



Actual Wellpath Report

MAJ-6G-HSU AWP Proj: 18521'

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS COMPANY, LLC	Slot	Slot G
Area	Marshall County, WV	Well	MAJ-6G-HSU
Field	Marshall	Wellbore	MAJ-6G-HSU AWB
Facility	MAJ-6 Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Edsaryar
Scale	0.999955	Report Generated	26/Apr/2019 at 17:36
Convergence at slot	0.67° West	Database/Source file	WA_MPL_EASTERNUS_Defn/MAJ-6G-HSU_AWP_Proj_18521_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	9.03	-17.22	1705909.74	524261.85	39°56'04.809"N	80°32'55.521"W
Facility Reference Pt			1705926.96	524252.82	39°56'04.722"N	80°32'55.298"W
Field Reference Pt			1704323.48	525162.98	39°56'13.531"N	80°33'16.019"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 563 (RKB) to Facility Vertical Datum	1373.23ft
Horizontal Reference Pt	Slot	Patterson 563 (RKB) to Mean Sea Level	1373.23ft
Vertical Reference Pt	Patterson 563 (RKB)	Patterson 563 (RKB) to Mud Line at Slot (Slot G)	29.00ft
MD Reference Pt	Patterson 563 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	145.00°



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Area	Marshall County, WV	Well	MAJ-6G-HSU		
Field	Marshall	Wellbore	MAJ-6G-HSU AWB		
Facility	MAJ-6 Pad				

WELLPATH DATA (201 stations) † = Interpolated/extrapolated station															
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)			(ft)	(°)	(ft/100ft)	(ft/100ft)	(ft/100ft)
0.00†	0.000	243.300	0.00	0.00	0.00	0.00	1705909.74	524261.85	39°56'04.809"N	80°32'55.521"W	0.00	0.000	0.00	0.00	0.00
29.00	0.000	243.300	29.00	0.00	0.00	0.00	1705909.74	524261.85	39°56'04.809"N	80°32'55.521"W	0.00	0.000	0.00	0.00	0.00
67.00	0.100	243.300	67.00	0.00	-0.01	-0.03	1705909.71	524261.84	39°56'04.809"N	80°32'55.521"W	0.03	243.300	0.26	0.26	-307.11
117.00	0.180	198.290	117.00	0.04	-0.11	-0.09	1705909.65	524261.74	39°56'04.808"N	80°32'55.522"W	0.14	220.528	0.26	0.16	-90.02
167.00	0.010	75.300	167.00	0.08	-0.18	-0.11	1705909.63	524261.67	39°56'04.807"N	80°32'55.522"W	0.22	211.913	0.37	-0.34	-245.98
217.00	0.050	345.310	217.00	0.07	-0.16	-0.12	1705909.62	524261.69	39°56'04.807"N	80°32'55.522"W	0.20	215.649	0.10	0.08	-179.98
267.00	0.050	176.830	267.00	0.06	-0.16	-0.12	1705909.62	524261.69	39°56'04.807"N	80°32'55.522"W	0.20	216.541	0.20	0.00	-336.96
317.00	0.160	162.380	317.00	0.15	-0.25	-0.10	1705909.64	524261.60	39°56'04.807"N	80°32'55.522"W	0.27	201.254	0.22	0.22	-28.90
367.00	0.150	178.880	367.00	0.27	-0.38	-0.07	1705909.67	524261.47	39°56'04.805"N	80°32'55.522"W	0.39	191.065	0.09	-0.02	33.00
417.00	0.090	48.200	417.00	0.32	-0.42	-0.04	1705909.70	524261.43	39°56'04.805"N	80°32'55.521"W	0.42	185.974	0.44	-0.12	-261.36
467.00	0.070	63.710	467.00	0.32	-0.38	0.01	1705909.75	524261.47	39°56'04.805"N	80°32'55.520"W	0.38	178.099	0.06	-0.04	31.02
517.00	0.190	355.420	517.00	0.25	-0.28	0.03	1705909.77	524261.57	39°56'04.806"N	80°32'55.520"W	0.29	173.307	0.35	0.24	-136.58
567.00	0.120	100.180	567.00	0.22	-0.21	0.08	1705909.82	524261.64	39°56'04.807"N	80°32'55.520"W	0.23	159.663	0.50	-0.14	209.52
617.00	0.180	92.640	617.00	0.30	-0.22	0.21	1705909.95	524261.63	39°56'04.807"N	80°32'55.518"W	0.31	137.102	0.13	0.12	-15.08
667.00	0.190	121.960	667.00	0.43	-0.27	0.36	1705910.10	524261.58	39°56'04.806"N	80°32'55.516"W	0.45	127.264	0.19	0.02	58.64
717.00	0.210	97.140	717.00	0.57	-0.33	0.52	1705910.26	524261.52	39°56'04.806"N	80°32'55.514"W	0.61	122.242	0.18	0.04	-49.64
757.00	0.040	58.490	757.00	0.62	-0.33	0.60	1705910.34	524261.52	39°56'04.806"N	80°32'55.513"W	0.69	118.600	0.45	-0.43	-96.63
919.00	0.270	109.600	919.00	0.93	-0.43	1.01	1705910.75	524261.42	39°56'04.805"N	80°32'55.508"W	1.10	112.914	0.15	0.14	31.55
1014.00	0.390	94.400	1014.00	1.32	-0.53	1.54	1705911.28	524261.32	39°56'04.804"N	80°32'55.501"W	1.63	108.851	0.16	0.13	-16.00
1110.00	0.290	96.460	1109.99	1.69	-0.58	2.11	1705911.85	524261.27	39°56'04.804"N	80°32'55.494"W	2.19	105.350	0.10	-0.10	2.15
1205.00	0.220	70.190	1204.99	1.89	-0.54	2.52	1705912.26	524261.31	39°56'04.804"N	80°32'55.487"W	2.58	102.191	0.14	-0.07	-27.65
1300.00	0.120	244.750	1299.99	1.92	-0.53	2.60	1705912.34	524261.32	39°56'04.804"N	80°32'55.487"W	2.66	101.411	0.36	-0.11	183.75
1396.00	0.210	96.920	1395.99	2.02	-0.59	2.69	1705912.43	524261.26	39°56'04.804"N	80°32'55.486"W	2.75	102.374	0.33	0.09	-153.99
1491.00	0.180	308.820	1490.99	2.00	-0.52	2.74	1705912.48	524261.33	39°56'04.804"N	80°32'55.485"W	2.79	100.670	0.39	-0.03	-155.89
1586.00	0.250	318.330	1585.99	1.65	-0.27	2.49	1705912.23	524261.58	39°56'04.807"N	80°32'55.489"W	2.50	96.157	0.08	0.07	10.01
1682.00	0.090	98.680	1681.99	1.49	-0.12	2.42	1705912.16	524261.73	39°56'04.808"N	80°32'55.490"W	2.43	92.915	0.34	-0.17	146.20
1772.00	0.170	274.350	1776.99	1.45	-0.12	2.36	1705912.10	524261.73	39°56'04.808"N	80°32'55.493"W	2.36	93.071	0.27	0.08	184.92
1872.00	0.120	255.420	1871.99	1.33	-0.14	2.12	1705911.86	524261.71	39°56'04.808"N	80°32'55.493"W	2.13	93.733	0.07	-0.05	-19.93
1967.00	0.310	272.550	1966.99	1.14	-0.15	1.77	1705911.51	524261.70	39°56'04.808"N	80°32'55.498"W	1.77	94.914	0.21	0.20	18.03
2063.00	0.140	330.280	2062.99	0.86	-0.04	1.45	1705911.19	524261.81	39°56'04.809"N	80°32'55.502"W	1.45	91.525	0.27	-0.18	60.14



