

NORTHEAST NATURAL ENERGY, LLC

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

Slot: Slot #03
 Well: McClellan 3H
 Wellbore: McClellan 3H PWB



Well Name	McClellan 3H PWB
Well ID	23501
Well Type	Production
Well Status	Active
Well Depth	14918.97 ft
Well Completion	Open Hole
Well Orientation	Vertical
Well Path	McClellan 3H AWP
Well Path	McClellan 3H Rev A-D

Location Information

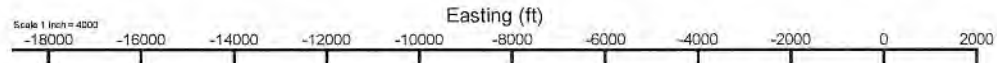
Facility Name	Grid East (US Ft)	Grid North (US Ft)	Latitude	Longitude		
McClellan Pad	1749195.000	406495.500	39° 37' 18.0211" N	80° 10' 42.9182" W		
Slot	Local N (ft)	Local E (ft)	Grid East (US Ft)	Grid North (US Ft)	Latitude	Longitude
Slot #03	19.26	-81.38	1749193.610	406515.160	39° 37' 18.2046" N	80° 10' 43.6609" W
Patterson 277 (KB) to Ground level (At Slot Slot #03)						381
Mean Sea Level to Ground level (At Slot Slot #03)						-1417ft
Patterson 277 (KB) to Mean Sea Level						1400ft

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°100ft)	VS (ft)
Tie On	7015.00	9.670	203.060	6677.35	-441.51	-99.76	0.97	-312.36
Projection	7003.00	9.670	203.060	7054.24	-453.57	-104.91	0.00	-319.55
Curve KOP	7193.00	9.670	203.060	7142.96	-467.48	-110.83	0.00	-327.85
Build-Up	7646.38	19.809	309.480	7596.06	-454.23	-186.70	5.22	-273.70
Landing Point	8453.87	90.000	326.373	8050.00	49.24	-593.87	6.50	384.36
BHL	23480.85	90.000	326.373	8050.00	12536.68	-6868.87	0.00	15361.24

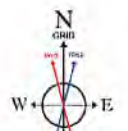
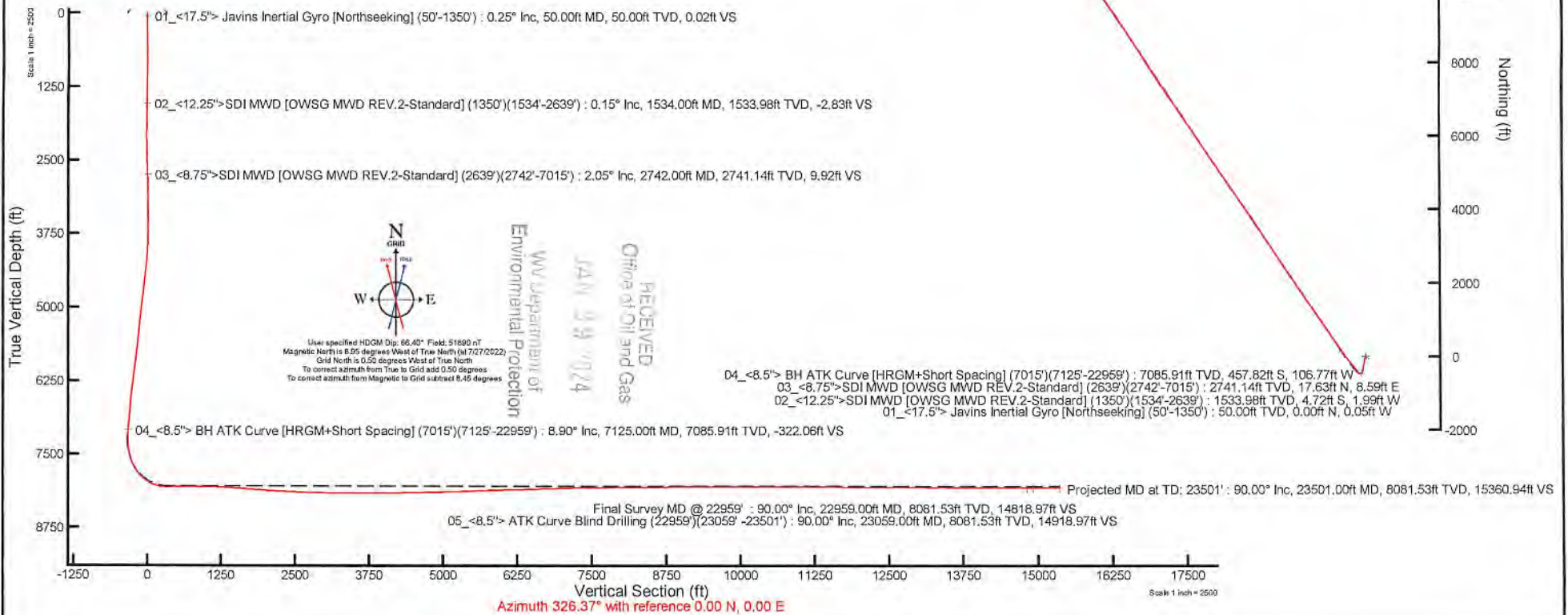
Well Data

Slot	Well	Wellbore	Wellpath
Slot #03	McClellan 3H	McClellan 3H AWP	McClellan 3H AWP Proj 23501
Slot #03	McClellan 3H	McClellan 3H PWB	McClellan 3H Rev A-D



API: 47061018840000
 BH Job #: 111431572
 Rig: Patterson 277
 Duration: 07/29/2022 - 08/02/2022

05_<8.5°> ATK Curve Blind Drilling (22959')(23059' -23501') : 8081.53ft TVD, 12164.09ft N, 8650.28ft W
 Final Survey MD @ 22959' : 8081.53ft TVD, 12080.19ft N, 8595.86ft W



RECEIVED
 Office of Oil and Gas
 JAN 29 2024
 WV Department of
 Environmental Protection

User specified HDGM Dip: 86.40° Field: 51693 nT
 Magnetic North is 8.55 degrees West of True North (at 7/27/2022)
 Grid North is 0.55 degrees West of True North
 To correct azimuth from True to Grid add 0.50 degrees
 To correct azimuth from Magnetic to Grid subtract 8.45 degrees



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'

Page 1 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

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	8/22/2022 at 1:31:11 AM
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	19.28	-81.39	1749103.61	409515.18	39°37'18.2046"N	80°16'43.9609"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 (KB) to Facility Vertical Datum	1440.00ft
Horizontal Reference Pt	Slot	Patterson 277 (KB) to Mean Sea Level	1440.00ft
Vertical Reference Pt	Patterson 277 (KB)	Patterson 277 (KB) to Ground Level at Slot (Slot #03)	28.00ft
MD Reference Pt	Patterson 277 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	326.37°



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'

