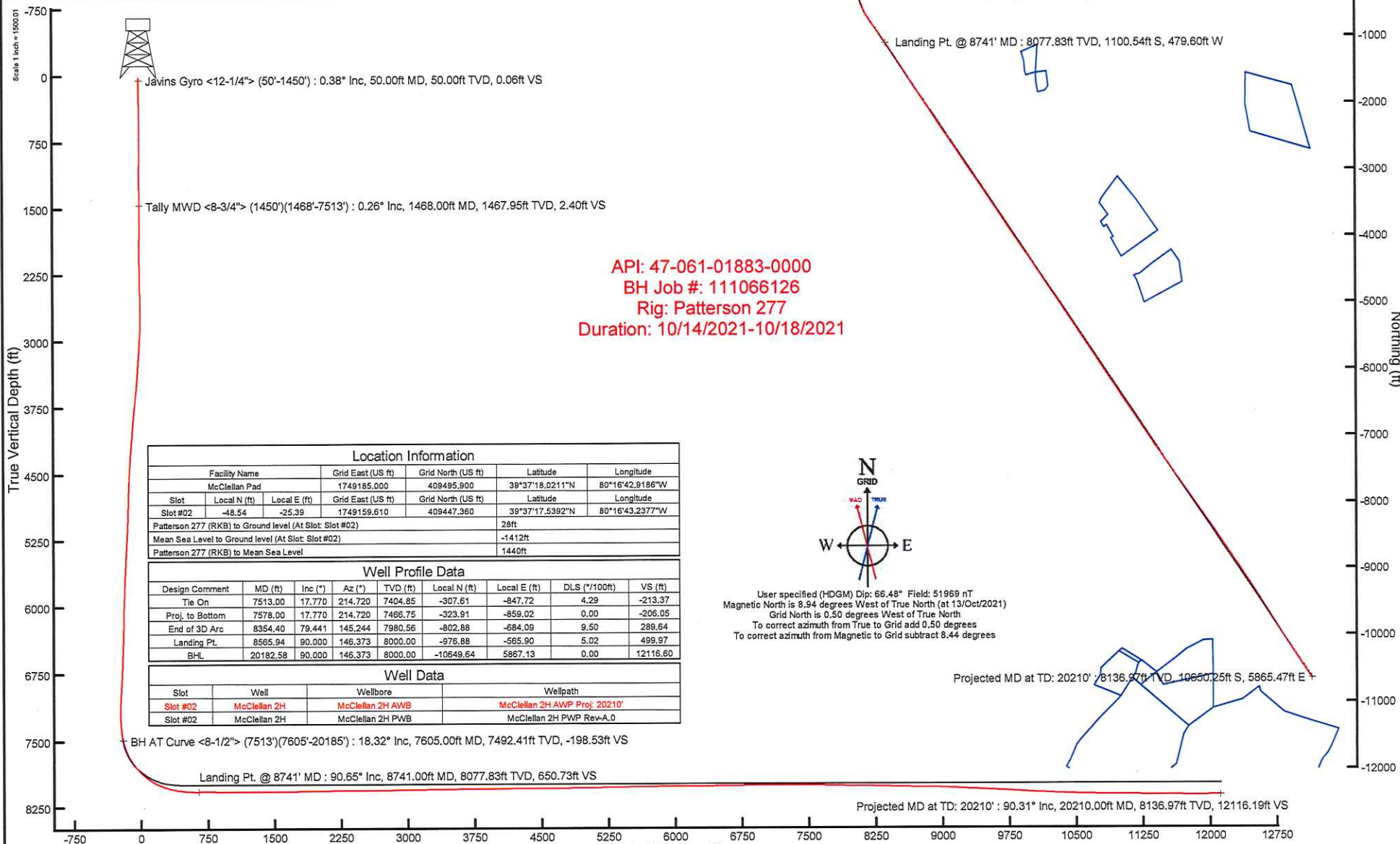
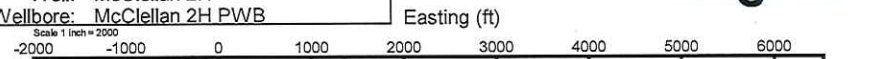


NORTHEAST NATURAL ENERGY, LLC

Location: Monongalia County, WV
 Field: Monongalia
 Facility: McClellan Pad

Slot: Slot #02
 Well: McClellan 2H
 Wellbore: McClellan 2H PWB

Plot reference wellpath is McClellan 2H PWB Rev-A.0	Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (470), US feet
True vertical depths are referenced to Patterson 277 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to Patterson 277 (RKB)	Scale: True distance
Patterson 277 (RKB) to Mean Sea Level: 1442 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #02): -1412 feet	Depths are in feet
Offset wellbore MDs are referenced to each path's default MD datum	Created by: adslair on 2021-10-20; Database: WA_MPL_EASTERNUS_Dat

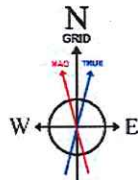


API: 47-061-01883-0000
 BH Job #: 111066126
 Rig: Patterson 277
 Duration: 10/14/2021-10/18/2021

Location Information					
Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
McClellan Pad		1749185.000	409495.900	39°37'18.0211"N	80°16'42.9186"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot #02	-48.54	-25.39	1749159.610	409447.360	39°37'17.5392"N
Patterson 277 (RKB) to Ground level (At Slot: Slot #02)			28ft		
Mean Sea Level to Ground level (At Slot: Slot #02)			-1412ft		
Patterson 277 (RKB) to Mean Sea Level			1440ft		

Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	7513.00	17.770	214.720	7404.85	-307.61	-847.72	4.29
Proj. to Bottom	7578.00	17.770	214.720	7466.75	-323.91	-859.02	0.00
End of 3D Arc	8354.40	79.441	145.244	7980.56	-802.88	-684.09	9.50
Landing Pt.	8565.94	90.000	146.373	8000.00	-976.88	-565.90	5.02
BHL	20192.58	90.000	146.373	8000.00	-10649.64	5867.13	0.00

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #02	McClellan 2H	McClellan 2H AWB	McClellan 2H AWP Proj: 20210'
Slot #02	McClellan 2H	McClellan 2H PWB	McClellan 2H PWB Rev-A.0



User specified (HDGM) Dip: 66.48° Field: 51969 nT
 Magnetic North is 8.94 degrees West of True North (at 13/Oct/2021)
 Grid North is 0.50 degrees West of True North
 To correct azimuth from True to Grid add 0.50 degrees
 To correct azimuth from Magnetic to Grid subtract 8.44 degrees

Vertical Section (ft)
 Azimuth 146.37° with reference 0.00 N, 0.00 E

Scale 1 Inch = 1500



Actual Wellpath Report

McClellan 2H AWP Proj: 20210'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 2H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 2H AWB
Slot	Slot #02		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999941	Report Generated	20/Oct/2021 at 17:30
Convergence at slot	0.50° 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	-48.54	-25.39	1749159.61	409447.36	39°37'17.5392"N	80°16'43.2377"W
Facility Reference Pt			1749185.00	409495.90	39°37'18.0211"N	80°16'42.9186"W
Field Reference Pt			1777685.71	440640.65	39°42'28.1140"N	80°10'41.6900"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Patterson 277 (RKB) to Facility Vertical Datum	1440.00ft
Horizontal Reference Pt	Slot	Patterson 277 (RKB) to Mean Sea Level	1440.00ft
Vertical Reference Pt	Patterson 277 (RKB)	Patterson 277 (RKB) to Ground Level at Slot (Slot #02)	28.00ft
MD Reference Pt	Patterson 277 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	146.37°



Actual Wellpath Report

McClellan 2H AWP Proj: 20210'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 2H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 2H AWB
Slot	Slot #02		

