	-127.08	-76.84	111.81	1758529.75	434864.33	39°41'26.8291"N	80°21'29.0709"W	135.67	124.498	1.26	1.01	3.63
4094.50	12.570	124.630	4083.69	-145.36	-88.40	127.18	1758545.11	434852.78	39°41'26.7163"N	80°21'28.8730"W	154.88	124.801	1.15	0.19	-5.22
4182.50	12.380	126.360	4169.61	-163.27	-99.43	142.66	1758560.59	434841.75	39°41'26.6087"N	80°21'28.6736"W	173.89	124.876	0.48	-0.22	1.97
4271.50	11.780	129.420	4256.64	-181.07	-110.86	157.36	1758575.29	434830.32	39°41'26.4972"N	80°21'28.4842"W	192.49	125.164	0.99	-0.67	3.44
4359.50	10.840	128.950	4342.93	-197.67	-121.76	170.73	1758588.66	434819.42	39°41'26.3907"N	80°21'28.3118"W	209.70	125.495	1.07	-1.07	-0.53

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Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18D-HSM
Field	Monongalia	API	47-061-01947-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18D-HSM AWB
Slot	Slot D		

WELLPATH DATA (298 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]	
4447.50	9.720	130.710	4429.52	-212.82	-131.81	182.80	1758600.73	434809.37	39°41'26.2925"N	80°21'28.1562"W	225.37	125.794	1.32	-1.27	2.00	
4533.50	9.440	127.070	4514.32	-226.57	-140.80	193.93	1758611.86	434800.38	39°41'26.2048"N	80°21'28.0127"W	239.65	125.980	0.78	-0.33	-4.23	
4621.50	8.660	121.960	4601.23	-239.53	-148.65	205.31	1758623.24	434792.53	39°41'26.1282"N	80°21'27.8662"W	253.48	125.906	1.27	-0.89	-5.81	
4709.50	9.700	125.240	4688.10	-252.61	-156.44	216.99	1758634.91	434784.74	39°41'26.0524"N	80°21'27.7159"W	267.50	125.790	1.32	1.18	3.73	
4787.50	9.340	120.460	4765.03	-264.55	-163.44	227.81	1758645.74	434777.74	39°41'25.9842"N	80°21'27.5766"W	280.37	125.657	1.11	-0.46	-6.13	
4875.50	9.720	116.590	4851.81	-277.58	-170.38	240.61	1758658.53	434770.80	39°41'25.9168"N	80°21'27.4121"W	294.83	125.304	0.85	0.43	-4.40	
4963.50	10.330	117.040	4938.47	-291.08	-177.30	254.28	1758672.20	434763.89	39°41'25.8498"N	80°21'27.2364"W	309.99	124.886	0.70	0.69	0.51	
5051.50	10.590	112.730	5025.01	-304.89	-184.01	268.76	1758686.69	434757.17	39°41'25.7848"N	80°21'27.0503"W	325.72	124.397	0.94	0.30	-4.90	
5138.50	10.440	112.900	5110.55	-318.32	-190.16	283.40	1758701.32	434751.02	39°41'25.7253"N	80°21'26.8623"W	341.29	123.862	0.18	-0.17	0.20	
5225.50	11.170	118.920	5196.01	-332.57	-197.31	298.04	1758715.96	434743.88	39°41'25.6561"N	80°21'26.6742"W	357.43	123.505	1.54	0.84	6.92	
5311.50	10.840	120.110	5280.43	-347.39	-205.39	312.32	1758730.25	434735.79	39°41'25.5776"N	80°21'26.4905"W	373.81	123.330	0.47	-0.38	1.38	
5397.50	10.460	119.440	5364.94	-361.77	-213.29	326.12	1758744.04	434727.90	39°41'25.5009"N	80°21'26.3131"W	389.67	123.185	0.46	-0.44	-0.78	
5485.50	10.210	122.050	5451.52	-376.16	-221.35	339.69	1758757.61	434719.83	39°41'25.4224"N	80°21'26.1385"W	405.44	123.090	0.60	-0.28	2.97	
5573.50	10.370	128.630	5538.10	-390.94	-230.43	352.48	1758770.40	434710.75	39°41'25.3339"N	80°21'25.9737"W	421.12	123.174	1.35	0.18	7.48	
5661.50	10.530	131.410	5624.64	-406.35	-240.70	364.70	1758782.62	434700.49	39°41'25.2336"N	80°21'25.8162"W	436.97	123.424	0.60	0.18	3.16	
5749.50	9.580	132.940	5711.29	-421.33	-251.00	376.09	1758794.01	434690.18	39°41'25.1328"N	80°21'25.6692"W	452.16	123.719	1.12	-1.08	1.74	
5838.50	7.630	142.170	5799.29	-434.47	-260.72	385.14	1758803.06	434680.47	39°41'25.0377"N	80°21'25.5523"W	465.09	124.096	2.68	-2.19	10.37	
5925.50	4.860	157.800	5885.77	-443.84	-268.69	390.08	1758807.99	434672.49	39°41'24.9593"N	80°21'25.4882"W	473.66	124.560	3.71	-3.18	17.97	
6013.50	2.410	175.760	5973.59	-449.07	-273.99	391.62	1758809.54	434667.20	39°41'24.9071"N	80°21'25.4678"W	477.95	124.978	3.04	-2.78	20.41	
6100.50	0.810	223.720	6060.56	-450.76	-276.26	391.33	1758809.25	434664.93	39°41'24.8847"N	80°21'25.4712"W	479.02	125.220	2.26	-1.84	55.13	
6188.50	1.050	228.530	6148.54	-450.97	-277.24	390.30	1758808.21	434663.94	39°41'24.8749"N	80°21'25.4843"W	478.74	125.388	0.29	0.27	5.47	
6276.50	1.030	232.500	6236.53	-451.10	-278.26	389.07	1758806.98	434662.93	39°41'24.8647"N	80°21'25.4999"W	478.33	125.572	0.08	-0.02	4.51	
6363.50	0.750	235.510	6323.52	-451.13	-279.06	387.98	1758805.89	434662.13	39°41'24.8567"N	80°21'25.5138"W	477.91	125.726	0.33	-0.32	3.46	
6451.50	0.850	266.960	6411.51	-450.77	-279.42	386.85	1758804.77	434661.77	39°41'24.8530"N	80°21'25.5282"W	477.21	125.840	0.50	0.11	35.74	
6538.50	0.950	268.850	6498.50	-450.03	-279.47	385.48	1758803.40	434661.72	39°41'24.8524"N	80°21'25.5456"W	476.13	125.941	0.12	0.11	2.17	
6626.50	0.820	305.800	6586.49	-449.03	-279.11	384.24	1758802.16	434662.07	39°41'24.8558"N	80°21'25.5615"W	474.92	125.994	0.65	-0.15	41.99	
6714.50	0.970	317.160	6674.48	-447.70	-278.20	383.23	1758801.14	434662.99	39°41'24.8647"N	80°21'25.5746"W	473.56	125.977	0.26	0.17	12.91	
6802.50	1.340	311.040	6762.46	-445.96	-276.98	381.94	1758799.86	434664.21	39°41'24.8767"N	80°21'25.5912"W	471.80	125.949	0.44	0.42	-6.95	
6846.50	1.150	327.750	6806.45	-445.02	-276.27	381.32	1758799.24	434664.92	39°41'24.8837"N	80°21'25.5993"W	470.88	125.923	0.93	-0.43	37.98	
6897.00	1.100	312.570	6856.94	-444.04	-275.51	380.69	1758798.61	434665.68	39°41'24.8911"N	80°21'25.6074"W	469.93	125.893	0.60	-0.10	-30.06	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18D-HSM
Field	Monongalia	API	47-061-01947-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18D-HSM AWB
Slot	Slot D		