Page 2 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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	265.800	0.00	0.00	0.00	0.00	1749103.61	409515.18	39°37'18.2046"N	80°16'43.9609"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	265.800	28.00	0.00	0.00	0.00	1749103.61	409515.18	39°37'18.2046"N	80°16'43.9609"W	0.00	0.000	0.00	0.00	0.00
50.00	0.250	265.800	50.00	0.02	0.00	-0.05	1749103.56	409515.18	39°37'18.2046"N	80°16'43.9615"W	0.05	265.800	1.14	1.14	0.00
100.00	0.190	294.800	100.00	0.15	0.02	-0.23	1749103.38	409515.20	39°37'18.2049"N	80°16'43.9639"W	0.23	275.730	0.25	-0.12	58.00
150.00	0.220	233.100	150.00	0.21	0.00	-0.38	1749103.23	409515.18	39°37'18.2046"N	80°16'43.9658"W	0.38	270.061	0.42	0.06	-123.40
200.00	0.230	235.200	200.00	0.21	-0.11	-0.54	1749103.07	409515.07	39°37'18.2035"N	80°16'43.9678"W	0.56	258.095	0.03	0.02	4.20
250.00	0.330	133.800	250.00	0.06	-0.27	-0.52	1749103.09	409514.91	39°37'18.2019"N	80°16'43.9675"W	0.59	242.507	0.88	0.20	-202.80
300.00	0.310	206.400	300.00	-0.15	-0.49	-0.48	1749103.13	409514.69	39°37'18.1997"N	80°16'43.9670"W	0.69	224.147	0.76	-0.04	145.20
350.00	0.290	218.700	350.00	-0.25	-0.71	-0.62	1749102.99	409514.47	39°37'18.1976"N	80°16'43.9687"W	0.94	220.908	0.13	-0.04	24.60
400.00	0.320	213.200	400.00	-0.34	-0.93	-0.77	1749102.84	409514.25	39°37'18.1954"N	80°16'43.9707"W	1.21	219.788	0.08	0.06	-11.00
450.00	0.280	99.400	450.00	-0.48	-1.06	-0.73	1749102.88	409514.12	39°37'18.1941"N	80°16'43.9701"W	1.29	214.387	1.01	-0.08	-227.60
500.00	0.380	186.500	500.00	-0.69	-1.25	-0.63	1749102.98	409513.93	39°37'18.1922"N	80°16'43.9688"W	1.40	206.645	0.92	0.20	174.20
550.00	0.350	208.300	549.99	-0.89	-1.55	-0.72	1749102.89	409513.63	39°37'18.1893"N	80°16'43.9699"W	1.71	204.876	0.28	-0.06	43.60
600.00	0.150	297.600	599.99	-0.91	-1.65	-0.85	1749102.76	409513.53	39°37'18.1882"N	80°16'43.9716"W	1.86	207.174	0.76	-0.40	178.60
650.00	0.380	165.000	649.99	-1.01	-1.78	-0.86	1749102.75	409513.40	39°37'18.1870"N	80°16'43.9717"W	1.98	205.847	0.99	0.46	-265.20
700.00	0.290	153.500	699.99	-1.29	-2.06	-0.76	1749102.85	409513.12	39°37'18.1843"N	80°16'43.9704"W	2.19	200.389	0.22	-0.18	-23.00
750.00	0.220	249.800	749.99	-1.39	-2.20	-0.80	1749102.81	409512.98	39°37'18.1828"N	80°16'43.9709"W	2.34	199.912	0.77	-0.14	192.60
800.00	0.230	286.700	799.99	-1.29	-2.21	-0.98	1749102.63	409512.97	39°37'18.1828"N	80°16'43.9732"W	2.42	204.033	0.29	0.02	73.80
850.00	0.230	203.100	849.99	-1.27	-2.27	-1.12	1749102.49	409512.91	39°37'18.1821"N	80°16'43.9750"W	2.53	206.250	0.61	0.00	-167.20
900.00	0.310	200.200	899.99	-1.40	-2.49	-1.21	1749102.40	409512.69	39°37'18.1799"N	80°16'43.9760"W	2.77	205.840	0.16	0.16	-5.80
950.00	0.430	186.000	949.99	-1.63	-2.80	-1.27	1749102.34	409512.38	39°37'18.1768"N	80°16'43.9768"W	3.08	204.407	0.30	0.24	-28.40
1000.00	0.500	174.200	999.99	-1.97	-3.21	-1.27	1749102.34	409511.97	39°37'18.1728"N	80°16'43.9768"W	3.45	201.598	0.24	0.14	-23.60
1050.00	0.330	201.500	1049.99	-2.24	-3.56	-1.30	1749102.31	409511.62	39°37'18.1694"N	80°16'43.9771"W	3.79	200.075	0.51	-0.34	54.60
1100.00	0.290	230.500	1099.99	-2.34	-3.77	-1.45	1749102.16	409511.41	39°37'18.1672"N	80°16'43.9790"W	4.04	201.035	0.32	-0.08	58.00
1150.00	0.310	176.800	1149.99	-2.47	-3.99	-1.54	1749102.07	409511.19	39°37'18.1651"N	80°16'43.9801"W	4.27	201.125	0.54	0.04	-107.40
1200.00	0.270	138.400	1199.99	-2.70	-4.21	-1.45	1749102.16	409510.97	39°37'18.1629"N	80°16'43.9790"W	4.45	199.061	0.39	-0.08	-76.80
1300.00	0.280	287.400	1299.99	-2.74	-4.31	-1.53	1749102.08	409510.87	39°37'18.1619"N	80°16'43.9800"W	4.58	199.547	0.53	0.01	149.00
1350.00	0.290	241.800	1349.98	-2.64	-4.34	-1.76	1749101.85	409510.84	39°37'18.1616"N	80°16'43.9829"W	4.68	202.084	0.44	0.02	-91.20
1534.00	0.150	131.990	1533.98	-2.83	-4.72	-1.99	1749101.62	409510.46	39°37'18.1578"N	80°16'43.9858"W	5.12	202.880	0.20	-0.08	-59.68
1597.00	0.100	274.170	1596.98	-2.87	-4.77	-1.98	1749101.63	409510.41	39°37'18.1573"N	80°16'43.9857"W	5.17	202.593	0.38	-0.08	225.68



Actual Wellpath Report

McClellan 3H AWP Proj: 23501

Page 3 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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]
1691.00	0.280	202.390	1690.98	-2.95	-4.98	-2.15	1749101.46	409510.20	39°37'18.1553"N	80°16'43.9879"W	5.42	203.407	0.28	0.19	-76.36
1786.00	0.740	214.900	1785.98	-3.30	-5.69	-2.59	1749101.02	409509.49	39°37'18.1482"N	80°16'43.9934"W	6.26	204.488	0.50	0.48	13.17
1881.00	1.120	203.570	1880.97	-4.03	-7.05	-3.32	1749100.29	409508.13	39°37'18.1347"N	80°16'44.0025"W	7.79	205.195	0.44	0.40	-11.93
1975.00	1.140	198.720	1974.95	-5.10	-8.78	-3.98	1749099.63	409506.41	39°37'18.1176"N	80°16'44.0108"W	9.64	204.413	0.10	0.02	-5.16
2069.00	0.690	38.680	2068.94	-5.50	-9.22	-3.93	1749099.68	409505.95	39°37'18.1132"N	80°16'44.0101"W	10.02	203.085	1.92	-0.48	-170.26
2164.00	1.380	50.340	2163.93	-5.21	-8.04	-2.69	1749100.92	409507.14	39°37'18.1249"N	80°16'43.9944"W	8.48	198.502	0.76	0.73	12.27
2259.00	2.010	35.690	2258.89	-4.50	-5.96	-0.84	1749102.77	409509.22	39°37'18.1457"N	80°16'43.9710"W	6.02	188.010	0.80	0.66	-15.42
2354.00	3.130	33.550	2353.79	-2.90	-2.44	1.57	1749105.18	409512.74	39°37'18.1806"N	80°16'43.9406"W	2.90	147.341	1.18	1.18	-2.25
2448.00	4.400	27.350	2447.58	-0.16	2.90	4.64	1749108.25	409518.08	39°37'18.2337"N	80°16'43.9019"W	5.47	58.029	1.42	1.35	-6.60
2543.00	3.570	22.030	2542.35	3.28	8.88	7.43	1749111.04	409524.06	39°37'18.2930"N	80°16'43.8670"W	11.57	39.916	0.96	-0.87	-5.60
2639.00	2.450	7.510	2638.22	6.51	13.68	8.81	1749112.42	409528.86	39°37'18.3406"N	80°16'43.8498"W	16.27	32.794	1.40	-1.17	-15.12
2742.00	2.050	343.840	2741.14	9.92	17.63	8.59	1749112.20	409532.81	39°37'18.3796"N	80°16'43.8531"W	19.61	25.973	0.97	-0.39	-22.98
2837.00	2.150	327.810	2836.08	13.33	20.77	7.17	1749110.78	409535.95	39°37'18.4106"N	80°16'43.8716"W	21.98	19.036	0.63	0.11	-16.87
2932.00	0.420	332.770	2931.05	15.45	22.59	6.06	1749109.67	409537.77	39°37'18.4284"N	80°16'43.8860"W	23.39	15.013	1.82	-1.82	5.22
3027.00	0.900	252.770	3026.05	16.01	22.68	5.19	1749108.80	409537.86	39°37'18.4292"N	80°16'43.8971"W	23.27	12.882	0.97	0.51	-84.21
3121.00	0.770	260.340	3120.04	16.48	22.36	3.86	1749107.47	409537.53	39°37'18.4259"N	80°16'43.9141"W	22.69	9.795	0.18	-0.14	8.05
3216.00	0.920	208.300	3215.03	16.38	21.58	2.87	1749106.48	409536.76	39°37'18.4181"N	80°16'43.9266"W	21.77	7.572	0.79	0.16	-54.78
3310.00	0.620	260.780	3309.02	16.23	20.83	2.01	1749105.62	409536.01	39°37'18.4107"N	80°16'43.9375"W	20.93	5.508	0.78	-0.32	55.83
3407.00	0.750	236.000	3406.02	16.44	20.39	0.96	1749104.57	409535.57	39°37'18.4062"N	80°16'43.9508"W	20.41	2.707	0.33	0.13	-25.55
3501.00	0.500	191.500	3500.01	16.15	19.65	0.37	1749103.98	409534.82	39°37'18.3988"N	80°16'43.9583"W	19.65	1.086	0.56	-0.27	-47.34
3596.00	0.680	216.460	3595.01	15.67	18.79	-0.05	1749103.56	409533.96	39°37'18.3903"N	80°16'43.9636"W	18.79	359.862	0.33	0.19	26.27
3691.00	0.320	216.120	3690.00	15.38	18.12	-0.54	1749103.07	409533.30	39°37'18.3837"N	80°16'43.9698"W	18.13	358.303	0.38	-0.38	-0.36
3786.00	0.420	186.510	3785.00	15.03	17.56	-0.73	1749102.88	409532.74	39°37'18.3781"N	80°16'43.9722"W	17.57	357.611	0.22	0.11	-31.17
3879.00	1.560	201.290	3877.98	14.04	16.04	-1.23	1749102.38	409531.22	39°37'18.3631"N	80°16'43.9784"W	16.09	355.612	1.25	1.23	15.89
3974.00	3.920	189.690	3972.87	10.93	11.63	-2.25	1749101.36	409526.81	39°37'18.3194"N	80°16'43.9909"W	11.85	349.068	2.54	2.48	-12.21
4069.00	5.580	195.160	4067.54	5.52	3.97	-4.00	1749099.61	409519.15	39°37'18.2436"N	80°16'44.0125"W	5.64	314.801	1.81	1.75	5.76
4167.00	7.600	191.170	4164.89	-2.21	-6.98	-6.50	1749097.11	409508.20	39°37'18.1351"N	80°16'44.0432"W	9.54	222.959	2.11	2.06	-4.07
4262.00	8.890	190.040	4258.90	-11.98	-20.38	-9.00	1749094.61	409494.81	39°37'18.0025"N	80°16'44.0737"W	22.27	203.831	1.37	1.36	-1.19
4357.00	8.460	187.970	4352.82	-22.52	-34.52	-11.25	1749092.36	409480.66	39°37'17.8625"N	80°16'44.1008"W	36.31	198.047	0.56	-0.45	-2.18
4452.00	9.160	192.880	4446.70	-32.95	-48.82	-13.90	1749089.71	409466.37	39°37'17.7210"N	80°16'44.1332"W	50.76	195.897	1.08	0.74	5.17



