



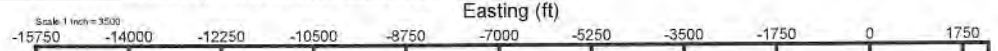
CNX GAS CO, LLC



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

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

Reference wellbore is WDTN-18A-HSM PWB Rev-C	Grid System: NAD83 / Lambert West Virginia SP, North Zone (7D), US feet
True vertical depths are referenced to Precision 275 (RKB)	North Reference: Grid north
Reference wellbore measured depths are referenced to Precision 275 (RKB)	Scale: True distance
Precision 275 (RKB) to Mean Sea Level: +2983.74ft	Curves are in feet referenced to SdL
Mean Sea Level to Slot A: -1198.91ft	Depth units in feet
Other wellbore MDs are referenced to mean sea level MD datum	Created by: addison on 2/26/2024, Database: WDTN-18A-HSM PWB



Design Comment	MD (ft)	Inc (°)	A4 (ft)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (%100%)	VS (ft)
Top Cn	6299.58	35.180	226.540	5884.10	-1095.17	-1091.67	1.81	-279.85
Proj. to Bottom	8366.50	35.180	226.540	5920.86	-1111.72	-1093.89	0.00	-285.53
Adj. to Ad	6479.08	34.460	220.759	6013.30	-1158.16	-1134.24	3.00	-298.14
Curve KOP	7917.31	34.480	220.759	1195.85	-1774.84	-1665.77	0.00	-498.42
Landing Pt.	9160.80	91.719	325.000	7821.00	-1445.14	-2462.37	8.00	226.87
1228' VS	9160.88	91.718	325.000	7841.00	-426.45	-3035.62	0.00	1228.00
End of Drop	10250.73	90.819	325.000	7638.01	-552.71	-3087.26	1.00	1318.03
2228' VS	11160.80	90.818	325.000	7626.00	182.70	-3605.20	0.00	2228.00
End of Drop	11185.79	90.570	325.000	7625.70	213.69	-3623.48	1.00	2252.90
3228' VS	12160.85	90.570	325.000	7518.00	1011.85	-4182.77	0.00	3228.00
End of Build	12190.23	90.684	325.000	7515.63	1025.92	-4199.63	1.00	3257.35
4228' VS	13160.96	90.864	325.000	7601.00	1831.00	-4756.35	0.00	4228.00
End of Drop	13190.47	90.589	325.000	7600.83	1855.17	-4773.28	1.00	4257.51
5228' VS	14161.01	90.569	325.000	7791.00	2650.15	-5329.93	0.00	5228.00
End of Build	14220.50	91.193	325.000	7790.10	2998.88	-5384.04	1.00	5287.48
6228' VS	15161.21	91.163	325.000	7771.00	3469.21	-5903.50	0.00	6228.00
End of Drop	15222.12	90.554	325.000	7770.89	3519.19	-5938.43	1.00	6288.90
7228' VS	16161.26	90.554	325.000	7751.00	4288.46	-6477.08	0.00	7228.00
End of Drop	16249.22	89.675	325.000	7760.82	4360.51	-6527.53	1.00	7315.05
8228' VS	17161.28	89.675	325.000	7785.00	5107.61	-7050.66	0.00	8228.00
Hold	18020.09	89.675	325.000	7770.91	5216.08	-7246.69	0.00	8092.79
End of Build	18058.59	90.000	325.000	7771.00	5542.64	-7565.33	1.00	9125.30
12288' VS	21181.29	90.000	325.000	7771.00	8344.22	-9244.66	0.00	12288.00
End of Build	21218.43	90.581	325.000	7770.71	8431.84	-9378.31	1.00	12268.14
14228' VS	23161.39	90.581	325.000	7751.00	10222.52	-10492.12	0.00	14228.00
End of Drop	23162.24	90.573	325.000	7750.89	10223.22	-10492.60	1.00	14226.85
16228' VS	25161.49	90.573	325.000	7771.00	11660.83	-11630.27	0.00	16228.00
End of Build	25175.87	90.717	325.000	7720.84	11872.80	-11647.51	1.00	16242.37
18228' VS	27161.85	90.717	325.000	7706.00	13299.13	-12788.42	0.00	18228.00
End of Drop	27212.74	90.205	325.000	7705.59	13340.98	-12815.73	1.00	18279.09
BIT	28883.04	90.205	328.000	7696.00	15576.85	-14347.33	0.00	20949.37

API: 47-061-01944-0000
BH Job #: 112148375
Rig: Precision 575
Duration: 3/20/2024-3/27/2024



Gyrodatta MS Gyro <17-1/2"> (113.5°-1035.5') : 0.33° Inc. 128.00ft MD, 128.00ft TVD, 0.28ft VS

Tally MWD <12-1/4"> (1035.5°)(1136°-2688') : 0.52° Inc. 1150.50ft MD, 1150.49ft TVD, 2.41ft VS

Tally MWD <8-3/4"> (2688°)(2754°-6285') : 0.97° Inc. 2768.50ft MD, 2768.02ft TVD, 36.50ft VS

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°21'31.2009"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot A	553.28	42.06	1758401.240	434882.510	39°41'27.8849"N 80°21'30.7292"W
Precision 575 (RKB) to Mud line (At Slot: Slot A)	28ft				
Mean Sea Level to Mud line (At Slot: Slot A)	-1198.91ft				
Precision 575 (RKB) to Mean Sea Level	1228.91ft				

BH AT Curve <8-1/2"> (6299.5°)(6342°-29846') : 34.49° Inc. 6342.00ft MD, 5900.98ft TVD, -283.37ft VS

Well Data			
Slot	Well	Wellbore	Wellpath
Slot A	WDTN-18A-HSM	WDTN-18A-HSM AWB	WDTN-18A-HSM AWP Proj. 29871'
Slot A	WDTN-18A-HSM	WDTN-18A-HSM PWB	WDTN-18A-HSM PWB Rev-C.0

Curve KOP @ 7904' MD : 34.99° Inc. 7904.00ft MD, 7187.19ft TVD, -496.85ft VS

Landing Pt. @ 9042' MD : 88.46° Inc. 9042.00ft MD, 7844.11ft TVD, 123.17ft VS

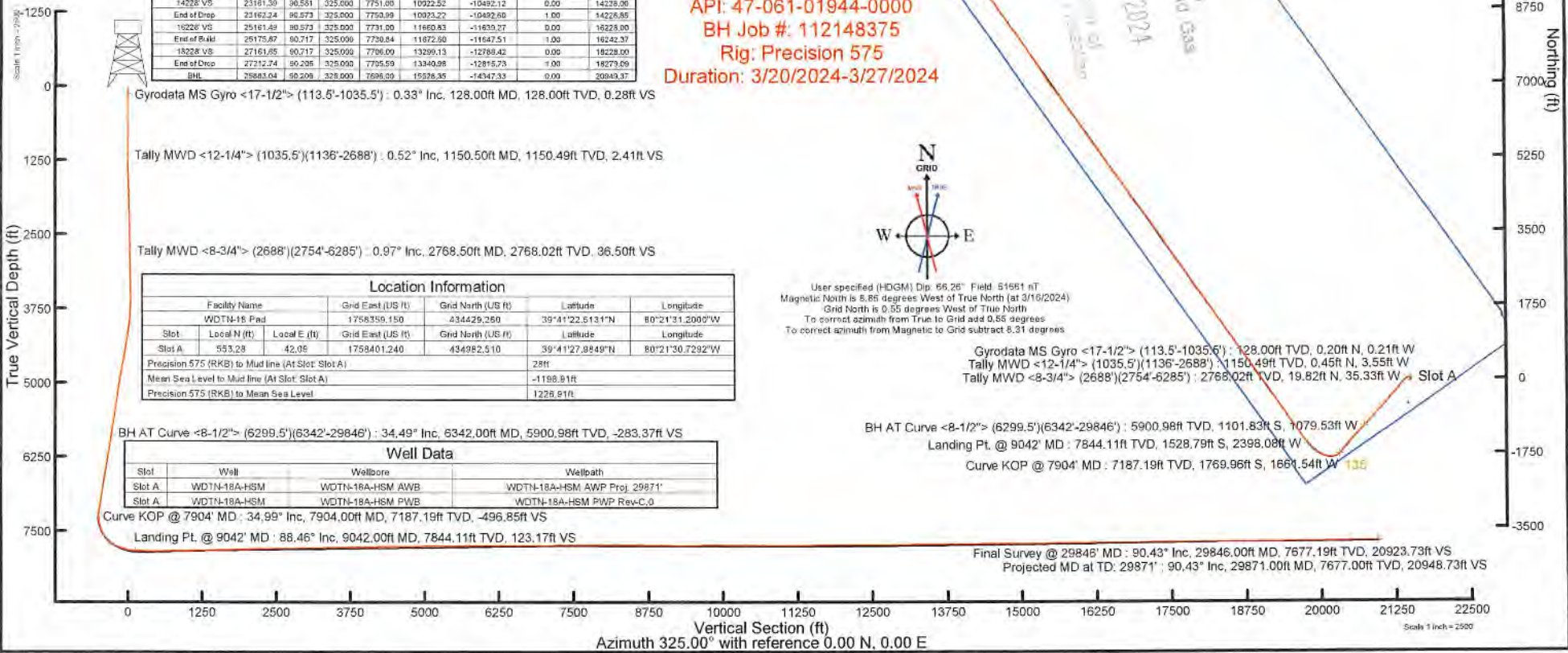


User specified (HDGM) Dip: 66.26° Field: 51681 nT
Magnetic North is 8.88 degrees West of True North (at 3/16/2024)
Grid North is 0.55 degrees West of True North
To correct azimuth from True to Grid add 0.55 degrees
To correct azimuth from Magnetic to Grid subtract 8.31 degrees

Gyrodatta MS Gyro <17-1/2"> (113.5°-1035.5') : 128.00ft TVD, 0.20ft N, 0.21ft W
Tally MWD <12-1/4"> (1035.5°)(1136°-2688') : 1150.49ft TVD, 0.45ft N, 3.55ft W
Tally MWD <8-3/4"> (2688°)(2754°-6285') : 2768.02ft TVD, 19.82ft N, 35.33ft W Slot A

BH AT Curve <8-1/2"> (6299.5°)(6342°-29846') : 5900.98ft TVD, 1101.83ft S, 1079.53ft W
Landing Pt. @ 9042' MD : 7844.11ft TVD, 1528.79ft S, 2398.08ft W
Curve KOP @ 7904' MD : 7187.19ft TVD, 1769.96ft S, 1661.54ft W 135

Final Survey @ 29846' MD : 90.43° Inc. 29846.00ft MD, 7677.19ft TVD, 20923.73ft VS
Projected MD at TD: 29871' : 90.43° Inc. 29871.00ft MD, 7677.00ft TVD, 20948.73ft VS



Vertical Section (ft)
Azimuth 325.00° with reference 0.00 N, 0.00 E



Actual Wellpath Report

WDTN-18A-HSM AWP Proj: 29871'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18A-HSM
Field	Monongalia	API	47-061-01944-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18A-HSM AWB
Slot	Slot A		