WELLPATH DATA (298 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]
6964.00	1.300	327.270	6923.93	-442.65	-274.43	379.81	1758797.73	434666.75	39°41'24.9016"N	80°21'25.6188"W	468.58	125.850	0.55	0.30	21.94
7059.00	1.370	298.160	7018.90	-440.56	-272.99	378.23	1758796.14	434668.19	39°41'24.9157"N	80°21'25.6393"W	466.45	125.821	0.71	0.07	-30.64
7154.00	1.590	323.000	7113.87	-438.23	-271.40	376.43	1758794.35	434669.78	39°41'24.9313"N	80°21'25.6624"W	464.07	125.791	0.71	0.23	26.15
7249.00	8.700	340.190	7208.43	-429.97	-263.58	373.20	1758791.12	434677.60	39°41'25.0083"N	80°21'25.7047"W	456.89	125.233	7.58	7.48	18.09
7344.00	13.720	325.500	7301.61	-411.76	-247.52	364.38	1758792.29	434693.66	39°41'25.1661"N	80°21'25.8195"W	440.50	124.189	6.04	5.28	-15.46
7439.00	18.940	330.580	7392.75	-385.13	-224.79	350.41	1758768.33	434716.39	39°41'25.3894"N	80°21'26.0009"W	416.32	122.681	5.69	5.49	5.35
7533.00	28.030	331.960	7478.87	-347.94	-191.94	332.50	1758750.42	434749.24	39°41'25.7124"N	80°21'26.2341"W	383.92	119.997	9.69	9.67	1.47
7628.00	36.130	327.160	7559.31	-297.71	-148.63	306.77	1758724.69	434792.55	39°41'26.1380"N	80°21'26.5685"W	340.88	115.850	8.93	8.53	-5.05
7723.00	42.470	323.990	7632.80	-237.58	-99.10	272.69	1758690.61	434842.08	39°41'26.6243"N	80°21'27.0105"W	290.13	109.972	7.00	6.67	-3.34
7818.00	50.560	326.010	7698.12	-168.72	-42.64	233.25	1758651.18	434898.53	39°41'27.1785"N	80°21'27.5217"W	237.12	100.360	8.65	8.52	2.13
7912.00	60.490	325.790	7751.26	-91.34	21.44	189.86	1758607.79	434962.61	39°41'27.8077"N	80°21'28.0847"W	191.06	83.557	10.57	10.56	-0.23
8007.00	67.010	324.490	7793.26	-6.18	91.30	141.16	1758559.09	435032.46	39°41'28.4935"N	80°21'28.7161"W	168.11	57.107	6.97	6.86	-1.37
8102.00	71.060	323.970	7827.24	82.50	163.26	89.31	1758507.25	435104.42	39°41'29.1997"N	80°21'29.3881"W	186.09	28.682	4.29	4.26	-0.55
8197.00	76.700	324.440	7853.61	173.72	237.26	35.96	1758453.90	435178.41	39°41'29.9260"N	80°21'30.0796"W	239.97	8.619	5.96	5.94	0.49
8291.00	82.750	325.420	7870.37	266.17	312.92	-17.15	1758400.79	435254.08	39°41'30.6688"N	80°21'30.7682"W	313.39	356.863	6.52	6.44	1.04
8386.00	88.580	325.100	7877.55	360.86	390.73	-71.11	1758346.83	435331.88	39°41'31.4326"N	80°21'31.4679"W	397.15	349.686	6.15	6.14	-0.34
8481.00	87.870	325.760	7880.49	455.81	468.92	-124.99	1758292.96	435410.06	39°41'32.2002"N	80°21'32.1667"W	485.29	345.075	1.02	-0.75	0.69
8576.00	90.060	324.840	7882.21	550.78	547.01	-179.06	1758238.89	435488.14	39°41'32.9668"N	80°21'32.8678"W	575.57	341.875	2.50	2.31	-0.97
8671.00	90.180	324.680	7882.01	645.78	624.60	-233.87	1758184.08	435565.73	39°41'33.7284"N	80°21'33.5785"W	666.95	339.472	0.21	0.13	-0.17
8765.00	89.820	324.610	7882.01	739.78	701.26	-288.26	1758129.69	435642.39	39°41'34.4809"N	80°21'34.2836"W	758.20	337.654	0.39	-0.38	-0.07
8860.00	88.740	323.870	7883.20	834.76	778.34	-343.78	1758074.19	435719.47	39°41'35.2374"N	80°21'35.0032"W	850.88	336.170	1.38	-1.14	-0.78
8955.00	90.090	325.200	7884.17	929.75	855.71	-398.89	1758019.07	435796.83	39°41'35.9968"N	80°21'35.7176"W	944.11	335.007	1.99	1.42	1.40
9049.00	91.080	324.710	7883.21	1023.74	932.66	-452.86	1757965.10	435873.78	39°41'36.7522"N	80°21'36.4175"W	1036.79	334.101	1.18	1.05	-0.52
9144.00	90.920	324.690	7881.55	1118.73	1010.18	-507.75	1757910.22	435951.29	39°41'37.5131"N	80°21'37.1291"W	1130.61	333.314	0.17	-0.17	-0.02
9239.00	91.570	326.150	7879.49	1213.70	1088.38	-561.65	1757856.32	436029.48	39°41'38.2808"N	80°21'37.8282"W	1224.75	332.704	1.68	0.68	1.54
9334.00	90.770	324.770	7877.55	1308.67	1166.61	-615.50	1757802.47	436107.71	39°41'39.0489"N	80°21'38.5266"W	1319.03	332.184	1.68	-0.84	-1.45
9429.00	90.890	324.950	7876.17	1403.66	1244.29	-670.18	1757747.80	436185.39	39°41'39.8113"N	80°21'39.2355"W	1413.30	331.693	0.23	0.13	0.19
9523.00	90.920	325.310	7874.69	1497.65	1321.41	-723.91	1757694.07	436262.50	39°41'40.5683"N	80°21'39.9323"W	1506.71	331.284	0.38	0.03	0.38
9618.00	91.140	325.490	7872.98	1592.63	1399.59	-777.85	1757640.14	436340.68	39°41'41.3359"N	80°21'40.6319"W	1601.22	330.936	0.30	0.23	0.19
9713.00	90.990	325.130	7871.21	1687.62	1477.69	-831.91	1757586.08	436418.77	39°41'42.1026"N	80°21'41.3329"W	1695.77	330.621	0.41	-0.16	-0.38

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 Slot D



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18D-HSM
Field	Monongalia	API	47-061-01947-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18D-HSM AWB
Slot	Slot D		