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'
Page 4 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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]
4546.00	8.910	190.430	4539.53	-43.33	-63.27	-16.89	1749086.72	409451.91	39°37'17.5779"N	80°16'44.1697"W	65.49	194.946	0.49	-0.27	-2.61
4640.00	8.800	195.180	4632.41	-53.29	-77.37	-20.09	1749083.52	409437.82	39°37'17.4383"N	80°16'44.2091"W	79.93	194.556	0.79	-0.12	5.05
4734.00	9.240	190.870	4725.25	-63.41	-91.72	-23.40	1749080.22	409423.47	39°37'17.2962"N	80°16'44.2497"W	94.66	194.310	0.86	0.47	-4.59
4828.00	10.310	191.850	4817.89	-74.69	-107.36	-26.55	1749077.07	409407.82	39°37'17.1413"N	80°16'44.2882"W	110.60	193.888	1.15	1.14	1.04
4922.00	9.990	190.720	4910.41	-86.42	-123.61	-29.79	1749073.82	409391.58	39°37'16.9805"N	80°16'44.3279"W	127.15	193.550	0.40	-0.34	-1.20
5019.00	8.500	186.140	5006.15	-97.95	-139.00	-32.12	1749071.49	409376.18	39°37'16.8282"N	80°16'44.3560"W	142.67	193.012	1.71	-1.54	-4.72
5115.00	8.940	188.890	5101.04	-108.90	-153.43	-34.03	1749069.58	409361.76	39°37'16.6855"N	80°16'44.3788"W	157.16	192.507	0.63	0.46	2.86
5209.00	8.300	183.760	5193.98	-119.67	-167.41	-35.61	1749068.00	409347.78	39°37'16.5471"N	80°16'44.3974"W	171.16	192.007	1.06	-0.68	-5.46
5304.00	8.250	190.090	5288.00	-130.05	-180.97	-37.25	1749066.36	409334.22	39°37'16.4130"N	80°16'44.4169"W	184.76	191.632	0.96	-0.05	6.66
5398.00	7.740	185.700	5381.08	-139.82	-193.91	-39.06	1749064.55	409321.29	39°37'16.2850"N	80°16'44.4386"W	197.80	191.390	0.85	-0.54	-4.67
5493.00	7.400	196.020	5475.26	-148.73	-206.15	-41.39	1749062.23	409309.04	39°37'16.1638"N	80°16'44.4669"W	210.26	191.351	1.47	-0.36	10.86
5588.00	8.970	195.990	5569.29	-157.49	-219.15	-45.11	1749058.50	409296.04	39°37'16.0350"N	80°16'44.5131"W	223.75	191.632	1.65	1.65	-0.03
5683.00	9.250	193.130	5663.09	-167.52	-233.71	-48.89	1749054.72	409281.49	39°37'15.8908"N	80°16'44.5597"W	238.77	191.815	0.56	0.29	-3.01
5781.00	9.820	190.620	5759.74	-178.90	-249.59	-52.22	1749051.39	409265.60	39°37'15.7335"N	80°16'44.6005"W	255.00	191.817	0.72	0.58	-2.56
5876.00	9.520	189.570	5853.39	-190.43	-265.30	-55.02	1749048.60	409249.89	39°37'15.5781"N	80°16'44.6346"W	270.95	191.716	0.37	-0.32	-1.11
5971.00	10.100	189.490	5947.00	-202.24	-281.26	-57.70	1749045.92	409233.93	39°37'15.4201"N	80°16'44.6670"W	287.12	191.592	0.61	0.61	-0.08
6065.00	10.530	190.930	6039.48	-214.37	-297.83	-60.68	1749042.93	409217.37	39°37'15.2561"N	80°16'44.7034"W	303.95	191.517	0.53	0.46	1.53
6159.00	9.400	184.220	6132.06	-226.55	-313.92	-62.88	1749040.74	409201.28	39°37'15.0969"N	80°16'44.7296"W	320.15	191.327	1.72	-1.20	-7.14
6253.00	9.210	183.670	6224.82	-238.60	-329.08	-63.92	1749039.69	409186.12	39°37'14.9470"N	80°16'44.7413"W	335.23	190.993	0.22	-0.20	-0.59
6348.00	9.530	188.310	6318.56	-250.50	-344.45	-65.55	1749038.07	409170.75	39°37'14.7950"N	80°16'44.7604"W	350.63	190.774	0.86	0.34	4.88
6443.00	8.850	186.100	6412.34	-261.97	-359.50	-67.46	1749036.15	409155.70	39°37'14.6461"N	80°16'44.7831"W	365.77	190.628	0.81	-0.72	-2.33
6537.00	8.130	189.460	6505.31	-272.38	-373.24	-69.32	1749034.29	409141.96	39°37'14.5101"N	80°16'44.8054"W	379.63	190.522	0.93	-0.77	3.57
6632.00	8.100	207.110	6599.37	-280.56	-385.83	-73.48	1749030.14	409129.37	39°37'14.3853"N	80°16'44.8571"W	392.76	190.782	2.61	-0.03	18.58
6727.00	8.460	206.050	6693.38	-287.36	-398.07	-79.60	1749024.02	409117.14	39°37'14.2639"N	80°16'44.9339"W	405.95	191.307	0.41	0.38	-1.12
6825.00	9.160	205.400	6790.22	-295.01	-411.59	-86.11	1749017.51	409103.62	39°37'14.1297"N	80°16'45.0156"W	420.50	191.816	0.72	0.71	-0.66
6920.00	10.530	204.880	6883.82	-303.44	-426.29	-93.00	1749010.61	409088.91	39°37'13.9838"N	80°16'45.1021"W	436.32	192.307	1.45	1.44	-0.55
7015.00	9.670	203.060	6977.35	-312.36	-441.51	-99.78	1749003.84	409073.70	39°37'13.8328"N	80°16'45.1870"W	452.65	192.735	0.97	-0.91	-1.92
7125.00	8.900	203.360	7085.91	-322.06	-457.82	-106.77	1748996.84	409057.38	39°37'13.6710"N	80°16'45.2746"W	470.11	193.128	0.70	-0.70	0.27
7220.00	9.370	221.020	7179.72	-328.12	-470.41	-114.76	1748988.85	409044.80	39°37'13.5460"N	80°16'45.3753"W	484.20	193.710	2.98	0.49	18.59
7314.00	9.410	250.470	7272.52	-328.27	-478.75	-127.04	1748976.58	409036.46	39°37'13.4624"N	80°16'45.5312"W	495.32	194.861	5.06	0.04	31.33