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Operator	CNX GAS COMPANY, LLC								
Area	Marshall County, WV								
Field	Marshall								
Facility	MAJ-6 Pad								
Slot	MAJ-6G-HSU								
Well	MAJ-6G-HSU AWP								
Wellbore	MAJ-6G-HSU AWP								

WELLPATH DATA (201 stations)															
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)	(°)	(°)	(ft)	(°)	(ft/100ft)	(ft/100ft)	(ft/100ft)
2158.00	0.240	282.220	2157.99	0.60	0.10	1.20	1705910.94	524261.95	39°56'04.810"N	80°32'55.505"W	1.20	85.027	0.19	0.11	-50.59
2253.00	0.160	337.770	2252.99	0.33	0.27	0.95	1705910.69	524262.12	39°56'04.812"N	80°32'55.509"W	0.99	74.242	0.21	-0.08	58.47
2348.00	0.100	210.070	2347.99	0.23	0.32	0.86	1705910.60	524262.17	39°56'04.812"N	80°32'55.510"W	0.92	69.625	0.25	-0.06	-134.42
2444.00	0.240	340.700	2443.99	0.07	0.44	0.75	1705910.49	524262.29	39°56'04.813"N	80°32'55.511"W	0.87	59.870	0.33	0.15	136.07
2539.00	0.210	170.220	2538.99	0.04	0.45	0.89	1705910.46	524262.30	39°56'04.814"N	80°32'55.512"W	0.85	57.997	0.47	-0.03	-179.45
2634.00	0.180	71.580	2633.99	0.24	0.33	0.82	1705910.63	524262.18	39°56'04.812"N	80°32'55.509"W	0.95	69.670	0.31	-0.03	-103.83
2730.00	0.270	330.400	2729.99	0.06	0.57	0.92	1705910.66	524262.42	39°56'04.815"N	80°32'55.509"W	1.08	58.060	0.37	0.09	-105.40
2825.00	0.120	193.450	2824.99	-0.10	0.67	0.79	1705910.53	524262.52	39°56'04.816"N	80°32'55.511"W	1.03	49.508	0.39	-0.16	-144.16
2920.00	0.100	242.500	2919.99	-0.04	0.54	0.69	1705910.43	524262.39	39°56'04.814"N	80°32'55.512"W	0.87	52.126	0.10	-0.02	51.63
3015.00	0.220	299.710	3014.99	-0.22	0.59	0.46	1705910.20	524262.44	39°56'04.815"N	80°32'55.515"W	0.75	37.877	0.20	0.13	60.22
3111.00	0.230	309.390	3110.99	-0.57	0.80	0.15	1705909.89	524262.65	39°56'04.817"N	80°32'55.519"W	0.82	10.510	0.04	0.01	10.08
3206.00	0.270	78.390	3205.99	-0.67	0.97	0.22	1705909.96	524262.82	39°56'04.819"N	80°32'55.518"W	0.99	12.841	0.48	0.04	135.75
3238.00	0.330	346.620	3237.99	-0.72	1.07	0.27	1705910.01	524262.92	39°56'04.820"N	80°32'55.517"W	1.11	14.286	1.35	0.19	-286.78
3265.00	0.280	22.770	3264.99	-0.83	1.21	0.28	1705910.02	524263.06	39°56'04.821"N	80°32'55.517"W	1.24	13.069	0.72	-0.19	133.89
3360.00	0.790	43.760	3359.98	-1.08	1.90	0.82	1705910.56	524263.75	39°56'04.828"N	80°32'55.510"W	2.07	23.473	0.57	0.54	22.09
3455.00	4.350	49.010	3454.87	-1.58	4.73	4.00	1705913.74	524266.58	39°56'04.856"N	80°32'55.470"W	6.20	40.177	3.75	3.75	5.53
3550.00	5.860	47.200	3549.49	-2.62	10.39	10.28	1705920.01	524272.24	39°56'04.913"N	80°32'55.390"W	14.61	44.676	1.60	1.59	-1.91
3645.00	6.240	40.780	3643.96	-4.55	17.60	17.21	1705926.95	524279.45	39°56'04.985"N	80°32'55.303"W	24.61	44.356	0.82	0.40	-6.76
3740.00	7.230	40.730	3738.31	-7.29	26.04	24.48	1705934.22	524287.89	39°56'05.069"N	80°32'55.210"W	35.74	43.234	1.04	1.04	-0.05
3835.00	8.970	45.630	3832.36	-9.97	35.75	33.67	1705943.41	524297.60	39°56'05.166"N	80°32'55.094"W	49.11	43.290	1.97	1.83	5.16
3930.00	10.880	49.650	3925.93	-12.01	46.73	45.80	1705955.54	524308.58	39°56'05.276"N	80°32'54.940"W	65.44	44.425	2.14	2.01	4.23
4024.00	11.820	50.730	4018.09	-13.55	58.57	60.02	1705969.75	524320.42	39°56'05.395"N	80°32'54.759"W	83.86	45.699	1.03	1.00	1.15
4119.00	12.310	51.700	4110.99	-14.86	71.01	75.50	1705985.23	524332.85	39°56'05.519"N	80°32'54.552"W	103.64	46.756	0.56	0.52	1.02
4214.00	14.070	51.360	4203.48	-16.18	84.49	92.47	1706002.20	524346.34	39°56'05.655"N	80°32'54.346"W	125.26	47.580	1.85	1.85	-0.36
4312.00	14.730	50.540	4298.40	-17.90	99.85	111.39	1706021.12	524361.70	39°56'05.809"N	80°32'54.106"W	149.59	48.127	0.70	0.67	-0.84
4407.00	14.190	48.140	4390.39	-20.23	115.30	129.39	1706039.12	524377.14	39°56'05.963"N	80°32'53.877"W	173.30	48.296	0.85	-0.57	-2.53
4502.00	14.960	45.440	4482.34	-23.66	131.67	146.80	1706056.53	524393.51	39°56'06.127"N	80°32'53.656"W	197.20	48.109	1.08	0.81	-2.84
4597.00	14.290	45.930	4574.26	-27.54	148.43	163.96	1706073.69	524410.27	39°56'06.295"N	80°32'53.438"W	221.16	47.846	0.72	-0.71	0.52
4692.00	13.580	44.660	4666.46	-31.39	164.52	180.22	1706089.95	524426.36	39°56'06.456"N	80°32'53.232"W	244.02	47.608	0.81	-0.75	-1.34
4787.00	13.670	44.940	4758.79	-35.36	180.40	195.99	1706105.72	524442.24	39°56'06.614"N	80°32'53.032"W	266.37	47.372	0.12	0.09	0.29