REPORT SETUP INFORMATION			
Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999941	Report Generated	3/29/2024 at 2:31:26 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	553.28	42.09	1758401.24	434982.51	39°41'27.9849"N	80°21'30.7292"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	1226.91ft
Horizontal Reference Pt	Slot	Precision 575 (RKB) to Mean Sea Level	1226.91ft
Vertical Reference Pt	Precision 575 (RKB)	Precision 575 (RKB) to Mud Line at Slot (Slot A)	28.00ft
MD Reference Pt	Precision 575 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	325.00°

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Actual Wellpath Report

WDTN-18A-HSM AWP Proj: 29871'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18A-HSM
Field	Monongalia	API	47-061-01944-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18A-HSM AWB
Slot	Slot A		

WELLPATH DATA (323 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	314.500	0.00	0.00	0.00	0.00	1758401.24	434982.51	39°41'27.9849"N	80°21'30.7292"W	0.00	0.000	0.00	0.00	0.00	
28.00	0.000	314.500	28.00	0.00	0.00	0.00	1758401.24	434982.51	39°41'27.9849"N	80°21'30.7292"W	0.00	0.000	0.00	0.00	0.00	
128.00	0.330	314.500	128.00	0.28	0.20	-0.21	1758401.03	434982.71	39°41'27.9869"N	80°21'30.7319"W	0.29	314.500	0.33	0.33	0.00	
228.00	0.030	41.730	228.00	0.57	0.42	-0.39	1758400.85	434982.93	39°41'27.9890"N	80°21'30.7343"W	0.58	317.094	0.33	-0.30	87.23	
328.00	0.170	237.550	328.00	0.58	0.36	-0.50	1758400.74	434982.87	39°41'27.9884"N	80°21'30.7357"W	0.62	305.930	0.20	0.14	-164.18	
428.00	0.320	239.080	428.00	0.61	0.14	-0.87	1758400.37	434982.65	39°41'27.9862"N	80°21'30.7403"W	0.88	279.189	0.15	0.15	1.53	
528.00	0.160	252.370	528.00	0.67	-0.05	-1.24	1758400.00	434982.46	39°41'27.9843"N	80°21'30.7451"W	1.24	267.887	0.17	-0.16	13.29	
628.00	0.250	191.490	628.00	0.56	-0.30	-1.42	1758399.83	434982.21	39°41'27.9818"N	80°21'30.7473"W	1.45	257.961	0.22	0.09	-60.88	
728.00	0.120	271.230	728.00	0.48	-0.51	-1.56	1758399.68	434982.00	39°41'27.9797"N	80°21'30.7492"W	1.65	251.821	0.26	-0.13	-79.74	
828.00	0.180	286.210	828.00	0.66	-0.47	-1.82	1758399.42	434982.04	39°41'27.9801"N	80°21'30.7524"W	1.88	255.592	0.07	0.06	14.98	
928.00	0.290	315.750	927.99	1.03	-0.24	-2.15	1758399.09	434982.27	39°41'27.9823"N	80°21'30.7567"W	2.16	263.564	0.16	0.11	29.54	
1028.00	0.410	295.270	1027.99	1.59	0.09	-2.65	1758398.59	434982.60	39°41'27.9856"N	80°21'30.7631"W	2.65	271.989	0.17	0.12	-20.48	
1050.00	0.410	293.710	1049.99	1.73	0.16	-2.79	1758398.45	434982.67	39°41'27.9862"N	80°21'30.7649"W	2.79	273.225	0.05	0.00	-7.09	
1150.50	0.520	289.630	1150.49	2.41	0.45	-3.55	1758397.69	434982.96	39°41'27.9891"N	80°21'30.7747"W	3.58	277.306	0.11	0.11	-4.06	
1239.50	0.540	296.310	1239.49	3.11	0.78	-4.30	1758396.94	434983.29	39°41'27.9922"N	80°21'30.7844"W	4.37	280.226	0.07	0.02	7.51	
1325.50	1.320	313.700	1325.47	4.43	1.64	-5.38	1758395.86	434984.15	39°41'28.0006"N	80°21'30.7983"W	5.63	286.946	0.95	0.91	20.22	
1413.50	1.620	309.680	1413.44	6.63	3.14	-7.07	1758394.17	434985.64	39°41'28.0152"N	80°21'30.8201"W	7.74	293.901	0.36	0.34	-4.57	
1501.50	1.660	308.590	1501.41	9.05	4.72	-9.03	1758392.21	434987.23	39°41'28.0307"N	80°21'30.8453"W	10.19	297.623	0.06	0.05	-1.24	
1588.50	1.700	311.470	1588.37	11.51	6.36	-10.98	1758390.26	434988.87	39°41'28.0468"N	80°21'30.8705"W	12.69	300.100	0.11	0.05	3.31	
1675.50	1.920	310.940	1675.33	14.18	8.17	-13.05	1758388.19	434990.68	39°41'28.0645"N	80°21'30.8971"W	15.40	302.068	0.25	0.25	-0.61	
1763.50	1.770	308.790	1763.28	16.92	9.99	-15.22	1758386.02	434992.50	39°41'28.0822"N	80°21'30.9251"W	18.21	303.284	0.19	-0.17	-2.44	
1851.50	1.550	301.490	1851.24	19.31	11.46	-17.29	1758383.95	434993.97	39°41'28.0966"N	80°21'30.9519"W	20.75	303.541	0.35	-0.25	-8.30	
1938.50	1.540	301.480	1938.21	21.46	12.69	-19.30	1758381.95	434995.20	39°41'28.1085"N	80°21'30.9776"W	23.09	303.332	0.01	-0.01	-0.01	
2026.50	1.530	291.520	2026.18	23.53	13.74	-21.40	1758379.84	434996.25	39°41'28.1186"N	80°21'31.0046"W	25.43	302.704	0.30	-0.01	-11.32	
2114.50	1.350	293.600	2114.15	25.39	14.58	-23.44	1758377.80	434997.09	39°41'28.1268"N	80°21'31.0308"W	27.61	301.891	0.21	-0.20	2.36	
2202.50	1.300	295.190	2202.13	27.14	15.42	-25.29	1758375.95	434997.93	39°41'28.1349"N	80°21'31.0546"W	29.62	301.376	0.07	-0.06	1.81	
2290.50	1.140	289.820	2290.11	28.72	16.15	-27.02	1758374.22	434998.66	39°41'28.1419"N	80°21'31.0768"W	31.48	300.861	0.22	-0.18	-6.10	
2378.50	1.090	289.610	2378.09	30.12	16.72	-28.63	1758372.61	434999.23	39°41'28.1475"N	80°21'31.0975"W	33.16	300.289	0.06	-0.06	-0.24	
2466.50	1.150	293.080	2466.08	31.55	17.35	-30.23	1758371.01	434999.86	39°41'28.1535"N	80°21'31.1181"W	34.86	299.852	0.10	0.07	3.94	
2554.50	1.010	300.020	2554.06	33.01	18.09	-31.72	1758369.53	435000.59	39°41'28.1606"N	80°21'31.1371"W	36.51	299.692	0.22	-0.16	7.89	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18A-HSM
Field	Monongalia	API	47-061-01944-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18A-HSM AWB
Slot	Slot A		

WELLPATH DATA (323 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	1.090	297.760	2642.05	34.45	18.86	-33.13	1758368.11	435001.37	39°41'28.1682"N	80°21'31.1553"W	38.12	299.657	0.10	0.09	-2.57
2702.50	1.160	293.060	2702.04	35.48	19.37	-34.19	1758367.05	435001.88	39°41'28.1731"N	80°21'31.1690"W	39.30	299.527	0.19	0.12	-7.83
2768.50	0.970	290.270	2768.02	36.50	19.82	-35.33	1758365.91	435002.33	39°41'28.1775"N	80°21'31.1836"W	40.51	299.294	0.30	-0.29	-4.23
2856.50	0.930	292.740	2856.01	37.72	20.36	-36.69	1758364.55	435002.86	39°41'28.1826"N	80°21'31.2010"W	41.96	299.023	0.07	-0.05	2.81
2945.50	0.990	298.400	2945.00	39.02	21.00	-38.03	1758363.21	435003.51	39°41'28.1888"N	80°21'31.2183"W	43.44	298.908	0.13	0.07	6.36
3023.50	4.280	242.010	3022.91	39.97	19.95	-41.19	1758360.05	435002.46	39°41'28.1782"N	80°21'31.2586"W	45.77	295.846	4.90	4.22	-72.29
3109.50	7.310	246.890	3108.46	41.49	16.30	-49.06	1758352.18	434998.81	39°41'28.1414"N	80°21'31.3588"W	51.70	288.379	3.57	3.52	5.67
3196.50	7.250	245.580	3194.76	43.64	11.86	-59.15	1758342.09	434994.37	39°41'28.0965"N	80°21'31.4873"W	60.33	281.336	0.20	-0.07	-1.51
3285.50	6.920	246.000	3283.08	45.70	7.36	-69.16	1758332.08	434989.87	39°41'28.0511"N	80°21'31.6148"W	69.55	276.071	0.38	-0.37	0.47
3371.50	8.430	236.810	3368.31	46.88	1.80	-79.17	1758322.07	434984.31	39°41'27.9952"N	80°21'31.7422"W	79.19	271.301	2.26	1.76	-10.69
3459.50	9.890	235.980	3455.19	47.22	-5.96	-90.84	1758310.41	434976.55	39°41'27.9174"N	80°21'31.8904"W	91.03	266.245	1.67	1.66	-0.94
3547.50	11.980	235.120	3541.59	47.37	-15.41	-104.59	1758296.65	434967.10	39°41'27.8227"N	80°21'32.0652"W	105.72	261.616	2.38	2.37	-0.98
3636.50	14.090	230.300	3628.29	46.50	-27.62	-120.51	1758280.74	434954.89	39°41'27.7006"N	80°21'32.2673"W	123.63	257.092	2.67	2.37	-5.42
3723.50	16.190	229.330	3712.27	44.43	-42.29	-137.86	1758263.39	434940.22	39°41'27.5540"N	80°21'32.4874"W	144.20	252.946	2.43	2.41	-1.11
3809.50	18.600	229.250	3794.33	41.87	-59.06	-157.34	1758243.91	434923.46	39°41'27.3864"N	80°21'32.7346"W	168.06	249.427	2.80	2.80	-0.09
3897.50	21.920	223.570	3876.88	37.21	-80.13	-179.31	1758221.95	434902.39	39°41'27.1761"N	80°21'33.0130"W	196.39	245.921	4.38	3.77	-6.45
3983.50	23.960	223.220	3956.07	30.46	-104.49	-202.33	1758198.92	434878.03	39°41'26.9332"N	80°21'33.3045"W	227.72	242.688	2.38	2.37	-0.41
4071.50	26.470	218.950	4035.69	21.39	-132.77	-226.90	1758174.35	434849.75	39°41'26.6514"N	80°21'33.6153"W	262.89	239.667	3.52	2.85	-4.85
4159.50	27.970	218.390	4113.94	10.07	-164.19	-252.05	1758149.21	434818.33	39°41'26.3384"N	80°21'33.9331"W	300.81	236.918	1.73	1.70	-0.64
4247.50	30.750	219.570	4190.63	-1.82	-197.72	-279.20	1758122.06	434784.80	39°41'26.0045"N	80°21'34.2763"W	342.12	234.695	3.23	3.16	1.34
4336.50	32.770	219.580	4266.30	-14.28	-233.82	-309.04	1758092.22	434748.70	39°41'25.6449"N	80°21'34.6537"W	387.53	232.888	2.27	2.27	0.01
4424.50	33.400	220.420	4340.03	-26.71	-270.62	-339.92	1758061.34	434711.91	39°41'25.2783"N	80°21'35.0441"W	434.49	231.476	0.89	0.72	0.95
4512.50	35.750	220.790	4412.49	-39.12	-308.53	-372.43	1758028.84	434674.00	39°41'24.9006"N	80°21'35.4553"W	483.62	230.361	2.68	2.67	0.42
4598.50	35.330	220.170	4482.47	-51.65	-346.55	-404.88	1757996.39	434635.98	39°41'24.5218"N	80°21'35.8657"W	532.94	229.438	0.64	-0.49	-0.72
4686.50	34.820	218.440	4554.49	-65.32	-385.67	-436.91	1757964.35	434596.86	39°41'24.1321"N	80°21'36.2707"W	582.78	228.564	1.27	-0.58	-1.97
4774.50	34.930	219.010	4626.68	-79.42	-424.93	-468.39	1757932.88	434557.61	39°41'23.7412"N	80°21'36.6685"W	632.42	227.785	0.39	0.13	0.65
4862.50	35.910	220.660	4698.40	-92.76	-464.08	-501.06	1757900.21	434518.45	39°41'23.3512"N	80°21'37.0816"W	682.96	227.194	1.56	1.11	1.87
4951.50	35.350	220.150	4770.73	-105.82	-503.56	-534.67	1757866.60	434478.98	39°41'22.9578"N	80°21'37.5067"W	734.47	226.716	0.71	-0.63	-0.57
5039.50	36.640	220.620	4841.93	-118.87	-542.95	-568.18	1757833.09	434439.59	39°41'22.5654"N	80°21'37.9305"W	785.89	226.301	1.50	1.47	0.53
5126.50	37.330	222.620	4911.43	-130.97	-582.07	-602.95	1757798.33	434400.47	39°41'22.1755"N	80°21'38.3704"W	838.06	226.009	1.59	0.79	2.30