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'
Page 5 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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]
7408.00	9.750	280.070	7365.26	-320.89	-479.93	-142.12	1748961.49	409035.28	39°37'13.4495"N	80°16'45.7239"W	500.53	196.496	5.20	0.36	31.49
7503.00	10.000	300.760	7458.88	-307.89	-474.31	-157.14	1748946.48	409040.90	39°37'13.5038"N	80°16'45.9164"W	499.66	198.330	3.72	0.26	21.78
7598.00	14.920	308.430	7551.62	-288.81	-462.48	-173.82	1748929.80	409052.73	39°37'13.6193"N	80°16'46.1308"W	494.06	200.598	5.45	5.18	8.07
7693.00	22.900	316.080	7641.44	-258.93	-441.52	-196.26	1748907.36	409073.68	39°37'13.8244"N	80°16'46.4199"W	483.18	203.965	8.78	8.40	8.05
7788.00	29.660	323.460	7728.59	-217.21	-409.28	-223.11	1748880.51	409105.93	39°37'14.1406"N	80°16'46.7666"W	466.14	208.596	7.89	7.12	7.77
7883.00	37.760	324.930	7805.55	-164.57	-366.52	-253.87	1748849.75	409148.69	39°37'14.5607"N	80°16'47.1644"W	445.85	214.709	8.57	8.53	1.55
7977.00	43.850	322.640	7876.67	-103.25	-317.03	-290.20	1748813.43	409198.17	39°37'15.0467"N	80°16'47.6342"W	429.80	222.470	6.67	6.48	-2.44
8071.00	51.600	320.890	7939.86	-33.98	-262.48	-333.26	1748770.37	409252.71	39°37'15.5820"N	80°16'48.1905"W	424.22	231.775	8.36	8.24	-1.86
8165.00	60.790	321.560	7992.10	43.73	-201.64	-382.11	1748721.53	409313.55	39°37'16.1791"N	80°16'48.8214"W	432.05	242.179	9.79	9.78	0.71
8260.00	70.260	322.310	8031.42	129.84	-133.63	-435.34	1748668.30	409381.56	39°37'16.8467"N	80°16'49.5092"W	455.39	252.935	9.99	9.97	0.79
8355.00	78.630	323.510	8056.87	221.11	-60.68	-490.47	1748613.17	409454.50	39°37'17.5629"N	80°16'50.2218"W	494.21	262.947	8.89	8.81	1.26
8449.00	88.890	324.110	8067.08	314.33	14.63	-545.56	1748558.08	409529.81	39°37'18.3025"N	80°16'50.9342"W	545.76	271.536	10.93	10.91	0.64
8544.00	91.080	323.760	8067.10	409.24	91.42	-601.49	1748502.16	409606.60	39°37'19.0565"N	80°16'51.6574"W	608.39	278.642	2.33	2.31	-0.37
8639.00	91.350	326.090	8065.09	504.18	169.15	-656.06	1748447.59	409684.32	39°37'19.8200"N	80°16'52.3635"W	677.52	284.457	2.47	0.28	2.45
8734.00	90.030	323.220	8063.94	599.17	248.04	-708.97	1748394.69	409763.21	39°37'20.5951"N	80°16'53.0483"W	751.11	289.283	1.40	-1.39	0.14
8829.00	90.180	326.300	8063.77	694.17	327.04	-761.73	1748341.92	409842.20	39°37'21.3713"N	80°16'53.7314"W	828.97	293.236	0.18	0.16	0.08
8924.00	90.340	326.340	8063.34	789.17	406.09	-814.41	1748289.25	409921.25	39°37'22.1480"N	80°16'54.4134"W	910.05	298.502	0.17	0.17	0.04
9018.00	89.940	326.000	8063.11	883.17	484.18	-866.75	1748236.92	409999.33	39°37'22.9152"N	80°16'55.0908"W	992.81	299.188	0.56	-0.43	-0.36
9113.00	89.600	325.890	8063.49	978.17	562.89	-919.95	1748183.72	410078.03	39°37'23.6884"N	80°16'55.7794"W	1078.49	301.461	0.38	-0.36	-0.12
9208.00	88.800	325.710	8064.82	1073.15	641.45	-973.34	1748130.33	410156.59	39°37'24.4602"N	80°16'56.4705"W	1165.69	303.386	0.86	-0.84	-0.19
9303.00	88.880	326.130	8066.90	1168.13	720.11	-1026.56	1748077.12	410235.25	39°37'25.2331"N	80°16'57.1594"W	1253.95	305.049	0.46	-0.13	0.44
9397.00	85.840	324.800	8071.40	1262.00	797.45	-1079.78	1748023.90	410312.58	39°37'25.9928"N	80°16'57.8481"W	1342.33	306.447	3.34	-3.02	-1.41
9492.00	86.800	325.920	8077.49	1356.78	875.45	-1133.67	1747970.01	410390.58	39°37'26.7590"N	80°16'58.5454"W	1432.34	307.676	1.55	1.01	1.18
9587.00	87.110	327.340	8082.54	1451.64	954.67	-1185.84	1747917.84	410469.79	39°37'27.5374"N	80°16'59.2210"W	1522.38	308.836	1.53	0.33	1.49
9681.00	86.030	325.820	8088.17	1545.47	1032.99	-1237.52	1747866.16	410548.10	39°37'28.3089"N	80°16'59.8902"W	1611.99	309.853	1.98	-1.15	-1.62
9776.00	85.810	327.090	8094.93	1640.23	1111.96	-1289.88	1747813.81	410627.07	39°37'29.0829"N	80°17'0.5681"W	1703.01	310.763	1.35	-0.23	1.34
9870.00	85.440	326.320	8102.10	1733.95	1190.30	-1341.33	1747762.36	410705.41	39°37'29.8526"N	80°17'1.2344"W	1793.32	311.586	0.91	-0.39	-0.82
9965.00	85.410	325.780	8109.67	1828.65	1268.86	-1394.22	1747709.48	410783.96	39°37'30.6244"N	80°17'1.9190"W	1885.16	312.305	0.57	-0.03	-0.57
10059.00	85.660	325.840	8116.99	1922.36	1346.38	-1446.88	1747656.82	410861.47	39°37'31.3859"N	80°17'2.6006"W	1976.41	312.939	0.27	0.27	0.06
10154.00	86.310	326.130	8123.64	2017.12	1424.93	-1499.89	1747603.81	410940.02	39°37'32.1577"N	80°17'3.2869"W	2068.84	313.532	0.75	-0.68	0.31



