

Actual Wellpath Report

McClellan 1H ST01 AWP Proj: 21165'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 1H ST01
Field	Monongalia	API	37061018820100
Facility	McClellan Pad	Wellbore	McClellan 1H ST01 AWB
Slot	Slot #01	Sidetrack from	McClellan 1H AWP Proj: 23386' at 7596.00 MD

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Manajohj
Scale	0.999941	Report Generated	9/6/2022 at 12:59:51 PM
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	0.43	-74.68	1749110.32	409496.33	39°37'18.0189"N	80°16'43.8731"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

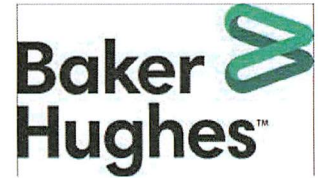
WELLPATH DATUM			
Calculation method	Minimum curvature	Patterson 277 (RKB) to Facility Vertical Datum	1440.00ft
Horizontal Reference Pt	Slot	Patterson 277 (RKB) to Mean Sea Level	1440.00ft
Vertical Reference Pt	Patterson 277 (RKB)	Patterson 277 (RKB) to Ground Level at Slot (Slot #01)	28.00ft
MD Reference Pt	Patterson 277 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	326.37°

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 Office of Oil and Gas
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 WV Department of
 Environmental Protection



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Facility	McClellan Pad	Wellbore	McClellan 1H ST01 AWB
Slot	Slot #01	Sidetrack from	McClellan 1H AWP Proj: 23386' at 7596.00 MD

WELLPATH DATA (239 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	218.800	0.00	0.00	0.00	0.00	1749110.32	409496.33	39°37'18.0189"N	80°16'43.8731"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	218.800	28.00	0.00	0.00	0.00	1749110.32	409496.33	39°37'18.0189"N	80°16'43.8731"W	0.00	0.000	0.00	0.00	0.00
50.00	0.250	218.800	50.00	-0.01	-0.04	-0.03	1749110.29	409496.29	39°37'18.0185"N	80°16'43.8734"W	0.05	218.800	1.14	1.14	0.00
100.00	0.220	216.300	100.00	-0.08	-0.20	-0.16	1749110.16	409496.13	39°37'18.0169"N	80°16'43.8750"W	0.25	217.852	0.06	-0.06	-5.00
150.00	0.090	354.400	150.00	-0.08	-0.24	-0.22	1749110.10	409496.09	39°37'18.0165"N	80°16'43.8758"W	0.32	222.207	0.59	-0.26	276.20
200.00	0.210	182.200	200.00	-0.12	-0.29	-0.22	1749110.10	409496.04	39°37'18.0160"N	80°16'43.8759"W	0.37	217.540	0.60	0.24	-344.40
250.00	0.180	69.700	250.00	-0.21	-0.35	-0.15	1749110.17	409495.98	39°37'18.0154"N	80°16'43.8750"W	0.39	203.340	0.65	-0.06	-225.00
300.00	0.310	185.400	300.00	-0.33	-0.46	-0.09	1749110.23	409495.87	39°37'18.0143"N	80°16'43.8742"W	0.47	191.278	0.84	0.26	231.40
350.00	0.140	328.800	350.00	-0.38	-0.54	-0.14	1749110.18	409495.79	39°37'18.0135"N	80°16'43.8747"W	0.56	194.075	0.86	-0.34	286.80
400.00	0.370	155.000	400.00	-0.48	-0.64	-0.10	1749110.22	409495.69	39°37'18.0126"N	80°16'43.8743"W	0.65	188.896	1.02	0.46	-347.60
450.00	0.170	234.500	450.00	-0.64	-0.83	-0.09	1749110.23	409495.50	39°37'18.0107"N	80°16'43.8741"W	0.83	186.349	0.76	-0.40	159.00
500.00	0.100	344.700	500.00	-0.60	-0.83	-0.16	1749110.16	409495.50	39°37'18.0107"N	80°16'43.8751"W	0.85	191.191	0.45	-0.14	220.40
550.00	0.170	68.200	550.00	-0.57	-0.76	-0.11	1749110.21	409495.57	39°37'18.0114"N	80°16'43.8743"W	0.77	187.996	0.37	0.14	167.00
600.00	0.150	235.700	600.00	-0.59	-0.77	-0.09	1749110.23	409495.56	39°37'18.0113"N	80°16'43.8742"W	0.77	186.815	0.64	-0.04	335.00
650.00	0.370	159.800	650.00	-0.75	-0.96	-0.09	1749110.23	409495.37	39°37'18.0095"N	80°16'43.8741"W	0.96	185.383	0.73	0.44	-151.80
700.00	0.230	59.900	700.00	-0.91	-1.06	0.05	1749110.37	409495.27	39°37'18.0085"N	80°16'43.8723"W	1.06	177.167	0.94	-0.28	-199.80
750.00	0.480	166.000	750.00	-1.11	-1.21	0.19	1749110.51	409495.12	39°37'18.0070"N	80°16'43.8705"W	1.23	171.092	1.17	0.50	212.20
800.00	0.510	158.200	799.99	-1.53	-1.62	0.32	1749110.64	409494.71	39°37'18.0029"N	80°16'43.8688"W	1.65	168.726	0.15	0.06	-15.60
850.00	0.200	82.000	849.99	-1.78	-1.82	0.49	1749110.81	409494.51	39°37'18.0010"N	80°16'43.8666"W	1.88	164.831	1.00	-0.62	-152.40
900.00	0.220	318.300	899.99	-1.73	-1.73	0.51	1749110.83	409494.60	39°37'18.0018"N	80°16'43.8663"W	1.81	163.445	0.74	0.04	-247.40
950.00	0.320	290.300	949.99	-1.52	-1.61	0.32	1749110.64	409494.72	39°37'18.0030"N	80°16'43.8688"W	1.64	168.771	0.33	0.20	-56.00
1000.00	0.370	281.500	999.99	-1.29	-1.53	0.03	1749110.35	409494.80	39°37'18.0038"N	80°16'43.8725"W	1.53	178.847	0.15	0.10	-17.60
1050.00	0.210	43.800	1049.99	-1.16	-1.43	-0.06	1749110.26	409494.90	39°37'18.0048"N	80°16'43.8737"W	1.43	182.556	1.03	-0.32	244.60
1100.00	0.200	99.400	1099.99	-1.20	-1.38	0.09	1749110.41	409494.95	39°37'18.0053"N	80°16'43.8718"W	1.38	176.455	0.38	-0.02	111.20
1150.00	0.200	34.500	1149.99	-1.22	-1.32	0.22	1749110.54	409495.01	39°37'18.0059"N	80°16'43.8701"W	1.34	170.515	0.43	0.00	-129.80
1200.00	0.140	343.200	1199.99	-1.13	-1.19	0.25	1749110.57	409495.14	39°37'18.0072"N	80°16'43.8697"W	1.22	168.031	0.31	-0.12	-102.60
1250.00	0.220	232.700	1249.99	-1.08	-1.19	0.16	1749110.48	409495.14	39°37'18.0071"N	80°16'43.8709"W	1.20	172.413	0.60	0.16	-221.00
1300.00	0.240	173.500	1299.99	-1.18	-1.35	0.09	1749110.41	409494.98	39°37'18.0055"N	80°16'43.8717"W	1.36	176.017	0.46	0.04	-118.40
1340.00	0.280	86.100	1339.99	-1.30	-1.43	0.20	1749110.52	409494.90	39°37'18.0048"N	80°16'43.8703"W	1.45	171.993	0.90	0.10	-218.50
1499.00	0.440	212.500	1498.99	-1.74	-1.92	0.26	1749110.58	409494.41	39°37'18.0000"N	80°16'43.8695"W	1.94	172.261	0.41	0.10	79.50