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18A-HSM
Field	Monongalia	API	47-061-01944-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18A-HSM AWB
Slot	Slot A		

WELLPATH DATA (323 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]
5204.50	37.030	222.570	4973.57	-141.10	-616.77	-634.85	1757766.43	434365.78	39°41'21.8296"N	80°21'38.7742"W	885.12	225.828	0.39	-0.38	-0.06
5290.50	36.010	221.930	5042.69	-152.39	-654.65	-669.26	1757732.02	434327.90	39°41'21.4519"N	80°21'39.2097"W	936.21	225.632	1.27	-1.19	-0.74
5377.50	34.820	221.200	5113.59	-164.10	-692.37	-702.71	1757698.57	434290.18	39°41'21.0760"N	80°21'39.6330"W	986.50	225.425	1.45	-1.37	-0.84
5464.50	33.860	222.510	5185.43	-175.26	-728.93	-735.45	1757665.83	434253.63	39°41'20.7117"N	80°21'40.0472"W	1035.58	225.255	1.39	-1.10	1.51
5551.50	34.080	224.580	5257.58	-184.91	-764.16	-768.94	1757632.35	434218.40	39°41'20.3603"N	80°21'40.4713"W	1084.07	225.179	1.35	0.25	2.38
5639.50	34.290	223.590	5330.38	-194.28	-799.67	-803.34	1757597.95	434182.89	39°41'20.0061"N	80°21'40.9069"W	1133.50	225.131	0.68	0.24	-1.13
5728.50	35.520	223.690	5403.36	-204.31	-836.53	-838.49	1757562.81	434146.04	39°41'19.6385"N	80°21'41.3519"W	1184.41	225.067	1.38	1.38	0.11
5816.50	36.300	221.680	5474.64	-215.32	-874.47	-873.47	1757527.83	434108.10	39°41'19.2603"N	80°21'41.7947"W	1235.98	224.967	1.61	0.89	-2.28
5904.50	37.470	221.740	5545.03	-227.46	-913.90	-908.61	1757492.69	434068.67	39°41'18.8673"N	80°21'42.2394"W	1288.71	224.834	1.33	1.33	0.07
5991.50	37.110	221.730	5614.24	-239.56	-953.23	-943.70	1757457.60	434029.34	39°41'18.4752"N	80°21'42.6833"W	1341.35	224.712	0.41	-0.41	-0.01
6079.50	35.040	219.440	5685.37	-252.43	-992.56	-977.42	1757423.88	433990.01	39°41'18.0834"N	80°21'43.1099"W	1393.03	224.560	2.81	-2.35	-2.60
6167.50	34.210	220.620	5757.78	-265.35	-1030.85	-1009.58	1757391.73	433951.73	39°41'17.7019"N	80°21'43.5164"W	1442.87	224.403	1.21	-0.94	1.34
6254.50	35.190	225.130	5829.32	-275.72	-1067.10	-1043.27	1757358.03	433915.47	39°41'17.3404"N	80°21'43.9430"W	1492.35	224.353	3.16	1.13	5.18
6299.50	35.180	226.540	5866.10	-279.85	-1085.17	-1061.87	1757339.43	433897.41	39°41'17.1601"N	80°21'44.1787"W	1518.27	224.378	1.81	-0.02	3.13
6342.00	34.490	226.790	5900.98	-283.37	-1101.83	-1079.53	1757321.78	433880.75	39°41'16.9938"N	80°21'44.4025"W	1542.53	224.414	1.66	-1.62	0.59
6388.00	34.620	223.680	5938.87	-287.80	-1120.20	-1098.05	1757303.26	433862.38	39°41'16.8105"N	80°21'44.6371"W	1568.61	224.428	3.84	0.28	-6.76
6483.00	34.570	219.420	6017.08	-300.34	-1160.54	-1133.80	1757267.50	433822.04	39°41'16.4084"N	80°21'45.0895"W	1622.46	224.332	2.55	-0.05	-4.48
6578.00	34.440	220.510	6095.37	-314.30	-1201.79	-1168.37	1757232.94	433780.80	39°41'15.9975"N	80°21'45.5265"W	1676.12	224.192	0.66	-0.14	1.15
6673.00	34.470	220.670	6173.70	-327.67	-1242.60	-1203.34	1757197.97	433739.99	39°41'15.5909"N	80°21'45.9688"W	1729.76	224.080	0.10	0.03	0.17
6767.00	34.510	220.480	6251.18	-340.93	-1283.03	-1237.95	1757163.35	433699.56	39°41'15.1880"N	80°21'46.4067"W	1782.89	223.976	0.12	0.04	-0.20
6862.00	34.350	220.270	6329.54	-354.49	-1323.95	-1272.76	1757128.56	433658.64	39°41'14.7803"N	80°21'46.8467"W	1836.50	223.871	0.21	-0.17	-0.22
6957.00	34.430	220.550	6407.93	-368.01	-1364.81	-1307.54	1757093.78	433617.79	39°41'14.3733"N	80°21'47.2866"W	1890.07	223.772	0.19	0.08	0.29
7052.00	34.560	220.240	6486.23	-381.58	-1405.78	-1342.41	1757058.92	433576.81	39°41'13.9650"N	80°21'47.7275"W	1943.78	223.679	0.23	0.14	-0.33
7146.00	34.130	220.250	6563.84	-395.08	-1446.26	-1376.67	1757024.66	433536.34	39°41'13.5617"N	80°21'48.1607"W	1996.72	223.588	0.46	-0.46	0.01
7241.00	34.100	219.420	6642.50	-409.02	-1487.17	-1410.80	1756990.53	433495.43	39°41'13.1542"N	80°21'48.5923"W	2049.89	223.490	0.49	-0.03	-0.87
7336.00	34.520	220.160	6720.97	-423.07	-1528.32	-1445.07	1756956.26	433454.28	39°41'12.7443"N	80°21'49.0255"W	2103.33	223.396	0.62	0.44	0.78
7431.00	35.070	222.370	6798.98	-435.93	-1569.06	-1480.82	1756920.51	433413.55	39°41'12.3383"N	80°21'49.4779"W	2157.49	223.343	1.45	0.58	2.33
7526.00	34.670	222.180	6876.92	-447.89	-1609.24	-1517.36	1756883.97	433373.36	39°41'11.9377"N	80°21'49.9402"W	2211.80	223.317	0.44	-0.42	-0.20
7621.00	34.750	221.840	6955.02	-460.05	-1649.44	-1553.56	1756847.77	433333.17	39°41'11.5370"N	80°21'50.3983"W	2265.88	223.285	0.22	0.08	-0.36
7715.00	34.900	221.880	7032.18	-472.26	-1689.42	-1589.38	1756811.95	433293.20	39°41'11.1385"N	80°21'50.8516"W	2319.54	223.253	0.16	0.16	0.04

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18A-HSM
Field	Monongalia	API	47-061-01944-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18A-HSM AWB
Slot	Slot A		