WELLPATH DATA (298 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]
9808.00	91.050	324.760	7869.52	1782.60	1555.44	-886.46	1757531.53	436496.52	39°41'42.8658"N	80°21'42.0404"W	1790.31	330.321	0.39	0.06	-0.39
9903.00	90.950	324.950	7867.87	1877.59	1633.11	-941.14	1757476.86	436574.18	39°41'43.6282"N	80°21'42.7493"W	1884.89	330.046	0.23	-0.11	0.20
9997.00	92.400	324.850	7865.12	1971.54	1709.99	-995.17	1757422.83	436651.05	39°41'44.3828"N	80°21'43.4499"W	1978.49	329.802	1.55	1.54	-0.11
10092.00	91.360	324.440	7862.00	2066.49	1787.42	-1050.11	1757367.90	436728.48	39°41'45.1428"N	80°21'44.1622"W	2073.07	329.566	1.18	-1.09	-0.43
10187.00	90.620	323.900	7860.36	2161.46	1864.43	-1105.71	1757312.30	436805.49	39°41'45.8986"N	80°21'44.8929"W	2167.65	329.330	0.96	-0.78	-0.57
10282.00	91.200	325.330	7858.85	2256.45	1941.87	-1160.71	1757257.30	436882.92	39°41'46.6587"N	80°21'45.5960"W	2262.33	329.132	1.62	0.61	1.51
10377.00	90.710	323.370	7857.27	2351.42	2019.05	-1216.07	1757201.94	436960.10	39°41'47.4162"N	80°21'46.3137"W	2356.99	328.940	2.13	-0.52	-2.06
10472.00	90.890	324.540	7855.94	2446.40	2095.86	-1271.97	1757146.05	437036.90	39°41'48.1699"N	80°21'47.0381"W	2451.63	328.747	1.25	0.19	1.23
10566.00	91.540	325.140	7853.95	2540.37	2172.69	-1326.08	1757091.94	437113.73	39°41'48.9241"N	80°21'47.7399"W	2545.40	328.603	0.94	0.69	0.64
10661.00	92.090	325.120	7850.94	2635.32	2250.59	-1380.37	1757037.65	437191.63	39°41'49.6888"N	80°21'48.4439"W	2640.19	328.478	0.58	0.58	-0.02
10756.00	90.800	324.770	7848.54	2730.29	2328.33	-1434.92	1756983.11	437269.36	39°41'50.4519"N	80°21'49.1512"W	2734.98	328.355	1.41	-1.36	-0.37
10851.00	91.790	323.990	7846.40	2825.26	2405.54	-1490.23	1756927.80	437346.56	39°41'51.2096"N	80°21'49.8683"W	2829.73	328.222	1.33	1.04	-0.82
10946.00	91.020	324.230	7844.07	2920.22	2482.48	-1545.90	1756872.13	437423.50	39°41'51.9647"N	80°21'50.5900"W	2924.47	328.088	0.85	-0.81	0.25
11041.00	91.880	324.960	7841.66	3015.19	2559.88	-1600.92	1756817.11	437500.90	39°41'52.7244"N	80°21'51.3034"W	3019.26	327.979	1.19	0.91	0.77
11135.00	92.710	325.270	7837.90	3109.11	2636.93	-1654.64	1756763.40	437577.94	39°41'53.4807"N	80°21'52.0000"W	3113.07	327.892	0.94	0.88	0.33
11230.00	92.090	325.200	7833.92	3204.02	2714.90	-1708.76	1756709.28	437655.91	39°41'54.2462"N	80°21'52.7020"W	3207.89	327.814	0.66	-0.65	-0.07
11325.00	90.710	324.070	7831.60	3298.99	2792.35	-1763.73	1756654.32	437733.35	39°41'55.0063"N	80°21'53.4147"W	3302.72	327.722	1.88	-1.45	-1.19
11420.00	90.770	323.350	7830.37	3393.96	2868.91	-1819.95	1756598.10	437809.91	39°41'55.7576"N	80°21'54.1434"W	3397.48	327.610	0.76	0.06	-0.76
11514.00	90.830	323.240	7829.06	3487.91	2944.27	-1876.13	1756541.92	437885.26	39°41'56.4969"N	80°21'54.8713"W	3491.21	327.494	0.13	0.06	-0.12
11609.00	91.420	324.810	7827.20	3582.87	3021.13	-1931.92	1756486.13	437962.12	39°41'57.2512"N	80°21'55.5945"W	3586.02	327.402	1.77	0.62	1.65
11704.00	91.450	324.280	7824.82	3677.84	3098.49	-1987.01	1756431.05	438039.47	39°41'58.0105"N	80°21'56.3088"W	3680.88	327.329	0.56	0.03	-0.56
11798.00	91.540	324.810	7822.36	3771.80	3175.03	-2041.52	1756376.54	438116.01	39°41'58.7618"N	80°21'57.0155"W	3774.74	327.259	0.57	0.10	0.56
11893.00	91.320	325.250	7819.99	3866.77	3252.86	-2095.95	1756322.12	438193.83	39°41'59.5257"N	80°21'57.7215"W	3869.64	327.205	0.52	-0.23	0.46
11987.00	91.360	324.870	7817.79	3960.75	3329.89	-2149.77	1756268.30	438270.86	39°42'0.2818"N	80°21'58.4195"W	3963.55	327.154	0.41	0.04	-0.40
12082.00	91.820	326.220	7815.16	4055.70	3408.19	-2203.50	1756214.58	438349.16	39°42'1.0505"N	80°21'59.1165"W	4058.47	327.116	1.50	0.48	1.42
12176.00	90.830	323.180	7812.98	4149.66	3484.88	-2257.80	1756160.28	438425.84	39°42'1.8032"N	80°21'59.8206"W	4152.35	327.061	3.40	-1.05	-3.23
12271.00	91.880	324.730	7810.74	4244.62	3561.67	-2313.68	1756104.40	438502.62	39°42'2.5568"N	80°22'0.5449"W	4247.18	326.992	1.97	1.11	1.63
12365.00	92.460	325.490	7807.18	4338.55	3638.72	-2367.41	1756050.68	438579.66	39°42'3.3131"N	80°22'1.2418"W	4341.07	326.951	1.02	0.62	0.81
12460.00	91.420	324.360	7803.96	4433.49	3716.42	-2421.97	1755996.12	438657.36	39°42'4.0757"N	80°22'1.9494"W	4435.95	326.908	1.62	-1.09	-1.19
12555.00	91.260	324.050	7801.74	4528.46	3793.45	-2477.51	1755940.58	438734.39	39°42'4.8317"N	80°22'2.6695"W	4530.82	326.851	0.37	-0.17	-0.33

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18D-HSM
Field	Monongalia	API	47-061-01947-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18D-HSM AWB
Slot	Slot D		