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Facility	McClellan Pad	Wellbore	McClellan 1H ST01 AWB
Slot	Slot #01	Sidetrack from	McClellan 1H AWP Proj: 23386' at 7596.00 MD

WELLPATH DATA (239 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]
1594.00	0.780	247.110	1593.98	-1.77	-2.48	-0.53	1749109.79	409493.85	39°37'17.9944"N	80°16'43.8796"W	2.54	192.086	0.51	0.36	36.43
1688.00	1.320	242.950	1687.97	-1.53	-3.22	-2.08	1749108.24	409493.11	39°37'17.9869"N	80°16'43.8993"W	3.84	212.916	0.58	0.57	-4.43
1782.00	1.610	217.930	1781.94	-1.82	-4.75	-3.86	1749106.46	409491.58	39°37'17.9716"N	80°16'43.9219"W	6.12	219.078	0.74	0.31	-26.62
1877.00	1.510	235.400	1876.90	-2.26	-6.52	-5.71	1749104.61	409489.81	39°37'17.9540"N	80°16'43.9453"W	8.67	221.227	0.51	-0.11	18.39
1972.00	1.590	234.470	1971.87	-2.33	-7.99	-7.81	1749102.51	409488.34	39°37'17.9392"N	80°16'43.9720"W	11.18	224.347	0.09	0.08	-0.98
2067.00	1.250	241.530	2066.84	-2.28	-9.25	-9.80	1749100.52	409487.08	39°37'17.9266"N	80°16'43.9972"W	13.48	226.634	0.40	-0.36	7.43
2163.00	1.270	231.930	2162.82	-2.27	-10.41	-11.56	1749098.77	409485.92	39°37'17.9151"N	80°16'44.0196"W	15.55	227.988	0.22	0.02	-10.00
2257.00	1.680	206.990	2256.79	-3.02	-12.28	-13.00	1749097.32	409484.05	39°37'17.8965"N	80°16'44.0378"W	17.88	226.635	0.80	0.44	-26.53
2352.00	2.300	210.320	2351.73	-4.54	-15.17	-14.60	1749095.73	409481.16	39°37'17.8678"N	80°16'44.0579"W	21.05	223.902	0.66	0.65	3.51
2447.00	3.060	209.660	2446.62	-6.52	-19.01	-16.81	1749093.51	409477.32	39°37'17.8296"N	80°16'44.0858"W	25.38	221.482	0.80	0.80	-0.69
2542.00	2.610	212.160	2541.51	-8.55	-23.05	-19.22	1749091.10	409473.28	39°37'17.7895"N	80°16'44.1161"W	30.01	219.821	0.49	-0.47	2.63
2636.00	2.510	204.530	2635.41	-10.51	-26.73	-21.21	1749089.11	409469.60	39°37'17.7529"N	80°16'44.1412"W	34.13	218.431	0.38	-0.11	-8.12
2741.00	3.730	202.330	2740.26	-13.64	-31.99	-23.46	1749086.86	409464.35	39°37'17.7008"N	80°16'44.1694"W	39.67	216.264	1.17	1.16	-2.10
2836.00	3.650	220.030	2835.06	-16.22	-37.16	-26.58	1749083.74	409459.17	39°37'17.6494"N	80°16'44.2087"W	45.69	215.580	1.20	-0.08	18.63
2931.00	4.350	251.760	2929.84	-16.11	-40.60	-31.95	1749078.37	409455.73	39°37'17.6149"N	80°16'44.2769"W	51.67	218.200	2.41	0.74	33.40
3026.00	6.670	262.860	3024.40	-12.69	-42.42	-40.85	1749069.47	409453.92	39°37'17.5962"N	80°16'44.3904"W	58.89	223.922	2.68	2.44	11.68
3121.00	9.480	258.530	3118.45	-7.28	-44.66	-53.99	1749056.33	409451.67	39°37'17.5730"N	80°16'44.5581"W	70.07	230.406	3.02	2.96	-4.56
3216.00	11.500	254.760	3211.86	-1.34	-48.70	-70.80	1749039.53	409447.63	39°37'17.5315"N	80°16'44.7724"W	85.93	235.475	2.24	2.13	-3.97
3312.00	13.070	244.620	3305.67	3.24	-55.87	-89.84	1749020.48	409440.46	39°37'17.4590"N	80°16'45.0150"W	105.80	238.123	2.77	1.64	-10.56
3409.00	14.190	237.450	3399.94	5.03	-66.97	-109.78	1749000.55	409429.36	39°37'17.3477"N	80°16'45.2685"W	128.59	238.613	2.09	1.15	-7.39
3504.00	14.570	224.940	3491.99	2.88	-81.70	-128.04	1748982.29	409414.64	39°37'17.2005"N	80°16'45.5002"W	151.88	237.458	3.29	0.40	-13.17
3599.00	15.270	217.840	3583.79	-3.46	-100.04	-144.15	1748966.18	409396.30	39°37'17.0179"N	80°16'45.7041"W	175.46	235.240	2.06	0.74	-7.47
3693.00	15.820	219.300	3674.35	-11.15	-119.73	-159.86	1748950.47	409376.61	39°37'16.8220"N	80°16'45.9026"W	199.73	233.168	0.72	0.59	1.55
3787.00	16.190	218.440	3764.71	-18.95	-139.91	-176.12	1748934.21	409356.43	39°37'16.6212"N	80°16'46.1082"W	224.93	231.537	0.47	0.39	-0.91
3882.00	17.160	221.010	3855.71	-26.74	-160.86	-193.56	1748916.78	409335.48	39°37'16.4126"N	80°16'46.3286"W	251.67	230.271	1.28	1.02	2.71
3977.00	17.180	224.280	3946.48	-33.39	-181.48	-212.55	1748897.79	409314.86	39°37'16.2072"N	80°16'46.5691"W	279.48	229.508	1.02	0.02	3.44
4072.00	17.430	222.920	4037.18	-39.64	-201.94	-232.03	1748878.30	409294.40	39°37'16.0033"N	80°16'46.8158"W	307.60	228.966	0.50	0.26	-1.43
4166.00	17.270	222.860	4126.90	-46.17	-222.48	-251.11	1748859.23	409273.86	39°37'15.7987"N	80°16'47.0573"W	335.49	228.459	0.17	-0.17	-0.06
4264.00	16.100	225.900	4220.78	-52.04	-242.60	-270.76	1748839.57	409253.74	39°37'15.5982"N	80°16'47.3062"W	363.55	228.140	1.49	-1.19	3.10
4358.00	15.360	222.770	4311.26	-57.34	-260.81	-288.58	1748821.76	409235.53	39°37'15.4167"N	80°16'47.5318"W	388.97	227.893	1.20	-0.79	-3.33

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Facility	McClellan Pad	Wellbore	McClellan 1H ST01 AWB
Slot	Slot #01	Sidetrack from	McClellan 1H AWP Proj: 23386' at 7596.00 MD