WELLPATH DATA (323 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]
7810.00	34.860	221.380	7110.12	-484.82	-1730.02	-1625.47	1756775.86	433252.59	39°41'10.7338"N	80°21'51.3082"W	2373.85	223.215	0.30	-0.04	-0.53
7904.00	34.990	222.780	7187.19	-496.85	-1769.96	-1661.54	1756739.80	433212.65	39°41'10.3356"N	80°21'51.7648"W	2427.65	223.190	0.86	0.14	1.49
7999.00	34.940	235.310	7265.14	-502.47	-1805.48	-1702.46	1756698.88	433177.14	39°41'9.9807"N	80°21'52.2836"W	2481.56	223.318	7.55	-0.05	13.19
8094.00	33.950	250.840	7343.64	-495.07	-1829.72	-1749.98	1756651.37	433152.90	39°41'9.7367"N	80°21'52.8884"W	2531.86	223.724	9.28	-1.04	16.35
8189.00	35.800	260.520	7421.63	-475.84	-1843.02	-1802.49	1756598.86	433139.61	39°41'9.6003"N	80°21'53.5584"W	2577.92	224.363	6.14	1.95	10.19
8284.00	40.040	268.250	7496.60	-447.09	-1848.53	-1860.50	1756540.85	433134.09	39°41'9.5403"N	80°21'54.2996"W	2622.69	225.185	6.70	4.46	8.14
8378.00	43.610	281.470	7566.78	-406.92	-1842.99	-1922.63	1756478.72	433139.63	39°41'9.5891"N	80°21'55.0951"W	2663.30	226.212	10.10	3.80	14.06
8473.00	48.710	286.530	7632.58	-355.17	-1826.31	-1989.02	1756412.34	433156.31	39°41'9.7476"N	80°21'55.9463"W	2700.30	227.442	6.60	5.37	5.33
8568.00	54.760	290.860	7691.40	-295.04	-1802.31	-2059.58	1756341.79	433180.31	39°41'9.9781"N	80°21'56.8516"W	2736.82	228.811	7.30	6.37	4.56
8663.00	62.040	296.790	7741.18	-225.82	-1769.52	-2133.43	1756267.94	433213.10	39°41'10.2951"N	80°21'57.8003"W	2771.77	230.327	9.32	7.66	6.24
8758.00	68.020	304.670	7781.32	-147.37	-1725.46	-2207.27	1756194.10	433257.16	39°41'10.7235"N	80°21'58.7502"W	2801.65	231.985	9.80	6.29	8.29
8853.00	72.980	312.970	7813.07	-61.46	-1669.32	-2276.88	1756124.50	433313.29	39°41'11.2717"N	80°21'59.6474"W	2823.26	233.753	9.75	5.22	8.74
8947.00	80.290	319.910	7834.81	28.87	-1603.08	-2339.76	1756061.62	433379.53	39°41'11.9203"N	80°22'0.4598"W	2836.25	235.583	10.58	7.78	7.38
9042.00	88.460	323.790	7844.11	123.17	-1528.79	-2398.08	1756003.30	433453.81	39°41'12.6489"N	80°22'1.2150"W	2843.94	237.482	9.51	8.60	4.08
9137.00	87.080	323.320	7847.81	218.06	-1452.43	-2454.47	1755946.92	433530.16	39°41'13.3981"N	80°22'1.9457"W	2852.02	239.385	1.53	-1.45	-0.49
9232.00	87.380	323.990	7852.40	312.93	-1376.00	-2510.71	1755890.69	433606.59	39°41'14.1481"N	80°22'2.6744"W	2863.05	241.275	0.77	0.32	0.71
9327.00	91.630	325.610	7853.22	407.90	-1298.40	-2565.45	1755835.94	433684.19	39°41'14.9098"N	80°22'3.3842"W	2875.30	243.156	4.79	4.47	1.71
9421.00	92.400	325.300	7849.92	501.83	-1221.02	-2618.72	1755782.68	433761.56	39°41'15.6694"N	80°22'4.0751"W	2889.39	245.002	0.88	0.82	-0.33
9516.00	90.860	325.020	7847.22	596.79	-1143.08	-2672.97	1755728.43	433839.50	39°41'16.4344"N	80°22'4.7786"W	2907.13	246.846	1.65	-1.62	-0.29
9611.00	90.860	325.020	7845.79	691.78	-1065.25	-2727.43	1755673.98	433917.32	39°41'17.1984"N	80°22'5.4847"W	2928.07	248.666	0.00	0.00	0.00
9706.00	90.860	324.670	7844.36	786.77	-987.59	-2782.12	1755619.29	433994.98	39°41'17.9607"N	80°22'6.1939"W	2952.21	250.456	0.37	0.00	-0.37
9801.00	91.050	325.320	7842.78	881.76	-909.79	-2836.61	1755564.80	434072.78	39°41'18.7244"N	80°22'6.9005"W	2978.94	252.217	0.71	0.20	0.68
9895.00	90.920	325.290	7841.16	975.74	-832.51	-2890.11	1755511.31	434150.05	39°41'19.4829"N	80°22'7.5943"W	3007.62	253.931	0.14	-0.14	-0.03
9990.00	90.980	325.000	7839.59	1070.73	-754.57	-2944.39	1755457.03	434227.99	39°41'20.2481"N	80°22'8.2983"W	3039.54	255.626	0.31	0.06	-0.31
10085.00	91.080	325.190	7837.88	1165.71	-676.67	-2998.74	1755402.68	434305.88	39°41'21.0127"N	80°22'9.0032"W	3074.14	257.284	0.23	0.11	0.20
10180.00	90.890	324.680	7836.25	1260.70	-598.92	-3053.31	1755348.11	434383.62	39°41'21.7758"N	80°22'9.7108"W	3111.50	258.902	0.57	-0.20	-0.54
10275.00	91.080	325.940	7834.62	1355.68	-520.82	-3107.37	1755294.06	434461.72	39°41'22.5425"N	80°22'10.4119"W	3150.72	260.485	1.34	0.20	1.33
10370.00	91.790	325.910	7832.24	1450.64	-442.16	-3160.58	1755240.85	434540.38	39°41'23.3148"N	80°22'11.1023"W	3191.36	262.036	0.75	0.75	-0.03
10464.00	91.790	325.560	7829.30	1544.58	-364.51	-3213.48	1755187.96	434618.02	39°41'24.0771"N	80°22'11.7885"W	3234.09	263.528	0.37	0.00	-0.37
10559.00	91.820	325.550	7826.31	1639.53	-286.21	-3267.19	1755134.25	434696.32	39°41'24.8458"N	80°22'12.4852"W	3279.70	264.994	0.03	0.03	-0.01

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REFERENCE WELLPATH IDENTIFICATION			
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Field	Monongalia	API	47-061-01944-0000
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10654.00	92.000	326.040	7823.14	1734.47	-207.68	-3320.56	1755080.88	434774.84	39°41'25.6167"N	80°22'13.1776"W	3327.05	266.421	0.55	0.19	0.52
10749.00	91.600	325.150	7820.16	1829.42	-129.34	-3374.21	1755027.23	434853.18	39°41'26.3858"N	80°22'13.8736"W	3376.69	267.805	1.03	-0.42	-0.94
10844.00	91.480	319.620	7817.60	1924.25	-54.15	-3432.15	1754969.30	434928.37	39°41'27.1233"N	80°22'14.6240"W	3432.58	269.096	5.82	-0.13	-5.82
10938.00	91.350	325.800	7815.28	2018.10	20.58	-3489.06	1754912.39	435003.09	39°41'27.8564"N	80°22'15.3612"W	3489.12	270.338	6.57	-0.14	6.57
11033.00	91.290	325.440	7813.09	2113.07	98.96	-3542.69	1754858.77	435081.47	39°41'28.6259"N	80°22'16.0569"W	3544.07	271.600	0.38	-0.06	-0.38
11128.00	91.230	325.480	7811.00	2208.04	177.20	-3596.54	1754804.92	435159.70	39°41'29.3939"N	80°22'16.7554"W	3600.90	272.821	0.08	-0.06	0.04
11223.00	91.260	325.260	7808.94	2303.02	255.35	-3650.51	1754750.95	435237.84	39°41'30.1610"N	80°22'17.4555"W	3659.43	274.001	0.23	0.03	-0.23
11317.00	91.290	325.000	7806.85	2396.99	332.45	-3704.24	1754697.23	435314.94	39°41'30.9178"N	80°22'18.1523"W	3719.13	275.129	0.28	0.03	-0.28
11412.00	91.110	324.680	7804.86	2491.97	410.10	-3758.93	1754642.53	435392.59	39°41'31.6800"N	80°22'18.8616"W	3781.24	276.226	0.39	-0.19	-0.34
11507.00	91.080	324.590	7803.04	2586.95	487.56	-3813.91	1754587.56	435470.04	39°41'32.4402"N	80°22'19.5744"W	3844.95	277.285	0.10	-0.03	-0.09
11602.00	91.110	324.940	7801.23	2681.93	565.14	-3868.71	1754532.77	435547.62	39°41'33.2016"N	80°22'20.2850"W	3909.77	278.311	0.37	0.03	0.37
11696.00	91.110	325.100	7799.40	2775.92	642.14	-3922.59	1754478.89	435624.62	39°41'33.9575"N	80°22'20.9838"W	3974.80	279.297	0.17	0.00	0.17
11791.00	91.110	325.160	7797.56	2870.90	720.07	-3976.89	1754424.59	435702.54	39°41'34.7224"N	80°22'21.6881"W	4041.55	280.263	0.06	0.00	0.06
11885.00	91.170	325.170	7795.69	2964.88	797.21	-4030.57	1754370.91	435779.67	39°41'35.4796"N	80°22'22.3844"W	4108.66	281.188	0.06	0.06	0.01
11980.00	91.170	325.250	7793.75	3059.86	875.22	-4084.76	1754316.72	435857.67	39°41'36.2452"N	80°22'23.0873"W	4177.48	282.094	0.08	0.00	0.08
12074.00	91.050	325.320	7791.93	3153.84	952.47	-4138.29	1754263.20	435934.92	39°41'37.0035"N	80°22'23.7815"W	4246.48	282.961	0.15	-0.13	0.07
12169.00	91.110	325.140	7790.14	3248.82	1030.49	-4192.45	1754209.04	436012.94	39°41'37.7694"N	80°22'24.4841"W	4317.24	283.809	0.20	0.06	-0.19
12263.00	91.200	325.080	7788.25	3342.80	1107.58	-4246.21	1754155.29	436090.02	39°41'38.5261"N	80°22'25.1813"W	4388.29	284.619	0.12	0.10	-0.06
12358.00	91.110	324.980	7786.33	3437.78	1185.41	-4300.65	1754100.85	436167.85	39°41'39.2900"N	80°22'25.8874"W	4461.03	285.410	0.14	-0.09	-0.11
12452.00	91.170	324.960	7784.46	3531.77	1262.37	-4354.60	1754046.91	436244.80	39°41'40.0454"N	80°22'26.5870"W	4533.88	286.167	0.07	0.06	-0.02
12547.00	91.170	324.970	7782.52	3626.75	1340.14	-4409.12	1753992.39	436322.57	39°41'40.8087"N	80°22'27.2942"W	4608.29	286.906	0.01	0.00	0.01
12642.00	91.200	325.010	7780.56	3721.73	1417.93	-4463.61	1753937.90	436400.36	39°41'41.5722"N	80°22'28.0009"W	4683.41	287.623	0.05	0.03	0.04
12736.00	91.140	325.230	7778.64	3815.71	1495.03	-4517.36	1753884.16	436477.45	39°41'42.3290"N	80°22'28.6980"W	4758.32	288.312	0.24	-0.06	0.23
12831.00	91.230	325.370	7776.67	3910.68	1573.12	-4571.43	1753830.09	436555.53	39°41'43.0955"N	80°22'29.3994"W	4834.53	288.989	0.18	0.09	0.15
12925.00	90.550	325.150	7775.21	4004.67	1650.35	-4624.99	1753776.53	436632.76	39°41'43.8536"N	80°22'30.0942"W	4910.62	289.638	0.76	-0.72	-0.23
13019.00	90.740	325.310	7774.16	4098.66	1727.56	-4678.59	1753722.93	436709.97	39°41'44.6115"N	80°22'30.7895"W	4987.35	290.267	0.26	0.20	0.17
13113.00	90.770	325.580	7772.92	4192.65	1804.97	-4731.90	1753669.63	436787.37	39°41'45.3713"N	80°22'31.4811"W	5064.47	290.879	0.29	0.03	0.29
13208.00	90.740	325.450	7771.67	4287.64	1883.27	-4785.68	1753615.85	436865.67	39°41'46.1400"N	80°22'32.1789"W	5142.91	291.481	0.14	-0.03	-0.14
13303.00	90.680	325.320	7770.49	4382.63	1961.45	-4839.65	1753561.89	436943.84	39°41'46.9074"N	80°22'32.8789"W	5222.02	292.062	0.15	-0.06	-0.14
13398.00	90.650	325.030	7769.39	4477.62	2039.43	-4893.89	1753507.64	437021.82	39°41'47.6728"N	80°22'33.5826"W	5301.84	292.623	0.31	-0.03	-0.31