WELLPATH DATA (233 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	109.600	0.00	0.00	0.00	0.00	1749159.61	409447.36	39°37'17.5392"N	80°16'43.2377"W	0.00	0.000	0.00	0.00	0.00	
28.00	0.000	109.600	28.00	0.00	0.00	0.00	1749159.61	409447.36	39°37'17.5392"N	80°16'43.2377"W	0.00	0.000	0.00	0.00	0.00	
50.00	0.380	109.600	50.00	0.06	-0.02	0.07	1749159.68	409447.34	39°37'17.5389"N	80°16'43.2368"W	0.07	109.600	1.73	1.73	0.00	
100.00	0.430	57.100	100.00	0.19	0.02	0.38	1749159.99	409447.38	39°37'17.5394"N	80°16'43.2328"W	0.38	86.735	0.72	0.10	-105.00	
150.00	0.420	76.400	150.00	0.26	0.17	0.72	1749160.33	409447.53	39°37'17.5409"N	80°16'43.2286"W	0.74	76.922	0.29	-0.02	38.60	
200.00	0.460	65.600	200.00	0.35	0.29	1.08	1749160.69	409447.65	39°37'17.5421"N	80°16'43.2240"W	1.12	74.816	0.18	0.08	-21.60	
250.00	0.440	89.500	249.99	0.49	0.38	1.45	1749161.06	409447.74	39°37'17.5430"N	80°16'43.2192"W	1.50	75.447	0.37	-0.04	47.80	
300.00	0.530	134.900	299.99	0.82	0.22	1.81	1749161.42	409447.58	39°37'17.5414"N	80°16'43.2146"W	1.82	83.197	0.77	0.18	90.80	
350.00	0.570	172.500	349.99	1.27	-0.19	2.01	1749161.62	409447.17	39°37'17.5374"N	80°16'43.2121"W	2.02	95.523	0.71	0.08	75.20	
400.00	0.560	205.600	399.99	1.62	-0.66	1.93	1749161.54	409446.70	39°37'17.5328"N	80°16'43.2130"W	2.04	108.878	0.64	-0.02	66.20	
450.00	0.500	250.500	449.99	1.69	-0.95	1.62	1749161.23	409446.41	39°37'17.5299"N	80°16'43.2169"W	1.88	120.472	0.82	-0.12	89.80	
500.00	0.490	294.300	499.98	1.46	-0.94	1.22	1749160.83	409446.42	39°37'17.5300"N	80°16'43.2220"W	1.54	127.560	0.74	-0.02	87.60	
550.00	0.380	7.900	549.98	1.15	-0.69	1.05	1749160.66	409446.67	39°37'17.5325"N	80°16'43.2242"W	1.25	123.212	1.06	-0.22	147.20	
600.00	0.370	57.500	599.98	1.03	-0.44	1.21	1749160.82	409446.92	39°37'17.5350"N	80°16'43.2222"W	1.28	109.837	0.63	-0.02	99.20	
650.00	0.560	129.000	649.98	1.27	-0.50	1.53	1749161.14	409446.86	39°37'17.5343"N	80°16'43.2181"W	1.61	108.147	1.13	0.38	143.00	
700.00	0.620	189.000	699.98	1.70	-0.92	1.68	1749161.29	409446.44	39°37'17.5302"N	80°16'43.2161"W	1.92	118.782	1.18	0.12	120.00	
750.00	0.570	213.400	749.98	2.00	-1.40	1.50	1749161.11	409445.96	39°37'17.5255"N	80°16'43.2184"W	2.05	132.952	0.51	-0.10	48.80	
800.00	0.540	252.000	799.97	2.03	-1.68	1.14	1749160.75	409445.68	39°37'17.5227"N	80°16'43.2230"W	2.03	145.795	0.74	-0.06	77.20	
850.00	0.400	324.100	849.97	1.79	-1.61	0.81	1749160.42	409445.75	39°37'17.5233"N	80°16'43.2271"W	1.80	153.162	1.13	-0.28	144.20	
900.00	0.570	253.200	899.97	1.55	-1.54	0.47	1749160.08	409445.82	39°37'17.5240"N	80°16'43.2315"W	1.61	162.888	1.16	0.34	-141.80	
950.00	0.450	268.800	949.97	1.37	-1.62	0.04	1749159.65	409445.74	39°37'17.5232"N	80°16'43.2370"W	1.62	178.583	0.36	-0.24	31.20	
1000.00	0.420	332.200	999.97	1.08	-1.46	-0.24	1749159.37	409445.90	39°37'17.5247"N	80°16'43.2407"W	1.48	189.410	0.92	-0.06	126.80	
1018.00	0.330	24.700	1017.97	0.99	-1.35	-0.25	1749159.36	409446.01	39°37'17.5258"N	80°16'43.2408"W	1.38	190.501	1.90	-0.50	291.67	
1050.00	0.350	335.400	1049.97	0.84	-1.18	-0.25	1749159.36	409446.18	39°37'17.5275"N	80°16'43.2408"W	1.21	192.096	0.89	0.06	-154.06	
1100.00	0.370	358.400	1099.97	0.56	-0.88	-0.32	1749159.29	409446.48	39°37'17.5304"N	80°16'43.2417"W	0.94	200.035	0.29	0.04	46.00	
1150.00	0.350	47.300	1149.97	0.39	-0.62	-0.21	1749159.40	409446.74	39°37'17.5331"N	80°16'43.2404"W	0.65	199.118	0.60	-0.04	97.80	
1200.00	0.450	79.500	1199.96	0.45	-0.48	0.09	1749159.70	409446.88	39°37'17.5345"N	80°16'43.2365"W	0.49	169.083	0.48	0.20	64.40	
1250.00	0.710	119.500	1249.96	0.80	-0.59	0.55	1749160.16	409446.77	39°37'17.5333"N	80°16'43.2306"W	0.81	136.924	0.93	0.52	80.00	
1300.00	0.490	114.900	1299.96	1.26	-0.84	1.02	1749160.63	409446.52	39°37'17.5310"N	80°16'43.2246"W	1.32	129.380	0.45	-0.44	-9.20	
1350.00	0.510	113.900	1349.96	1.63	-1.02	1.42	1749161.03	409446.34	39°37'17.5292"N	80°16'43.2195"W	1.74	125.666	0.04	0.04	-2.00	



Actual Wellpath Report

McClellan 2H AWP Proj: 20210'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 2H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 2H AWB
Slot	Slot #02		