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4452.00	15.280	226.030	4401.92	-62.49	-278.55	-305.95	1748804.39	409217.80	39°37'15.2399"N	80°16'47.7518"W	413.76	227.684	0.92	-0.09	3.47
4547.00	15.200	224.960	4493.58	-67.20	-296.05	-323.76	1748786.58	409200.29	39°37'15.0654"N	80°16'47.9775"W	438.71	227.559	0.31	-0.08	-1.13
4641.00	14.680	219.260	4584.41	-73.14	-314.00	-340.00	1748770.34	409182.35	39°37'14.8867"N	80°16'48.1831"W	462.81	227.277	1.66	-0.55	-6.06
4736.00	14.540	220.340	4676.34	-79.98	-332.41	-355.34	1748755.00	409163.94	39°37'14.7034"N	80°16'48.3770"W	486.58	226.910	0.32	-0.15	1.14
4831.00	14.430	223.310	4768.32	-85.94	-350.11	-371.18	1748739.16	409146.24	39°37'14.5271"N	80°16'48.5775"W	510.25	226.673	0.79	-0.12	3.13
4925.00	15.130	222.740	4859.21	-91.48	-367.64	-387.54	1748722.80	409128.71	39°37'14.3524"N	80°16'48.7846"W	534.18	226.509	0.76	0.74	-0.61
5020.00	15.160	221.190	4950.91	-97.66	-386.10	-404.13	1748706.21	409110.26	39°37'14.1686"N	80°16'48.9946"W	558.92	226.308	0.43	0.03	-1.63
5115.00	17.580	223.310	5042.05	-104.15	-405.89	-422.16	1748688.19	409090.47	39°37'13.9715"N	80°16'49.2227"W	585.63	226.126	2.62	2.55	2.23
5212.00	16.540	215.340	5134.79	-112.42	-427.81	-440.20	1748670.15	409068.54	39°37'13.7533"N	80°16'49.4508"W	613.84	225.817	2.64	-1.07	-8.22
5306.00	14.940	215.890	5225.27	-121.46	-448.54	-455.04	1748655.31	409047.81	39°37'13.5471"N	80°16'49.6382"W	638.95	225.412	1.71	-1.70	0.59
5400.00	13.920	219.700	5316.30	-128.94	-467.06	-469.37	1748640.98	409029.30	39°37'13.3629"N	80°16'49.8192"W	662.16	225.141	1.48	-1.09	4.05
5495.00	15.040	222.420	5408.28	-135.19	-484.95	-484.98	1748625.37	409011.41	39°37'13.1847"N	80°16'50.0167"W	685.85	225.002	1.38	1.18	2.86
5590.00	16.580	223.020	5499.69	-141.29	-503.96	-502.54	1748607.81	408992.40	39°37'12.9953"N	80°16'50.2391"W	711.71	224.919	1.63	1.62	0.63
5685.00	17.840	223.880	5590.43	-147.57	-524.36	-521.88	1748588.47	408972.00	39°37'12.7921"N	80°16'50.4839"W	739.81	224.864	1.35	1.33	0.91
5779.00	19.070	226.590	5679.60	-153.29	-545.30	-543.02	1748567.34	408951.07	39°37'12.5834"N	80°16'50.7516"W	769.55	224.880	1.60	1.31	2.88
5873.00	19.150	224.070	5768.42	-159.19	-566.93	-564.90	1748545.46	408929.44	39°37'12.3677"N	80°16'51.0288"W	800.32	224.897	0.88	0.09	-2.68
5968.00	17.780	224.900	5858.53	-165.39	-588.40	-585.97	1748524.38	408907.97	39°37'12.1537"N	80°16'51.2958"W	830.41	224.882	1.47	-1.44	0.87
6066.00	18.280	226.060	5951.71	-171.12	-609.66	-607.60	1748502.76	408886.71	39°37'11.9417"N	80°16'51.5698"W	860.74	224.903	0.63	0.51	1.18
6161.00	18.620	225.570	6041.83	-176.62	-630.62	-629.16	1748481.20	408865.75	39°37'11.7328"N	80°16'51.8430"W	890.80	224.934	0.39	0.36	-0.52
6256.00	17.820	223.630	6132.07	-182.67	-651.76	-650.02	1748460.34	408844.61	39°37'11.5221"N	80°16'52.1072"W	920.50	224.924	1.06	-0.84	-2.04
6351.00	16.730	225.610	6222.78	-188.43	-671.84	-669.82	1748440.54	408824.53	39°37'11.3219"N	80°16'52.3580"W	948.70	224.914	1.30	-1.15	2.08
6445.00	16.790	226.680	6312.79	-193.24	-690.62	-689.37	1748420.99	408805.75	39°37'11.1346"N	80°16'52.6057"W	975.80	224.948	0.33	0.06	1.14
6539.00	16.590	223.000	6402.83	-198.63	-709.75	-708.40	1748401.96	408786.62	39°37'10.9439"N	80°16'52.8467"W	1002.78	224.945	1.14	-0.21	-3.91
6633.00	16.740	225.090	6492.88	-204.38	-729.12	-727.14	1748383.23	408767.25	39°37'10.7509"N	80°16'53.0840"W	1029.73	224.922	0.66	0.16	2.22
6727.00	16.420	223.360	6582.98	-210.02	-748.34	-745.85	1748364.52	408748.04	39°37'10.5594"N	80°16'53.3210"W	1056.55	224.904	0.63	-0.34	-1.84
6821.00	16.270	222.220	6673.18	-216.23	-767.75	-763.82	1748346.55	408728.63	39°37'10.3660"N	80°16'53.5485"W	1082.99	224.853	0.38	-0.16	-1.21
6915.00	16.090	224.690	6763.45	-222.09	-786.76	-781.83	1748328.54	408709.61	39°37'10.1765"N	80°16'53.7765"W	1109.17	224.820	0.76	-0.19	2.63
7014.00	15.630	228.030	6858.69	-226.80	-805.44	-801.39	1748308.98	408690.94	39°37'9.9903"N	80°16'54.0244"W	1136.20	224.856	1.03	-0.46	3.37
7108.00	16.040	228.850	6949.12	-230.34	-822.45	-820.59	1748289.79	408673.93	39°37'9.8205"N	80°16'54.2678"W	1161.80	224.935	0.50	0.44	0.87
7203.00	16.710	226.480	7040.27	-234.40	-840.49	-840.37	1748270.00	408655.89	39°37'9.6405"N	80°16'54.5186"W	1188.55	224.996	1.00	0.71	-2.49



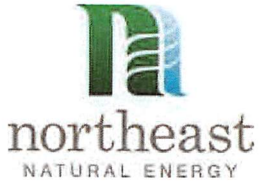
Actual Wellpath Report

McClellan 1H ST01 AWP Proj: 21165'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 1H ST01
Field	Monongalia	API	37061018820100
Facility	McClellan Pad	Wellbore	McClellan 1H ST01 AWB
Slot	Slot #01	Sidetrack from	McClellan 1H AWP Proj: 23386' at 7596.00 MD