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Area	Marshall County, WV	Well	MAJ-6G-HSU
Field	Marshall	Wellbore	MAJ-6G-HSU AWB
Facility	MAJ-6 Pad		

WELLPATH DATA (201 stations)

MD (ft)	Inclination I ¹	Azimuth I ²	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir I ³	DLS F/100ft	Build Rate F/100ft	Turn Rate F/100ft
4882.00	13.500	48.730	4851.13	-38.53	195.66	212.25	1706121.98	524457.50	39°56'06.767"N	80°32'52.826"W	288.68	47.330	0.95	-0.18	3.99
4977.00	14.000	53.390	4943.41	-40.06	209.82	229.81	1706139.54	524471.66	39°56'06.909"N	80°32'52.602"W	311.19	47.603	1.28	0.53	4.91
5072.00	17.020	57.580	5034.95	-39.76	224.14	250.78	1706160.51	524485.97	39°56'07.053"N	80°32'52.335"W	336.34	48.211	3.39	3.18	4.41
5167.00	17.380	52.740	5125.70	-39.69	240.18	273.81	1706183.54	524502.02	39°56'07.214"N	80°32'52.042"W	364.22	48.743	1.55	0.38	-5.09
5262.00	14.100	46.310	5217.13	-42.00	256.77	293.48	1706203.20	524518.61	39°56'07.380"N	80°32'51.792"W	389.95	48.817	3.91	-3.45	-6.77
5360.00	14.620	43.210	5312.07	-46.33	274.03	310.58	1706220.30	524535.87	39°56'07.553"N	80°32'51.575"W	414.19	48.579	0.95	0.53	-3.16
5455.00	15.030	43.190	5403.91	-51.30	291.75	327.22	1706236.94	524553.59	39°56'07.730"N	80°32'51.364"W	438.39	48.279	0.43	0.43	-0.02
5550.00	13.360	46.620	5496.01	-55.42	308.27	343.63	1706253.35	524570.11	39°56'07.895"N	80°32'51.156"W	461.64	48.104	1.97	-1.76	3.61
5645.00	13.610	50.020	5588.39	-57.99	322.99	360.17	1706269.89	524584.83	39°56'08.042"N	80°32'50.946"W	483.78	48.115	0.87	0.26	3.58
5825.00	15.250	46.380	5772.39	-63.68	354.60	395.39	1706305.11	524616.43	39°56'08.359"N	80°32'50.499"W	531.10	48.114	0.99	0.86	-1.92
5924.00	13.710	48.870	5858.57	-66.56	369.61	411.81	1706321.53	524631.44	39°56'08.509"N	80°32'50.290"W	553.35	48.091	1.87	-1.73	2.80
6019.00	13.970	51.610	5950.81	-68.44	384.14	429.28	1706339.00	524645.97	39°56'08.655"N	80°32'50.068"W	576.05	48.176	0.74	0.27	2.88
6113.00	14.820	52.300	6041.86	-69.68	398.53	447.68	1706357.40	524660.36	39°56'08.799"N	80°32'49.834"W	599.37	48.324	0.92	0.90	0.73
6208.00	16.110	50.900	6133.42	-71.19	414.28	467.53	1706377.24	524676.11	39°56'08.957"N	80°32'49.551"W	624.66	48.456	1.41	1.36	-1.47
6304.00	16.070	49.950	6225.66	-73.32	431.23	488.03	1706397.75	524693.06	39°56'09.127"N	80°32'49.321"W	651.25	48.536	0.28	-0.04	-0.99
6398.00	16.300	47.800	6315.93	-76.11	448.46	507.76	1706417.48	524710.29	39°56'09.299"N	80°32'49.070"W	677.45	48.549	0.68	0.24	-2.29
6491.00	14.720	46.990	6405.54	-79.40	465.29	526.07	1706435.79	524727.11	39°56'09.468"N	80°32'48.838"W	702.31	48.509	1.71	-1.70	-0.87
6586.00	14.400	45.670	6497.49	-82.99	481.77	543.35	1706453.06	524743.60	39°56'09.633"N	80°32'48.618"W	726.18	48.437	0.49	-0.34	-1.39
6681.00	13.350	50.060	6589.72	-85.85	497.07	560.21	1706469.92	524758.90	39°56'09.786"N	80°32'48.404"W	748.94	48.418	1.56	-1.11	4.62
6776.00	12.590	50.700	6682.30	-87.57	510.67	576.63	1706486.34	524772.50	39°56'09.922"N	80°32'48.195"W	770.25	48.472	0.81	-0.80	0.67
6870.00	10.670	50.130	6774.36	-89.08	522.74	591.24	1706500.95	524784.56	39°56'10.043"N	80°32'48.010"W	789.19	48.519	2.05	-2.04	-0.61
6965.00	9.220	49.520	6867.93	-90.55	533.32	603.78	1706513.49	524795.14	39°56'10.149"N	80°32'47.850"W	805.59	48.571	1.53	-1.53	-0.64
7063.00	7.760	50.550	6964.85	-91.82	542.62	614.86	1706524.57	524804.44	39°56'10.242"N	80°32'47.709"W	820.05	48.571	1.50	-1.49	1.05
7158.00	5.450	53.890	7059.22	-92.40	549.35	623.46	1706533.17	524811.18	39°56'10.310"N	80°32'47.600"W	830.96	48.615	2.46	-2.43	3.52
7253.00	4.800	52.170	7153.84	-92.69	554.45	630.24	1706539.95	524816.27	39°56'10.361"N	80°32'47.514"W	839.42	48.661	0.70	-0.68	-1.81
7347.00	1.500	22.370	7247.69	-93.54	558.00	633.82	1706543.53	524819.82	39°56'10.396"N	80°32'47.468"W	844.45	48.640	3.81	-3.51	-31.70
7454.00	1.330	253.500	7354.67	-94.69	558.94	633.13	1706542.87	524820.77	39°56'10.405"N	80°32'47.477"W	844.58	48.562	2.27	-0.16	-120.44
7549.00	1.330	242.420	7449.65	-95.18	558.12	631.13	1706540.84	524819.94	39°56'10.397"N	80°32'47.503"W	842.51	48.513	0.29	0.00	-11.66
7738.00	1.000	223.940	7638.61	-95.15	555.92	628.04	1706533.75	524817.74	39°56'10.375"N	80°32'47.542"W	838.73	48.486	0.26	-0.17	-9.78
7833.00	0.850	216.050	7733.60	-94.77	554.75	627.05	1706536.76	524816.57	39°56'10.363"N	80°32'47.555"W	837.22	48.501	0.21	-0.16	-8.31