WELLPATH DATA (233 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]
1400.00	0.430	123.000	1399.96	1.99	-1.21	1.78	1749161.39	409446.15	39°37'17.5274"N	80°16'43.2149"W	2.15	124.223	0.22	-0.16	18.20
1450.00	0.430	135.000	1449.95	2.35	-1.44	2.07	1749161.68	409445.92	39°37'17.5251"N	80°16'43.2112"W	2.52	124.929	0.18	0.00	24.00
1468.00	0.260	254.640	1467.95	2.40	-1.50	2.07	1749161.68	409445.86	39°37'17.5245"N	80°16'43.2110"W	2.56	125.896	3.35	-0.94	664.67
1563.00	0.180	244.840	1562.95	2.31	-1.62	1.73	1749161.34	409445.74	39°37'17.5233"N	80°16'43.2154"W	2.37	133.128	0.09	-0.08	-10.32
1657.00	0.670	254.090	1656.95	2.12	-1.84	1.07	1749160.68	409445.52	39°37'17.5211"N	80°16'43.2239"W	2.12	149.771	0.52	0.52	9.84
1752.00	1.080	252.810	1751.94	1.70	-2.25	-0.32	1749159.29	409445.11	39°37'17.5169"N	80°16'43.2416"W	2.28	188.083	0.43	0.43	-1.35
1847.00	1.480	260.640	1846.92	0.94	-2.72	-2.39	1749157.22	409444.64	39°37'17.5121"N	80°16'43.2679"W	3.62	221.290	0.46	0.42	8.24
1941.00	1.140	257.840	1940.89	0.10	-3.11	-4.50	1749155.11	409444.25	39°37'17.5080"N	80°16'43.2949"W	5.47	235.328	0.37	-0.36	-2.98
2034.00	0.450	177.910	2033.88	0.07	-3.67	-5.39	1749154.22	409443.69	39°37'17.5024"N	80°16'43.3062"W	6.52	235.737	1.24	-0.74	-85.95
2129.00	0.780	130.130	2128.88	1.01	-4.46	-4.88	1749154.73	409442.90	39°37'17.4947"N	80°16'43.2996"W	6.61	227.576	0.61	0.35	-50.29
2224.00	0.990	113.450	2223.87	2.32	-5.20	-3.63	1749155.98	409442.16	39°37'17.4874"N	80°16'43.2836"W	6.35	214.923	0.35	0.22	-17.56
2318.00	1.240	107.850	2317.85	3.80	-5.84	-1.92	1749157.69	409441.52	39°37'17.4813"N	80°16'43.2616"W	6.15	198.205	0.29	0.27	-5.96
2412.00	1.400	97.540	2411.82	5.35	-6.30	0.19	1749159.80	409441.06	39°37'17.4769"N	80°16'43.2346"W	6.30	178.306	0.30	0.17	-10.97
2507.00	1.300	101.600	2506.80	6.88	-6.67	2.39	1749162.00	409440.69	39°37'17.4734"N	80°16'43.2064"W	7.09	160.268	0.15	-0.11	4.27
2601.00	1.390	91.530	2600.77	8.29	-6.91	4.58	1749164.19	409440.45	39°37'17.4712"N	80°16'43.1785"W	8.29	146.501	0.27	0.10	-10.71
2661.00	1.400	96.600	2660.75	9.18	-7.02	6.03	1749165.64	409440.34	39°37'17.4703"N	80°16'43.1599"W	9.25	139.322	0.21	0.02	8.45
2727.00	1.460	84.040	2726.73	10.10	-7.02	7.67	1749167.28	409440.34	39°37'17.4704"N	80°16'43.1389"W	10.40	132.485	0.48	0.09	-19.03
2824.00	1.920	344.590	2823.71	9.13	-5.33	8.47	1749168.08	409442.03	39°37'17.4872"N	80°16'43.1289"W	10.00	122.186	2.68	0.47	-102.53
2920.00	3.590	322.320	2919.60	4.60	-1.40	6.20	1749165.81	409445.96	39°37'17.5259"N	80°16'43.1583"W	6.36	102.715	2.03	1.74	-23.20
3013.00	3.800	319.410	3012.40	-1.36	3.25	2.42	1749162.03	409450.61	39°37'17.5714"N	80°16'43.2072"W	4.05	36.681	0.30	0.23	-3.13
3108.00	3.700	319.070	3107.20	-7.53	7.95	-1.64	1749157.97	409455.31	39°37'17.6176"N	80°16'43.2596"W	8.12	348.352	0.11	-0.11	-0.36
3202.00	4.080	307.260	3200.98	-13.70	12.27	-6.29	1749153.32	409459.63	39°37'17.6599"N	80°16'43.3194"W	13.79	332.863	0.94	0.40	-12.56
3297.00	3.950	301.660	3295.75	-19.86	16.03	-11.76	1749147.85	409463.39	39°37'17.6966"N	80°16'43.3898"W	19.88	323.731	0.43	-0.14	-5.89
3392.00	3.920	298.470	3390.53	-25.71	19.30	-17.40	1749142.21	409466.66	39°37'17.7284"N	80°16'43.4622"W	25.98	317.955	0.23	-0.03	-3.36
3487.00	5.580	300.190	3485.20	-32.72	23.17	-24.25	1749135.36	409470.53	39°37'17.7660"N	80°16'43.5502"W	33.54	313.693	1.75	1.75	1.81
3585.00	7.280	291.360	3582.58	-42.08	27.83	-34.15	1749125.46	409475.18	39°37'17.8112"N	80°16'43.6772"W	44.05	309.172	2.00	1.73	-9.01
3679.00	8.940	286.460	3675.64	-52.56	32.06	-46.70	1749112.91	409479.42	39°37'17.8520"N	80°16'43.8381"W	56.65	304.472	1.91	1.77	-5.21
3774.00	8.250	279.990	3769.57	-62.93	35.34	-60.50	1749099.12	409482.70	39°37'17.8832"N	80°16'44.0147"W	70.06	300.291	1.25	-0.73	-6.81
3870.00	9.350	266.080	3864.45	-71.55	36.00	-75.06	1749084.55	409483.36	39°37'17.8885"N	80°16'44.2009"W	83.25	295.623	2.49	1.15	-14.49
3964.00	10.570	261.830	3957.03	-79.04	34.25	-91.21	1749068.40	409481.61	39°37'17.8699"N	80°16'44.4071"W	97.43	290.582	1.51	1.30	-4.52



Actual Wellpath Report

McClellan 2H AWP Proj: 20210'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 2H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 2H AWB
Slot	Slot #02		

WELLPATH DATA (233 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]
4059.00	10.600	261.340	4050.42	-86.47	31.70	-108.48	1749051.14	409479.06	39°37'17.8431"N	80°16'44.6275"W	113.01	286.289	0.10	0.03	-0.52
4153.00	12.010	259.280	4142.59	-93.93	28.58	-126.63	1749032.98	409475.94	39°37'17.8107"N	80°16'44.8591"W	129.82	282.717	1.56	1.50	-2.19
4248.00	12.820	257.450	4235.37	-101.57	24.45	-146.63	1749012.98	409471.81	39°37'17.7682"N	80°16'45.1143"W	148.66	279.466	0.95	0.85	-1.93
4342.00	13.130	252.660	4326.97	-108.31	19.00	-167.01	1748992.61	409466.36	39°37'17.7126"N	80°16'45.3740"W	168.08	276.491	1.19	0.33	-5.10
4437.00	11.780	251.960	4419.74	-113.95	12.78	-186.53	1748973.09	409460.14	39°37'17.6495"N	80°16'45.6227"W	186.96	273.920	1.43	-1.42	-0.74
4532.00	12.760	252.880	4512.56	-119.53	6.69	-205.77	1748953.85	409454.05	39°37'17.5876"N	80°16'45.8680"W	205.88	271.862	1.05	1.03	0.97
4629.00	13.930	249.370	4606.94	-125.20	-0.58	-226.94	1748932.68	409446.78	39°37'17.5140"N	80°16'46.1377"W	226.94	269.854	1.47	1.21	-3.62
4724.00	13.160	243.480	4699.31	-129.12	-9.44	-247.32	1748912.31	409437.93	39°37'17.4247"N	80°16'46.3971"W	247.50	267.815	1.66	-0.81	-6.20
4818.00	13.890	241.830	4790.70	-131.51	-19.54	-266.84	1748892.79	409427.82	39°37'17.3232"N	80°16'46.6455"W	267.56	265.812	0.88	0.78	-1.76
4913.00	14.210	242.830	4882.86	-133.91	-30.25	-287.27	1748872.36	409417.11	39°37'17.2156"N	80°16'46.9053"W	288.85	263.989	0.42	0.34	1.05
5008.00	13.150	244.140	4975.16	-136.68	-40.29	-307.36	1748852.26	409407.08	39°37'17.1147"N	80°16'47.1610"W	309.99	262.533	1.16	-1.12	1.38
5104.00	12.720	244.970	5068.73	-139.74	-49.52	-326.77	1748832.86	409397.84	39°37'17.0218"N	80°16'47.4080"W	330.50	261.383	0.49	-0.45	0.86
5198.00	12.480	248.430	5160.46	-143.41	-57.63	-345.59	1748814.04	409389.73	39°37'16.9400"N	80°16'47.6476"W	350.36	260.532	0.84	-0.26	3.68
5293.00	12.760	250.830	5253.17	-148.17	-64.85	-365.05	1748794.59	409382.51	39°37'16.8670"N	80°16'47.8954"W	370.76	259.926	0.63	0.29	2.53
5388.00	14.160	251.180	5345.56	-153.77	-72.05	-385.95	1748773.68	409375.32	39°37'16.7941"N	80°16'48.1618"W	392.62	259.426	1.48	1.47	0.37
5483.00	14.520	249.400	5437.60	-159.42	-79.98	-408.10	1748751.53	409367.38	39°37'16.7137"N	80°16'48.4439"W	415.87	258.911	0.60	0.38	-1.87
5577.00	13.330	242.950	5528.84	-163.32	-89.06	-428.78	1748730.85	409358.31	39°37'16.6223"N	80°16'48.7072"W	437.94	258.266	2.08	-1.27	-6.86
5707.00	15.890	248.610	5654.63	-168.81	-102.37	-458.71	1748700.93	409345.00	39°37'16.4882"N	80°16'49.0881"W	469.99	257.420	2.25	1.97	4.35
5769.00	14.720	245.290	5714.43	-171.83	-108.76	-473.77	1748685.87	409338.61	39°37'16.4237"N	80°16'49.2799"W	486.09	257.071	2.36	-1.89	-5.35
5862.00	14.590	243.920	5804.41	-175.20	-118.85	-495.02	1748664.62	409328.52	39°37'16.3222"N	80°16'49.5504"W	509.09	256.500	0.40	-0.14	-1.47
5957.00	15.220	244.240	5896.21	-178.48	-129.53	-517.00	1748642.64	409317.84	39°37'16.2148"N	80°16'49.8300"W	532.98	255.935	0.67	0.66	0.34
6052.00	15.770	246.310	5987.76	-182.42	-140.13	-540.05	1748619.59	409307.24	39°37'16.1080"N	80°16'50.1234"W	557.94	255.454	0.82	0.58	2.18
6146.00	13.950	240.100	6078.62	-185.36	-150.91	-561.58	1748598.07	409296.46	39°37'15.9996"N	80°16'50.3973"W	581.50	254.958	2.57	-1.94	-6.61
6240.00	13.190	241.350	6169.99	-187.03	-161.70	-580.81	1748578.84	409285.67	39°37'15.8913"N	80°16'50.6419"W	602.90	254.442	0.87	-0.81	1.33
6334.00	13.020	242.950	6261.54	-189.17	-171.66	-599.65	1748559.99	409275.71	39°37'15.7913"N	80°16'50.8815"W	623.74	254.025	0.43	-0.18	1.70
6429.00	13.210	243.000	6354.06	-191.65	-181.46	-618.85	1748540.79	409265.92	39°37'15.6928"N	80°16'51.1258"W	644.91	253.658	0.20	0.20	0.05
6525.00	14.070	246.560	6447.36	-194.98	-191.08	-639.33	1748520.31	409256.29	39°37'15.5960"N	80°16'51.3865"W	667.28	253.360	1.25	0.90	3.71
6624.00	12.160	244.850	6543.77	-198.65	-200.30	-659.82	1748499.83	409247.08	39°37'15.5031"N	80°16'51.6472"W	689.55	253.114	1.97	-1.93	-1.73
6718.00	12.260	244.080	6635.65	-201.45	-208.87	-677.75	1748481.90	409238.51	39°37'15.4169"N	80°16'51.8755"W	709.21	252.872	0.20	0.11	-0.82
6813.00	14.080	246.610	6728.14	-204.86	-217.86	-697.43	1748462.22	409229.51	39°37'15.3263"N	80°16'52.1259"W	730.67	252.652	2.01	1.92	2.66

REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 2H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 2H AWB
Slot	Slot #02		

WELLPATH DATA (233 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]
6909.00	15.250	250.220	6821.02	-209.96	-226.77	-720.03	1748439.62	409220.60	39°37'15.2363"N	80°16'52.4137"W	754.90	252.518	1.55	1.22	3.76
7003.00	14.280	250.370	6911.91	-215.72	-234.85	-742.59	1748417.07	409212.52	39°37'15.1545"N	80°16'52.7010"W	778.84	252.450	1.03	-1.03	0.16
7097.00	14.850	247.810	7002.89	-220.91	-243.30	-764.66	1748395.00	409204.08	39°37'15.0692"N	80°16'52.9822"W	802.43	252.350	0.91	0.61	-2.72
7190.00	15.590	241.580	7092.63	-224.41	-253.75	-786.69	1748372.97	409193.63	39°37'14.9640"N	80°16'53.2625"W	826.60	252.123	1.93	0.80	-6.70
7285.00	14.340	238.500	7184.41	-226.01	-265.97	-807.95	1748351.71	409181.41	39°37'14.8414"N	80°16'53.5328"W	850.60	251.779	1.56	-1.32	-3.24
7380.00	13.220	223.050	7276.71	-223.94	-280.06	-825.40	1748334.26	409167.32	39°37'14.7006"N	80°16'53.7543"W	871.62	251.258	4.04	-1.18	-16.26
7474.00	16.420	218.080	7367.57	-217.30	-298.38	-840.93	1748318.73	409149.00	39°37'14.5182"N	80°16'53.9508"W	892.30	250.465	3.66	3.40	-5.29
7513.00	17.770	214.720	7404.85	-213.37	-307.61	-847.72	1748311.94	409139.77	39°37'14.4264"N	80°16'54.0365"W	901.81	250.056	4.29	3.46	-8.62
7605.00	18.320	194.520	7492.41	-198.53	-333.17	-859.36	1748300.31	409114.21	39°37'14.1728"N	80°16'54.1823"W	921.68	248.809	6.80	0.60	-21.96
7699.00	24.230	184.020	7580.00	-173.37	-366.75	-864.42	1748295.24	409080.63	39°37'13.8405"N	80°16'54.2433"W	939.01	247.010	7.46	6.29	-11.17
7793.00	29.400	170.690	7663.94	-137.01	-408.83	-862.04	1748297.63	409038.55	39°37'13.4249"N	80°16'54.2081"W	954.07	244.627	8.41	5.50	-14.18
7888.00	36.350	167.420	7743.68	-89.43	-459.39	-852.12	1748307.54	408988.00	39°37'12.9261"N	80°16'54.0758"W	968.06	241.670	7.55	7.32	-3.44
7983.00	42.360	160.810	7817.14	-32.08	-517.17	-835.44	1748324.22	408930.22	39°37'12.3565"N	80°16'53.8563"W	982.56	238.241	7.71	6.33	-6.96
8078.00	48.940	158.200	7883.51	34.05	-580.73	-811.59	1748348.07	408866.67	39°37'11.7304"N	80°16'53.5444"W	997.96	234.415	7.20	6.93	-2.75
8173.00	56.110	151.680	7941.32	108.51	-648.83	-779.52	1748360.13	408798.57	39°37'11.0602"N	80°16'53.1271"W	1014.22	230.228	9.30	7.55	-6.86
8267.00	64.030	147.860	7988.19	189.75	-719.08	-738.46	1748421.19	408728.32	39°37'10.3694"N	80°16'52.5945"W	1030.73	225.762	9.13	8.43	-4.06
8362.00	71.190	145.890	8024.36	277.52	-792.57	-690.46	1748469.19	408654.84	39°37'9.6473"N	80°16'51.9730"W	1051.15	221.061	7.78	7.54	-2.07
8457.00	77.080	144.900	8050.32	368.85	-867.75	-638.58	1748521.07	408579.67	39°37'8.9088"N	80°16'51.3017"W	1077.39	216.350	6.28	6.20	-1.04
8552.00	82.220	144.000	8067.38	462.22	-943.75	-584.26	1748575.39	408503.67	39°37'8.1623"N	80°16'50.5991"W	1109.96	211.761	5.49	5.41	-0.95
8646.00	87.200	147.030	8076.05	555.77	-1020.87	-531.29	1748628.35	408426.55	39°37'7.4047"N	80°16'49.9137"W	1150.85	207.494	6.19	5.30	3.22
8741.00	90.650	147.020	8077.83	650.73	-1100.54	-479.60	1748680.04	408346.88	39°37'6.6218"N	80°16'49.2444"W	1200.51	203.547	3.63	3.63	-0.01
8835.00	90.460	145.540	8076.92	744.72	-1178.72	-427.43	1748732.21	408268.71	39°37'5.8537"N	80°16'48.5689"W	1253.83	199.931	1.59	-0.20	-1.57
8930.00	88.650	146.600	8077.65	839.71	-1257.54	-374.40	1748785.23	408189.90	39°37'5.0793"N	80°16'47.8826"W	1312.09	196.580	2.21	-1.91	1.12
9025.00	88.980	146.940	8079.62	934.69	-1336.99	-322.35	1748837.28	408110.45	39°37'4.2986"N	80°16'47.2087"W	1375.30	193.556	0.50	0.35	0.36
9120.00	89.820	146.910	8080.61	1029.68	-1416.59	-270.51	1748889.11	408030.86	39°37'3.5164"N	80°16'46.5375"W	1442.19	190.811	0.88	0.88	-0.03
9214.00	89.690	146.990	8081.02	1123.67	-1495.38	-219.25	1748940.38	407952.07	39°37'2.7421"N	80°16'45.8737"W	1511.37	188.341	0.16	-0.14	0.09
9310.00	90.180	146.490	8081.13	1219.67	-1575.65	-166.60	1748993.02	407871.80	39°37'1.9533"N	80°16'45.1920"W	1584.44	186.036	0.73	0.51	-0.52
9405.00	90.250	146.990	8080.77	1314.67	-1655.09	-114.50	1749045.12	407792.37	39°37'1.1728"N	80°16'44.5175"W	1659.05	183.957	0.53	0.07	0.53
9499.00	90.180	146.420	8080.42	1408.67	-1733.66	-62.90	1749096.72	407713.81	39°37'0.4007"N	80°16'43.8494"W	1734.80	182.078	0.61	-0.07	-0.61
9594.00	90.060	146.790	8080.22	1503.66	-1812.97	-10.61	1749149.00	407634.50	39°36'59.6213"N	80°16'43.1725"W	1813.01	180.335	0.41	-0.13	0.39