WELLPATH DATA (239 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]
7297.00	17.220	222.450	7130.18	-240.07	-860.06	-859.56	1748250.81	408636.32	39°37'9.4455"N	80°16'54.7617"W	1215.96	224.983	1.36	0.54	-4.29
7317.00	17.230	222.310	7149.28	-241.50	-864.44	-863.56	1748246.82	408631.94	39°37'9.4019"N	80°16'54.8122"W	1221.88	224.971	0.21	0.05	-0.70
7407.00	15.730	217.980	7235.59	-248.59	-883.92	-880.04	1748230.34	408612.47	39°37'9.2080"N	80°16'55.0207"W	1247.31	224.874	2.15	-1.67	-4.81
7501.00	15.110	222.480	7326.21	-255.55	-903.00	-896.15	1748214.22	408593.39	39°37'9.0180"N	80°16'55.2245"W	1272.20	224.782	1.43	-0.66	4.79
7596.00	16.490	253.850	7417.78	-254.47	-915.90	-917.51	1748192.87	408580.48	39°37'8.8887"N	80°16'55.4959"W	1296.41	225.050	9.00	1.45	33.02
7690.00	14.310	264.370	7508.42	-245.00	-920.75	-941.89	1748168.49	408575.63	39°37'8.8386"N	80°16'55.8069"W	1317.17	225.650	3.76	-2.32	11.19
7785.00	19.090	268.630	7599.39	-231.19	-922.28	-969.12	1748141.26	408574.11	39°37'8.8212"N	80°16'56.1547"W	1337.83	226.419	5.19	5.03	4.48
7880.00	26.600	282.230	7686.93	-207.59	-918.13	-1005.51	1748104.87	408578.25	39°37'8.8590"N	80°16'56.6202"W	1361.63	227.601	9.62	7.91	14.32
7975.00	34.440	282.270	7768.71	-172.98	-907.90	-1052.62	1748057.76	408588.48	39°37'8.9561"N	80°16'57.2233"W	1390.07	229.222	8.25	8.25	0.04
8069.00	41.530	291.730	7842.81	-128.16	-890.68	-1107.66	1748002.73	408605.70	39°37'9.1215"N	80°16'57.9286"W	1421.35	231.197	9.74	7.54	10.06
8163.00	50.710	301.580	7907.98	-69.29	-859.99	-1167.80	1747942.59	408636.39	39°37'9.4197"N	80°16'58.7005"W	1450.29	233.631	12.32	9.77	10.48
8257.00	59.210	302.690	7961.90	0.83	-819.06	-1232.89	1747877.51	408677.32	39°37'9.8186"N	80°16'59.5368"W	1480.16	236.402	9.09	9.04	1.18
8351.00	67.550	301.200	8003.99	77.26	-774.67	-1304.15	1747806.25	408721.71	39°37'10.2511"N	80°17'0.4524"W	1516.88	239.290	8.98	8.87	-1.59
8444.00	76.170	305.920	8032.93	158.66	-725.80	-1377.66	1747732.75	408770.57	39°37'10.7277"N	80°17'1.3971"W	1557.15	242.218	10.45	9.27	5.08
8539.00	84.390	309.700	8048.96	247.34	-668.43	-1451.53	1747658.88	408827.94	39°37'11.2883"N	80°17'2.3475"W	1598.04	245.274	9.50	8.65	3.98
8634.00	88.310	311.160	8055.01	338.49	-606.96	-1523.68	1747586.73	408889.41	39°37'11.8896"N	80°17'3.2763"W	1640.12	248.280	4.40	4.13	1.54
8728.00	88.430	317.110	8057.68	430.27	-541.55	-1591.09	1747519.33	408954.81	39°37'12.5301"N	80°17'4.1450"W	1680.73	251.203	6.33	0.13	6.33
8823.00	89.020	328.370	8059.80	524.91	-466.08	-1648.50	1747461.92	409030.27	39°37'13.2710"N	80°17'4.8870"W	1713.12	254.213	11.87	0.62	11.85
8917.00	89.170	328.590	8061.29	618.83	-385.96	-1697.63	1747412.79	409110.39	39°37'14.0586"N	80°17'5.5239"W	1740.96	257.191	0.28	0.16	0.23
9012.00	88.030	328.670	8063.61	713.73	-304.88	-1747.07	1747363.36	409191.47	39°37'14.8557"N	80°17'6.1647"W	1773.47	260.101	1.20	-1.20	0.08
9107.00	86.860	326.660	8067.84	808.60	-224.69	-1797.83	1747312.60	409271.65	39°37'15.6437"N	80°17'6.8222"W	1811.82	262.876	2.45	-1.23	-2.12
9202.00	85.930	326.490	8073.82	903.41	-145.56	-1850.06	1747260.38	409350.78	39°37'16.4212"N	80°17'7.4985"W	1855.77	265.501	1.00	-0.98	-0.18
9297.00	85.720	326.600	8080.73	998.16	-66.51	-1902.29	1747208.15	409429.82	39°37'17.1979"N	80°17'8.1748"W	1903.45	267.998	0.25	-0.22	0.12
9391.00	83.740	325.930	8089.37	1091.76	11.33	-1954.27	1747156.17	409507.66	39°37'17.9627"N	80°17'8.8477"W	1954.30	270.332	2.22	-2.11	-0.71
9486.00	84.950	326.430	8098.73	1186.29	89.87	-2006.88	1747103.56	409586.19	39°37'18.7343"N	80°17'9.5289"W	2008.89	272.564	1.38	1.27	0.53
9581.00	84.950	326.750	8107.09	1280.92	168.86	-2058.99	1747051.46	409665.18	39°37'19.5104"N	80°17'10.2036"W	2065.90	274.688	0.34	0.00	0.34
9675.00	85.010	326.660	8115.31	1374.56	247.13	-2110.39	1747000.06	409743.44	39°37'20.2795"N	80°17'10.8692"W	2124.81	276.679	0.11	0.06	-0.10
9769.00	85.960	326.790	8122.71	1468.27	325.47	-2161.81	1746948.65	409821.78	39°37'21.0493"N	80°17'11.5350"W	2186.17	278.562	1.02	1.01	0.14
9863.00	85.750	326.540	8129.51	1562.02	403.80	-2213.33	1746897.13	409900.11	39°37'21.8189"N	80°17'12.2021"W	2249.86	280.339	0.35	-0.22	-0.27
9958.00	87.810	326.830	8134.84	1656.86	483.06	-2265.42	1746845.04	409979.36	39°37'22.5977"N	80°17'12.8767"W	2316.35	282.037	2.19	2.17	0.31



Actual Wellpath Report

McClellan 1H ST01 AWP Proj: 21165'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	NORTHEAST NATURAL ENERGY, LLC		Well	McClellan 1H ST01
Field	Monongalia		API	37061018820100
Facility	McClellan Pad		Wellbore	McClellan 1H ST01 AWB
Slot	Slot #01		Sidetrack from	McClellan 1H AWP Proj: 23386' at 7596.00 MD