WELLPATH DATA (298 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]
12649.00	90.710	323.610	7800.13	4622.42	3869.32	-2532.98	1755885.11	438810.26	39°42'5.5763"N	80°22'3.3885"W	4624.68	326.790	0.75	-0.59	-0.47
12744.00	90.830	323.500	7798.85	4717.38	3945.74	-2589.41	1755828.68	438886.67	39°42'6.3260"N	80°22'4.1199"W	4719.52	326.725	0.17	0.13	-0.12
12838.00	91.260	324.330	7797.13	4811.35	4021.69	-2644.77	1755773.33	438962.61	39°42'7.0713"N	80°22'4.8374"W	4813.39	326.670	0.99	0.46	0.88
12932.00	91.170	327.120	7795.14	4905.31	4099.34	-2697.69	1755720.42	439040.26	39°42'7.8337"N	80°22'5.5241"W	4907.35	326.652	2.97	-0.10	2.97
13027.00	91.320	327.300	7793.08	5000.22	4179.18	-2749.12	1755668.98	439120.10	39°42'8.6178"N	80°22'6.1920"W	5002.33	326.663	0.25	0.16	0.19
13121.00	91.390	327.120	7790.85	5094.12	4258.18	-2800.02	1755618.09	439199.10	39°42'9.3937"N	80°22'6.8528"W	5096.29	326.673	0.21	0.07	-0.19
13216.00	91.690	327.820	7788.30	5189.00	4338.25	-2851.08	1755567.03	439279.16	39°42'10.1801"N	80°22'7.5160"W	5191.25	326.687	0.80	0.32	0.74
13310.00	91.510	327.320	7785.68	5282.87	4417.56	-2901.47	1755516.64	439358.46	39°42'10.9590"N	80°22'8.1705"W	5285.20	326.703	0.57	-0.19	-0.53
13405.00	91.510	327.530	7783.17	5377.75	4497.59	-2952.60	1755465.52	439438.48	39°42'11.7450"N	80°22'8.8346"W	5380.16	326.716	0.22	0.00	0.22
13500.00	90.680	326.580	7781.36	5472.67	4577.29	-3004.26	1755413.87	439518.19	39°42'12.5278"N	80°22'9.5053"W	5475.14	326.722	1.33	-0.87	-1.00
13594.00	89.880	325.000	7780.90	5566.66	4655.03	-3057.10	1755361.02	439595.91	39°42'13.2909"N	80°22'10.1910"W	5569.12	326.706	1.88	-0.85	-1.68
13689.00	91.140	326.580	7780.05	5661.64	4733.58	-3110.51	1755307.62	439674.46	39°42'14.0621"N	80°22'10.8840"W	5664.10	326.690	2.13	1.33	1.66
13783.00	91.360	325.710	7778.00	5755.60	4811.62	-3162.86	1755255.27	439752.50	39°42'14.8284"N	80°22'11.5634"W	5758.08	326.682	0.95	0.23	-0.93
13878.00	90.370	324.240	7776.57	5850.58	4889.41	-3217.38	1755200.76	439830.28	39°42'15.5919"N	80°22'12.2705"W	5853.02	326.654	1.87	-1.04	-1.55
13973.00	90.430	324.540	7775.90	5945.57	4966.64	-3272.89	1755145.45	439907.51	39°42'16.3498"N	80°22'12.9878"W	5947.94	326.618	0.32	0.06	0.32
14068.00	90.120	323.970	7775.45	6040.56	5043.74	-3328.19	1755089.95	439984.61	39°42'17.1065"N	80°22'13.7073"W	6042.86	326.581	0.68	-0.33	-0.60
14163.00	90.590	324.290	7774.86	6135.55	5120.73	-3383.85	1755034.29	440061.59	39°42'17.8619"N	80°22'14.4290"W	6137.78	326.543	0.60	0.49	0.34
14258.00	91.450	325.790	7773.17	6230.53	5198.57	-3438.28	1754979.87	440139.42	39°42'18.6260"N	80°22'15.1350"W	6232.72	326.520	1.82	0.91	1.58
14353.00	91.420	325.360	7770.79	6325.50	5276.91	-3491.97	1754926.18	440217.76	39°42'19.3950"N	80°22'15.8316"W	6327.68	326.506	0.45	-0.03	-0.45
14448.00	90.990	324.820	7768.79	6420.48	5354.79	-3546.32	1754871.83	440295.64	39°42'20.1595"N	80°22'16.5367"W	6422.63	326.485	0.73	-0.45	-0.57
14543.00	90.920	324.710	7767.21	6515.46	5432.38	-3601.12	1754817.04	440373.22	39°42'20.9210"N	80°22'17.2474"W	6517.58	326.460	0.14	-0.07	-0.12
14637.00	90.370	324.790	7766.15	6609.45	5509.14	-3655.37	1754762.79	440449.97	39°42'21.6744"N	80°22'17.9510"W	6611.53	326.435	0.59	-0.59	0.09
14732.00	91.290	325.970	7764.77	6704.44	5587.30	-3709.34	1754708.83	440526.14	39°42'22.4417"N	80°22'18.6511"W	6706.50	326.420	1.57	0.97	1.24
14827.00	90.710	325.160	7763.12	6799.42	5665.64	-3763.05	1754655.12	440606.47	39°42'23.2108"N	80°22'19.3480"W	6801.47	326.408	1.05	-0.61	-0.85
14922.00	90.520	325.360	7762.10	6894.41	5743.71	-3817.18	1754600.99	440684.53	39°42'23.9770"N	80°22'20.0503"W	6896.45	326.393	0.29	-0.20	0.21
15016.00	90.680	323.740	7761.11	6988.40	5820.27	-3871.69	1754546.48	440761.09	39°42'24.7285"N	80°22'20.7573"W	6990.39	326.368	1.73	0.17	-1.72
15111.00	89.410	324.120	7761.04	7083.38	5897.06	-3927.63	1754490.55	440837.87	39°42'25.4820"N	80°22'21.4824"W	7085.31	326.335	1.40	-1.34	0.40
15206.00	91.140	325.350	7760.58	7178.38	5974.62	-3982.47	1754435.71	440915.43	39°42'26.2432"N	80°22'22.1938"W	7180.26	326.314	2.23	1.82	1.29
15301.00	90.090	324.550	7759.56	7273.37	6052.39	-4037.03	1754381.16	440993.19	39°42'27.0065"N	80°22'22.9014"W	7275.23	326.296	1.39	-1.11	-0.84
15395.00	90.180	324.800	7759.34	7367.37	6129.08	-4091.38	1754326.81	441069.88	39°42'27.7592"N	80°22'23.6063"W	7369.19	326.275	0.28	0.10	0.27



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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18D-HSM
Field	Monongalia	API	47-061-01947-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18D-HSM AWB
Slot	Slot D		