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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot G
Operator	CNX GAS COMPANY, LLC	Well	MAJ-6G-HSU
Area	Marshall County, WV	Wellbore	MAJ-6G-HSU AWB
Field	Marshall		
Facility	MAJ-6 Pad		

WELLPATH DATA (201 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 ft/100ft	Build Rate ft/100ft	Turn Rate ft/100ft
8022.00	1.490	214.950	7922.56	-93.47	551.60	624.81	1706534.53	524813.43	39°56'10.332"N	80°32'47.583"W	833.46	48.561	0.34	0.34	-0.58
8116.00	1.820	218.610	8016.52	-92.63	549.43	623.18	1706532.89	524811.26	39°56'10.310"N	80°32'47.604"W	830.80	48.559	0.37	0.35	3.89
8211.00	1.800	224.750	8111.47	-91.94	547.20	621.19	1706530.90	524809.02	39°56'10.288"N	80°32'47.629"W	827.83	48.624	0.21	-0.02	6.46
8309.00	2.070	229.000	8209.41	-91.48	544.94	618.77	1706528.48	524806.72	39°56'10.265"N	80°32'47.660"W	824.52	48.630	0.31	0.28	4.34
8404.00	1.940	230.710	8304.35	-91.18	542.80	616.23	1706525.94	524804.62	39°56'10.244"N	80°32'47.692"W	821.20	48.625	0.15	-0.14	1.80
8499.00	1.810	232.060	8399.30	-90.98	540.86	613.80	1706523.52	524802.68	39°56'10.225"N	80°32'47.723"W	818.10	48.615	0.14	-0.14	1.42
8594.00	1.950	236.360	8494.25	-90.94	539.04	611.28	1706520.99	524800.86	39°56'10.206"N	80°32'47.755"W	815.00	48.593	0.21	0.15	4.53
8689.00	2.140	233.310	8589.19	-90.93	537.08	608.51	1706518.22	524798.91	39°56'10.187"N	80°32'47.790"W	811.63	48.568	0.23	0.20	-3.21
8784.00	2.140	233.370	8684.13	-90.82	534.97	605.66	1706515.37	524796.79	39°56'10.165"N	80°32'47.826"W	808.09	48.547	0.00	0.00	0.06
8974.00	2.450	217.860	8873.98	-89.53	529.64	600.32	1706510.03	524791.47	39°56'10.112"N	80°32'47.894"W	800.57	48.579	0.36	0.16	-8.16
9069.00	2.510	207.460	8968.89	-88.11	526.27	597.98	1706507.70	524788.10	39°56'10.079"N	80°32'47.924"W	796.58	48.650	0.29	0.06	-6.49
9163.00	2.700	211.690	9062.79	-86.27	522.55	595.88	1706505.59	524784.38	39°56'10.042"N	80°32'47.950"W	792.55	48.751	0.29	0.20	-4.50
9258.00	2.840	204.960	9157.68	-84.05	518.43	593.86	1706503.57	524780.26	39°56'10.001"N	80°32'47.975"W	788.32	48.879	0.19	0.15	-2.63
9353.00	2.180	203.430	9252.59	-81.93	514.64	592.15	1706501.86	524776.47	39°56'09.963"N	80°32'47.997"W	784.53	49.006	0.70	-0.69	-1.61
9448.00	2.090	198.950	9347.52	-79.97	511.35	590.86	1706500.58	524773.17	39°56'09.930"N	80°32'48.013"W	781.41	49.126	0.20	-0.09	-4.72
9543.00	2.010	192.280	9442.46	-77.82	508.08	589.95	1706499.66	524769.91	39°56'09.898"N	80°32'48.024"W	778.58	49.264	0.26	-0.08	-7.02
9726.00	4.390	181.840	9625.16	-70.03	487.94	589.04	1706498.75	524769.77	39°56'09.798"N	80°32'48.034"W	771.31	49.791	1.33	1.30	-5.70
9825.00	5.310	176.880	9723.81	-63.11	489.58	589.17	1706498.88	524751.41	39°56'09.715"N	80°32'48.031"W	766.03	50.274	1.02	0.93	-5.01
9920.00	5.760	173.370	9818.36	-55.18	480.46	589.96	1706499.67	524742.28	39°56'09.625"N	80°32'48.020"W	760.85	50.841	0.59	0.47	-3.69
10015.00	6.020	163.900	9912.87	-46.27	470.94	591.89	1706501.60	524732.76	39°56'09.531"N	80°32'47.994"W	756.38	51.493	1.06	0.27	-9.97
10110.00	6.030	159.980	10007.34	-36.74	461.46	594.98	1706504.69	524732.29	39°56'09.438"N	80°32'47.952"W	752.96	52.203	0.43	0.01	-4.13
10205.00	6.540	158.720	10101.77	-26.66	451.73	598.65	1706508.36	524733.56	39°56'09.342"N	80°32'47.904"W	749.96	52.962	0.56	0.54	-1.33
10300.00	7.230	154.180	10196.09	-15.51	441.31	603.22	1706512.93	524703.14	39°56'09.240"N	80°32'47.844"W	747.41	53.811	0.92	0.73	-4.78
10394.00	7.600	153.930	10289.30	-3.53	430.40	608.53	1706518.24	524692.23	39°56'09.132"N	80°32'47.774"W	745.35	54.729	0.40	0.39	-0.27
10489.00	7.820	152.420	10383.44	9.09	419.03	614.28	1706523.99	524680.86	39°56'09.021"N	80°32'47.698"W	743.59	55.700	0.31	0.23	-1.59
10584.00	8.360	150.820	10477.47	22.37	407.27	620.64	1706530.35	524669.10	39°56'08.905"N	80°32'47.615"W	742.33	56.727	0.62	0.57	-1.68
10679.00	9.290	153.280	10571.39	36.83	394.39	627.45	1706537.16	524656.22	39°56'08.779"N	80°32'47.526"W	741.11	57.848	1.06	0.98	-2.59
10872.00	10.350	151.610	10761.54	69.46	365.22	642.70	1706552.41	524652.06	39°56'08.492"N	80°32'47.326"W	739.22	60.392	0.57	0.55	-0.87
10966.00	11.980	152.170	10853.76	87.53	349.17	651.27	1706560.98	524611.00	39°56'08.335"N	80°32'47.213"W	738.97	61.803	1.74	1.73	0.60
11029.00	13.030	153.440	10915.26	101.05	337.03	657.50	1706567.21	524598.87	39°56'08.215"N	80°32'47.131"W	738.85	62.861	1.72	1.67	2.02