No. 120224
 Date: 12/2/2024
 Checked by: [Signature]
 Approved by: [Signature]



Actual Wellpath Report

WDTN-18A-HSM AWP Proj: 29871'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18A-HSM
Field	Monongalia	API	47-061-01944-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18A-HSM AWB
Slot	Slot A		

WELLPATH DATA (323 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]
13492.00	90.550	325.100	7768.40	4571.62	2116.49	-4947.72	1753453.82	437098.87	39°41'48.4291"N	80°22'34.2808"W	5381.40	293.160	0.13	-0.11	0.07
13586.00	90.740	325.500	7767.34	4665.61	2193.76	-5001.23	1753400.31	437176.14	39°41'49.1876"N	80°22'34.9749"W	5461.22	293.684	0.47	0.20	0.43
13681.00	90.580	325.300	7766.25	4760.60	2271.95	-5055.17	1753346.38	437254.33	39°41'49.9552"N	80°22'35.6747"W	5542.25	294.201	0.27	-0.17	-0.21
13776.00	90.740	325.120	7765.15	4855.60	2349.97	-5109.37	1753292.18	437332.34	39°41'50.7209"N	80°22'36.3778"W	5623.88	294.699	0.25	0.17	-0.19
13871.00	90.710	325.370	7763.95	4950.59	2428.01	-5163.52	1753238.03	437410.38	39°41'51.4870"N	80°22'37.0803"W	5705.89	295.184	0.27	-0.03	0.26
13966.00	90.620	324.970	7762.85	5045.58	2505.99	-5217.78	1753183.78	437488.35	39°41'52.2523"N	80°22'37.7841"W	5788.37	295.654	0.43	-0.09	-0.42
14061.00	90.800	325.500	7761.67	5140.57	2584.03	-5271.94	1753129.62	437566.38	39°41'53.0183"N	80°22'38.4867"W	5871.16	296.112	0.59	0.19	0.56
14155.00	90.550	325.090	7760.57	5234.56	2661.30	-5325.46	1753076.10	437643.65	39°41'53.7768"N	80°22'39.1810"W	5953.40	296.553	0.51	-0.27	-0.44
14250.00	90.580	325.030	7759.63	5329.56	2739.17	-5379.86	1753021.70	437721.51	39°41'54.5411"N	80°22'39.8867"W	6037.05	296.983	0.07	0.03	-0.06
14345.00	90.620	325.190	7758.63	5424.55	2817.09	-5434.20	1752967.37	437799.43	39°41'55.3059"N	80°22'40.5918"W	6120.99	297.402	0.17	0.04	0.17
14440.00	90.710	325.470	7757.53	5519.55	2895.22	-5488.24	1752913.33	437877.55	39°41'56.0728"N	80°22'41.2926"W	6205.08	297.813	0.31	0.09	0.29
14535.00	90.580	325.000	7756.46	5614.54	2973.25	-5542.41	1752859.17	437955.58	39°41'56.8388"N	80°22'41.9953"W	6289.55	298.212	0.51	-0.14	-0.49
14630.00	90.680	325.510	7755.42	5709.53	3051.31	-5596.54	1752805.03	438033.63	39°41'57.6049"N	80°22'42.6977"W	6374.31	298.600	0.55	0.11	0.54
14725.00	90.580	325.400	7754.37	5804.52	3129.55	-5650.41	1752751.17	438111.87	39°41'58.3730"N	80°22'43.3966"W	6459.20	298.980	0.16	-0.11	-0.12
14819.00	90.280	325.140	7753.67	5898.52	3206.80	-5703.96	1752697.62	438189.12	39°41'59.1312"N	80°22'44.0913"W	6543.61	299.345	0.42	-0.32	-0.28
14914.00	89.940	325.350	7753.48	5993.52	3284.86	-5758.12	1752643.47	438267.17	39°41'59.8973"N	80°22'44.7939"W	6629.19	299.704	0.42	-0.36	0.22
15009.00	89.850	325.360	7753.66	6088.52	3363.01	-5812.13	1752589.47	438345.32	39°42'0.6645"N	80°22'45.4946"W	6714.96	300.055	0.10	-0.09	0.01
15104.00	89.850	325.360	7753.91	6183.51	3441.17	-5866.12	1752535.47	438423.47	39°42'1.4317"N	80°22'46.1952"W	6800.96	300.397	0.00	0.00	0.00
15198.00	90.340	325.960	7753.75	6277.51	3518.79	-5919.15	1752482.45	438501.08	39°42'2.1936"N	80°22'46.8832"W	6886.09	300.730	0.82	0.52	0.64
15293.00	90.180	325.740	7753.32	6372.50	3597.41	-5972.48	1752429.12	438579.70	39°42'2.9654"N	80°22'47.5753"W	6972.22	301.062	0.29	-0.17	-0.23
15388.00	90.430	324.530	7752.81	6467.49	3675.35	-6026.78	1752374.82	438657.64	39°42'3.7304"N	80°22'48.2798"W	7059.06	301.376	1.30	0.26	-1.27
15482.00	90.620	324.640	7751.95	6561.49	3751.95	-6081.25	1752320.36	438734.24	39°42'4.4822"N	80°22'48.9862"W	7145.54	301.673	0.23	0.20	0.12
15577.00	90.340	324.410	7751.16	6656.48	3829.32	-6136.38	1752265.23	438811.60	39°42'5.2414"N	80°22'49.7012"W	7233.18	301.966	0.38	-0.29	-0.24
15671.00	90.490	324.580	7750.48	6750.47	3905.84	-6190.98	1752210.64	438888.11	39°42'5.9923"N	80°22'50.4092"W	7320.09	302.248	0.24	0.16	0.18
15766.00	90.400	324.350	7749.74	6845.47	3983.14	-6246.19	1752155.43	438965.41	39°42'6.7509"N	80°22'51.1253"W	7408.12	302.525	0.26	-0.09	-0.24
15861.00	90.400	324.170	7749.08	6940.45	4060.25	-6301.68	1752099.95	439042.51	39°42'7.5076"N	80°22'51.8448"W	7496.45	302.794	0.19	0.00	-0.19
15956.00	90.310	323.860	7748.49	7035.44	4137.12	-6357.50	1752044.13	439119.38	39°42'8.2618"N	80°22'52.5686"W	7585.08	303.054	0.34	-0.09	-0.33
16050.00	90.310	323.690	7747.98	7129.42	4212.95	-6413.04	1751988.58	439195.20	39°42'9.0058"N	80°22'53.2887"W	7673.07	303.302	0.18	0.00	-0.18
16145.00	90.340	323.970	7747.44	7224.39	4289.64	-6469.11	1751932.52	439271.89	39°42'9.7583"N	80°22'54.0157"W	7762.11	303.548	0.30	0.03	0.29
16240.00	90.770	324.480	7746.52	7319.38	4366.71	-6524.65	1751876.99	439348.95	39°42'10.5145"N	80°22'54.7358"W	7851.06	303.793	0.70	0.45	0.54

OFFICE OF THE SUPERVISOR OF MINING
 DIVISION OF MINERAL RESOURCES
 1501 13th Street, N.W.
 ALBUQUERQUE, NM 87102
 NOV 13 2014



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18A-HSM
Field	Monongalia	API	47-061-01944-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18A-HSM AWB
Slot	Slot A		