WELLPATH DATA (298 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]
15490.00	90.220	324.820	7759.01	7462.37	6206.72	-4146.12	1754272.07	441147.51	39°42'28.5212"N	80°22'24.3165"W	7464.16	326.257	0.05	0.04	0.02
15584.00	90.060	324.160	7758.78	7556.36	6283.23	-4200.72	1754217.47	441224.02	39°42'29.2721"N	80°22'25.0245"W	7558.12	326.235	0.72	-0.17	-0.70
15679.00	89.910	324.450	7758.80	7651.35	6360.39	-4256.15	1754162.04	441301.17	39°42'30.0292"N	80°22'25.7433"W	7653.06	326.211	0.34	-0.16	0.31
15774.00	89.910	324.990	7758.95	7746.35	6437.94	-4311.02	1754107.18	441378.72	39°42'30.7904"N	80°22'26.4550"W	7748.03	326.193	0.57	0.00	0.57
15868.00	90.650	324.580	7758.49	7840.35	6514.73	-4365.23	1754052.88	441455.51	39°42'31.5441"N	80°22'27.1581"W	7842.00	326.176	0.90	0.79	-0.44
15963.00	90.370	324.910	7757.65	7935.34	6592.31	-4420.06	1753998.15	441533.08	39°42'32.3054"N	80°22'27.8693"W	7936.97	326.159	0.46	-0.29	0.35
16058.00	89.720	325.450	7757.57	8030.34	6670.30	-4474.30	1753943.91	441611.06	39°42'33.0710"N	80°22'28.5730"W	8031.95	326.147	0.89	-0.68	0.57
16152.00	89.630	325.170	7758.11	8124.34	6747.59	-4527.80	1753890.41	441688.35	39°42'33.8296"N	80°22'29.2671"W	8125.94	326.137	0.31	-0.10	-0.30
16247.00	90.000	324.750	7758.41	8219.34	6825.37	-4582.35	1753835.87	441766.12	39°42'34.5930"N	80°22'29.9747"W	8220.92	326.124	0.59	0.39	-0.44
16342.00	90.030	325.370	7758.39	8314.34	6903.24	-4636.75	1753781.47	441844.00	39°42'35.3574"N	80°22'30.6805"W	8315.90	326.112	0.65	0.03	0.65
16437.00	90.340	325.300	7758.08	8409.34	6981.38	-4690.79	1753727.44	441922.13	39°42'36.1244"N	80°22'31.3816"W	8410.89	326.103	0.33	0.33	-0.07
16531.00	90.000	324.820	7757.80	8503.34	7058.44	-4744.62	1753673.61	441999.18	39°42'36.8807"N	80°22'32.0800"W	8504.88	326.091	0.63	-0.36	-0.51
16626.00	90.650	325.790	7757.26	8598.33	7136.54	-4798.69	1753619.54	442077.28	39°42'37.6474"N	80°22'32.7816"W	8599.87	326.083	1.23	0.68	1.02
16721.00	90.030	325.360	7756.70	8693.32	7214.90	-4852.40	1753565.83	442155.63	39°42'38.4166"N	80°22'33.4785"W	8694.86	326.077	0.79	-0.65	-0.45
16815.00	89.570	324.510	7757.03	8787.32	7291.84	-4906.40	1753511.84	442232.57	39°42'39.1718"N	80°22'34.1791"W	8788.84	326.065	1.03	-0.49	-0.90
16910.00	89.510	324.870	7757.79	8882.32	7369.36	-4961.31	1753456.93	442310.08	39°42'39.9326"N	80°22'34.8913"W	8883.81	326.050	0.38	-0.06	0.38
17005.00	89.600	323.680	7758.53	8977.31	7446.48	-5016.78	1753401.47	442387.20	39°42'40.6894"N	80°22'35.6107"W	8978.76	326.031	1.26	0.09	-1.25
17100.00	90.680	324.790	7758.30	9072.29	7523.56	-5072.30	1753345.95	442464.28	39°42'41.4458"N	80°22'36.3307"W	9073.71	326.013	1.63	1.14	1.17
17194.00	90.280	325.500	7757.51	9166.29	7600.70	-5126.02	1753292.23	442541.41	39°42'42.2029"N	80°22'37.0276"W	9167.70	326.004	0.87	-0.43	0.76
17289.00	89.350	324.210	7757.82	9261.29	7678.37	-5180.70	1753237.55	442619.08	39°42'42.9652"N	80°22'37.7370"W	9262.67	325.992	1.67	-0.98	-1.36
17384.00	90.180	325.250	7758.20	9356.28	7755.93	-5235.56	1753182.70	442696.63	39°42'43.7264"N	80°22'38.4486"W	9357.65	325.979	1.40	0.87	1.09
17479.00	89.350	324.970	7758.59	9451.28	7833.86	-5289.90	1753128.36	442774.55	39°42'44.4913"N	80°22'39.1536"W	9452.63	325.970	0.92	-0.87	-0.29
17574.00	89.970	324.950	7759.16	9546.28	7911.64	-5344.44	1753073.82	442852.33	39°42'45.2546"N	80°22'39.8612"W	9547.62	325.960	0.65	0.65	-0.02
17668.00	89.540	324.500	7759.56	9640.27	7988.38	-5398.72	1753019.54	442929.06	39°42'46.0078"N	80°22'40.5654"W	9641.60	325.948	0.66	-0.46	-0.48
17763.00	89.570	323.950	7760.30	9735.26	8065.45	-5454.25	1752964.01	443006.13	39°42'46.7641"N	80°22'41.2856"W	9736.55	325.931	0.58	0.03	-0.58
17858.00	90.090	324.480	7760.58	9830.25	8142.51	-5509.81	1752908.46	443083.19	39°42'47.5203"N	80°22'42.0060"W	9831.51	325.915	0.78	0.55	0.56
17952.00	88.950	324.430	7761.37	9924.24	8218.99	-5564.45	1752853.82	443159.66	39°42'48.2709"N	80°22'42.7148"W	9925.47	325.901	1.21	-1.21	-0.05
18047.00	89.380	324.220	7762.75	10019.23	8296.16	-5619.85	1752798.43	443236.82	39°42'49.0281"N	80°22'43.4333"W	10020.43	325.886	0.50	0.45	-0.22
18142.00	89.050	324.230	7764.05	10114.21	8373.22	-5675.38	1752742.90	443313.89	39°42'49.7843"N	80°22'44.1535"W	10115.38	325.871	0.35	-0.35	0.01
18237.00	89.630	323.540	7765.15	10209.18	8449.96	-5731.37	1752686.92	443390.62	39°42'50.5373"N	80°22'44.8795"W	10210.31	325.852	0.95	0.61	-0.73

WDTN-18D-HSM
AWP Proj: 26505'



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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18D-HSM
Field	Monongalia	API	47-061-01947-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18D-HSM AWB
Slot	Slot D		