Actual Wellpath Report

McClellan 3H AWP Proj: 23501*

Page 6 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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]
10249.00	86.640	326.050	8129.48	2111.94	1503.62	-1552.79	1747550.91	411018.71	39°37'32.9308"N	80°17'3.9717"W	2161.49	314.078	0.36	0.35	-0.08
10343.00	86.860	326.520	8134.81	2205.79	1581.68	-1604.88	1747498.82	411096.77	39°37'33.6978"N	80°17'4.6461"W	2253.30	314.583	0.55	0.23	0.50
10438.00	87.050	326.610	8139.86	2300.65	1680.85	-1657.15	1747446.56	411175.93	39°37'34.4756"N	80°17'5.3230"W	2346.19	315.064	0.22	0.20	0.09
10534.00	87.630	325.980	8144.32	2396.55	1740.63	-1710.37	1747393.35	411255.70	39°37'35.2594"N	80°17'6.0119"W	2440.32	315.502	0.89	0.60	-0.66
10629.00	86.740	325.380	8148.98	2491.43	1818.99	-1763.87	1747339.85	411334.05	39°37'36.0292"N	80°17'6.7044"W	2533.76	315.881	1.13	-0.94	-0.63
10725.00	87.450	325.590	8153.85	2587.29	1897.99	-1818.19	1747285.53	411413.05	39°37'36.8053"N	80°17'7.4074"W	2628.34	316.230	0.77	0.74	0.22
10819.00	87.910	325.960	8157.65	2681.21	1975.65	-1871.02	1747232.71	411490.71	39°37'37.5682"N	80°17'8.0912"W	2721.01	316.558	0.63	0.49	0.39
10914.00	88.580	325.940	8160.56	2776.16	2054.32	-1924.18	1747179.54	411569.38	39°37'38.3411"N	80°17'8.7795"W	2814.73	316.874	0.71	0.71	-0.02
11009.00	88.370	325.710	8163.09	2871.12	2132.89	-1977.53	1747126.20	411647.94	39°37'39.1129"N	80°17'9.4700"W	2908.58	317.165	0.33	-0.22	-0.24
11103.00	88.710	325.510	8165.48	2965.08	2210.44	-2030.60	1747073.13	411725.48	39°37'39.8747"N	80°17'10.1570"W	3001.56	317.428	0.42	0.36	-0.21
11198.00	88.860	326.960	8167.50	3060.06	2289.39	-2083.39	1747020.35	411804.43	39°37'40.6504"N	80°17'10.8405"W	3095.45	317.697	1.53	0.16	1.53
11293.00	88.710	327.070	8169.51	3155.03	2369.06	-2135.10	1746968.64	411884.10	39°37'41.4333"N	80°17'11.5102"W	3189.22	317.973	0.20	-0.16	0.12
11387.00	89.540	327.090	8170.95	3249.01	2447.96	-2186.18	1746917.56	411962.99	39°37'42.2085"N	80°17'12.1718"W	3282.05	318.233	0.88	0.88	0.02
11482.00	90.430	327.400	8170.97	3344.00	2527.85	-2237.58	1746866.17	412042.88	39°37'42.9936"N	80°17'12.8377"W	3375.91	318.486	0.99	0.94	0.33
11576.00	90.080	326.700	8170.57	3437.99	2606.73	-2288.70	1746815.05	412121.75	39°37'43.7687"N	80°17'13.4999"W	3468.89	318.717	0.84	-0.39	-0.74
11671.00	90.400	327.070	8170.19	3532.99	2686.30	-2340.60	1746763.15	412201.31	39°37'44.5506"N	80°17'14.1721"W	3562.95	318.934	0.53	0.36	0.39
11766.00	90.550	326.600	8169.40	3627.98	2765.82	-2392.57	1746711.18	412280.83	39°37'45.3320"N	80°17'14.8452"W	3657.07	319.139	0.52	0.16	-0.49
11860.00	91.080	326.800	8168.07	3721.97	2844.38	-2444.18	1746659.58	412359.38	39°37'46.1039"N	80°17'15.5135"W	3750.26	319.328	0.60	0.56	0.21
11955.00	90.120	327.220	8167.07	3816.96	2924.06	-2495.90	1746607.86	412439.06	39°37'46.8868"N	80°17'16.1834"W	3844.43	319.517	1.10	-1.01	0.44
12050.00	89.540	327.100	8167.35	3911.95	3003.87	-2547.42	1746556.35	412518.87	39°37'47.6711"N	80°17'16.8508"W	3938.60	319.701	0.62	-0.61	-0.13
12145.00	89.540	326.870	8168.11	4006.94	3083.53	-2599.18	1746504.59	412598.52	39°37'48.4539"N	80°17'17.5213"W	4032.85	319.872	0.24	0.00	-0.24
12240.00	90.000	326.600	8168.50	4101.94	3162.96	-2651.28	1746452.49	412677.95	39°37'49.2343"N	80°17'18.1961"W	4127.18	320.029	0.56	0.48	-0.28
12335.00	89.970	327.120	8168.52	4196.93	3242.51	-2703.22	1746400.56	412757.49	39°37'50.0160"N	80°17'18.8688"W	4221.52	320.183	0.55	-0.03	0.55
12430.00	91.290	327.140	8167.48	4291.92	3322.29	-2754.77	1746349.00	412837.27	39°37'50.8000"N	80°17'19.5367"W	4315.83	320.335	1.39	1.39	0.02
12524.00	91.020	327.010	8165.58	4385.89	3401.18	-2805.86	1746297.93	412916.15	39°37'51.5751"N	80°17'20.1984"W	4409.18	320.479	0.32	-0.29	-0.14
12619.00	91.510	327.010	8163.48	4480.86	3480.84	-2857.57	1746246.21	412995.81	39°37'52.3579"N	80°17'20.8683"W	4503.55	320.616	0.52	0.52	0.00
12714.00	91.390	327.110	8161.08	4575.82	3560.54	-2909.21	1746194.58	413075.51	39°37'53.1411"N	80°17'21.5372"W	4597.93	320.749	0.16	-0.13	0.11
12809.00	91.600	327.200	8158.60	4670.78	3640.33	-2960.72	1746143.07	413155.29	39°37'53.9251"N	80°17'22.2045"W	4692.32	320.878	0.24	0.22	0.09
12904.00	91.320	326.810	8156.18	4765.75	3719.53	-3013.13	1746090.67	413234.48	39°37'54.7032"N	80°17'22.8832"W	4786.84	320.990	1.49	-0.29	-1.46
12999.00	91.630	326.890	8153.74	4860.71	3798.12	-3066.44	1746037.36	413313.07	39°37'55.4753"N	80°17'23.5784"W	4881.47	321.084	0.34	0.33	0.08