WELLPATH DATA (239 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]
10053.00	87.230	326.700	8138.96	1751.77	562.44	-2317.44	1746793.02	410058.74	39°37'23.3777"N	80°17'13.5503"W	2384.71	283.642	0.63	-0.61	-0.14
10148.00	87.540	327.080	8143.29	1846.67	641.94	-2369.28	1746741.19	410138.23	39°37'24.1588"N	80°17'14.2217"W	2454.70	285.160	0.52	0.33	0.40
10243.00	87.660	326.880	8147.27	1941.58	721.52	-2421.00	1746689.47	410217.81	39°37'24.9408"N	80°17'14.8916"W	2526.23	286.595	0.25	0.13	-0.21
10338.00	87.600	326.800	8151.20	2036.49	800.98	-2472.92	1746637.55	410297.26	39°37'25.7216"N	80°17'15.5640"W	2599.40	287.947	0.11	-0.06	-0.08
10433.00	89.110	327.070	8153.92	2131.45	880.56	-2524.73	1746585.75	410376.84	39°37'26.5036"N	80°17'16.2350"W	2673.88	289.228	1.61	1.59	0.28
10528.00	88.950	326.890	8155.53	2226.43	960.21	-2576.49	1746533.99	410456.48	39°37'27.2862"N	80°17'16.9054"W	2749.60	290.439	0.25	-0.17	-0.19
10622.00	88.800	326.860	8157.38	2320.41	1038.91	-2627.85	1746482.63	410535.18	39°37'28.0596"N	80°17'17.5705"W	2825.76	291.571	0.16	-0.16	-0.03
10717.00	88.580	326.230	8159.55	2415.38	1118.15	-2680.20	1746430.28	410614.42	39°37'28.8381"N	80°17'18.2485"W	2904.09	292.645	0.70	-0.23	-0.66
10811.00	89.140	326.940	8161.42	2509.36	1196.60	-2731.96	1746378.53	410692.86	39°37'29.6089"N	80°17'18.9187"W	2982.52	293.653	0.96	0.60	0.76
10906.00	88.980	326.670	8162.98	2604.34	1276.09	-2783.96	1746326.53	410772.34	39°37'30.3899"N	80°17'19.5922"W	3062.49	294.625	0.33	-0.17	-0.28
11000.00	89.260	327.040	8164.42	2698.33	1354.78	-2835.35	1746275.14	410851.03	39°37'31.1632"N	80°17'20.2578"W	3142.40	295.539	0.49	0.30	0.39
11095.00	89.450	326.580	8165.49	2793.32	1434.28	-2887.35	1746223.14	410930.52	39°37'31.9443"N	80°17'20.9313"W	3223.97	296.416	0.52	0.20	-0.48
11190.00	90.250	326.390	8165.74	2888.32	1513.48	-2939.81	1746170.69	411009.72	39°37'32.7225"N	80°17'21.6105"W	3306.52	297.240	0.87	0.84	-0.20
11285.00	90.150	325.540	8165.41	2983.32	1592.21	-2992.98	1746117.52	411088.44	39°37'33.4959"N	80°17'22.2988"W	3390.14	298.012	0.90	-0.11	-0.89
11379.00	90.220	326.210	8165.10	3077.31	1670.02	-3045.71	1746064.79	411166.25	39°37'34.2603"N	80°17'22.9815"W	3473.52	298.737	0.72	0.07	0.71
11474.00	90.000	325.860	8164.92	3172.31	1748.81	-3098.79	1746011.72	411245.03	39°37'35.0343"N	80°17'23.6686"W	3558.20	299.438	0.44	-0.23	-0.37
11569.00	90.090	325.820	8164.85	3267.31	1827.42	-3152.13	1745958.38	411323.64	39°37'35.8065"N	80°17'24.3592"W	3643.54	300.103	0.10	0.09	-0.04
11663.00	90.550	326.060	8164.32	3361.30	1905.29	-3204.77	1745905.74	411401.51	39°37'36.5716"N	80°17'25.0407"W	3728.37	300.732	0.55	0.49	0.26
11758.00	91.050	325.740	8163.00	3456.29	1983.95	-3258.03	1745852.49	411480.16	39°37'37.3443"N	80°17'25.7302"W	3814.55	301.339	0.62	0.53	-0.34
11853.00	90.950	325.590	8161.34	3551.27	2062.39	-3311.60	1745798.92	411558.59	39°37'38.1147"N	80°17'26.4237"W	3901.30	301.914	0.19	-0.11	-0.16
11947.00	91.140	325.850	8159.62	3645.24	2140.05	-3364.54	1745745.99	411636.24	39°37'38.8776"N	80°17'27.1089"W	3987.47	302.459	0.34	0.20	0.28
12042.00	91.080	326.050	8157.78	3740.22	2218.74	-3417.72	1745692.81	411714.94	39°37'39.6507"N	80°17'27.7974"W	4074.76	302.991	0.22	-0.06	0.21
12137.00	91.230	326.010	8155.87	3835.20	2297.51	-3470.79	1745639.74	411793.70	39°37'40.4245"N	80°17'28.4846"W	4162.33	303.503	0.16	0.16	-0.04
12233.00	91.420	325.720	8153.65	3931.17	2376.95	-3524.65	1745585.89	411873.14	39°37'41.2049"N	80°17'29.1818"W	4251.24	303.995	0.36	0.20	-0.30
12328.00	90.950	325.970	8151.68	4026.15	2455.55	-3577.97	1745532.57	411951.73	39°37'41.9770"N	80°17'29.8721"W	4339.54	304.462	0.56	-0.49	0.26
12423.00	91.390	326.210	8149.74	4121.13	2534.38	-3630.96	1745479.58	412030.55	39°37'42.7514"N	80°17'30.5582"W	4427.97	304.915	0.53	0.46	0.25
12517.00	91.420	326.130	8147.44	4215.10	2612.44	-3683.28	1745427.27	412108.61	39°37'43.5183"N	80°17'31.2356"W	4515.68	305.347	0.09	0.03	-0.09
12612.00	91.690	326.240	8144.86	4310.06	2691.34	-3736.13	1745374.42	412187.50	39°37'44.2934"N	80°17'31.9199"W	4604.56	305.767	0.31	0.28	0.12
12707.00	91.510	326.010	8142.21	4405.02	2770.18	-3789.06	1745321.49	412266.34	39°37'45.0680"N	80°17'32.6053"W	4693.71	306.171	0.31	-0.19	-0.24
12802.00	90.990	326.430	8140.14	4500.00	2849.12	-3841.87	1745268.69	412345.28	39°37'45.8436"N	80°17'33.2891"W	4783.04	306.561	0.70	-0.55	0.44



Actual Wellpath Report

McClellan 1H ST01 AWP Proj: 21165'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 1H ST01
Field	Monongalia	API	37061018820100
Facility	McClellan Pad	Wellbore	McClellan 1H ST01 AWB
Slot	Slot #01	Sidetrack from	McClellan 1H AWP Proj: 23386' at 7596.00 MD