Actual Wellpath Report

McClellan 2H AWP Proj: 20210'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 2H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 2H AWB
Slot	Slot #02		

WELLPATH DATA (233 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]	
9688.00	90.740	146.960	8079.56	1597.66	-1891.70	40.76	1749200.37	407555.78	39°36'58.8478"N	80°16'42.5074"W	1892.13	178.766	0.75	0.72	0.18	
9783.00	90.580	146.880	8078.47	1692.65	-1971.29	92.61	1749252.21	407476.19	39°36'58.0656"N	80°16'41.8361"W	1973.47	177.310	0.19	-0.17	-0.08	
9878.00	90.580	147.170	8077.50	1787.64	-2050.98	144.31	1749303.91	407396.50	39°36'57.2825"N	80°16'41.1666"W	2056.05	175.975	0.31	0.00	0.31	
9972.00	90.830	146.380	8076.35	1881.63	-2129.61	195.81	1749355.41	407317.88	39°36'56.5098"N	80°16'40.4998"W	2138.59	174.747	0.88	0.27	-0.84	
10067.00	90.710	146.800	8075.07	1976.62	-2208.90	248.12	1749407.71	407238.59	39°36'55.7307"N	80°16'39.8227"W	2222.80	173.591	0.46	-0.13	0.44	
10160.00	90.680	146.270	8073.94	2069.61	-2286.48	299.39	1749458.99	407161.02	39°36'54.9684"N	80°16'39.1589"W	2306.00	172.540	0.57	-0.03	-0.57	
10256.00	90.890	146.850	8072.63	2165.60	-2366.58	352.29	1749511.88	407080.92	39°36'54.1813"N	80°16'38.4741"W	2392.66	171.533	0.64	0.22	0.60	
10350.00	90.090	144.110	8071.82	2259.57	-2444.02	405.55	1749565.14	407003.49	39°36'53.4206"N	80°16'37.7850"W	2477.44	170.578	3.04	-0.85	-2.91	
10445.00	90.120	147.320	8071.65	2354.56	-2522.50	459.06	1749618.64	406925.01	39°36'52.6495"N	80°16'37.0926"W	2563.93	169.686	3.38	0.03	3.38	
10539.00	89.820	146.660	8071.70	2448.55	-2601.33	510.27	1749669.85	406846.19	39°36'51.8749"N	80°16'36.4296"W	2650.90	168.902	0.77	-0.32	-0.70	
10634.00	90.550	146.410	8071.39	2543.55	-2680.58	562.66	1749722.23	406766.95	39°36'51.0962"N	80°16'35.7515"W	2738.99	168.146	0.81	0.77	-0.26	
10728.00	90.680	146.960	8070.38	2637.54	-2759.13	614.28	1749773.85	406688.40	39°36'50.3243"N	80°16'35.0832"W	2826.68	167.449	0.60	0.14	0.59	
10823.00	90.740	146.670	8069.21	2732.53	-2838.63	666.27	1749825.84	406608.91	39°36'49.5431"N	80°16'34.4100"W	2915.77	166.791	0.31	0.06	-0.31	
10918.00	90.860	146.750	8067.88	2827.52	-2918.03	718.41	1749877.98	406529.51	39°36'48.7629"N	80°16'33.7351"W	3005.16	166.169	0.15	0.13	0.08	
11013.00	90.800	146.150	8066.50	2922.51	-2997.19	770.91	1749930.47	406450.35	39°36'47.9850"N	80°16'33.0556"W	3094.75	165.576	0.63	-0.06	-0.63	
11107.00	90.620	146.590	8065.34	3016.50	-3075.46	822.97	1749982.53	406372.09	39°36'47.2160"N	80°16'32.3818"W	3183.66	165.019	0.51	-0.19	0.47	
11201.00	90.800	146.580	8064.17	3110.49	-3153.91	874.73	1750034.28	406293.64	39°36'46.4451"N	80°16'31.7118"W	3272.97	164.499	0.19	0.19	-0.01	
11296.00	90.830	146.320	8062.82	3205.48	-3233.08	927.23	1750086.78	406214.48	39°36'45.6672"N	80°16'31.0323"W	3363.41	163.997	0.28	0.03	-0.27	
11391.00	90.770	146.260	8061.50	3300.47	-3312.10	979.94	1750139.49	406135.47	39°36'44.8908"N	80°16'30.3499"W	3454.02	163.518	0.09	-0.06	-0.06	
11486.00	90.830	146.280	8060.17	3395.47	-3391.10	1032.69	1750192.24	406056.47	39°36'44.1145"N	80°16'29.6673"W	3544.85	163.063	0.07	0.06	0.02	
11581.00	91.050	146.960	8058.61	3490.45	-3470.41	1084.95	1750244.49	405977.16	39°36'43.3351"N	80°16'28.9908"W	3636.05	162.639	0.75	0.23	0.72	
11676.00	90.120	146.410	8057.64	3585.44	-3549.80	1137.13	1750296.67	405897.78	39°36'42.5551"N	80°16'28.3154"W	3727.48	162.238	1.14	-0.98	-0.58	
11770.00	90.310	146.200	8057.29	3679.44	-3628.00	1189.27	1750348.81	405819.58	39°36'41.7866"N	80°16'27.6405"W	3817.96	161.851	0.30	0.20	-0.22	
11865.00	90.280	146.580	8056.80	3774.44	-3707.12	1241.86	1750401.39	405740.47	39°36'41.0092"N	80°16'26.9599"W	3909.60	161.480	0.40	-0.03	0.40	
11958.00	90.310	146.380	8056.32	3867.44	-3784.65	1293.22	1750452.75	405662.94	39°36'40.2474"N	80°16'26.2952"W	3999.50	161.135	0.22	0.03	-0.22	
12052.00	90.460	146.530	8055.69	3961.44	-3863.00	1345.16	1750504.69	405584.60	39°36'39.4776"N	80°16'25.6229"W	4090.50	160.801	0.23	0.16	0.16	
12147.00	90.800	146.730	8054.64	4056.43	-3942.33	1397.41	1750556.93	405505.27	39°36'38.6980"N	80°16'24.9466"W	4182.67	160.482	0.42	0.36	0.21	
12242.00	91.020	146.650	8053.14	4151.42	-4021.71	1449.57	1750609.09	405425.90	39°36'37.9179"N	80°16'24.2713"W	4274.98	160.179	0.25	0.23	-0.08	
12336.00	90.740	146.420	8051.69	4245.40	-4100.12	1501.40	1750660.92	405347.49	39°36'37.1474"N	80°16'23.6005"W	4366.37	159.888	0.39	-0.30	-0.24	
12431.00	90.800	146.410	8050.42	4340.40	-4179.25	1553.95	1750713.46	405268.36	39°36'36.3699"N	80°16'22.9204"W	4458.80	159.604	0.06	0.06	-0.01	

REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 2H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 2H AWB
Slot	Slot #02		