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'
Page 7 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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]
13093.00	91.800	325.780	8151.09	4954.67	3875.87	-3119.21	1745984.59	413390.81	39°37'56.2390"N	80°17'24.2565"W	4975.12	321.174	0.12	-0.03	-0.12
13188.00	91.450	325.960	8148.56	5049.63	3954.48	-3172.49	1745931.31	413469.41	39°37'57.0113"N	80°17'24.9464"W	5069.77	321.262	0.25	-0.16	0.19
13282.00	91.290	325.710	8146.31	5143.60	4032.23	-3225.26	1745878.54	413547.17	39°37'57.7761"N	80°17'25.6296"W	5163.45	321.345	0.32	-0.17	-0.27
13378.00	91.480	326.000	8143.99	5239.57	4111.66	-3279.13	1745824.68	413626.59	39°37'58.5554"N	80°17'26.3270"W	5259.13	321.427	0.36	0.20	0.30
13472.00	91.850	325.910	8141.26	5338.53	4189.52	-3331.73	1745772.08	413704.44	39°37'59.3202"N	80°17'27.0081"W	5352.80	321.506	0.41	0.39	-0.10
13566.00	92.370	325.890	8137.80	5427.46	4267.30	-3384.40	1745719.42	413782.22	39°38'0.0843"N	80°17'27.6900"W	5446.47	321.582	0.55	0.55	-0.02
13661.00	92.460	326.410	8133.80	5522.38	4346.13	-3437.27	1745666.55	413861.04	39°38'0.8588"N	80°17'28.3746"W	5541.09	321.660	0.56	0.09	0.55
13756.00	91.940	326.440	8130.15	5617.31	4425.22	-3489.77	1745614.06	413940.13	39°38'1.6358"N	80°17'29.0545"W	5635.69	321.740	0.55	-0.55	0.03
13850.00	92.030	326.450	8126.89	5711.25	4503.51	-3541.69	1745562.13	414018.41	39°38'2.4050"N	80°17'29.7270"W	5729.33	321.817	0.10	0.10	0.01
13945.00	91.910	326.410	8123.63	5806.19	4582.62	-3594.19	1745509.64	414097.52	39°38'3.1822"N	80°17'30.4069"W	5823.97	321.893	0.13	-0.13	-0.04
14040.00	91.910	325.870	8120.46	5901.14	4661.46	-3647.09	1745456.74	414176.35	39°38'3.9568"N	80°17'31.0919"W	5918.66	321.961	0.57	0.00	-0.57
14135.00	92.000	326.440	8117.22	5996.08	4740.32	-3699.97	1745403.86	414255.21	39°38'4.7315"N	80°17'31.7766"W	6013.35	322.027	0.61	0.09	0.60
14229.00	91.230	326.280	8114.57	6090.04	4818.54	-3752.02	1745351.82	414333.43	39°38'5.5000"N	80°17'32.4508"W	6107.05	322.093	0.84	-0.82	-0.17
14324.00	91.200	326.550	8112.56	6185.02	4897.67	-3804.56	1745299.28	414412.55	39°38'6.2774"N	80°17'33.1312"W	6201.76	322.160	0.29	-0.03	0.28
14419.00	91.050	326.150	8110.69	6280.00	4976.73	-3857.20	1745246.65	414491.61	39°38'7.0542"N	80°17'33.8128"W	6296.49	322.223	0.45	-0.16	-0.43
14514.00	91.910	326.560	8108.24	6374.97	5055.79	-3909.81	1745194.04	414570.66	39°38'7.8309"N	80°17'34.4942"W	6391.22	322.284	1.00	0.91	0.43
14609.00	92.000	325.990	8105.00	6469.92	5134.76	-3962.53	1745141.33	414649.62	39°38'8.6067"N	80°17'35.1769"W	6485.93	322.342	0.61	0.09	-0.60
14703.00	91.790	326.030	8101.89	6563.86	5212.65	-4015.05	1745088.81	414727.51	39°38'9.3719"N	80°17'35.8570"W	6579.69	322.395	0.23	-0.22	0.04
14798.00	91.510	325.410	8099.15	6658.82	5291.12	-4068.53	1745035.33	414805.97	39°38'10.1427"N	80°17'36.5495"W	6674.50	322.442	0.72	-0.29	-0.65
14893.00	91.570	325.700	8096.60	6753.77	5369.43	-4122.25	1744981.62	414884.28	39°38'10.9119"N	80°17'37.2449"W	6769.32	322.486	0.31	-0.06	0.31
14988.00	91.820	326.570	8093.79	6848.73	5448.28	-4175.16	1744928.71	414963.13	39°38'11.6865"N	80°17'37.9301"W	6864.09	322.536	0.95	0.26	0.92
15082.00	91.910	326.550	8090.73	6942.68	5526.68	-4226.93	1744876.94	415041.52	39°38'12.4568"N	80°17'38.6007"W	6957.81	322.590	0.10	0.10	-0.02
15176.00	91.970	326.340	8087.55	7036.62	5604.97	-4278.86	1744825.01	415119.81	39°38'13.2259"N	80°17'39.2733"W	7051.55	322.642	0.23	0.06	-0.22
15271.00	91.450	325.370	8084.71	7131.58	5683.56	-4332.16	1744771.72	415198.39	39°38'13.9979"N	80°17'39.9634"W	7146.36	322.684	1.16	-0.55	-1.02
15365.00	91.020	326.500	8082.69	7225.55	5761.41	-4384.80	1744719.08	415276.24	39°38'14.7627"N	80°17'40.6450"W	7240.18	322.727	1.29	-0.46	1.20
15461.00	90.620	326.030	8081.31	7321.54	5841.23	-4438.11	1744665.78	415355.06	39°38'15.5469"N	80°17'41.3354"W	7335.99	322.773	0.64	-0.42	-0.49
15556.00	90.890	326.630	8080.06	7416.53	5920.29	-4490.77	1744613.12	415435.11	39°38'16.3236"N	80°17'42.0175"W	7430.80	322.818	0.69	0.28	0.63
15651.00	90.890	326.930	8078.59	7511.52	5999.76	-4542.81	1744561.08	415514.57	39°38'17.1044"N	80°17'42.6917"W	7525.57	322.868	0.32	0.00	0.32
15746.00	90.520	324.730	8077.42	7606.50	6078.34	-4596.16	1744507.73	415593.15	39°38'17.8764"N	80°17'43.3825"W	7620.43	322.905	2.35	-0.39	-2.32
15841.00	90.650	325.080	8076.45	7701.46	6156.07	-4650.77	1744453.12	415670.87	39°38'18.6397"N	80°17'44.0694"W	7715.37	322.930	0.39	0.14	0.37



Actual Wellpath Report

McClellan 3H AWP Proj: 23501

Page 8 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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]
15935.00	91.110	325.910	8075.00	7795.44	6233.52	-4704.02	1744399.88	415748.32	39°38'19.4005"N	80°17'44.7787"W	7809.26	322.961	1.01	-0.49	0.88
16029.00	90.860	326.230	8073.39	7889.43	6311.50	-4756.48	1744347.42	415826.30	39°38'20.1665"N	80°17'45.4581"W	7903.11	322.998	0.43	-0.27	0.34
16125.00	90.520	326.070	8072.23	7985.42	6391.23	-4809.95	1744293.96	415906.02	39°38'20.9497"N	80°17'46.1505"W	7998.96	323.035	0.39	-0.35	-0.17
16220.00	90.520	325.460	8071.37	8080.41	6469.76	-4863.39	1744240.52	415984.55	39°38'21.7212"N	80°17'46.8426"W	8093.85	323.067	0.64	0.00	-0.64
16314.00	89.940	326.190	8070.99	8174.40	6547.53	-4916.19	1744187.72	416062.31	39°38'22.4851"N	80°17'47.5263"W	8187.74	323.099	0.99	-0.62	0.78
16409.00	90.620	326.450	8070.53	8269.40	6626.58	-4968.87	1744135.04	416141.36	39°38'23.2617"N	80°17'48.2086"W	8282.59	323.136	0.77	0.72	0.27
16503.00	90.400	326.150	8069.69	8363.40	6704.78	-5021.03	1744082.89	416219.55	39°38'24.0300"N	80°17'48.8841"W	8376.44	323.171	0.40	-0.23	-0.32
16597.00	90.430	326.180	8069.01	8457.39	6782.86	-5073.37	1744030.58	416297.63	39°38'24.7970"N	80°17'49.5620"W	8470.32	323.205	0.05	0.03	0.03
16692.00	90.400	326.010	8068.32	8552.39	6861.71	-5126.36	1743977.57	416376.47	39°38'25.5715"N	80°17'50.2483"W	8565.19	323.237	0.18	-0.03	-0.18
16787.00	90.370	326.410	8067.68	8647.39	6940.66	-5179.19	1743924.74	416455.41	39°38'26.3471"N	80°17'50.9326"W	8660.06	323.269	0.42	-0.03	0.42
16882.00	90.340	326.250	8067.09	8742.38	7019.72	-5231.86	1743872.07	416534.47	39°38'27.1238"N	80°17'51.6148"W	8754.93	323.303	0.17	-0.03	-0.17
16976.00	90.770	326.340	8066.18	8836.38	7097.91	-5284.02	1743819.92	416612.66	39°38'27.8920"N	80°17'52.2904"W	8848.80	323.334	0.47	0.46	0.10
17070.00	90.400	325.700	8065.22	8930.37	7175.86	-5336.55	1743767.39	416690.60	39°38'28.6577"N	80°17'52.9707"W	8942.69	323.363	0.79	-0.39	-0.68
17164.00	89.940	325.840	8064.95	9024.37	7253.57	-5389.43	1743714.51	416768.31	39°38'29.4211"N	80°17'53.6554"W	9036.61	323.388	0.51	-0.49	0.15
17259.00	90.460	326.270	8064.61	9119.36	7332.38	-5442.47	1743661.47	416847.11	39°38'30.1953"N	80°17'54.3425"W	9131.50	323.415	0.71	-0.55	0.45
17354.00	89.720	326.970	8064.46	9214.36	7411.71	-5494.74	1743609.21	416926.44	39°38'30.9746"N	80°17'55.0196"W	9226.36	323.448	1.07	-0.78	0.74
17449.00	90.120	327.200	8064.60	9309.35	7491.46	-5546.36	1743557.59	417006.18	39°38'31.7582"N	80°17'55.6885"W	9321.17	323.485	0.49	0.42	0.24
17543.00	90.830	326.920	8063.82	9403.34	7570.35	-5597.47	1743506.48	417085.06	39°38'32.5333"N	80°17'56.3508"W	9414.98	323.521	0.81	0.76	-0.30
17638.00	90.650	327.120	8062.59	9498.33	7650.03	-5649.18	1743454.77	417164.74	39°38'33.3163"N	80°17'57.0209"W	9509.80	323.556	0.28	-0.18	0.21
17733.00	90.310	326.870	8061.80	9593.32	7729.70	-5700.93	1743403.03	417244.40	39°38'34.0990"N	80°17'57.6914"W	9604.62	323.590	0.44	-0.36	-0.26
17827.00	90.000	326.860	8061.54	9687.32	7808.41	-5752.31	1743351.65	417323.11	39°38'34.8724"N	80°17'58.3571"W	9698.47	323.622	0.33	-0.33	-0.01
17923.00	90.090	326.990	8061.47	9783.31	7888.86	-5804.70	1743299.26	417403.55	39°38'35.6628"N	80°17'59.0360"W	9794.31	323.654	0.16	0.09	0.14
18018.00	89.910	326.760	8061.47	9878.31	7968.42	-5856.62	1743247.35	417483.11	39°38'36.4445"N	80°17'59.7087"W	9889.17	323.685	0.31	-0.19	-0.24
18113.00	90.180	326.690	8061.39	9973.31	8047.84	-5908.74	1743195.23	417562.53	39°38'37.2248"N	80°18'0.3840"W	9984.03	323.714	0.29	0.28	-0.07
18208.00	89.970	326.820	8061.27	10068.30	8127.29	-5960.82	1743143.16	417641.97	39°38'38.0054"N	80°18'1.0588"W	10078.90	323.742	0.26	-0.22	-0.14
18303.00	90.250	327.010	8061.08	10163.30	8206.89	-6012.68	1743091.30	417721.57	39°38'38.7874"N	80°18'1.7308"W	10173.76	323.772	0.36	0.29	0.20
18398.00	90.180	326.880	8060.73	10258.29	8286.51	-6064.49	1743039.49	417801.18	39°38'39.5698"N	80°18'2.4022"W	10268.61	323.801	0.16	-0.07	-0.14
18493.00	90.250	327.010	8060.37	10353.29	8366.13	-6116.31	1742987.67	417880.80	39°38'40.3521"N	80°18'3.0736"W	10363.47	323.830	0.16	0.07	0.14
18587.00	90.030	327.120	8060.14	10447.28	8445.03	-6167.42	1742936.57	417959.69	39°38'41.1272"N	80°18'3.7359"W	10457.32	323.859	0.26	-0.23	0.12
18681.00	90.060	326.940	8060.07	10541.27	8523.89	-6218.57	1742885.42	418038.55	39°38'41.9021"N	80°18'4.3986"W	10551.18	323.888	0.19	0.03	-0.19