WELLPATH DATA (323 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)
16334.00	89.780	322.030	7746.07	7413.33	4442.02	-6580.88	1751820.76	439424.26	39°42'11.2534"N	80°22'55.4646"W	7939.74	304.019	2.81	-1.05	-2.61
16429.00	90.000	324.300	7746.25	7508.27	4518.05	-6637.83	1751763.82	439500.29	39°42'11.9992"N	80°22'56.2028"W	8029.54	304.241	2.40	0.23	2.39
16524.00	90.120	324.700	7746.15	7603.27	4595.39	-6692.99	1751708.65	439577.63	39°42'12.7582"N	80°22'56.9183"W	8118.73	304.473	0.44	0.13	0.42
16619.00	90.000	324.680	7746.05	7698.27	4672.92	-6747.90	1751653.75	439655.14	39°42'13.5190"N	80°22'57.6305"W	8207.94	304.703	0.13	-0.13	-0.02
16713.00	89.850	324.090	7746.17	7792.26	4749.33	-6802.64	1751599.01	439731.56	39°42'14.2689"N	80°22'58.3404"W	8296.51	304.921	0.65	-0.16	-0.63
16808.00	90.090	324.220	7746.22	7887.25	4826.34	-6858.27	1751543.38	439808.56	39°42'15.0245"N	80°22'59.0618"W	8386.27	305.135	0.29	0.25	0.14
16903.00	89.880	324.220	7746.25	7982.24	4903.41	-6913.82	1751487.84	439885.62	39°42'15.7807"N	80°22'59.7821"W	8476.10	305.345	0.22	-0.22	0.00
16997.00	90.150	324.600	7746.22	8076.24	4979.85	-6968.52	1751433.14	439962.06	39°42'16.5309"N	80°23'0.4917"W	8565.00	305.550	0.50	0.29	0.40
17092.00	90.030	324.930	7746.08	8171.24	5057.45	-7023.33	1751378.33	440039.65	39°42'17.2924"N	80°23'1.2026"W	8654.77	305.757	0.37	-0.13	0.35
17187.00	89.910	324.640	7746.13	8266.24	5135.06	-7078.11	1751323.56	440117.26	39°42'18.0541"N	80°23'1.9133"W	8744.63	305.960	0.33	-0.13	-0.31
17282.00	89.600	323.980	7746.53	8361.23	5212.22	-7133.53	1751268.14	440194.41	39°42'18.8112"N	80°23'2.6320"W	8834.85	306.154	0.77	-0.33	-0.69
17377.00	89.780	324.350	7747.05	8456.21	5289.23	-7189.15	1751212.52	440271.42	39°42'19.5669"N	80°23'3.3533"W	8925.24	306.343	0.43	0.19	0.39
17471.00	90.030	323.790	7747.20	8550.20	5365.35	-7244.31	1751157.37	440347.53	39°42'20.3137"N	80°23'4.0686"W	9014.82	306.525	0.65	0.27	-0.60
17566.00	89.510	325.390	7747.58	8645.20	5442.77	-7299.35	1751102.33	440424.95	39°42'21.0735"N	80°23'4.7825"W	9105.18	306.710	1.77	-0.55	1.68
17661.00	89.320	324.750	7748.55	8740.19	5520.65	-7353.74	1751047.94	440502.83	39°42'21.8379"N	80°23'5.4882"W	9195.39	306.897	0.70	-0.20	-0.67
17756.00	89.480	325.820	7749.55	8835.18	5598.74	-7407.84	1750993.85	440580.91	39°42'22.6043"N	80°23'6.1902"W	9285.58	307.081	1.14	0.17	1.13
17850.00	89.380	325.010	7750.48	8929.17	5676.12	-7461.20	1750940.50	440658.29	39°42'23.3638"N	80°23'6.8826"W	9374.85	307.262	0.87	-0.11	-0.86
17945.00	89.970	325.390	7751.02	9024.17	5754.13	-7515.41	1750886.28	440736.29	39°42'24.1295"N	80°23'7.5861"W	9465.28	307.439	0.74	0.62	0.40
18040.00	90.310	325.330	7750.79	9119.17	5832.29	-7569.41	1750832.29	440814.45	39°42'24.8966"N	80°23'8.2868"W	9555.71	307.615	0.36	0.36	-0.06
18134.00	90.400	325.350	7750.21	9213.17	5909.61	-7622.87	1750778.83	440891.76	39°42'25.6555"N	80°23'8.9805"W	9645.29	307.785	0.10	0.10	0.02
18229.00	90.490	325.440	7749.47	9308.16	5987.80	-7676.82	1750724.88	440969.95	39°42'26.4230"N	80°23'9.6806"W	9735.88	307.954	0.13	0.09	0.09
18324.00	90.310	324.590	7748.81	9403.16	6065.63	-7731.29	1750670.42	441047.77	39°42'27.1868"N	80°23'10.3873"W	9826.73	308.116	0.91	-0.19	-0.89
18419.00	90.400	325.200	7748.22	9498.15	6143.35	-7785.92	1750615.79	441125.48	39°42'27.9495"N	80°23'11.0961"W	9917.72	308.275	0.65	0.09	0.64
18513.00	90.220	325.510	7747.71	9592.15	6220.68	-7839.36	1750562.36	441202.81	39°42'28.7086"N	80°23'11.7895"W	10007.61	308.433	0.38	-0.19	0.33
18608.00	90.060	324.850	7747.48	9687.15	6298.67	-7893.60	1750508.12	441280.80	39°42'29.4740"N	80°23'12.4934"W	10098.62	308.588	0.71	-0.17	-0.69
18703.00	90.250	325.250	7747.22	9782.15	6376.53	-7948.02	1750453.70	441358.66	39°42'30.2382"N	80°23'13.1995"W	10189.76	308.739	0.47	0.20	0.42
18798.00	89.780	324.430	7747.19	9877.15	6454.20	-8002.73	1750399.00	441436.32	39°42'31.0004"N	80°23'13.9093"W	10281.07	308.886	0.99	-0.49	-0.86
18892.00	89.600	324.600	7747.70	9971.14	6530.74	-8057.29	1750344.43	441512.85	39°42'31.7515"N	80°23'14.6171"W	10371.62	309.026	0.26	-0.19	0.18
18987.00	89.630	324.880	7748.34	10066.14	6608.31	-8112.13	1750289.60	441590.42	39°42'32.5127"N	80°23'15.3285"W	10463.10	309.167	0.30	0.03	0.29
19082.00	89.940	325.590	7748.70	10161.14	6686.35	-8166.30	1750235.43	441668.46	39°42'33.2787"N	80°23'16.0315"W	10554.42	309.310	0.82	0.33	0.75

Approved
 Date: 11/14/2014
 NOV 19 2014
 Environmental
 WDTN-18A-HSM



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18A-HSM
Field	Monongalia	API	47-061-01944-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18A-HSM AWB
Slot	Slot A		

WELLPATH DATA (323 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)
19177.00	89.720	322.630	7748.98	10256.12	6763.31	-8221.99	1750179.75	441745.41	39°42'34.0337"N	80°23'16.7537"W	10646.29	309.440	3.12	-0.23	-3.12
19271.00	89.850	319.370	7749.33	10349.87	6836.35	-8281.14	1750120.60	441818.44	39°42'34.7498"N	80°23'17.5197"W	10738.38	309.541	3.47	0.14	-3.47
19366.00	89.690	322.680	7749.71	10444.63	6910.19	-8340.88	1750060.86	441892.28	39°42'35.4737"N	80°23'18.2934"W	10831.48	309.641	3.49	-0.17	3.48
19461.00	89.820	327.200	7750.12	10539.61	6987.93	-8395.44	1750006.31	441970.02	39°42'36.2367"N	80°23'19.0013"W	10923.12	309.772	4.76	0.14	4.76
19555.00	89.720	326.260	7750.50	10633.56	7066.52	-8447.00	1749954.75	442048.61	39°42'37.0083"N	80°23'19.6710"W	11013.07	309.915	1.01	-0.11	-1.00
19650.00	89.660	326.450	7751.01	10728.53	7145.61	-8499.64	1749902.12	442127.69	39°42'37.7847"N	80°23'20.3545"W	11104.21	310.054	0.21	-0.06	0.20
19745.00	90.220	326.430	7751.11	10823.50	7224.77	-8552.15	1749849.60	442206.85	39°42'38.5619"N	80°23'21.0365"W	11195.39	310.191	0.59	0.59	-0.02
19840.00	90.280	326.370	7750.70	10918.47	7303.90	-8604.73	1749797.04	442285.97	39°42'39.3387"N	80°23'21.7191"W	11286.64	310.325	0.09	0.06	-0.06
19935.00	90.220	326.830	7750.28	11013.43	7383.21	-8657.02	1749744.74	442365.27	39°42'40.1174"N	80°23'22.3983"W	11377.86	310.459	0.49	-0.06	0.48
20029.00	90.180	326.090	7749.95	11107.40	7461.56	-8708.96	1749692.81	442443.62	39°42'40.8866"N	80°23'23.0727"W	11468.25	310.589	0.79	-0.04	-0.79
20124.00	90.340	325.320	7749.52	11202.39	7540.04	-8762.48	1749639.29	442522.09	39°42'41.6570"N	80°23'23.7675"W	11559.99	310.712	0.83	0.17	-0.81
20219.00	90.370	325.270	7748.93	11297.39	7618.14	-8816.57	1749585.20	442600.19	39°42'42.4235"N	80°23'24.4695"W	11651.95	310.829	0.06	0.03	-0.05
20314.00	90.400	325.180	7748.30	11392.39	7696.17	-8870.75	1749531.02	442678.21	39°42'43.1893"N	80°23'25.1727"W	11743.99	310.945	0.10	0.03	-0.09
20408.00	90.430	325.270	7747.62	11486.38	7773.38	-8924.37	1749477.41	442755.42	39°42'43.9471"N	80°23'25.8684"W	11835.11	311.057	0.10	0.03	0.10
20503.00	90.460	325.260	7746.88	11581.38	7851.45	-8978.49	1749423.29	442833.48	39°42'44.7133"N	80°23'26.5709"W	11927.22	311.169	0.03	0.03	-0.01
20598.00	90.490	325.410	7746.09	11676.38	7929.58	-9032.53	1749369.26	442911.61	39°42'45.4801"N	80°23'27.2722"W	12019.35	311.280	0.16	0.03	0.16
20693.00	90.490	325.050	7745.28	11771.37	8007.61	-9086.70	1749315.09	442989.64	39°42'46.2460"N	80°23'27.9752"W	12111.57	311.388	0.38	0.00	-0.38
20787.00	90.460	325.310	7744.50	11865.37	8084.78	-9140.37	1749261.42	443066.80	39°42'47.0033"N	80°23'28.6718"W	12202.87	311.493	0.28	-0.03	0.28
20882.00	90.490	325.630	7743.71	11960.36	8163.04	-9194.22	1749207.58	443145.06	39°42'47.7715"N	80°23'29.3707"W	12295.08	311.600	0.34	0.03	0.34
20977.00	90.370	324.770	7743.00	12055.36	8241.05	-9248.44	1749153.36	443223.06	39°42'48.5371"N	80°23'30.0743"W	12387.43	311.703	0.91	-0.13	-0.91
21071.00	90.000	324.840	7742.69	12149.36	8317.96	-9302.61	1749099.19	443299.87	39°42'49.2909"N	80°23'30.7773"W	12479.00	311.801	0.40	-0.39	0.07
21166.00	89.750	325.110	7742.90	12244.36	8395.66	-9357.14	1749044.67	443377.66	39°42'50.0543"N	80°23'31.4848"W	12571.52	311.900	0.39	-0.26	0.28
21261.00	90.000	325.260	7743.11	12339.35	8473.65	-9411.38	1748990.44	443455.65	39°42'50.8198"N	80°23'32.1888"W	12664.00	311.999	0.31	0.26	0.16
21356.00	90.000	325.090	7743.11	12434.35	8551.64	-9465.63	1748936.19	443533.63	39°42'51.5852"N	80°23'32.8928"W	12756.51	312.096	0.18	0.00	-0.18
21450.00	90.400	325.610	7742.78	12528.35	8628.97	-9519.07	1748882.75	443610.95	39°42'52.3441"N	80°23'33.5865"W	12848.03	312.192	0.70	0.43	0.55
21545.00	90.400	325.580	7742.12	12623.34	8707.35	-9572.75	1748829.07	443689.33	39°42'53.1134"N	80°23'34.2833"W	12940.46	312.290	0.03	0.00	-0.03
21640.00	90.180	325.280	7741.64	12718.34	8785.57	-9626.65	1748775.17	443767.55	39°42'53.8812"N	80°23'34.9830"W	13032.98	312.385	0.39	-0.23	-0.32
21734.00	90.400	325.580	7741.16	12812.34	8862.97	-9679.99	1748721.84	443844.95	39°42'54.6409"N	80°23'35.6753"W	13124.57	312.477	0.40	0.23	0.32
21829.00	90.280	325.780	7740.60	12907.33	8941.43	-9733.55	1748668.28	443923.40	39°42'55.4110"N	80°23'36.3706"W	13217.08	312.571	0.25	-0.13	0.21
21924.00	90.310	324.920	7740.11	13002.32	9019.58	-9787.56	1748614.27	444001.54	39°42'56.1780"N	80°23'37.0717"W	13309.74	312.662	0.91	0.03	-0.91

Approved by: [Signature]
 Date: 11/13/2024
 Office: [Address]
 Baker Hughes



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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18A-HSM
Field	Monongalia	API	47-061-01944-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18A-HSM AWB
Slot	Slot A		