WELLPATH DATA (233 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]	
12525.00	90.370	144.030	8049.46	4434.37	-4256.45	1607.56	1750767.07	405191.17	39°36'35.6115"N	80°16'22.2269"W	4549.90	159.310	2.57	-0.46	-2.53	
12619.00	90.120	145.960	8049.05	4528.33	-4333.44	1661.48	1750820.99	405114.18	39°36'34.8552"N	80°16'21.5296"W	4641.04	159.023	2.07	-0.27	2.05	
12714.00	90.090	146.400	8048.88	4623.33	-4412.37	1714.36	1750873.86	405035.26	39°36'34.0797"N	80°16'20.8453"W	4733.71	158.767	0.46	-0.03	0.46	
12809.00	90.310	146.750	8048.55	4718.33	-4491.65	1766.69	1750926.19	404955.98	39°36'33.3006"N	80°16'20.1680"W	4826.61	158.529	0.44	0.23	0.37	
12903.00	90.520	146.560	8047.87	4812.33	-4570.19	1818.34	1750977.84	404877.45	39°36'32.5289"N	80°16'19.4994"W	4918.63	158.304	0.29	0.22	-0.18	
12998.00	90.650	146.820	8046.90	4907.32	-4649.58	1870.50	1751029.99	404798.06	39°36'31.7487"N	80°16'18.8243"W	5011.72	158.085	0.29	0.14	0.25	
13092.00	90.740	146.490	8045.76	5001.31	-4728.10	1922.16	1751081.65	404719.55	39°36'30.9771"N	80°16'18.1556"W	5103.89	157.876	0.36	0.10	-0.35	
13188.00	91.020	146.660	8044.28	5097.30	-4808.21	1975.04	1751134.53	404639.44	39°36'30.1899"N	80°16'17.4713"W	5198.05	157.669	0.34	0.29	0.18	
13283.00	91.020	146.150	8042.59	5192.28	-4887.33	2027.59	1751187.08	404560.33	39°36'29.4124"N	80°16'16.7911"W	5291.24	157.468	0.54	0.00	-0.54	
13377.00	90.980	146.400	8040.95	5286.27	-4965.50	2079.77	1751239.26	404482.16	39°36'28.6443"N	80°16'16.1158"W	5383.46	157.274	0.27	-0.04	0.27	
13471.00	90.830	146.580	8039.47	5380.26	-5043.87	2131.66	1751291.14	404403.80	39°36'27.8742"N	80°16'15.4443"W	5475.82	157.090	0.25	-0.16	0.19	
13566.00	90.950	146.520	8037.99	5475.25	-5123.12	2184.02	1751343.50	404324.55	39°36'27.0954"N	80°16'14.7666"W	5569.23	156.911	0.14	0.13	-0.06	
13662.00	90.860	146.360	8036.47	5571.23	-5203.11	2237.09	1751396.56	404244.57	39°36'26.3095"N	80°16'14.0799"W	5663.65	156.735	0.19	-0.09	-0.17	
13757.00	90.920	146.370	8035.00	5666.22	-5282.20	2289.70	1751449.17	404165.49	39°36'25.5323"N	80°16'13.3990"W	5757.11	156.564	0.06	0.06	0.01	
13851.00	90.830	146.600	8033.56	5760.21	-5360.56	2341.60	1751501.06	404087.13	39°36'24.7623"N	80°16'12.7274"W	5849.67	156.403	0.26	-0.10	0.24	
13943.00	90.830	146.720	8032.23	5852.20	-5437.41	2392.15	1751551.62	404010.28	39°36'24.0071"N	80°16'12.0730"W	5940.36	156.253	0.13	0.00	0.13	
14038.00	90.150	146.240	8031.42	5947.20	-5516.61	2444.61	1751604.07	403931.09	39°36'23.2289"N	80°16'11.3941"W	6034.00	156.100	0.88	-0.72	-0.51	
14132.00	90.180	146.380	8031.15	6041.20	-5594.82	2496.76	1751656.21	403852.88	39°36'22.4603"N	80°16'10.7194"W	6126.65	155.951	0.15	0.03	0.15	
14227.00	90.340	146.790	8030.72	6136.19	-5674.12	2549.07	1751708.53	403773.59	39°36'21.6811"N	80°16'10.0424"W	6220.40	155.808	0.46	0.17	0.43	
14321.00	90.180	146.570	8030.29	6230.19	-5752.66	2600.71	1751760.16	403695.05	39°36'20.9092"N	80°16'9.3741"W	6313.23	155.673	0.29	-0.17	-0.23	
14417.00	90.680	146.820	8029.57	6326.19	-5832.89	2653.42	1751812.87	403614.82	39°36'20.1208"N	80°16'8.6919"W	6408.06	155.539	0.58	0.52	0.26	
14512.00	90.860	146.660	8028.29	6421.18	-5912.33	2705.51	1751864.96	403535.40	39°36'19.3402"N	80°16'8.0176"W	6501.95	155.411	0.25	0.19	-0.17	
14607.00	90.950	146.380	8026.79	6516.16	-5991.55	2757.91	1751917.36	403456.17	39°36'18.5617"N	80°16'7.3395"W	6595.82	155.283	0.31	0.09	-0.29	
14701.00	90.920	146.560	8025.26	6610.15	-6069.90	2809.83	1751969.27	403377.83	39°36'17.7918"N	80°16'6.6676"W	6688.71	155.160	0.19	-0.03	0.19	
14796.00	90.950	146.620	8023.71	6705.14	-6149.19	2862.13	1752021.57	403298.55	39°36'17.0126"N	80°16'5.9907"W	6782.65	155.040	0.07	0.03	0.06	
14891.00	90.830	146.590	8022.23	6800.13	-6228.50	2914.42	1752073.85	403219.24	39°36'16.2333"N	80°16'5.3141"W	6876.63	154.924	0.13	-0.13	-0.03	
14984.00	90.280	146.300	8021.33	6893.12	-6305.99	2965.82	1752125.25	403141.75	39°36'15.4717"N	80°16'4.6490"W	6968.62	154.812	0.67	-0.59	-0.31	
15079.00	90.550	146.950	8020.64	6988.12	-6385.33	3018.08	1752177.50	403062.43	39°36'14.6922"N	80°16'3.9727"W	7062.66	154.702	0.74	0.28	0.68	
15174.00	90.520	146.080	8019.76	7083.11	-6464.55	3070.49	1752229.91	402983.20	39°36'13.9136"N	80°16'3.2944"W	7156.70	154.594	0.92	-0.03	-0.92	
15269.00	90.430	146.250	8018.97	7178.11	-6543.46	3123.38	1752282.80	402904.30	39°36'13.1382"N	80°16'2.6101"W	7250.68	154.484	0.20	-0.09	0.18	

Actual Wellpath Report

McClellan 2H AWP Proj: 20210'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 2H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 2H AWB
Slot	Slot #02		