WELLPATH DATA (298 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]
18332.00	90.680	325.410	7764.89	10304.17	8527.28	-5786.57	1752631.72	443467.93	39°42'51.2960"N	80°22'45.5954"W	10305.28	325.839	2.26	1.11	1.97
18426.00	90.310	325.500	7764.08	10398.17	8604.70	-5839.87	1752578.43	443545.35	39°42'52.0560"N	80°22'46.2872"W	10399.27	325.836	0.41	-0.39	0.10
18521.00	90.060	325.590	7763.77	10493.16	8683.03	-5893.62	1752524.68	443623.68	39°42'52.8249"N	80°22'46.9847"W	10494.27	325.833	0.28	-0.26	0.09
18616.00	89.260	324.360	7764.34	10588.16	8760.82	-5948.14	1752470.16	443701.46	39°42'53.5884"N	80°22'47.6921"W	10589.26	325.826	1.54	-0.84	-1.29
18710.00	90.000	324.290	7764.94	10682.15	8837.18	-6002.95	1752415.35	443777.82	39°42'54.3377"N	80°22'48.4031"W	10683.22	325.812	0.79	0.79	-0.07
18805.00	89.540	324.090	7765.32	10777.14	8914.22	-6058.54	1752359.77	443854.85	39°42'55.0937"N	80°22'49.1240"W	10778.18	325.798	0.53	-0.48	-0.21
18900.00	90.340	323.870	7765.42	10872.12	8991.06	-6114.40	1752303.91	443931.68	39°42'55.8476"N	80°22'49.8484"W	10873.14	325.782	0.87	0.84	-0.23
18995.00	90.180	324.050	7764.99	10967.11	9067.88	-6170.30	1752248.02	444008.50	39°42'56.6013"N	80°22'50.5733"W	10968.09	325.766	0.25	-0.17	0.19
19089.00	90.490	324.530	7764.44	11061.10	9144.20	-6225.16	1752193.16	444084.82	39°42'57.3503"N	80°22'51.2849"W	11062.05	325.754	0.61	0.33	0.51
19184.00	90.710	324.180	7763.45	11156.09	9221.40	-6280.52	1752137.80	444162.01	39°42'58.1078"N	80°22'52.0029"W	11157.02	325.742	0.44	0.23	-0.37
19279.00	90.150	324.750	7762.74	11251.08	9298.70	-6335.73	1752082.59	444239.31	39°42'58.8664"N	80°22'52.7191"W	11251.99	325.731	0.84	-0.59	0.60
19373.00	90.650	326.040	7762.08	11345.07	9376.07	-6389.11	1752029.21	444316.67	39°42'59.6258"N	80°22'53.4119"W	11345.99	325.728	1.47	0.53	1.37
19468.00	90.550	325.220	7761.08	11440.06	9454.48	-6442.74	1751975.59	444395.07	39°43'0.3955"N	80°22'54.1080"W	11440.98	325.728	0.87	-0.11	-0.86
19563.00	90.830	324.970	7759.94	11535.05	9532.38	-6497.10	1751921.24	444472.97	39°43'1.1601"N	80°22'54.8133"W	11535.97	325.722	0.40	0.29	-0.26
19658.00	90.090	324.460	7759.18	11630.05	9609.92	-6551.97	1751866.36	444550.51	39°43'1.9211"N	80°22'55.5252"W	11630.95	325.714	0.95	-0.78	-0.54
19753.00	90.310	325.310	7758.85	11725.04	9687.63	-6606.62	1751811.72	444628.22	39°43'2.6838"N	80°22'56.2342"W	11725.94	325.707	0.92	0.23	0.89
19847.00	90.580	326.270	7758.12	11819.03	9765.37	-6659.46	1751758.88	444705.94	39°43'3.4468"N	80°22'56.9202"W	11819.93	325.708	1.06	0.29	1.02
19942.00	88.060	323.650	7759.24	11914.01	9843.13	-6714.00	1751704.35	444783.70	39°43'4.2100"N	80°22'57.6278"W	11914.90	325.702	3.83	-2.65	-2.76
20037.00	89.690	325.340	7761.11	12008.98	9920.45	-6769.15	1751649.20	444861.01	39°43'4.9688"N	80°22'58.3433"W	12009.86	325.693	2.47	1.72	1.78
20132.00	89.940	324.880	7761.42	12103.98	9998.37	-6823.49	1751594.86	444938.93	39°43'5.7336"N	80°22'59.0485"W	12104.85	325.688	0.55	0.26	-0.48
20226.00	89.780	326.180	7761.64	12197.97	10075.86	-6876.69	1751541.66	445016.42	39°43'6.4942"N	80°22'59.7390"W	12198.85	325.687	1.39	-0.17	1.38
20321.00	90.030	326.400	7761.80	12292.95	10154.89	-6929.42	1751488.94	445095.44	39°43'7.2701"N	80°23'0.4236"W	12293.84	325.691	0.35	0.26	0.23
20416.00	90.950	326.590	7760.99	12387.91	10234.10	-6981.86	1751436.51	445174.65	39°43'8.0478"N	80°23'1.1046"W	12388.83	325.698	0.99	0.97	0.20
20510.00	90.920	326.420	7759.46	12481.87	10312.48	-7033.72	1751384.64	445253.02	39°43'8.8173"N	80°23'1.7782"W	12482.81	325.704	0.18	-0.03	-0.18
20605.00	91.290	326.770	7757.62	12576.81	10391.77	-7086.02	1751332.35	445332.31	39°43'9.5958"N	80°23'2.4573"W	12577.78	325.710	0.54	0.39	0.37
20700.00	90.590	325.510	7756.07	12671.78	10470.65	-7138.94	1751279.43	445411.18	39°43'10.3702"N	80°23'3.1445"W	12672.76	325.714	1.52	-0.74	-1.33
20795.00	89.540	325.060	7755.96	12766.78	10548.73	-7193.04	1751225.34	445489.26	39°43'11.1366"N	80°23'3.8466"W	12767.76	325.710	1.20	-1.11	-0.47
20890.00	89.910	325.000	7756.41	12861.77	10626.58	-7247.49	1751170.89	445567.11	39°43'11.9006"N	80°23'4.5532"W	12862.75	325.705	0.39	0.39	-0.06
20984.00	90.990	325.500	7755.68	12955.77	10703.81	-7301.07	1751117.32	445644.33	39°43'12.6586"N	80°23'5.2485"W	12956.74	325.702	1.27	1.15	0.53
21079.00	90.650	325.960	7754.32	13050.75	10782.31	-7354.55	1751063.83	445722.83	39°43'13.4292"N	80°23'5.9429"W	13051.73	325.702	0.60	-0.36	0.48

Created: 11/13/2021
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Actual Wellpath Report

WDTN-18D-HSM AWP Proj: 26505'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18D-HSM
Field	Monogalia	API	47-061-01947-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18D-HSM AWB
Slot	Slot D		