Actual Wellpath Report

McClellan 3H AWP Proj: 23501

Page 9 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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]
18776.00	89.910	326.790	8060.09	10636.27	8603.44	-6270.50	1742833.49	418118.09	39°38'42.6837"N	80°18'5.0717"W	10646.05	323.914	0.22	-0.16	-0.16
18870.00	90.060	326.860	8060.12	10730.27	8682.12	-6321.94	1742782.06	418196.77	39°38'43.4567"N	80°18'5.7382"W	10739.93	323.940	0.18	0.16	0.07
18965.00	89.850	326.970	8060.19	10825.26	8761.72	-6373.80	1742730.20	418276.36	39°38'44.2387"N	80°18'6.4102"W	10834.80	323.966	0.25	-0.22	0.12
19061.00	89.260	327.000	8060.94	10921.25	8842.21	-6426.10	1742677.90	418356.85	39°38'45.0296"N	80°18'7.0880"W	10930.67	323.992	0.62	-0.61	0.03
19155.00	89.200	326.590	8062.20	11015.24	8920.86	-6477.57	1742626.43	418435.49	39°38'45.8023"N	80°18'7.7550"W	11024.55	324.016	0.44	-0.06	-0.44
19250.00	89.630	327.390	8063.17	11110.23	9000.52	-6529.32	1742574.69	418515.14	39°38'46.5849"N	80°18'8.4257"W	11119.41	324.041	0.96	0.45	0.84
19344.00	89.510	326.820	8063.88	11204.22	9079.44	-6580.37	1742523.64	418594.07	39°38'47.3604"N	80°18'9.0873"W	11213.28	324.067	0.62	-0.13	-0.61
19439.00	89.480	326.780	8064.71	11299.21	9158.93	-6632.39	1742471.63	418673.55	39°38'48.1414"N	80°18'9.7613"W	11308.17	324.090	0.05	-0.03	-0.04
19534.00	90.060	326.630	8065.09	11394.21	9238.34	-6684.54	1742419.48	418752.95	39°38'48.9215"N	80°18'10.4370"W	11403.07	324.112	0.63	0.61	-0.16
19628.00	90.280	326.950	8064.82	11488.21	9316.98	-6736.02	1742368.00	418831.59	39°38'49.6942"N	80°18'11.1042"W	11496.97	324.134	0.41	0.23	0.34
19724.00	89.420	325.660	8065.07	11584.21	9396.85	-6789.28	1742314.74	418911.46	39°38'50.4788"N	80°18'11.7941"W	11592.89	324.152	1.61	-0.90	-1.34
19819.00	89.170	325.780	8066.24	11679.19	9475.34	-6842.78	1742261.24	418989.94	39°38'51.2498"N	80°18'12.4870"W	11687.85	324.164	0.29	-0.26	0.13
19913.00	89.140	326.090	8067.62	11773.18	9553.21	-6895.43	1742208.60	419067.80	39°38'52.0146"N	80°18'13.1690"W	11781.80	324.179	0.33	-0.03	0.33
20008.00	89.020	325.880	8069.15	11868.16	9631.94	-6948.57	1742155.47	419146.53	39°38'52.7880"N	80°18'13.8573"W	11876.74	324.193	0.25	-0.13	-0.22
20102.00	89.010	326.040	8070.75	11962.15	9709.82	-7001.18	1742102.86	419224.41	39°38'53.5530"N	80°18'14.5387"W	11970.68	324.207	0.17	-0.01	0.17
20197.00	89.540	326.530	8071.97	12057.14	9788.84	-7053.91	1742050.14	419303.42	39°38'54.3292"N	80°18'15.2218"W	12065.61	324.223	0.76	0.56	0.52
20291.00	90.090	325.950	8072.27	12151.14	9866.98	-7106.14	1741997.90	419381.56	39°38'55.0969"N	80°18'15.8985"W	12159.55	324.239	0.85	0.59	-0.62
20386.00	90.030	326.160	8072.17	12246.14	9945.79	-7159.19	1741944.86	419460.36	39°38'55.8710"N	80°18'16.5857"W	12254.50	324.253	0.23	-0.06	0.22
20481.00	89.910	326.220	8072.22	12341.14	10024.73	-7212.05	1741892.00	419539.29	39°38'56.6464"N	80°18'17.2705"W	12349.45	324.268	0.14	-0.13	0.06
20576.00	89.780	325.830	8072.48	12436.13	10103.51	-7265.14	1741838.91	419618.07	39°38'57.4203"N	80°18'17.9582"W	12444.40	324.281	0.43	-0.14	-0.41
20671.00	89.880	325.630	8072.76	12531.13	10182.02	-7318.63	1741785.42	419696.57	39°38'58.1914"N	80°18'18.6511"W	12539.37	324.292	0.24	0.11	-0.21
20766.00	89.910	325.890	8072.93	12626.12	10260.55	-7372.09	1741731.98	419775.10	39°38'58.9628"N	80°18'19.3434"W	12634.34	324.303	0.28	0.03	0.27
20862.00	89.480	325.200	8073.44	12722.11	10339.71	-7426.40	1741677.67	419854.26	39°38'59.7402"N	80°18'20.0468"W	12730.32	324.313	0.85	-0.45	-0.72
20957.00	89.600	325.760	8074.21	12817.10	10417.98	-7480.23	1741623.84	419932.52	39°39'0.5090"N	80°18'20.7440"W	12825.29	324.321	0.60	0.13	0.59
21052.00	89.660	325.840	8074.82	12912.09	10496.55	-7533.63	1741570.44	420011.09	39°39'1.2807"N	80°18'21.4357"W	12920.26	324.332	0.11	0.06	0.08
21148.00	90.180	325.910	8074.95	13008.08	10576.02	-7587.48	1741516.59	420090.55	39°39'2.0613"N	80°18'22.1333"W	13016.23	324.343	0.55	0.54	0.07
21243.00	89.780	325.210	8074.99	13103.07	10654.37	-7641.21	1741462.87	420168.90	39°39'2.8308"N	80°18'22.8291"W	13111.20	324.352	0.85	-0.42	-0.74
21338.00	90.000	325.820	8075.17	13198.06	10732.67	-7695.00	1741409.08	420247.20	39°39'3.5999"N	80°18'23.5257"W	13206.18	324.361	0.68	0.23	0.64
21433.00	90.030	326.380	8075.14	13293.06	10811.52	-7747.98	1741356.10	420326.04	39°39'4.3744"N	80°18'24.2122"W	13301.14	324.373	0.59	0.03	0.59
21529.00	90.220	326.150	8074.93	13389.06	10891.36	-7801.30	1741302.79	420405.87	39°39'5.1587"N	80°18'24.9029"W	13397.09	324.387	0.31	0.20	-0.24