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REFERENCE WELLPATH IDENTIFICATION		Operator	CNX GAS COMPANY, LLC	Slot	Slot G
Area	Marshall County, WV	Well	MAJ-6G-HSU		
Field	Marshall	Wellbore	MAJ-6G-HSU AWB		
Facility	MAJ-6 Pad				

WELLPATH DATA (201 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]
11034.00	13.040	153.570	10920.13	102.16	336.02	658.00	1706567.71	524597.86	39°56'08.205"N	80°32'47.125"W	738.84	62.948	0.62	0.20	2.60
11129.00	11.420	133.100	11013.02	121.97	319.99	669.65	1706579.36	524581.83	39°56'08.048"N	80°32'46.973"W	742.17	64.459	4.84	-1.71	-21.55
11224.00	10.020	85.270	11106.53	135.37	314.23	684.78	1706594.49	524576.07	39°56'07.993"N	80°32'46.778"W	753.44	65.350	9.20	-1.47	-50.35
11318.00	10.410	71.110	11199.06	141.85	317.66	700.97	1706610.67	524579.49	39°56'08.029"N	80°32'46.570"W	769.59	65.621	2.70	0.41	-15.06
11413.00	12.840	67.030	11292.10	146.43	324.56	718.81	1706628.52	524586.39	39°56'08.099"N	80°32'46.342"W	788.69	65.700	2.70	2.56	-4.29
11508.00	17.210	57.820	11383.85	149.32	336.17	740.44	1706650.14	524598.08	39°56'08.216"N	80°32'46.067"W	813.18	65.581	5.23	4.60	-9.69
11603.00	20.900	67.920	11473.65	153.81	350.03	768.05	1706677.76	524611.87	39°56'08.357"N	80°32'45.714"W	844.05	65.499	5.20	65.499	10.63
11697.00	27.500	76.390	11559.37	165.49	361.46	804.73	1706714.44	524623.29	39°56'08.474"N	80°32'45.245"W	882.18	65.812	7.92	7.02	9.01
11792.00	34.870	84.400	11640.62	186.86	369.28	853.16	1706762.86	524631.12	39°56'08.557"N	80°32'44.625"W	929.66	66.595	8.89	7.76	8.43
11887.00	43.440	95.600	11714.31	221.55	368.74	912.88	1706822.58	524630.58	39°56'08.558"N	80°32'43.858"W	984.54	68.005	11.67	9.02	11.79
11982.00	52.190	102.810	11778.09	270.74	357.21	982.17	1706891.86	524619.04	39°56'08.452"N	80°32'42.967"W	1045.11	70.014	10.78	9.21	7.59
12076.00	59.700	106.450	11830.70	330.09	337.45	1057.42	1706967.11	524599.28	39°56'08.266"N	80°32'41.998"W	1109.96	72.301	8.61	7.99	3.87
12171.00	66.660	110.190	11873.55	398.07	310.74	1137.80	1707047.49	524572.58	39°56'08.011"N	80°32'40.962"W	1179.47	74.725	8.12	7.33	3.94
12266.00	73.720	113.830	11905.74	473.01	277.22	1220.58	1707130.26	524539.05	39°56'07.689"N	80°32'39.895"W	1251.66	77.204	8.26	7.43	3.83
12360.00	81.440	116.410	11925.94	552.56	238.25	1303.61	1707213.29	524500.09	39°56'07.314"N	80°32'38.823"W	1325.20	79.643	8.64	8.21	2.74
12455.00	88.550	120.410	11936.23	637.12	193.25	1386.77	1707296.45	524455.09	39°56'06.878"N	80°32'37.749"W	1400.17	82.067	8.58	7.48	4.21
12550.00	88.950	124.940	11936.30	724.96	141.98	1466.70	1707451.79	524346.14	39°56'06.381"N	80°32'36.715"W	1473.55	84.471	4.79	0.42	5.20
12645.00	88.980	129.880	11938.02	815.47	84.30	1542.12	1707451.79	524346.14	39°56'05.820"N	80°32'35.738"W	1544.42	86.871	5.20	0.03	5.20
12739.00	89.020	138.460	11939.66	907.70	18.87	1609.47	1707519.14	524280.72	39°56'05.181"N	80°32'34.864"W	1609.58	89.328	9.13	0.04	9.13
12834.00	88.980	145.910	11941.32	1002.50	-56.11	1667.67	1707577.33	524205.74	39°56'04.446"N	80°32'34.106"W	1668.61	91.927	7.84	-0.04	7.84
12929.00	88.980	148.020	11944.01	1097.42	-135.74	1719.44	1707629.10	524126.12	39°56'03.665"N	80°32'33.429"W	1724.79	94.514	2.22	0.00	2.22
13023.00	89.020	146.950	11946.65	1191.32	-214.99	1769.96	1707679.62	524046.87	39°56'02.888"N	80°32'32.769"W	1782.97	96.926	1.14	0.04	-1.14
13118.00	89.050	141.810	11946.26	1286.27	-292.18	1825.27	1707734.92	523969.68	39°56'02.132"N	80°32'32.048"W	1848.50	99.094	5.41	0.03	-5.41
13225.00	89.320	142.370	11947.78	1393.12	-376.59	1891.00	1707800.65	523885.28	39°56'01.305"N	80°32'31.191"W	1928.14	101.263	0.58	0.25	0.52
13319.00	89.750	143.640	11948.54	1487.06	-451.66	1947.56	1707857.21	523810.21	39°56'00.570"N	80°32'30.454"W	1999.25	103.057	1.43	0.46	1.35
13414.00	90.280	144.260	11948.52	1582.04	-528.47	2003.47	1707913.12	523733.40	39°55'59.817"N	80°32'29.725"W	2072.00	104.777	0.86	0.56	0.65
13509.00	89.480	144.740	11949.67	1677.04	-605.81	2058.63	1707968.28	523656.07	39°55'59.059"N	80°32'29.006"W	2145.92	106.398	0.98	-0.84	0.51
13603.00	89.350	144.020	11949.81	1771.00	-682.22	2113.38	1708023.10	523579.66	39°55'58.310"N	80°32'28.291"W	2220.76	107.891	0.78	-0.14	-0.77
13698.00	89.380	143.610	11950.73	1866.00	-758.89	2169.46	1708079.02	523503.00	39°55'57.559"N	80°32'27.560"W	2298.36	109.280	0.43	0.03	-0.43
13793.00	89.350	143.810	11951.78	1960.97	-835.46	2225.69	1708135.32	523426.43	39°55'56.809"N	80°32'26.827"W	2377.32	110.575	0.21	-0.03	0.21