WELLPATH DATA (298 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)
21174.00	90.680	326.360	7753.21	13145.72	10861.21	-7407.45	1751010.94	445801.72	39°43'14.2038"N	80°23'6.6297"W	13146.72	325.706	0.42	0.03	0.42
21268.00	89.910	325.940	7752.73	13239.70	10939.28	-7459.81	1750958.58	445879.78	39°43'14.9702"N	80°23'7.3096"W	13240.72	325.709	0.93	-0.82	-0.45
21363.00	89.780	323.370	7752.99	13334.69	11016.76	-7514.77	1750903.63	445957.26	39°43'15.7305"N	80°23'8.0226"W	13335.69	325.701	2.71	-0.14	-2.71
21458.00	90.250	324.690	7752.96	13429.68	11093.64	-7570.56	1750847.84	446034.14	39°43'16.4849"N	80°23'8.7463"W	13430.65	325.689	1.47	0.49	1.39
21533.00	89.910	324.680	7752.86	13504.68	11154.84	-7613.92	1750804.48	446095.34	39°43'17.0855"N	80°23'9.3089"W	13505.64	325.684	0.45	-0.45	-0.01
21647.00	89.570	325.570	7753.37	13618.67	11248.37	-7679.10	1750739.30	446188.85	39°43'18.0034"N	80°23'10.1548"W	13619.63	325.679	0.84	-0.30	0.78
21742.00	90.000	325.330	7753.73	13713.67	11326.61	-7732.98	1750685.43	446267.09	39°43'18.7714"N	80°23'10.8541"W	13714.63	325.678	0.52	0.45	-0.25
21837.00	89.970	324.680	7753.76	13808.67	11404.43	-7787.46	1750630.95	446344.91	39°43'19.5352"N	80°23'11.5612"W	13809.62	325.673	0.88	-0.03	-0.68
21932.00	90.620	324.280	7753.27	13903.66	11481.75	-7842.65	1750575.76	446422.23	39°43'20.2939"N	80°23'12.2772"W	13904.60	325.665	0.80	0.68	-0.42
22026.00	90.830	325.430	7752.08	13997.65	11558.61	-7896.76	1750521.66	446499.08	39°43'21.0481"N	80°23'12.9793"W	13998.58	325.659	1.24	0.22	1.22
22121.00	90.770	326.060	7750.75	14092.64	11637.12	-7950.23	1750468.20	446577.59	39°43'21.8188"N	80°23'13.6735"W	14093.57	325.660	0.67	-0.06	0.66
22216.00	89.820	324.580	7750.26	14187.63	11715.24	-8004.28	1750414.15	446655.70	39°43'22.5856"N	80°23'14.3750"W	14188.56	325.658	1.85	-1.00	-1.56
22311.00	90.710	325.250	7749.82	14282.63	11792.98	-8058.88	1750359.55	446733.43	39°43'23.3485"N	80°23'15.0836"W	14283.55	325.653	1.17	0.94	0.71
22406.00	90.550	325.550	7748.78	14377.62	11871.17	-8112.82	1750305.61	446811.62	39°43'24.1159"N	80°23'15.7838"W	14378.55	325.651	0.36	-0.17	0.32
22501.00	90.180	325.150	7748.17	14472.61	11949.32	-8166.84	1750251.60	446889.77	39°43'24.8830"N	80°23'16.4849"W	14473.54	325.649	0.57	-0.39	-0.42
22596.00	90.120	324.550	7747.92	14567.61	12027.00	-8221.53	1750196.91	446967.44	39°43'25.6453"N	80°23'17.1947"W	14568.53	325.644	0.63	-0.06	-0.63
22690.00	90.400	325.400	7747.50	14661.61	12103.97	-8275.48	1750142.96	447044.41	39°43'26.4007"N	80°23'17.8948"W	14662.53	325.640	0.95	0.30	0.90
22785.00	90.650	325.250	7746.63	14756.61	12182.10	-8329.52	1750088.92	447122.53	39°43'27.1675"N	80°23'18.5963"W	14757.52	325.638	0.31	0.26	-0.16
22880.00	90.460	324.850	7745.71	14851.60	12259.96	-8383.94	1750034.51	447200.39	39°43'27.9316"N	80°23'19.3026"W	14852.51	325.634	0.47	-0.20	-0.42
22975.00	90.000	325.310	7745.32	14946.60	12337.85	-8438.32	1749980.13	447278.28	39°43'28.6961"N	80°23'20.0084"W	14947.50	325.630	0.68	-0.48	0.48
23070.00	90.680	325.170	7744.76	15041.60	12415.90	-8492.48	1749925.97	447356.32	39°43'29.4621"N	80°23'20.7114"W	15042.50	325.628	0.73	0.72	-0.15
23164.00	90.250	325.150	7744.00	15135.59	12493.05	-8546.18	1749872.28	447433.46	39°43'30.2192"N	80°23'21.4084"W	15136.49	325.625	0.46	-0.46	-0.02
23259.00	90.000	325.490	7743.79	15230.59	12571.17	-8600.24	1749818.22	447511.58	39°43'30.9860"N	80°23'22.1100"W	15231.49	325.623	0.44	-0.26	0.36
23354.00	90.280	324.660	7743.56	15325.59	12649.06	-8654.62	1749763.84	447589.46	39°43'31.7504"N	80°23'22.8159"W	15326.49	325.620	0.92	0.29	-0.87
23448.00	90.650	325.670	7742.80	15419.59	12726.21	-8708.32	1749710.15	447666.61	39°43'32.5076"N	80°23'23.5128"W	15420.48	325.617	1.14	0.39	1.07
23543.00	90.650	326.090	7741.72	15514.57	12804.85	-8761.60	1749656.87	447745.25	39°43'33.2796"N	80°23'24.2047"W	15515.47	325.618	0.44	0.00	0.44
23638.00	90.310	325.180	7740.92	15609.56	12883.27	-8815.22	1749603.25	447823.66	39°43'34.0492"N	80°23'24.9009"W	15610.47	325.619	1.02	-0.36	-0.96
23732.00	90.650	324.670	7740.13	15703.55	12960.19	-8869.24	1749549.24	447900.58	39°43'34.8042"N	80°23'25.6019"W	15704.46	325.614	0.65	0.36	-0.54
23827.00	90.710	324.650	7739.01	15798.55	13037.68	-8924.18	1749494.30	447978.06	39°43'35.5646"N	80°23'26.3149"W	15799.44	325.609	0.07	0.06	-0.02
23922.00	90.860	325.530	7737.71	15893.54	13115.58	-8978.54	1749439.94	448055.95	39°43'36.3291"N	80°23'27.0205"W	15894.42	325.606	0.94	0.16	0.93



Actual Wellpath Report

WDTN-18D-HSM AWP Proj: 26505'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18D-HSM
Field	Monongalia	API	47-061-01947-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18D-HSM AWB
Slot	Slot D		