WELLPATH DATA (239 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]
12897.00	91.020	326.050	8138.47	4594.99	2928.09	-3894.65	1745215.91	412424.24	39°37'46.6194"N	80°17'33.9726"W	4872.58	306.937	0.40	0.03	-0.40
12991.00	91.290	326.220	8136.58	4688.97	3006.13	-3947.02	1745163.54	412502.28	39°37'47.3860"N	80°17'34.6507"W	4961.43	307.294	0.34	0.29	0.18
13085.00	90.990	325.920	8134.71	4782.95	3084.11	-3999.48	1745111.09	412580.25	39°37'48.1520"N	80°17'35.3299"W	5050.50	307.637	0.45	-0.32	-0.32
13180.00	91.690	325.750	8132.48	4877.92	3162.69	-4052.81	1745057.75	412658.83	39°37'48.9240"N	80°17'36.0204"W	5140.81	307.967	0.76	0.74	-0.18
13275.00	92.150	326.020	8129.30	4972.86	3241.30	-4106.07	1745004.51	412737.43	39°37'49.6962"N	80°17'36.7099"W	5231.23	308.287	0.56	0.48	0.28
13369.00	92.180	326.100	8125.75	5066.79	3319.23	-4158.51	1744952.06	412815.35	39°37'50.4617"N	80°17'37.3890"W	5320.76	308.596	0.09	0.03	0.09
13464.00	91.630	326.200	8122.59	5161.74	3398.08	-4211.40	1744899.18	412894.20	39°37'51.2364"N	80°17'38.0738"W	5411.36	308.899	0.59	-0.58	0.11
13559.00	91.910	326.030	8119.66	5256.69	3476.91	-4264.34	1744846.24	412973.02	39°37'52.0108"N	80°17'38.7593"W	5502.13	309.192	0.34	0.29	-0.18
13654.00	92.190	325.950	8116.26	5351.63	3555.61	-4317.44	1744793.14	413051.72	39°37'52.7839"N	80°17'39.4469"W	5593.09	309.473	0.31	0.29	-0.08
13749.00	92.030	326.190	8112.76	5446.56	3634.38	-4370.43	1744740.16	413130.48	39°37'53.5577"N	80°17'40.1331"W	5684.13	309.746	0.30	-0.17	0.25
13843.00	91.600	325.750	8109.78	5540.51	3712.24	-4423.01	1744687.58	413208.34	39°37'54.3226"N	80°17'40.8138"W	5774.40	310.007	0.65	-0.46	-0.47
13939.00	91.660	325.820	8107.05	5636.47	3791.59	-4476.97	1744633.63	413287.69	39°37'55.1021"N	80°17'41.5125"W	5866.81	310.262	0.10	0.06	0.07
14033.00	91.880	326.370	8104.15	5730.42	3869.57	-4529.38	1744581.22	413365.66	39°37'55.8682"N	80°17'42.1911"W	5957.25	310.508	0.63	0.23	0.59
14128.00	91.690	325.790	8101.19	5825.37	3948.37	-4582.37	1744528.23	413444.45	39°37'56.6422"N	80°17'42.8773"W	6048.77	310.750	0.64	-0.20	-0.61
14223.00	91.690	325.570	8098.39	5920.33	4026.79	-4635.90	1744474.70	413522.88	39°37'57.4126"N	80°17'43.5704"W	6140.58	310.978	0.23	0.00	-0.23
14317.00	91.380	325.700	8095.87	6014.28	4104.36	-4688.95	1744421.66	413600.44	39°37'58.1745"N	80°17'44.2571"W	6231.53	311.197	0.36	-0.33	0.14
14412.00	91.570	325.860	8093.43	6109.25	4182.88	-4742.35	1744368.26	413678.96	39°37'58.9459"N	80°17'44.9486"W	6323.48	311.413	0.26	0.20	0.17
14507.00	91.380	325.780	8090.98	6204.21	4261.45	-4795.71	1744314.91	413757.52	39°37'59.7176"N	80°17'45.6394"W	6415.51	311.624	0.22	-0.20	-0.08
14602.00	91.290	325.650	8088.77	6299.18	4339.92	-4849.21	1744261.41	413835.99	39°38'0.4884"N	80°17'46.3320"W	6507.67	311.828	0.17	-0.09	-0.14
14697.00	91.660	325.950	8086.32	6394.14	4418.47	-4902.59	1744208.03	413914.53	39°38'1.2600"N	80°17'47.0232"W	6599.86	312.027	0.50	0.39	0.32
14791.00	91.660	325.790	8083.60	6488.10	4496.25	-4955.30	1744155.32	413992.30	39°38'2.0240"N	80°17'47.7058"W	6691.13	312.219	0.17	0.00	-0.17
14886.00	91.850	325.940	8080.69	6583.05	4574.84	-5008.59	1744102.04	414070.89	39°38'2.7961"N	80°17'48.3958"W	6783.45	312.409	0.25	0.20	0.16
14981.00	91.170	327.260	8078.19	6678.01	4654.12	-5060.86	1744049.77	414150.17	39°38'3.5750"N	80°17'49.0729"W	6875.55	312.603	1.56	-0.72	1.39
15076.00	91.140	326.820	8076.27	6772.99	4733.82	-5112.54	1743998.09	414229.86	39°38'4.3580"N	80°17'49.7424"W	6967.57	312.797	0.46	-0.03	-0.46
15171.00	91.080	326.490	8074.43	6867.97	4813.16	-5164.75	1743945.89	414309.20	39°38'5.1376"N	80°17'50.4187"W	7059.83	312.982	0.35	-0.06	-0.35
15266.00	91.080	326.660	8072.64	6962.95	4892.44	-5217.07	1743893.57	414388.47	39°38'5.9164"N	80°17'51.0964"W	7152.18	313.161	0.18	0.00	0.18
15360.00	90.980	326.780	8070.95	7056.94	4971.01	-5268.64	1743842.00	414467.03	39°38'6.6884"N	80°17'51.7645"W	7243.58	313.335	0.17	-0.11	0.13
15454.00	90.550	326.970	8069.70	7150.92	5049.72	-5320.00	1743790.64	414545.74	39°38'7.4618"N	80°17'52.4299"W	7334.99	313.507	0.50	-0.46	0.20
15548.00	90.710	326.790	8068.66	7244.91	5128.45	-5371.36	1743739.29	414624.46	39°38'8.2353"N	80°17'53.0953"W	7426.47	313.675	0.26	0.17	-0.19
15643.00	90.580	326.720	8067.59	7339.91	5207.89	-5423.44	1743687.21	414703.90	39°38'9.0158"N	80°17'53.7699"W	7519.03	313.839	0.16	-0.14	-0.07



Actual Wellpath Report

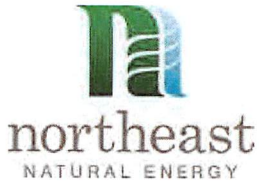
McClellan 1H ST01 AWP Proj: 21165'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 1H ST01
Field	Monongalia	API	37061018820100
Facility	McClellan Pad	Wellbore	McClellan 1H ST01 AWB
Slot	Slot #01	Sidetrack from	McClellan 1H AWP Proj: 23386' at 7596.00 MD