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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS COMPANY, LLC	Slot	Slot G
Area	Marshall County, WV	Well	MAJ-6G-HSU
Field	Marshall	Wellbore	MAJ-6G-HSU AWB
Facility	MAJ-6 Pad		

WELLPATH DATA (201 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 ft/100ft	Build Rate ft/100ft	Turn Rate ft/100ft
13887.00	89.230	143.260	11962.94	2054.93	-911.05	2281.55	1708191.18	5233350.84	39°55'56.068"N	80°32'26.099"W	2456.72	111.767	0.60	-0.13	-0.59
13982.00	89.480	144.100	11954.01	2149.90	-987.59	2337.81	1708247.44	523274.31	39°55'55.318"N	80°32'25.365"W	2537.85	112.901	0.92	0.26	0.88
14077.00	89.450	144.930	11954.90	2244.89	-1064.94	2392.96	1708302.58	523186.96	39°55'54.560"N	80°32'24.646"W	2619.22	113.991	0.87	-0.03	0.87
14172.00	89.290	145.790	11955.95	2339.88	-1143.09	2446.95	1708356.58	523118.81	39°55'53.794"N	80°32'23.941"W	2700.78	115.040	0.92	-0.17	0.91
14267.00	89.050	146.480	11957.32	2434.85	-1221.97	2499.88	1708409.51	523039.94	39°55'52.201"N	80°32'23.250"W	2782.56	116.050	0.77	-0.25	0.73
14361.00	89.110	146.980	11958.83	2528.80	-1300.55	2551.44	1708461.06	522961.36	39°55'51.250"N	80°32'22.577"W	2863.79	117.009	0.54	0.06	0.53
14456.00	89.020	147.530	11960.38	2623.71	-1380.44	2602.82	1708512.44	522881.47	39°55'51.467"N	80°32'21.905"W	2946.24	117.940	0.59	-0.09	0.58
14551.00	89.320	148.270	11961.76	2718.58	-1460.91	2653.30	1708562.92	522801.01	39°55'50.677"N	80°32'21.245"W	3028.90	118.837	0.84	0.32	0.78
14645.00	89.010	148.020	11963.13	2812.43	-1540.74	2702.91	1708612.52	522721.18	39°55'49.894"N	80°32'20.597"W	3111.20	119.685	0.42	-0.33	-0.27
14740.00	89.200	146.790	11964.61	2907.33	-1620.77	2754.07	1708663.69	522641.16	39°55'49.109"N	80°32'19.928"W	3195.59	120.477	1.31	0.20	-1.29
14834.00	89.050	146.820	11966.05	3001.27	-1699.42	2805.53	1708715.14	522562.51	39°55'48.338"N	80°32'19.256"W	3280.10	121.205	1.30	-0.16	0.03
14928.00	89.080	145.600	11967.58	3095.24	-1777.53	2857.80	1708767.41	522484.40	39°55'47.572"N	80°32'18.574"W	3365.51	121.881	1.30	0.03	-1.30
15023.00	88.980	144.710	11969.19	3190.22	-1855.49	2912.07	1708821.68	522406.45	39°55'46.808"N	80°32'17.865"W	3452.97	122.504	0.94	-0.11	-0.94
15117.00	88.980	143.260	11970.86	3284.19	-1931.50	2967.33	1708876.94	522330.44	39°55'46.063"N	80°32'17.145"W	3540.59	123.061	1.54	0.00	-1.54
15212.00	89.230	143.310	11972.35	3379.13	-2007.65	3024.12	1708933.72	522254.29	39°55'45.317"N	80°32'16.405"W	3629.87	123.579	0.27	0.26	0.05
15306.00	89.260	143.800	11973.59	3473.10	-2083.26	3079.96	1708989.55	522178.69	39°55'44.576"N	80°32'15.677"W	3718.35	124.074	0.52	0.97	0.52
15400.00	88.770	144.570	11975.20	3567.07	-2159.47	3134.95	1709044.55	522102.48	39°55'44.829"N	80°32'14.960"W	3806.74	124.560	0.97	-0.52	0.82
15494.00	88.770	143.210	11977.22	3661.03	-2235.39	3190.34	1709099.93	522026.56	39°55'43.085"N	80°32'14.238"W	3895.54	125.018	1.45	0.00	-1.45
15589.00	88.740	143.340	11979.28	3755.97	-2311.52	3247.13	1709156.72	521950.44	39°55'42.339"N	80°32'13.497"W	3985.85	125.446	0.14	-0.03	0.14
15683.00	89.450	143.560	11980.77	3849.92	-2387.02	3303.10	1709212.69	521874.94	39°55'41.600"N	80°32'12.768"W	4075.34	125.854	0.79	0.76	0.23
15778.00	90.180	143.110	11981.07	3944.88	-2463.23	3359.83	1709269.41	521798.74	39°55'40.853"N	80°32'12.028"W	4166.05	126.247	0.90	0.90	-0.47
15872.00	89.420	143.000	11981.40	4038.82	-2538.35	3416.33	1709325.91	521723.62	39°55'40.117"N	80°32'11.292"W	4256.12	126.613	0.82	-0.81	-0.12
15966.00	89.200	143.940	11982.53	4132.78	-2613.88	3472.28	1709381.86	521648.09	39°55'39.377"N	80°32'10.563"W	4346.16	126.972	1.03	-0.23	1.00
16060.00	88.980	142.960	11984.03	4226.73	-2689.38	3528.25	1709437.82	521572.59	39°55'38.637"N	80°32'09.833"W	4436.36	127.316	1.07	-0.23	-1.04
16155.00	89.290	144.680	11985.46	4321.70	-2766.05	3584.32	1709493.89	521496.93	39°55'37.886"N	80°32'09.102"W	4527.52	127.658	1.84	0.33	1.81
16248.00	89.320	145.470	11986.59	4414.69	-2842.29	3637.56	1709547.13	521421.69	39°55'37.139"N	80°32'08.408"W	4616.89	128.003	0.85	0.03	0.85
16343.00	89.570	146.030	11987.57	4509.68	-2920.82	3691.02	1709600.59	521341.17	39°55'36.369"N	80°32'07.710"W	4706.83	128.356	0.65	0.26	0.59
16430.00	88.490	146.090	11988.98	4596.65	-2992.98	3739.59	1709654.16	521266.01	39°55'35.661"N	80°32'07.076"W	4789.83	128.672	1.24	-1.24	0.07
16525.00	88.400	146.880	11991.56	4691.58	-3072.16	3792.03	1709701.59	521189.84	39°55'34.885"N	80°32'06.391"W	4880.33	129.013	0.84	-0.09	0.83
16619.00	88.430	146.710	11994.16	4785.50	-3150.78	3843.48	1709753.04	521111.22	39°55'34.114"N	80°32'05.719"W	4969.89	129.344	0.18	0.03	-0.18