WELLPATH DATA (323 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]
22019.00	90.370	325.280	7739.54	13097.32	9097.49	-9841.91	1748559.92	444079.45	39°42'56.9426"N	80°23'37.7771"W	13402.53	312.749	0.38	0.06	0.38
22114.00	90.400	325.560	7738.91	13192.32	9175.71	-9895.83	1748506.01	444157.66	39°42'57.7102"N	80°23'38.4770"W	13495.23	312.838	0.30	0.03	0.29
22209.00	90.340	325.220	7738.29	13287.31	9253.90	-9949.79	1748452.05	444235.85	39°42'58.4776"N	80°23'39.1774"W	13587.97	312.925	0.36	-0.06	-0.36
22304.00	90.250	325.200	7737.80	13382.31	9331.91	-10003.99	1748397.85	444313.86	39°42'59.2433"N	80°23'39.8809"W	13680.81	313.009	0.10	-0.09	-0.02
22399.00	90.370	325.340	7737.29	13477.31	9409.99	-10058.11	1748343.74	444391.93	39°43'0.0095"N	80°23'40.5834"W	13773.65	313.093	0.19	0.13	0.15
22493.00	90.400	325.150	7736.66	13571.30	9487.22	-10111.70	1748290.15	444469.15	39°43'0.7675"N	80°23'41.2789"W	13865.56	313.175	0.20	0.03	-0.20
22588.00	90.430	325.300	7735.97	13666.30	9565.25	-10165.88	1748235.98	444547.18	39°43'1.5333"N	80°23'41.9822"W	13958.48	313.256	0.16	0.03	0.16
22683.00	90.430	325.160	7735.26	13761.30	9643.28	-10220.06	1748181.80	444625.21	39°43'2.2991"N	80°23'42.6853"W	14051.42	313.337	0.15	0.00	-0.15
22778.00	90.490	325.270	7734.49	13856.29	9721.30	-10274.25	1748127.61	444703.22	39°43'3.0648"N	80°23'43.3888"W	14144.40	313.416	0.13	0.06	0.12
22872.00	90.430	325.580	7733.74	13950.29	9798.69	-10327.61	1748074.26	444780.61	39°43'3.8243"N	80°23'44.0814"W	14236.35	313.495	0.32	-0.06	0.31
22967.00	90.580	325.520	7732.90	14045.28	9877.02	-10381.36	1748020.51	444858.93	39°43'4.5931"N	80°23'44.7792"W	14329.27	313.574	0.16	0.16	-0.04
23062.00	90.430	325.390	7732.06	14140.27	9955.26	-10435.23	1747966.65	444937.17	39°43'5.3611"N	80°23'45.4785"W	14422.25	313.652	0.21	-0.16	-0.14
23157.00	90.370	324.730	7731.40	14235.27	10033.14	-10489.63	1747912.24	445015.04	39°43'6.1253"N	80°23'46.1846"W	14515.38	313.726	0.70	-0.06	-0.69
23251.00	90.180	324.730	7730.95	14329.27	10109.88	-10543.91	1747857.97	445091.78	39°43'6.8784"N	80°23'46.8890"W	14607.66	313.796	0.20	-0.20	0.00
23346.00	90.620	325.440	7730.29	14424.27	10187.78	-10598.28	1747803.60	445169.67	39°43'7.6428"N	80°23'47.5947"W	14700.83	313.869	0.88	0.46	0.75
23441.00	90.430	325.200	7729.42	14519.26	10265.90	-10652.34	1747749.55	445247.79	39°43'8.4095"N	80°23'48.2963"W	14793.95	313.942	0.32	-0.20	-0.25
23536.00	90.430	325.290	7728.70	14614.26	10343.95	-10706.49	1747695.40	445325.83	39°43'9.1755"N	80°23'48.9993"W	14887.12	314.013	0.09	0.00	0.09
23630.00	90.220	325.410	7728.17	14708.25	10421.27	-10759.93	1747641.96	445403.15	39°43'9.9344"N	80°23'49.6931"W	14979.29	314.084	0.26	-0.22	0.13
23725.00	90.370	325.350	7727.68	14803.25	10499.45	-10813.91	1747587.99	445481.33	39°43'10.7017"N	80°23'50.3937"W	15072.46	314.155	0.17	0.16	-0.06
23820.00	90.430	325.280	7727.02	14898.25	10577.57	-10867.97	1747533.93	445559.44	39°43'11.4683"N	80°23'51.0955"W	15165.67	314.224	0.10	0.06	-0.07
23914.00	90.400	325.290	7726.34	14992.24	10654.83	-10921.50	1747480.40	445636.70	39°43'12.2266"N	80°23'51.7903"W	15257.94	314.292	0.03	-0.03	0.01
24009.00	90.490	325.660	7725.60	15087.24	10733.10	-10975.34	1747426.57	445714.96	39°43'12.9947"N	80°23'52.4893"W	15351.14	314.361	0.40	0.09	0.39
24103.00	90.490	325.350	7724.80	15181.23	10810.57	-11028.57	1747373.34	445792.42	39°43'13.7551"N	80°23'53.1805"W	15443.37	314.428	0.33	0.00	-0.33
24198.00	90.370	325.250	7724.08	15276.22	10888.67	-11082.65	1747319.26	445870.52	39°43'14.5216"N	80°23'53.8825"W	15536.68	314.494	0.16	-0.13	-0.11
24293.00	90.430	325.330	7723.42	15371.22	10966.76	-11136.75	1747265.17	445948.61	39°43'15.2880"N	80°23'54.5847"W	15630.00	314.559	0.11	0.06	0.08
24388.00	90.490	325.570	7722.66	15466.22	11045.01	-11190.62	1747211.30	446026.85	39°43'16.0559"N	80°23'55.2841"W	15723.30	314.625	0.26	0.06	0.25
24482.00	90.400	325.310	7721.93	15560.21	11122.42	-11243.94	1747157.98	446104.25	39°43'16.8156"N	80°23'55.9764"W	15815.64	314.689	0.29	-0.10	-0.28
24577.00	90.520	325.270	7721.16	15655.21	11200.51	-11298.04	1747103.89	446182.34	39°43'17.5820"N	80°23'56.6786"W	15909.02	314.752	0.13	0.13	-0.04
24672.00	90.520	324.560	7720.30	15750.20	11278.24	-11352.64	1747049.29	446260.07	39°43'18.3448"N	80°23'57.3873"W	16002.54	314.812	0.75	0.00	-0.75
24767.00	90.740	324.820	7719.26	15845.19	11355.76	-11407.55	1746994.39	446337.58	39°43'19.1054"N	80°23'58.0999"W	16096.13	314.870	0.36	0.23	0.27

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18A-HSM
Field	Monogalia	API	47-061-01944-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18A-HSM AWB
Slot	Slot A		

WELLPATH DATA (323 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]
24862.00	91.200	324.600	7717.65	15940.18	11433.29	-11462.42	1746939.51	446415.11	39°43'19.8662"N	80°23'58.8120"W	16189.73	314.927	0.54	0.48	-0.23
24957.00	91.020	324.430	7715.81	16035.16	11510.63	-11517.56	1746884.38	446492.44	39°43'20.6251"N	80°23'59.5275"W	16283.39	314.983	0.26	-0.19	-0.18
25052.00	90.430	324.020	7714.61	16130.14	11587.70	-11573.09	1746828.85	446569.51	39°43'21.3812"N	80°24'0.2481"W	16377.15	315.036	0.76	-0.62	-0.43
25146.00	90.400	324.120	7713.93	16224.13	11663.81	-11628.25	1746773.70	446645.62	39°43'22.1279"N	80°24'0.9637"W	16469.99	315.087	0.11	-0.03	0.11
25241.00	90.490	324.530	7713.19	16319.12	11740.98	-11683.65	1746718.30	446722.78	39°43'22.8851"N	80°24'1.6825"W	16563.76	315.140	0.44	0.09	0.43
25336.00	90.460	324.500	7712.40	16414.11	11818.34	-11738.79	1746663.16	446800.13	39°43'23.6440"N	80°24'2.3982"W	16657.50	315.193	0.04	-0.03	-0.03
25430.00	90.710	324.630	7711.44	16508.10	11894.92	-11793.29	1746608.67	446876.71	39°43'24.3955"N	80°24'3.1054"W	16750.25	315.246	0.30	0.27	0.14
25525.00	90.710	324.480	7710.26	16603.09	11972.31	-11848.38	1746553.58	446954.09	39°43'25.1548"N	80°24'3.8203"W	16844.00	315.298	0.16	0.00	-0.16
25619.00	90.680	324.490	7709.12	16697.08	12048.82	-11902.98	1746498.98	447030.60	39°43'25.9055"N	80°24'4.5289"W	16936.79	315.349	0.03	-0.03	0.01
25714.00	90.680	324.300	7708.00	16792.07	12126.05	-11958.28	1746443.68	447107.83	39°43'26.6633"N	80°24'5.2465"W	17030.61	315.399	0.20	0.00	-0.20
25809.00	90.740	324.470	7706.82	16887.06	12203.27	-12013.60	1746388.37	447185.04	39°43'27.4209"N	80°24'5.9644"W	17124.44	315.449	0.19	0.06	0.18
25904.00	90.770	324.580	7705.57	16982.04	12280.63	-12068.73	1746333.24	447262.40	39°43'28.1800"N	80°24'6.6798"W	17218.25	315.499	0.12	0.03	0.12
25998.00	90.550	324.080	7704.48	17076.03	12356.99	-12123.54	1746278.44	447338.75	39°43'28.9291"N	80°24'7.3910"W	17311.14	315.546	0.58	-0.23	-0.53
26093.00	90.680	324.300	7703.46	17171.02	12434.03	-12179.12	1746222.86	447415.79	39°43'29.6849"N	80°24'8.1122"W	17405.06	315.593	0.27	0.14	0.23
26188.00	90.710	324.620	7702.31	17266.00	12511.33	-12234.34	1746167.65	447493.08	39°43'30.4433"N	80°24'8.8288"W	17498.92	315.641	0.34	0.03	0.34
26282.00	90.680	324.110	7701.17	17359.99	12587.72	-12289.10	1746112.89	447569.46	39°43'31.1929"N	80°24'9.5394"W	17591.83	315.688	0.54	-0.03	-0.54
26377.00	90.620	324.290	7700.09	17454.98	12664.76	-12344.67	1746057.32	447646.51	39°43'31.9487"N	80°24'10.2605"W	17685.79	315.733	0.20	-0.06	0.19
26472.00	90.680	324.550	7699.02	17549.97	12742.02	-12399.94	1746002.06	447723.76	39°43'32.7067"N	80°24'10.9777"W	17779.70	315.780	0.28	0.06	0.27
26567.00	90.740	324.570	7697.84	17644.95	12819.42	-12455.02	1745946.98	447801.15	39°43'33.4661"N	80°24'11.6926"W	17873.58	315.826	0.07	0.06	0.02
26756.00	90.220	324.400	7696.26	17833.94	12973.25	-12564.81	1745837.19	447954.97	39°43'34.9754"N	80°24'13.1174"W	18060.44	315.916	0.29	-0.28	-0.09
26850.00	90.090	324.190	7696.00	17927.93	13049.58	-12619.67	1745782.34	448031.30	39°43'35.7243"N	80°24'13.8293"W	18153.44	315.960	0.26	-0.14	-0.22
26945.00	90.310	324.360	7695.67	18022.92	13126.70	-12675.14	1745726.87	448108.42	39°43'36.4810"N	80°24'14.5492"W	18247.45	316.003	0.29	0.23	0.18
27040.00	90.250	324.320	7695.21	18117.92	13203.89	-12730.52	1745671.49	448185.60	39°43'37.2382"N	80°24'15.2679"W	18341.45	316.046	0.08	-0.06	-0.04
27134.00	90.120	324.380	7694.90	18211.91	13280.27	-12785.30	1745616.71	448261.98	39°43'37.9876"N	80°24'15.9789"W	18434.47	316.088	0.15	-0.14	0.06
27229.00	90.120	324.140	7694.70	18306.90	13357.38	-12840.79	1745561.22	448339.08	39°43'38.7442"N	80°24'16.6989"W	18528.51	316.130	0.25	0.00	-0.25
27324.00	90.150	324.400	7694.48	18401.89	13434.50	-12896.27	1745505.75	448416.19	39°43'39.5008"N	80°24'17.4189"W	18622.55	316.171	0.28	0.03	0.27
27419.00	90.280	324.770	7694.12	18496.89	13511.92	-12951.32	1745450.70	448493.61	39°43'40.2604"N	80°24'18.1334"W	18716.54	316.214	0.41	0.14	0.39
27513.00	90.180	324.590	7693.75	18590.89	13588.62	-13005.67	1745396.36	448570.30	39°43'41.0129"N	80°24'18.8388"W	18809.52	316.256	0.22	-0.11	-0.19
27608.00	90.150	324.300	7693.47	18685.88	13665.91	-13060.91	1745341.12	448647.59	39°43'41.7712"N	80°24'19.5557"W	18903.55	316.297	0.31	-0.03	-0.31
27703.00	90.150	324.130	7693.22	18780.87	13742.97	-13116.46	1745285.58	448724.65	39°43'42.5273"N	80°24'20.2766"W	18997.65	316.336	0.18	0.00	-0.18