WELLPATH DATA (239 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]
15739.00	90.120	326.790	8067.01	7435.90	5288.18	-5476.07	1743634.59	414784.18	39°38'9.8046"N	80°17'54.4517"W	7612.63	314.000	0.48	-0.48	0.07
15833.00	90.280	326.640	8066.68	7529.90	5366.76	-5527.66	1743583.00	414862.76	39°38'10.5767"N	80°17'55.1200"W	7704.35	314.154	0.23	0.17	-0.16
15928.00	90.310	326.900	8066.19	7624.89	5446.22	-5579.71	1743530.95	414942.22	39°38'11.3574"N	80°17'55.7945"W	7797.09	314.306	0.28	0.03	0.27
16023.00	90.430	326.630	8065.58	7719.89	5525.68	-5631.78	1743478.88	415021.67	39°38'12.1381"N	80°17'56.4690"W	7889.87	314.455	0.31	0.13	-0.28
16118.00	90.400	326.700	8064.89	7814.89	5605.05	-5683.98	1743426.68	415101.04	39°38'12.9179"N	80°17'57.1453"W	7982.75	314.599	0.08	-0.03	0.07
16213.00	90.280	326.560	8064.32	7909.88	5684.39	-5736.24	1743374.43	415180.37	39°38'13.6973"N	80°17'57.8222"W	8075.68	314.740	0.19	-0.13	-0.15
16307.00	90.430	326.840	8063.74	8003.88	5762.95	-5787.85	1743322.83	415258.93	39°38'14.4692"N	80°17'58.4907"W	8167.66	314.877	0.34	0.16	0.30
16402.00	90.120	326.220	8063.28	8098.88	5842.19	-5840.24	1743270.44	415338.17	39°38'15.2477"N	80°17'59.1694"W	8260.73	315.010	0.73	-0.33	-0.65
16497.00	90.310	327.040	8062.93	8193.88	5921.53	-5892.49	1743218.19	415417.50	39°38'16.0272"N	80°17'59.8463"W	8353.80	315.141	0.89	0.20	0.86
16592.00	90.150	326.840	8062.55	8288.87	6001.15	-5944.31	1743166.37	415497.11	39°38'16.8094"N	80°18'0.5178"W	8446.81	315.273	0.27	-0.17	-0.21
16686.00	90.220	326.960	8062.24	8382.87	6079.90	-5995.65	1743115.04	415575.85	39°38'17.5831"N	80°18'1.1829"W	8538.91	315.400	0.15	0.07	0.13
16781.00	90.150	326.690	8061.94	8477.86	6159.41	-6047.63	1743063.06	415655.36	39°38'18.3644"N	80°18'1.8564"W	8632.04	315.525	0.29	-0.07	-0.28
16875.00	90.310	326.490	8061.56	8571.86	6237.88	-6099.39	1743011.30	415733.82	39°38'19.1352"N	80°18'2.5269"W	8724.31	315.643	0.27	0.17	-0.21
16970.00	90.280	326.780	8061.07	8666.86	6317.22	-6151.64	1742959.06	415813.16	39°38'19.9147"N	80°18'3.2038"W	8817.59	315.761	0.31	-0.03	0.31
17064.00	90.060	326.560	8060.79	8760.86	6395.76	-6203.28	1742907.42	415891.69	39°38'20.6863"N	80°18'3.8729"W	8909.91	315.875	0.33	-0.23	-0.23
17159.00	89.720	326.620	8060.97	8855.86	6475.06	-6255.59	1742855.11	415970.99	39°38'21.4654"N	80°18'4.5506"W	9003.27	315.988	0.36	-0.36	0.06
17253.00	90.060	326.630	8061.15	8949.85	6553.55	-6307.30	1742803.40	416049.48	39°38'22.2366"N	80°18'5.2205"W	9095.67	316.097	0.36	0.36	0.01
17348.00	90.000	326.750	8061.10	9044.85	6632.95	-6359.48	1742751.23	416128.87	39°38'23.0166"N	80°18'5.8964"W	9189.07	316.206	0.14	-0.06	0.13
17442.00	90.180	326.650	8060.96	9138.85	6711.51	-6411.08	1742699.63	416207.43	39°38'23.7885"N	80°18'6.5650"W	9281.51	316.312	0.22	0.19	-0.11
17536.00	90.030	326.580	8060.78	9232.85	6790.00	-6462.81	1742647.91	416285.92	39°38'24.5596"N	80°18'7.2351"W	9374.01	316.414	0.18	-0.16	-0.07
17632.00	89.940	326.770	8060.81	9328.85	6870.22	-6515.55	1742595.17	416366.13	39°38'25.3477"N	80°18'7.9185"W	9468.49	316.518	0.22	-0.09	0.20
17727.00	89.970	326.710	8060.88	9423.85	6949.65	-6567.65	1742543.07	416445.56	39°38'26.1281"N	80°18'8.5935"W	9561.99	316.619	0.07	0.03	-0.06
17821.00	89.910	326.820	8060.98	9517.84	7028.28	-6619.17	1742491.56	416524.18	39°38'26.9006"N	80°18'9.2610"W	9654.54	316.717	0.13	-0.06	0.12
17916.00	90.000	326.730	8061.06	9612.84	7107.75	-6671.22	1742439.51	416603.64	39°38'27.6814"N	80°18'9.9355"W	9748.09	316.815	0.13	0.09	-0.09
18010.00	90.120	326.720	8060.96	9706.84	7186.34	-6722.80	1742387.94	416682.23	39°38'28.4535"N	80°18'10.6037"W	9840.70	316.909	0.13	0.13	-0.01
18105.00	90.060	326.650	8060.81	9801.84	7265.73	-6774.97	1742335.76	416761.61	39°38'29.2334"N	80°18'11.2797"W	9934.34	317.002	0.10	-0.06	-0.07
18201.00	90.220	327.040	8060.58	9897.83	7346.10	-6827.48	1742283.26	416841.98	39°38'30.0230"N	80°18'11.9600"W	10028.94	317.096	0.44	0.17	0.41
18295.00	89.970	326.400	8060.42	9991.83	7424.68	-6879.06	1742231.68	416920.55	39°38'30.7951"N	80°18'12.6283"W	10121.62	317.185	0.73	-0.27	-0.68
18390.00	89.880	326.660	8060.54	10086.83	7503.93	-6931.45	1742179.29	416999.80	39°38'31.5736"N	80°18'13.3071"W	10215.38	317.271	0.29	-0.09	0.27
18486.00	89.910	326.310	8060.72	10182.83	7583.96	-6984.46	1742126.29	417079.83	39°38'32.3599"N	80°18'13.9938"W	10310.15	317.356	0.37	0.03	-0.36



Actual Wellpath Report

McClellan 1H ST01 AWP Proj: 21165'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 1H ST01
Field	Monongalia	API	37061018820100
Facility	McClellan Pad	Wellbore	McClellan 1H ST01 AWB
Slot	Slot #01	Sidetrack from	McClellan 1H AWP Proj: 23386' at 7596.00 MD

WELLPATH DATA (239 stations) † = interpolated, ‡ = extrapolated station

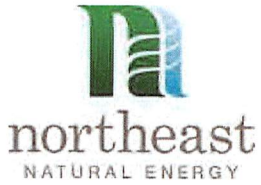
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
18581.00	90.090	326.900	8060.72	10277.83	7663.28	-7036.75	1742074.01	417159.14	39°38'33.1391"N	80°18'14.6713"W	10403.92	317.441	0.65	0.19	0.62
18675.00	89.820	326.470	8060.79	10371.83	7741.83	-7088.37	1742022.38	417237.69	39°38'33.9108"N	80°18'15.3402"W	10496.71	317.523	0.54	-0.29	-0.46
18770.00	89.910	326.840	8061.02	10466.83	7821.19	-7140.59	1741970.16	417317.04	39°38'34.6905"N	80°18'16.0168"W	10590.52	317.605	0.40	0.09	0.39
18864.00	89.630	326.880	8061.39	10560.82	7899.90	-7191.98	1741918.78	417395.75	39°38'35.4638"N	80°18'16.6827"W	10683.31	317.686	0.30	-0.30	0.04
18959.00	89.540	326.620	8062.08	10655.82	7979.35	-7244.07	1741866.70	417475.19	39°38'36.2443"N	80°18'17.3576"W	10777.13	317.765	0.29	-0.09	-0.27
19054.00	89.540	326.600	8062.85	10750.81	8058.66	-7296.35	1741814.42	417554.50	39°38'37.0235"N	80°18'18.0350"W	10871.00	317.842	0.02	0.00	-0.02
19148.00	89.450	326.150	8063.67	10844.81	8136.93	-7348.40	1741762.37	417632.76	39°38'37.7924"N	80°18'18.7093"W	10963.97	317.915	0.49	-0.10	-0.48
19243.00	89.420	326.530	8064.61	10939.81	8216.00	-7401.05	1741709.72	417711.83	39°38'38.5691"N	80°18'19.3914"W	11057.95	317.987	0.40	-0.03	0.40
19338.00	89.290	326.420	8065.68	11034.80	8295.19	-7453.52	1741657.26	417791.01	39°38'39.3471"N	80°18'20.0712"W	11151.91	318.059	0.18	-0.14	-0.12
19433.00	89.380	326.610	8066.78	11129.79	8374.42	-7505.93	1741604.85	417870.24	39°38'40.1254"N	80°18'20.7502"W	11245.88	318.130	0.22	0.09	0.20
19527.00	88.890	326.160	8068.20	11223.78	8452.69	-7557.96	1741552.82	417948.50	39°38'40.8943"N	80°18'21.4243"W	11338.90	318.199	0.71	-0.52	-0.48
19622.00	89.630	326.750	8069.43	11318.77	8531.86	-7610.45	1741500.34	418027.67	39°38'41.6721"N	80°18'22.1044"W	11432.92	318.267	1.00	0.78	0.62
19716.00	89.420	326.500	8070.21	11412.77	8610.36	-7662.16	1741448.63	418106.16	39°38'42.4432"N	80°18'22.7744"W	11525.92	318.335	0.35	-0.22	-0.27
19812.00	90.180	326.470	8070.54	11508.77	8690.39	-7715.17	1741395.63	418186.19	39°38'43.2295"N	80°18'23.4612"W	11620.96	318.402	0.79	0.79	-0.03
19906.00	90.030	326.470	8070.37	11602.77	8768.75	-7767.09	1741343.71	418264.54	39°38'43.9993"N	80°18'24.1339"W	11714.04	318.466	0.16	-0.16	0.00
20002.00	89.910	326.220	8070.42	11698.77	8848.66	-7820.29	1741290.51	418344.45	39°38'44.7843"N	80°18'24.8232"W	11809.14	318.530	0.29	-0.12	-0.26
20096.00	89.420	325.510	8070.97	11792.76	8926.46	-7873.04	1741237.77	418422.25	39°38'45.5485"N	80°18'25.5064"W	11902.37	318.588	0.92	-0.52	-0.76
20191.00	89.570	325.640	8071.81	11887.75	9004.82	-7926.74	1741184.06	418500.60	39°38'46.3181"N	80°18'26.2019"W	11996.67	318.643	0.21	0.16	0.14
20286.00	89.600	325.950	8072.50	11982.74	9083.39	-7980.14	1741130.66	418579.16	39°38'47.0898"N	80°18'26.8936"W	12090.93	318.699	0.33	0.03	0.33
20379.00	89.510	325.890	8073.22	12075.73	9160.41	-8032.26	1741078.56	418656.18	39°38'47.8464"N	80°18'27.5687"W	12183.20	318.754	0.12	-0.10	-0.06
20474.00	89.600	325.530	8073.96	12170.72	9238.90	-8085.77	1741025.04	418734.67	39°38'48.6172"N	80°18'28.2618"W	12277.50	318.808	0.39	0.09	-0.38
20569.00	89.450	325.550	8074.74	12265.71	9317.23	-8139.53	1740971.29	418812.99	39°38'49.3865"N	80°18'28.9580"W	12371.85	318.860	0.16	-0.16	0.02
20663.00	89.540	325.620	8075.57	12359.70	9394.77	-8192.65	1740918.17	418890.53	39°38'50.1481"N	80°18'29.6460"W	12465.20	318.910	0.12	0.10	0.07
20759.00	89.570	325.770	8076.32	12455.69	9474.07	-8246.76	1740864.07	418969.82	39°38'50.9270"N	80°18'30.3468"W	12560.53	318.962	0.16	0.03	0.16
20854.00	89.510	325.560	8077.08	12550.68	9552.51	-8300.34	1740810.49	419048.26	39°38'51.6975"N	80°18'31.0408"W	12654.89	319.012	0.23	-0.06	-0.22
20949.00	89.570	325.930	8077.84	12645.67	9631.03	-8353.81	1740757.02	419126.77	39°38'52.4687"N	80°18'31.7334"W	12749.23	319.062	0.39	0.06	0.39
21044.00	89.420	325.430	8078.68	12740.66	9709.49	-8407.37	1740703.47	419205.23	39°38'53.2392"N	80°18'32.4271"W	12843.60	319.111	0.55	-0.16	-0.53
21139.00	89.630	326.060	8079.47	12835.65	9788.01	-8460.84	1740650.00	419283.74	39°38'54.0104"N	80°18'33.1197"W	12937.96	319.160	0.70	0.22	0.66
21165.00†	89.630	326.060	8079.64	12861.65	9809.58	-8475.36	1740635.48	419305.31	39°38'54.2223"N	80°18'33.3078"W	12963.78	319.173	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: McClellan 1H ST01 AWB Ref Wellpath: McClellan 1H ST01 AWP Proj: 21165'