WELLPATH DATA (233 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]	
15363.00	90.120	146.450	8018.52	7272.11	-6621.71	3175.47	1752334.88	402826.05	39°36'12.3693"N	80°16'1.9361"W	7343.75	154.380	0.39	-0.33	0.21	
15458.00	89.660	146.630	8018.70	7367.11	-6700.97	3227.85	1752387.26	402746.80	39°36'11.5905"N	80°16'1.2583"W	7437.87	154.280	0.52	-0.48	0.19	
15553.00	89.690	146.900	8019.24	7462.10	-6780.43	3279.91	1752439.32	402667.35	39°36'10.8096"N	80°16'0.5844"W	7532.06	154.185	0.29	0.03	0.28	
15647.00	89.350	145.000	8020.03	7556.09	-6858.30	3332.54	1752491.95	402589.48	39°36'10.0444"N	80°15'59.9036"W	7625.10	154.084	2.05	-0.36	-2.02	
15742.00	88.460	145.760	8021.84	7651.06	-6936.47	3386.50	1752545.90	402511.32	39°36'9.2765"N	80°15'59.2057"W	7719.00	153.978	1.23	-0.94	0.80	
15836.00	88.490	146.210	8024.34	7745.02	-7014.35	3439.07	1752598.47	402433.44	39°36'8.5112"N	80°15'58.5257"W	7812.06	153.882	0.48	0.03	0.48	
15931.00	88.860	145.780	8026.54	7839.99	-7093.09	3492.18	1752651.58	402354.71	39°36'7.7376"N	80°15'57.8385"W	7906.15	153.787	0.60	0.39	-0.45	
16025.00	89.380	145.230	8027.98	7933.97	-7170.55	3545.41	1752704.81	402277.25	39°36'6.9766"N	80°15'57.1501"W	7999.17	153.690	0.81	0.55	-0.59	
16119.00	89.570	144.910	8028.85	8027.94	-7247.61	3599.23	1752758.62	402200.19	39°36'6.2195"N	80°15'56.4541"W	8092.12	153.591	0.40	0.20	-0.34	
16214.00	88.650	145.440	8030.32	8122.91	-7325.59	3653.48	1752812.86	402122.22	39°36'5.4535"N	80°15'55.7526"W	8186.09	153.493	1.12	-0.97	0.56	
16308.00	88.710	145.060	8032.49	8216.87	-7402.80	3707.04	1752866.43	402045.01	39°36'4.6949"N	80°15'55.0599"W	8279.11	153.400	0.41	0.06	-0.40	
16402.00	88.490	145.410	8034.78	8310.82	-7480.00	3760.63	1752920.01	401967.82	39°36'3.9365"N	80°15'54.3670"W	8372.14	153.309	0.44	-0.23	0.37	
16497.00	88.710	145.570	8037.10	8405.78	-7558.26	3814.43	1752973.81	401889.56	39°36'3.1676"N	80°15'53.6711"W	8466.24	153.221	0.29	0.23	0.17	
16591.00	88.770	144.980	8039.17	8499.74	-7635.50	3867.97	1753027.34	401812.33	39°36'2.4088"N	80°15'52.9788"W	8559.32	153.134	0.63	0.06	-0.63	
16687.00	88.460	145.120	8041.49	8595.69	-7714.16	3922.94	1753082.31	401733.67	39°36'1.6360"N	80°15'52.2679"W	8654.35	153.045	0.35	-0.32	0.15	
16781.00	89.480	144.780	8043.18	8689.64	-7791.10	3976.92	1753136.28	401656.74	39°36'0.8802"N	80°15'51.5700"W	8747.41	152.958	1.14	1.09	-0.36	
16875.00	89.420	145.600	8044.08	8783.62	-7868.27	4030.58	1753189.94	401579.57	39°36'0.1220"N	80°15'50.8761"W	8840.55	152.876	0.87	-0.06	0.87	
16970.00	89.420	145.390	8045.05	8878.60	-7946.56	4084.39	1753243.75	401501.29	39°35'59.3529"N	80°15'50.1802"W	8934.76	152.798	0.22	0.00	-0.22	
17065.00	88.150	145.480	8047.06	8973.56	-8024.77	4138.27	1753297.63	401423.08	39°35'58.5845"N	80°15'49.4833"W	9028.97	152.720	1.34	-1.34	0.09	
17160.00	86.610	145.310	8051.40	9068.45	-8102.88	4192.17	1753351.52	401344.98	39°35'57.8171"N	80°15'48.7864"W	9123.10	152.644	1.63	-1.62	-0.18	
17254.00	86.740	145.310	8056.85	9162.27	-8180.04	4245.57	1753404.92	401267.82	39°35'57.0590"N	80°15'48.0957"W	9216.18	152.570	0.14	0.14	0.00	
17349.00	87.810	145.530	8061.37	9257.15	-8258.17	4299.43	1753458.78	401189.70	39°35'56.2914"N	80°15'47.3992"W	9310.34	152.497	1.15	1.13	0.23	
17444.00	87.480	145.130	8065.27	9352.06	-8336.23	4353.43	1753512.77	401111.64	39°35'55.5245"N	80°15'46.7010"W	9404.52	152.425	0.55	-0.35	-0.42	
17539.00	87.110	146.210	8069.76	9446.94	-8414.60	4406.94	1753566.28	401033.28	39°35'54.7545"N	80°15'46.0088"W	9498.77	152.358	1.20	-0.39	1.14	
17634.00	87.290	146.910	8074.40	9541.83	-8493.77	4459.23	1753618.57	400954.11	39°35'53.9764"N	80°15'45.3323"W	9593.17	152.301	0.76	0.19	0.74	
17728.00	87.540	146.560	8078.64	9635.73	-8572.29	4510.74	1753670.07	400875.59	39°35'53.2048"N	80°15'44.6658"W	9686.64	152.247	0.46	0.27	-0.37	
17823.00	86.670	144.870	8083.44	9730.60	-8650.68	4564.18	1753723.51	400797.21	39°35'52.4346"N	80°15'43.9746"W	9780.90	152.183	2.00	-0.92	-1.78	
17917.00	86.740	147.250	8088.84	9824.43	-8728.53	4616.57	1753775.90	400719.36	39°35'51.6696"N	80°15'43.2968"W	9874.21	152.125	2.53	0.07	2.53	
18011.00	86.370	146.360	8094.49	9918.26	-8807.05	4667.94	1753827.27	400640.85	39°35'50.8979"N	80°15'42.6321"W	9967.64	152.075	1.02	-0.39	-0.95	
18105.00	86.400	146.430	8100.42	10012.07	-8885.18	4719.86	1753879.19	400562.72	39°35'50.1301"N	80°15'41.9604"W	10060.99	152.022	0.08	0.03	0.07	



Actual Wellpath Report

McClellan 2H AWP Proj: 20210'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 2H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 2H AWB
Slot	Slot #02		

WELLPATH DATA (233 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]
18199.00	87.480	146.550	8105.43	10105.94	-8963.45	4771.69	1753931.00	400484.46	39°35'49.3610"N	80°15'41.2899"W	10154.42	151.971	1.16	1.15	0.13
18293.00	87.290	146.260	8109.72	10199.84	-9041.66	4823.64	1753982.96	400406.25	39°35'48.5924"N	80°15'40.6177"W	10247.89	151.920	0.37	-0.20	-0.31
18388.00	87.390	146.540	8114.13	10294.74	-9120.71	4876.16	1754035.47	400327.21	39°35'47.8156"N	80°15'39.9383"W	10342.35	151.870	0.31	0.11	0.29
18483.00	87.420	147.010	8118.43	10389.64	-9200.09	4928.16	1754087.47	400247.83	39°35'47.0354"N	80°15'39.2655"W	10436.88	151.824	0.50	0.03	0.49
18578.00	87.970	147.640	8122.25	10484.55	-9279.99	4979.40	1754138.71	400167.93	39°35'46.2501"N	80°15'38.6022"W	10531.51	151.783	0.88	0.58	0.66
18673.00	88.400	147.270	8125.26	10579.48	-9360.04	5030.48	1754189.79	400087.90	39°35'45.4633"N	80°15'37.9410"W	10626.20	151.745	0.60	0.45	-0.39
18767.00	89.230	147.520	8127.21	10673.44	-9439.20	5081.12	1754240.42	400008.73	39°35'44.6852"N	80°15'37.2856"W	10719.91	151.706	0.92	0.88	0.27
18861.00	89.780	148.020	8128.02	10767.41	-9518.72	5131.25	1754290.55	399929.23	39°35'43.9036"N	80°15'36.6366"W	10813.68	151.672	0.79	0.59	0.53
18957.00	89.450	147.820	8128.66	10863.37	-9600.06	5182.24	1754341.53	399847.89	39°35'43.1040"N	80°15'35.9765"W	10909.48	151.639	0.40	-0.34	-0.21
19051.00	89.420	147.750	8129.59	10957.34	-9679.58	5232.35	1754391.64	399768.37	39°35'42.3222"N	80°15'35.3278"W	11003.26	151.606	0.08	-0.03	-0.07
19146.00	89.380	147.720	8130.58	11052.31	-9759.91	5283.06	1754442.35	399688.05	39°35'41.5326"N	80°15'34.6714"W	11098.04	151.573	0.05	-0.04	-0.03
19240.00	89.320	147.540	8131.65	11146.28	-9839.30	5333.38	1754492.67	399608.67	39°35'40.7523"N	80°15'34.0200"W	11191.81	151.540	0.20	-0.06	-0.19
19335.00	89.170	147.370	8132.90	11241.26	-9919.37	5384.48	1754543.76	399528.60	39°35'39.9652"N	80°15'33.3586"W	11286.57	151.506	0.24	-0.16	-0.18
19430.00	89.570	146.680	8133.95	11336.24	-9999.06	5436.19	1754595.46	399448.91	39°35'39.1819"N	80°15'32.6895"W	11381.27	151.468	0.84	0.42	-0.73
19525.00	89.540	146.550	8134.69	11431.24	-10078.38	5488.46	1754647.73	399369.59	39°35'38.4024"N	80°15'32.0132"W	11475.93	151.428	0.14	-0.03	-0.14
19620.00	89.350	146.590	8135.61	11526.23	-10157.66	5540.79	1754700.07	399290.32	39°35'37.6233"N	80°15'31.3362"W	11570.59	151.388	0.20	-0.20	0.04
19715.00	89.290	146.740	8136.73	11621.23	-10237.03	5593.00	1754752.26	399210.96	39°35'36.8433"N	80°15'30.6608"W	11665.26	151.350	0.17	-0.06	0.16
19810.00	89.170	146.120	8138.01	11716.22	-10316.17	5645.52	1754804.79	399131.82	39°35'36.0655"N	80°15'29.9813"W	11759.91	151.310	0.66	-0.13	-0.65
19905.00	89.540	147.000	8139.08	11811.21	-10395.44	5697.87	1754857.13	399052.55	39°35'35.2865"N	80°15'29.3041"W	11854.57	151.272	1.00	0.39	0.93
20001.00	90.830	146.620	8138.77	11907.20	-10475.78	5750.42	1754909.68	398972.22	39°35'34.4969"N	80°15'28.6242"W	11950.28	151.237	1.40	1.34	-0.40
20096.00	90.460	146.750	8137.70	12002.20	-10555.16	5802.59	1754961.85	398892.84	39°35'33.7168"N	80°15'27.9491"W	12044.98	151.201	0.41	-0.39	0.14
20185.00	90.310	146.380	8137.10	12091.19	-10629.43	5851.63	1755010.88	398818.58	39°35'32.9869"N	80°15'27.3148"W	12133.69	151.167	0.45	-0.17	-0.42
20210.00‡	90.310	146.380	8136.97	12116.19	-10650.25	5865.47	1755024.72	398797.76	39°35'32.7823"N	80°15'27.1357"W	12158.60	151.157	0.00	0.00	0.00