Actual Wellpath Report

MAJ-6G-HSU AWP Proj: 18521'

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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot G
Operator	CNX GAS COMPANY, LLC	Well	MAJ-6G-HSU
Area	Marshall County, WV	Wellbore	MAJ-6G-HSU AWP
Field	Marshall		
Facility	MAJ-6 Pad		

WELLPATH DATA (201 stations)															
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)			(ft)	(°)	(°/100ft)	(°/100ft)	(°/100ft)
16714.00	88.950	146.500	11996.33	4880.44	-3230.07	3895.76	1709805.32	521031.93	39°55'33.336"N	80°32'05.036"W	5060.66	129.663	0.59	0.55	-0.22
16808.00	89.420	146.420	11997.67	4974.40	-3308.41	3947.69	1709857.24	520953.59	39°55'32.568"N	80°32'04.358"W	5150.71	129.965	0.51	0.50	-0.09
16903.00	89.350	145.900	11998.69	5069.37	-3387.32	4000.59	1709910.14	520874.69	39°55'31.794"N	80°32'03.668"W	5242.01	130.255	0.55	-0.07	-0.55
16997.00	89.320	146.040	11999.78	5163.35	-3465.21	4053.19	1709962.74	520796.80	39°55'31.030"N	80°32'02.981"W	5332.55	130.528	0.15	-0.03	0.15
17092.00	89.320	146.120	12000.91	5258.33	-3544.04	4106.20	1710015.75	520717.98	39°55'30.257"N	80°32'02.289"W	5424.12	130.797	0.08	0.00	0.08
17186.00	89.350	145.580	12002.00	5352.31	-3621.83	4158.96	1710068.51	520640.19	39°55'29.495"N	80°32'01.600"W	5514.94	131.051	0.58	0.03	-0.57
17281.00	89.320	145.070	12003.10	5447.30	-3699.95	4213.01	1710122.55	520562.08	39°55'28.729"N	80°32'00.895"W	5607.05	131.290	0.54	-0.03	-0.54
17376.00	89.170	144.420	12004.35	5542.29	-3777.52	4267.84	1710177.38	520484.51	39°55'27.969"N	80°32'00.180"W	5699.48	131.512	0.70	-0.16	-0.68
17470.00	89.230	144.750	12005.67	5636.28	-3854.12	4322.31	1710231.84	520407.91	39°55'27.218"N	80°31'59.470"W	5791.07	131.723	0.36	0.06	0.35
17565.00	89.170	144.570	12006.99	5731.27	-3931.60	4377.25	1710286.79	520330.43	39°55'26.458"N	80°31'58.753"W	5883.69	131.930	0.20	-0.06	-0.19
17660.00	89.170	144.620	12008.37	5826.26	-4009.03	4432.28	1710341.82	520253.01	39°55'25.699"N	80°31'58.035"W	5976.41	132.130	0.05	0.00	0.05
17754.00	89.230	144.530	12009.68	5920.25	-4085.62	4486.76	1710396.29	520176.42	39°55'24.949"N	80°31'57.325"W	6068.22	132.321	0.12	0.06	-0.10
17849.00	89.230	144.570	12010.96	6015.23	-4163.00	4541.86	1710451.39	520099.04	39°55'24.190"N	80°31'56.606"W	6161.09	132.508	0.04	0.00	0.04
17944.00	89.230	145.250	12012.23	6110.22	-4240.73	4596.47	1710505.99	520021.32	39°55'23.428"N	80°31'55.894"W	6253.90	132.695	0.72	0.00	0.72
18039.00	89.260	145.470	12013.49	6205.21	-4318.88	4650.46	1710559.98	519943.17	39°55'22.662"N	80°31'55.190"W	6346.61	132.883	0.23	0.03	0.23
18133.00	89.200	145.890	12014.75	6299.20	-4396.51	4703.45	1710612.97	519865.55	39°55'21.901"N	80°31'54.498"W	6438.30	133.068	0.45	-0.06	0.45
18228.00	89.230	144.720	12016.05	6394.19	-4474.61	4757.52	1710667.04	519787.45	39°55'21.136"N	80°31'53.793"W	6531.17	133.245	1.23	0.03	-1.23
18322.00	89.200	144.130	12017.34	6488.17	-4551.06	4812.20	1710721.72	519711.01	39°55'20.386"N	80°31'53.079"W	6623.40	133.402	0.63	-0.03	-0.63
18417.00	89.200	144.960	12018.67	6583.16	-4628.43	4867.30	1710776.82	519633.63	39°55'19.628"N	80°31'52.361"W	6716.62	133.559	0.87	0.00	0.87
18496.00	89.200	145.520	12019.77	6662.15	-4693.33	4912.34	1710821.85	519568.74	39°55'18.992"N	80°31'51.773"W	6794.00	133.694	0.71	0.00	0.71
18521.00	89.200	145.520	12020.12	6687.15	-4713.93	4926.49	1710836.00	519548.14	39°55'18.790"N	80°31'51.589"W	6818.47	133.737	0.00	0.00	0.00