Date: 11/13/2014
 Time: 10:45 AM
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Actual Wellpath Report

WDTN-18A-HSM AWP Proj: 29871'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18A-HSM
Field	Monongalia	API	47-061-01944-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18A-HSM AWB
Slot	Slot A		

WELLPATH DATA (323 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]
27798.00	90.400	324.340	7692.77	18875.86	13820.06	-13171.98	1745230.06	448801.73	39°43'43.2835"N	80°24'20.9972"W	19091.75	316.375	0.34	0.26	0.22
27892.00	90.400	325.500	7692.11	18969.86	13896.98	-13226.00	1745176.04	448878.64	39°43'44.0383"N	80°24'21.6985"W	19184.71	316.417	1.23	0.00	1.23
27987.00	90.370	325.190	7691.47	19064.86	13975.12	-13280.02	1745122.02	448956.78	39°43'44.8052"N	80°24'22.3999"W	19278.56	316.461	0.33	-0.03	-0.33
28082.00	90.430	325.420	7690.81	19159.85	14053.23	-13334.09	1745067.95	449034.89	39°43'45.5717"N	80°24'23.1020"W	19372.44	316.504	0.25	0.06	0.24
28177.00	90.370	325.470	7690.15	19254.85	14131.47	-13387.98	1745014.07	449113.12	39°43'46.3395"N	80°24'23.8017"W	19466.29	316.548	0.08	-0.06	0.05
28272.00	90.460	325.560	7689.46	19349.84	14209.77	-13441.76	1744960.29	449191.42	39°43'47.1080"N	80°24'24.5002"W	19560.13	316.591	0.13	0.09	0.09
28461.00	90.490	325.440	7687.89	19538.83	14365.52	-13548.81	1744853.25	449347.16	39°43'48.6365"N	80°24'25.8904"W	19746.86	316.676	0.07	0.02	-0.06
28556.00	90.490	325.490	7687.08	19633.82	14443.78	-13602.67	1744799.40	449425.42	39°43'49.4045"N	80°24'26.5897"W	19840.75	316.718	0.05	0.00	0.05
28650.00	90.490	325.960	7686.27	19727.81	14521.45	-13655.60	1744746.47	449503.08	39°43'50.1668"N	80°24'27.2773"W	19933.59	316.760	0.50	0.00	0.50
28745.00	90.370	325.430	7685.56	19822.80	14599.93	-13709.14	1744692.93	449581.55	39°43'50.9370"N	80°24'27.9727"W	20027.44	316.802	0.57	-0.13	-0.56
28839.00	90.370	325.270	7684.95	19916.80	14677.25	-13762.58	1744639.49	449658.87	39°43'51.6958"N	80°24'28.6667"W	20120.40	316.842	0.17	0.00	-0.17
28934.00	90.370	325.440	7684.34	20011.79	14755.41	-13816.59	1744585.49	449737.02	39°43'52.4628"N	80°24'29.3680"W	20214.36	316.882	0.18	0.00	0.18
29029.00	90.430	325.340	7683.68	20106.79	14833.59	-13870.55	1744531.53	449815.20	39°43'53.2301"N	80°24'30.0687"W	20308.31	316.922	0.12	0.06	-0.11
29123.00	90.430	325.300	7682.97	20200.78	14910.89	-13924.03	1744478.05	449892.50	39°43'53.9886"N	80°24'30.7632"W	20401.31	316.960	0.04	0.00	-0.04
29218.00	90.520	325.810	7682.18	20295.78	14989.23	-13977.76	1744424.32	449970.83	39°43'54.7574"N	80°24'31.4610"W	20495.24	317.000	0.55	0.09	0.54
29313.00	90.490	325.520	7681.35	20390.77	15067.68	-14031.34	1744370.75	450049.27	39°43'55.5273"N	80°24'32.1569"W	20589.16	317.040	0.31	-0.03	-0.31
29408.00	90.520	325.520	7680.51	20485.76	15145.98	-14085.12	1744316.97	450127.58	39°43'56.2958"N	80°24'32.8554"W	20683.12	317.078	0.03	0.03	0.00
29503.00	90.370	325.480	7679.77	20580.75	15224.27	-14138.93	1744263.17	450205.86	39°43'57.0641"N	80°24'33.5542"W	20777.10	317.117	0.16	-0.16	-0.04
29597.00	90.460	325.500	7679.09	20674.75	15301.73	-14192.18	1744209.92	450283.31	39°43'57.8242"N	80°24'34.2458"W	20870.10	317.154	0.10	0.10	0.02
29692.00	90.460	325.470	7678.33	20769.74	15380.00	-14246.01	1744156.09	450361.58	39°43'58.5924"N	80°24'34.9449"W	20964.10	317.192	0.03	0.00	-0.03
29787.00	90.400	325.150	7677.62	20864.73	15458.12	-14300.08	1744102.03	450439.69	39°43'59.3589"N	80°24'35.6470"W	21058.15	317.229	0.34	-0.06	-0.34
29846.00	90.430	325.280	7677.19	20923.73	15506.57	-14333.74	1744068.37	450488.14	39°43'59.8344"N	80°24'36.0841"W	21116.57	317.251	0.23	0.05	0.22
29871.00‡	90.430	325.280	7677.00	20948.73	15527.12	-14347.97	1744054.13	450508.69	39°44'0.0360"N	80°24'36.2690"W	21141.33	317.260	0.00	0.00	0.00

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 Actual Wellpath Report
 Order ID: 29871
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WDTN-18A-HSM AWP Proj: 29871'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18A-HSM
Field	Monongalia	API	47-061-01944-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18A-HSM AWB
Slot	Slot A		

HOLE & CASING SECTIONS - Ref Wellbore: WDTN-18A-HSM AWB Ref Wellpath: WDTN-18A-HSM AWP Proj: 29871'									
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	0.03	-0.03
20in Conductor	28.00	69.00	41.00	28.00	69.00	0.00	0.00	0.03	-0.03
17.5in Open Hole	69.00	1124.00	1055.00	69.00	1123.99	0.03	-0.03	0.37	-3.33
13.375in Casing Surface	28.00	1124.00	1096.00	28.00	1123.99	0.00	0.00	0.37	-3.33
12.25in Open Hole	1124.00	2743.00	1619.00	1123.99	2742.53	0.37	-3.33	19.66	-34.91
9.625in Casing Intermediate	28.00	2743.00	2715.00	28.00	2742.53	0.00	0.00	19.66	-34.91
8.75in Open Hole	2743.00	6366.50	3623.50	2742.53	5921.17	19.66	-34.91	-1111.48	-1089.51
8.5in Open Hole	6366.50	29871.00	23504.50	5921.17	7677.00	-1111.48	-1089.51	15527.12	-14347.97
5.5in Casing Production	28.00	29871.00	29843.00	28.00	7677.00	0.00	0.00	15527.12	-14347.97

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
WDTN-18A-HSM BHL Rev-3	7696.00	15528.35	-14347.33	1744054.78	450509.91	39°44'0.0482"N	80°24'36.2609"W	point
WDTN-18A-HSM State Line Cross	7848.00	11076.85	-11230.37	1747171.55	446058.69	39°43'16.3667"N	80°23'55.7968"W	point
WDTN-18A-HSM LP Rev-3	7871.00	-1445.14	-2462.37	1755939.02	433537.46	39°41'13.4695"N	80°22'2.0476"W	point
WDTN-18 Marcellus North Lease Rev-2	8250.00	15833.44	-15232.43	1743169.73	450814.99	39°44'2.9745"N	80°24'47.6290"W	polygon
2D Polygon: dimensions not calculated								

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WDTN-18A-HSM AWP Proj: 29871'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18A-HSM
Field	Monongalia	API	47-061-01944-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18A-HSM AWB
Slot	Slot A		

WELLPATH COMPOSITION - Ref Wellbore: WDTN-18A-HSM AWB Ref Wellpath: WDTN-18A-HSM AWP Proj: 29871'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1050.00	Gyrodata 2015 - GC+WR+CAS	01 Gyrodata MS Gyro <17-1/2"> (113.5'-1035.5')	WDTN-18A-HSM AWB	2/16/2024
1050.00	2702.50	OWSG MWD rev2 + HRGM	02 Tally MWD <12-1/4"> (1035.5')(1136'-2688')	WDTN-18A-HSM AWB	2/16/2024
2702.50	6299.50	OWSG MWD rev2 + HRGM	03 Tally MWD <8-3/4"> (2688')(2754'-6285')	WDTN-18A-HSM AWB	2/16/2024
6299.50	29871.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6299.5')(6342'-29846')	WDTN-18A-HSM AWB	3/15/2024

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Actual Wellpath Report

WDTN-18A-HSM AWP Proj: 29871'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS CO, LLC	Well	WDTN-18A-HSM
Field	Monongalia	API	47-061-01944-0000
Facility	WDTN-18 Pad	Wellbore	WDTN-18A-HSM AWB
Slot	Slot A		

COMMENTS
<p>Wellpath general comments API: 47-061-01944-0000 BH Job #: 112148375 Rig: Precision 575 Duration: 3/20/2024-3/27/2024 Gyrodata MS Gyro <17-1/2"> (113.5'-1035.5') Tally MWD <12-1/4"> (1035.5')(1136'-2688') Tally MWD <8-3/4"> (2688')(2754'-6285') BH AT Curve <8-1/2"> (6299.5')(6342'-29846') Projected MD at TD: 29871'</p>

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