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]
17.5in Open Hole	28.00	1498.00	1470.00	28.00	1497.99	0.00	0.00	-1.91	0.27

HOLE & CASING SECTIONS - Ref Wellbore: McClellan 1H ST01 AWB Ref Wellpath: McClellan 1H ST01 AWP Proj: 21165'									
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]
13.375in Casing Surface	28.00	1468.00	1440.00	28.00	1467.99	0.00	0.00	-1.74	0.36
12.25in Open Hole	1498.00	2697.00	1199.00	1497.99	2696.34	-1.91	0.27	-29.52	-22.44
9.625in Casing Intermediate	28.00	2667.00	2639.00	28.00	2666.38	0.00	0.00	-28.06	-21.81
8.75in Open Hole	2697.00	7377.00	4680.00	2696.34	7206.74	-29.52	-22.44	-877.48	-874.87
8.5in Open Hole	7377.00	7596.00	219.00	7206.74	7417.78	-877.48	-874.87	-915.90	-917.51
8.5in Open Hole	7596.00	21165.00	13569.00	7417.78	8079.64	-915.90	-917.51	9809.58	-8475.36
5.5in Casing Production	7596.00	21135.00	13539.00	7417.78	8079.44	-915.90	-917.51	9784.69	-8458.61

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
McClellan 1H ST01 BHL Rev-1	8056.28	12330.45	-10145.34	1738965.61	421826.03	39°39'18.9857"N	80°18'54.9489"W	point
McClellan 1H ST01 LP Rev-1	8056.28	-513.24	-1602.31	1747508.11	408983.12	39°37'12.8089"N	80°17'4.2916"W	point
McClellan Hardline #1 (03.15.2022)	8529.00	11935.74	-11005.02	1738105.98	421431.34	39°39'15.0077"N	80°19'5.8940"W	polygon
2D Polygon: dimensions not calculated								



Actual Wellpath Report

McClellan 1H ST01 AWP Proj: 21165'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 1H ST01
Field	Monongalia	API	37061018820100
Facility	McClellan Pad	Wellbore	McClellan 1H ST01 AWB
Slot	Slot #01	Sidetrack from	McClellan 1H AWP Proj: 23386' at 7596.00 MD

WELLPATH COMPOSITION - Ref Wellbore: McClellan 1H ST01 AWB Ref Wellpath: McClellan 1H ST01 AWP Proj: 21165'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1340.00	BH Generic gyro - northseeking (Standard)	01_<17.5"> Javins Inertial Gyro [Northseeking] (50'-1340')	McClellan 1H AWB	8/12/2022
1340.00	2636.00	OWSG MWD rev2 - Standard	02_<12.25">SDI MWD [OWSG MWD REV.2-Standard] (1340')(1499'-2636')	McClellan 1H AWB	8/12/2022
2636.00	7297.00	OWSG MWD rev2 - Standard	03_<8.75">SDI MWD [OWSG MWD REV.2-Standard] (2636')(2741'-7297')	McClellan 1H AWB	8/12/2022
7297.00	7596.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_<8.5"> BH ATK Curve [HRGM+Short Spacing] (7297')(7317'-23323')	McClellan 1H AWB	8/12/2022
7596.00	21165.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05_<8.5"> BH ATK Curve [HRGM+Short Spacing] (7596')(7690'-21139')	McClellan 1H ST01 AWB	8/26/2022



Actual Wellpath Report

McClellan 1H ST01 AWP Proj: 21165'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 1H ST01
Field	Monongalia	API	37061018820100
Facility	McClellan Pad	Wellbore	McClellan 1H ST01 AWB
Slot	Slot #01	Sidetrack from	McClellan 1H AWP Proj: 23386' at 7596.00 MD

COMMENTS
<p>Wellpath general comments API: 37061018820100 BH Job #: 111431583 Rig: Patterson 277 Duration: 8/29/2022 - 9/2/2022</p> <p>05_<8.5"> BH ATK Curve [HRGM+Short Spacing] (7596')(7690'-21139')</p> <p>Final Survey MD @ 21139' Projected MD at TD: 21165' API: 47061018820000 BH Job #: 111431583 Rig: Patterson 277 Duration: 8/12/2022 - 8/18/2022</p> <p>01_<17.5"> Javins Inertial Gyro [Northseeking] (50'-1340') 02_<12.25">SDI MWD [OWSG MWD REV.2-Standard] (1340')(1499'-2636') 03_<8.75">SDI MWD [OWSG MWD REV.2-Standard] (2636')(2741'-7297') 04_<8.5"> BH ATK Curve [HRGM+Short Spacing] (7297')(7317'-23323')</p> <p>Final Survey MD @ 23323' Projected MD at TD: 23386'</p>