Actual Wellpath Report

MAJ-6G-HSU AWP Proj: 18521'
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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS COMPANY, LLC	Slot	MAJ-6G-HSU
Area	Marshall County, WV	Well	MAJ-6G-HSU
Field	Marshall	Wellbore	MAJ-6G-HSU AWB
Facility	MAJ-6 Pad		

HOLE & CASING SECTIONS - Ref Wellbore: MAJ-6G-HSU AWB Ref Wellpath: MAJ-6G-HSU AWP Proj: 18521'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start EW [ft]	End N/S [ft]	End EW [ft]
36in Open Hole	29.00	94.00	65.00	29.00	94.00	0.00	0.00	-0.05	-0.07
30in Conductor	29.00	94.00	65.00	29.00	94.00	0.00	0.00	-0.05	-0.07
24in Open Hole	94.00	895.00	801.00	94.00	895.00	-0.05	-0.07	-0.39	0.91
18.625in Casing Surface	29.00	895.00	866.00	29.00	895.00	0.00	0.00	-0.39	0.91
17.5in Open Hole	895.00	3279.00	2384.00	895.00	3278.98	-0.39	0.91	1.28	0.32
13.375in Casing Intermediate	29.00	3214.00	3185.00	29.00	3213.99	0.00	0.00	0.98	0.25
12.25in Open Hole	3279.00	11065.00	7786.00	3278.98	10950.38	1.28	0.32	330.09	661.34
9.625in Casing Intermediate	29.00	10965.30	10936.30	29.00	10853.07	0.00	0.00	349.29	651.20
8.5in Open Hole	11065.00	18521.00	7456.00	10950.38	12020.12	330.09	661.34	-4713.93	4926.49
5.5in Casing Production	29.00	18521.00	18492.00	29.00	12020.12	0.00	0.00	-4713.93	4926.49

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
MAJ-6G-HSU LP Rev-6	11934.00	219.60	1353.24	1707262.92	524481.44	39°56'07.135"N	80°32'38.183"W	point
MAJ-6G-HSU AZI Rev-2	11942.00	-75.75	1687.09	1707596.75	524186.10	39°56'04.255"N	80°32'33.854"W	point
MAJ-6 Lease Lines	12028.23	0.84	-45.25	1705864.49	524262.69	39°56'04.812"N	80°32'56.102"W	polygon
MAJ-6G-HSU BHL Rev-6	12040.75	-4710.14	4932.12	1710841.63	519551.93	39°55'18.828"N	80°31'51.517"W	point



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MAJ-6G-HSU AWP Proj: 18521'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Slot	Slot G
Area	Marshall County, WV	Well	MAJ-6G-HSU
Field	Marshall	Wellbore	MAJ-6G-HSU AWB
Facility	MAJ-6 Pad		

WELLPATH COMPOSITION - Ref Wellbore: MAJ-6G-HSU AWB				Ref Wellpath: MAJ-6G-HSU AWP Proj: 18521'		Wellbore	
Start MD	End MD	Positional Uncertainty/ Model	Log Name/Comment				
[ft] 29.00	[ft] 757.00	VESSI GyroFlex v4		01 VES Gyro <24"> (50'-740')			MAJ-6G-HSU AWB
757.00	3238.00	OWSG MWD rev2 - Standard		02 QES MWD <17-1/2"> (740')(902'-3221')			MAJ-6G-HSU AWB
3238.00	11029.00	BHI NavitTrak (Axial)		03 APS EM <12-1/4"> (3238')(3265'-11029')			MAJ-6G-HSU AWB
11029.00	18496.00	BHI AutoTrak Curve (Short)		04 BH AT Curve <8-1/2"> (11029')(11034'-18496')			MAJ-6G-HSU AWB
18496.00	18521.00	Blind Drilling (std)		Projection to bit			MAJ-6G-HSU AWB



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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Slot	Slot G
Area	Marshall County, WV	Well	MAJ-6G-HSU
Field	Marshall	Wellbore	MAJ-6G-HSU AWP
Facility	MAJ-6 Pad		

COMMENTS

Wellpath general comments
 API: 47-051-02009-0000
 BH Job #: 109658532-A
 Rig: Patterson 563
 Duration: 4/16/2019-4/26/2019
 VES Gyro <24"> (50'-740')
 QES MWD <17'-1/2"> (740')(902'-3221')
 APS EM <12-1/4"> (3238')(3265'-11029')
 BH AT Curve <8-1/2"> (11029')(11034'-18496')
 Projected MD at TD: 18521'