WELLPATH DATA (298 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]
24016.00	91.140	325.370	7736.07	15987.52	13192.99	-9031.85	1749386.64	448133.36	39°43'37.0888"N	80°23'27.7125"W	15988.41	325.605	0.34	0.30	-0.17
24111.00	90.860	324.820	7734.41	16082.50	13270.89	-9086.20	1749332.29	448211.25	39°43'37.8533"N	80°23'28.4180"W	16083.39	325.602	0.65	-0.29	-0.58
24206.00	90.220	324.890	7733.51	16177.50	13348.56	-9140.88	1749277.61	448288.92	39°43'38.6156"N	80°23'29.1277"W	16178.38	325.597	0.68	-0.67	0.07
24300.00	90.580	325.350	7732.86	16271.49	13425.67	-9194.64	1749223.86	448366.03	39°43'39.3724"N	80°23'29.8254"W	16272.37	325.595	0.62	0.38	0.49
24395.00	90.460	324.920	7731.99	16366.49	13503.62	-9248.94	1749169.56	448443.97	39°43'40.1373"N	80°23'30.5303"W	16367.36	325.592	0.47	-0.13	-0.45
24490.00	90.520	325.080	7731.18	16461.49	13581.44	-9303.43	1749115.08	448521.78	39°43'40.9010"N	80°23'31.2375"W	16462.35	325.588	0.18	0.06	0.17
24584.00	90.150	325.060	7730.63	16555.48	13658.50	-9357.25	1749061.26	448598.84	39°43'41.6573"N	80°23'31.9361"W	16556.35	325.586	0.39	-0.39	-0.02
24679.00	90.280	325.450	7730.27	16650.48	13736.56	-9411.39	1749007.12	448676.90	39°43'42.4234"N	80°23'32.6390"W	16651.35	325.584	0.43	0.14	0.41
24774.00	90.370	325.270	7729.74	16745.48	13814.72	-9465.39	1748953.12	448755.05	39°43'43.1905"N	80°23'33.3400"W	16746.34	325.582	0.21	0.09	-0.19
24869.00	90.550	325.270	7728.97	16840.48	13892.79	-9519.51	1748899.01	448833.12	39°43'43.9568"N	80°23'34.0425"W	16841.34	325.581	0.19	0.19	0.00
24964.00	90.920	324.740	7727.75	16935.47	13970.61	-9573.99	1748844.53	448910.93	39°43'44.7205"N	80°23'34.7497"W	16936.33	325.577	0.68	0.39	-0.56
25059.00	90.520	324.900	7726.56	17030.46	14048.25	-9628.72	1748789.81	448988.57	39°43'45.4824"N	80°23'35.4600"W	17031.31	325.573	0.45	-0.42	0.17
25154.00	91.020	324.750	7725.28	17125.45	14125.90	-9683.44	1748735.09	449066.21	39°43'46.2443"N	80°23'36.1702"W	17126.29	325.569	0.55	0.53	-0.16
25248.00	90.650	325.190	7723.91	17219.44	14202.86	-9737.39	1748681.14	449143.17	39°43'46.9996"N	80°23'36.8705"W	17220.28	325.566	0.61	-0.39	0.47
25343.00	90.520	324.900	7722.94	17314.43	14280.72	-9791.82	1748626.72	449221.02	39°43'47.7637"N	80°23'37.5770"W	17315.27	325.563	0.33	-0.14	-0.31
25438.00	90.680	325.090	7721.95	17409.43	14358.53	-9846.31	1748572.23	449298.83	39°43'48.5273"N	80°23'38.2843"W	17410.26	325.560	0.26	0.17	0.20
25532.00	90.580	325.390	7720.92	17503.42	14435.75	-9899.90	1748518.64	449376.04	39°43'49.2852"N	80°23'38.9800"W	17504.25	325.558	0.34	-0.11	0.32
25627.00	90.650	324.460	7719.90	17598.42	14513.49	-9954.49	1748464.06	449453.78	39°43'50.0481"N	80°23'39.6885"W	17599.24	325.555	0.98	0.07	-0.98
25722.00	90.460	324.980	7718.98	17693.41	14591.04	-10009.35	1748409.19	449531.33	39°43'50.8090"N	80°23'40.4006"W	17694.23	325.550	0.58	-0.20	0.55
25816.00	90.580	325.100	7718.12	17787.41	14668.07	-10063.21	1748355.34	449608.36	39°43'51.5650"N	80°23'41.0998"W	17788.22	325.547	0.18	0.13	0.13
25911.00	90.310	324.780	7717.39	17882.40	14745.83	-10117.78	1748300.77	449686.11	39°43'52.3281"N	80°23'41.8081"W	17883.21	325.544	0.44	-0.28	-0.34
26006.00	90.220	325.100	7716.95	17977.40	14823.60	-10172.35	1748246.20	449763.87	39°43'53.0912"N	80°23'42.5165"W	17978.20	325.541	0.35	-0.09	0.34
26101.00	90.400	325.360	7716.43	18072.40	14901.63	-10226.53	1748192.03	449841.90	39°43'53.8571"N	80°23'43.2198"W	18073.20	325.539	0.33	0.19	0.27
26195.00	90.400	325.130	7715.78	18166.40	14978.86	-10280.12	1748138.45	449919.12	39°43'54.6150"N	80°23'43.9155"W	18167.20	325.538	0.24	0.00	-0.24
26290.00	90.310	324.970	7715.19	18261.39	15056.73	-10334.54	1748084.03	449996.98	39°43'55.3791"N	80°23'44.6219"W	18262.19	325.535	0.19	-0.09	-0.17
26385.00	90.520	324.760	7714.50	18356.39	15134.41	-10389.21	1748029.36	450074.67	39°43'56.1415"N	80°23'45.3316"W	18357.18	325.532	0.31	0.22	-0.22
26479.00	90.490	325.510	7713.67	18450.39	15211.54	-10442.94	1747975.63	450151.79	39°43'56.8984"N	80°23'46.0291"W	18451.18	325.530	0.80	-0.03	0.80
26505.00	90.490	325.510	7713.45	18476.38	15232.97	-10457.66	1747960.91	450173.21	39°43'57.1087"N	80°23'46.2203"W	18477.17	325.530	0.00	0.00	0.00

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Actual Wellpath Report

WDTN-18D-HSM AWP Proj: 26505'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18D-HSM
Field	Monongalia	API	47-061-01947-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18D-HSM AWB
Slot	Slot D		

HOLE & CASING SECTIONS - Ref Wellbore: WDTN-18D-HSM AWB Ref Wellpath: WDTN-18D-HSM AWP Proj: 26505'									
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	-0.02
20in Conductor	28.00	69.00	41.00	28.00	69.00	0.00	0.00	0.01	-0.02
17.5in Open Hole	69.00	1123.00	1054.00	69.00	1122.98	0.01	-0.02	3.82	-3.63
13.375in Casing Surface	28.00	1123.00	1095.00	28.00	1122.98	0.00	0.00	3.82	-3.63
12.25in Open Hole	1123.00	2734.00	1611.00	1122.98	2733.52	3.82	-3.63	-11.58	23.26
9.625in Casing Intermediate	28.00	2734.00	2706.00	28.00	2733.52	0.00	0.00	-11.58	23.26
8.75in Open Hole	2734.00	6911.50	4177.50	2733.52	6871.44	-11.58	23.26	-275.31	380.49
8.5in Open Hole	6911.50	26505.00	19593.50	6871.44	7713.45	-275.31	380.49	15232.97	-10457.66
5.5in Casing Production	28.00	26505.00	26477.00	28.00	7713.45	0.00	0.00	15232.97	-10457.66

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
WDTN-18D-HSM BHL Rev-2	7734.00	15231.87	-10464.95	1747953.63	450172.12	39°43'57.0971"N	80°23'46.3134"W	point
WDTN-18D-HSM State Line	7848.00	11082.05	-7559.21	1750859.19	446022.55	39°43'16.3714"N	80°23'8.5996"W	point
WDTN-18D-HSM LP Rev-2	7849.00	317.04	-21.47	1758396.47	435258.19	39°41'30.7090"N	80°21'30.8239"W	point
WDTN-18 Marcellus North Lease Rev-2	8249.86	15874.78	-15249.13	1743169.73	450814.99	39°44'2.9745"N	80°24'47.6290"W	polygon
2D Polygon: dimensions not calculated								

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Actual Wellpath Report

WDTN-18D-HSM AWP Proj: 26505'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18D-HSM
Field	Monongalia	API	47-061-01947-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18D-HSM AWB
Slot	Slot D		

WELLPATH COMPOSITION - Ref Wellbore: WDTN-18D-HSM AWB Ref Wellpath: WDTN-18D-HSM AWP Proj: 26505'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1039.50	Gyrodata 2015 - GC+WR+CAS	01 Gyrodata MS Gyro <17-1/2"> (100'-1025')	WDTN-18D-HSM AWB	2/16/2024
1039.50	2695.50	OWSG MWD rev2 + HRGM	02 Tally MWD <12-1/4"> (1025')(1135'-2681')	WDTN-18D-HSM AWB	2/16/2024
2695.50	6846.50	OWSG MWD rev2 + HRGM	03 Tally MWD <8-3/4"> (2681')(2767'-6832')	WDTN-18D-HSM AWB	2/16/2024
6846.50	26505.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6846.5')(6897'-26479')	WDTN-18D-HSM AWB	2/16/2024

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WDTN-18D-HSM AWP Proj: 26505'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18D-HSM
Field	Monongalia	API	47-061-01947-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18D-HSM AWB
Slot	Slot D		

COMMENTS
<p>Wellpath general comments API: 47-061-01947-0000 BH Job #: 112148368 Rig: Precision 575 Duration: 2/20/2024-2/25/2024 Gyrodata MS Gyro <17-1/2"> (100'-1025') Tally MWD <12-1/4"> (1025')(1135'-2681') Tally MWD <8-3/4"> (2681')(2767'-6832') BH AT Curve <8-1/2"> (6846.5')(6897'-26479') Projected MD at TD: 26505'</p>

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