Actual Wellpath Report

McClellan 2H AWP Proj: 20210'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 2H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 2H AWB
Slot	Slot #02		

HOLE & CASING SECTIONS - Ref Wellbore: McClellan 2H AWB Ref Wellpath: McClellan 2H AWP Proj: 20210'										
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]	
32in Open Hole	28.00	128.00	100.00	28.00	128.00	0.00	0.00	0.12	0.57	
24in Conductor	28.00	128.00	100.00	28.00	128.00	0.00	0.00	0.12	0.57	
17.5in Open Hole	128.00	1468.00	1340.00	128.00	1467.95	0.12	0.57	-1.50	2.07	
13.375in Casing Surface	28.00	1438.00	1410.00	28.00	1437.95	0.00	0.00	-1.38	2.00	
12.25in Open Hole	1468.00	2738.00	1270.00	1467.95	2737.73	-1.50	2.07	-6.98	7.93	
9.625in Casing Intermediate	28.00	2708.00	2680.00	28.00	2707.74	0.00	0.00	-7.06	7.19	
8.75in Open Hole	2738.00	7578.00	4840.00	2737.73	7466.75	-6.98	7.93	-325.16	-856.85	
8.5in Open Hole	7578.00	20210.00	12632.00	7466.75	8136.97	-325.16	-856.85	-10650.25	5865.47	
5.5in Casing Production	28.00	20210.00	20182.00	28.00	8136.97	0.00	0.00	-10650.25	5865.47	



Actual Wellpath Report

McClellan 2H AWP Proj: 20210'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 2H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 2H AWB
Slot	Slot #02		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
McClellan 2H BHL Rev-9	8000.00	-10649.64	5867.13	1755026.38	398798.37	39°35'32.7885"N	80°15'27.1146"W	point
McClellan 2H LP Rev-6	8000.00	-976.88	-565.90	1748593.74	408470.54	39°37'7.8365"N	80°16'50.3609"W	point
McClellan Hardline #1 (8.31.21)	8529.00	-1245.11	1556.08	1750715.60	408202.33	39°37'5.3671"N	80°16'23.2158"W	polygon
2D Polygon: dimensions not calculated								
McClellan Hardline #10 (8.31.21)	8529.00	-12553.09	3151.12	1752310.54	396895.04	39°35'13.7495"N	80°16'1.6000"W	polygon
2D Polygon: dimensions not calculated								
McClellan Hardline #11 (8.31.21)	8529.00	-10564.90	6967.79	1756126.98	398883.11	39°35'33.7174"N	80°15'13.0643"W	polygon
2D Polygon: dimensions not calculated								
McClellan Hardline #12 (8.31.21)	8529.00	-10004.04	8237.41	1757396.51	399443.93	39°35'39.3651"N	80°14'56.9065"W	polygon
2D Polygon: dimensions not calculated								
McClellan Hardline #13 (8.31.21)	8529.00	-10091.03	4235.12	1753394.47	399356.95	39°35'38.1725"N	80°15'48.0219"W	polygon
2D Polygon: dimensions not calculated								
McClellan Hardline #2 (8.31.21)	8529.00	-1552.98	1766.87	1750926.37	407894.48	39°37'2.3424"N	80°16'20.4885"W	polygon
2D Polygon: dimensions not calculated								



Actual Wellpath Report

McClellan 2H AWP Proj: 20210'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 2H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 2H AWB
Slot	Slot #02		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
McClellan Hardline #3 (8.31.21)	8529.00	-1741.58	5595.36	1754754.63	407705.88	39°37'0.8009"N	80°15'31.5471"W	polygon
	2D Polygon: dimensions not calculated							
McClellan Hardline #4 (8.31.21)	8529.00	-3117.58	2983.93	1752143.36	406329.97	39°36'46.9831"N	80°16'4.7658"W	polygon
	2D Polygon: dimensions not calculated							
McClellan Hardline #5 (8.31.21)	8529.00	-4607.09	3228.31	1752387.72	404840.56	39°36'32.2836"N	80°16'1.4808"W	polygon
	2D Polygon: dimensions not calculated							
McClellan Hardline #6 (8.31.21)	8529.00	-7570.99	7068.01	1756227.19	401876.83	39°36'3.3135"N	80°15'12.1048"W	polygon
	2D Polygon: dimensions not calculated							
McClellan Hardline #7 (8.31.21)	8529.00	-10214.07	3025.67	1752185.09	399233.92	39°35'36.8547"N	80°16'3.4577"W	polygon
	2D Polygon: dimensions not calculated							
McClellan Hardline #8 (8.31.21)	8529.00	-10256.79	2979.36	1752138.79	399191.20	39°35'36.4286"N	80°16'4.0446"W	polygon
	2D Polygon: dimensions not calculated							
McClellan Hardline #9 (8.31.21)	8529.00	-10919.01	3007.61	1752167.03	398529.02	39°35'29.8865"N	80°16'3.6114"W	polygon
	2D Polygon: dimensions not calculated							



Actual Wellpath Report
 McClellan 2H AWP Proj: 20210'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 2H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 2H AWB
Slot	Slot #02		

WELLPATH COMPOSITION - Ref Wellbore: McClellan 2H AWB Ref Wellpath: McClellan 2H AWP Proj: 20210'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1450.00	BH Generic gyro - northseeking (Standard)	01_Javins Inertial Gyro <17-1/2">(50'-1450')	McClellan 2H AWB	13/Oct/2021
1450.00	7513.00	OWSG MWD rev2 + HRGM	02_Tally MWD <8-3/4">(1450')(1468'-7513')	McClellan 2H AWB	13/Oct/2021
7513.00	20210.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	03_BH AT Curve <8-1/2">(7513')(7605'-20185')	McClellan 2H AWB	13/Oct/2021



Actual Wellpath Report

McClellan 2H AWP Proj: 20210'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 2H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 2H AWB
Slot	Slot #02		

COMMENTS
<p>Wellpath general comments API: 47-061-01883-0000 BH Job #: 111066126 Rig: Patterson 277 Duration: 10/14/2021-10/18/2021 Javins Gyro <12-1/4"> (50'-1450') Tally MWD <8-3/4"> (1450')(1468'-7513') BH AT Curve <8-1/2"> (7513')(7605'-20185') Projected MD at TD: 20210'</p>