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'

Page 10 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

WELLPATH DATA (261 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]
21624.00	89.080	325.240	8075.52	13484.05	10969.83	-7854.84	1741249.25	420484.34	39°39'5.9294"N	80°18'25.5964"W	13492.06	324.396	1.54	-1.20	-0.96
21719.00	89.230	325.660	8076.92	13579.03	11048.07	-7908.71	1741195.39	420562.57	39°39'6.6978"N	80°18'26.2941"W	13587.03	324.403	0.47	0.16	0.44
21814.00	90.090	326.130	8077.48	13674.02	11126.72	-7961.97	1741142.12	420641.22	39°39'7.4704"N	80°18'26.9841"W	13682.00	324.414	1.03	0.91	0.49
21910.00	89.720	325.960	8077.64	13770.02	11206.35	-8015.59	1741088.51	420720.85	39°39'8.2526"N	80°18'27.6788"W	13777.96	324.425	0.42	-0.39	-0.18
22005.00	89.750	325.210	8078.08	13865.01	11284.72	-8069.29	1741034.82	420799.21	39°39'9.0223"N	80°18'28.3742"W	13872.94	324.433	0.79	0.03	-0.79
22100.00	89.970	326.890	8078.31	13960.00	11363.53	-8122.34	1740981.77	420878.01	39°39'9.7963"N	80°18'29.0615"W	13967.90	324.444	1.78	0.23	1.77
22196.00	89.910	326.830	8078.41	14056.00	11443.91	-8174.82	1740929.29	420958.39	39°39'10.5861"N	80°18'29.7417"W	14063.81	324.460	0.09	-0.06	-0.06
22291.00	89.820	326.690	8078.64	14151.00	11523.37	-8226.89	1740877.22	421037.84	39°39'11.3667"N	80°18'30.4166"W	14158.73	324.476	0.18	-0.09	-0.15
22387.00	89.510	325.990	8079.20	14246.99	11603.27	-8280.10	1740824.02	421117.74	39°39'12.1516"N	80°18'31.1060"W	14254.68	324.488	0.80	-0.32	-0.73
22482.00	89.570	326.030	8079.96	14341.99	11682.04	-8333.21	1740770.91	421196.50	39°39'12.9253"N	80°18'31.7941"W	14349.65	324.498	0.08	0.06	0.04
22577.00	89.940	326.340	8080.37	14436.99	11760.96	-8386.08	1740718.05	421275.42	39°39'13.7006"N	80°18'32.4791"W	14444.60	324.509	0.51	0.39	0.33
22673.00	89.630	326.290	8080.73	14532.99	11840.84	-8439.32	1740664.81	421355.30	39°39'14.4852"N	80°18'33.1690"W	14540.55	324.521	0.33	-0.32	-0.05
22768.00	89.880	326.690	8081.13	14627.99	11920.05	-8491.77	1740612.36	421434.50	39°39'15.2634"N	80°18'33.8486"W	14635.50	324.534	0.50	0.26	0.42
22864.00	89.820	327.090	8081.38	14723.98	12000.47	-8544.21	1740559.93	421514.91	39°39'16.0534"N	80°18'34.5283"W	14731.42	324.550	0.42	-0.06	0.42
22959.00	90.000	327.030	8081.53	14818.97	12080.19	-8595.86	1740508.27	421594.63	39°39'16.8367"N	80°18'35.1979"W	14826.33	324.566	0.20	0.19	-0.06
23059.00	90.000	327.030	8081.53	14918.97	12164.09	-8650.28	1740453.86	421678.52	39°39'17.6609"N	80°18'35.9034"W	14926.23	324.582	0.00	0.00	0.00
23159.00	90.000	327.030	8081.53	15018.96	12247.98	-8704.70	1740399.44	421762.41	39°39'18.4852"N	80°18'36.6088"W	15026.14	324.598	0.00	0.00	0.00
23259.00	90.000	327.030	8081.53	15118.95	12331.88	-8759.12	1740345.02	421846.30	39°39'19.3094"N	80°18'37.3142"W	15126.05	324.614	0.00	0.00	0.00
23359.00	90.000	327.030	8081.53	15218.95	12415.78	-8813.54	1740290.61	421930.19	39°39'20.1337"N	80°18'38.0197"W	15225.97	324.630	0.00	0.00	0.00
23459.00	90.000	327.030	8081.53	15318.94	12499.67	-8867.96	1740236.19	422014.08	39°39'20.9579"N	80°18'38.7251"W	15325.88	324.646	0.00	0.00	0.00
23501.00	90.000	327.030	8081.53	15360.94	12534.91	-8890.82	1740213.33	422049.32	39°39'21.3041"N	80°18'39.0214"W	15367.84	324.652	0.00	0.00	0.00



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'

Page 11 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

HOLE & CASING SECTIONS - Ref Wellbore: McClellan 3H AWB Ref Wellpath: McClellan 3H AWP Proj: 23501'									
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	1497.98	0.00	0.00	-4.65	-2.04
13.375in Casing Surface	28.00	1468.00	1440.00	28.00	1467.98	0.00	0.00	-4.59	-2.04
12.25in Open Hole	1498.00	2697.00	1199.00	1497.98	2696.17	-4.65	-2.04	16.01	8.89
9.625in Casing Intermediate	28.00	2667.00	2639.00	28.00	2666.20	0.00	0.00	14.84	8.91
8.75in Open Hole	2697.00	7093.00	4396.00	2696.17	7054.30	16.01	8.89	-453.22	-104.79
8.5in Open Hole	7093.00	23501.00	16408.00	7054.30	8081.53	-453.22	-104.79	12534.91	-8890.82
5.5in Casing Production	28.00	23471.00	23443.00	28.00	8081.53	0.00	0.00	12509.74	-8874.50



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'

Page 12 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
McClellan 3H BHL Rev-7	8029.00	12536.68	-8888.87	1740215.28	422051.09	39°39'21.3218"N	80°18'38.9967"W	point
McClellan 3H LP Rev-4	8029.00	49.24	-583.87	1748519.78	409564.41	39°37'18.6411"N	80°16'51.4276"W	point
McClellan 3H BHL Rev-8	8050.00	12536.68	-8888.87	1740215.28	422051.09	39°39'21.3218"N	80°18'38.9967"W	point
McClellan 3H LP Rev-5	8050.00	49.24	-583.87	1748519.78	409564.41	39°37'18.6411"N	80°16'51.4276"W	point
McClellan Hardline #1 (03.15.2022)	8529.00	11916.89	-10998.31	1738105.98	421431.34	39°39'15.0077"N	80°19'5.8940"W	polygon
2D Polygon: dimensions not calculated								

WELLPATH COMPOSITION - Ref Wellbore: McClellan 3H AWB Ref Wellpath: McClellan 3H AWP Proj: 23501'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1350.00	BH Generic gyro - northseeking (Standard)	01 <17.5"> Javins Inertial Gyro [Northseeking] (50'-1350')	McClellan 3H AWB	7/27/2022
1350.00	2639.00	OWSG MWD rev2 - Standard	02 <12.25">SDI MWD [OWSG MWD REV.2-Standard] (1350')(1534'-2639')	McClellan 3H AWB	7/27/2022
2639.00	7015.00	OWSG MWD rev2 - Standard	03 <8.75">SDI MWD [OWSG MWD REV.2-Standard] (2639')(2742'-7015')	McClellan 3H AWB	7/27/2022
7015.00	22959.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 <8.5"> BH ATK Curve [HRGM+Short Spacing] (7015')(7125'-22959')	McClellan 3H AWB	7/27/2022
22959.00	23501.00	BH Blind Drilling	05 <8.5"> ATK Curve Blind Drilling (22959')(23059'-23501')	McClellan 3H AWB	8/2/2022



Actual Wellpath Report

McClellan 3H AWP Proj: 23501'

Page 13 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 3H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 3H AWB
Slot	Slot #03		

COMMENTS
<p>Wellpath general comments API:47061018840000 BH Job #: 111431572 Rig: Patterson 277 Duration: 07/28/2022 - 08/02/2022</p> <p>01_<17.5"> Javins Inertial Gyro [Northseeking] (50'-1350') 02_<12.25">SDI MWD [OWSG MWD REV.2-Standard] (1350')(1534'-2639') 03_<8.75">SDI MWD [OWSG MWD REV.2-Standard] (2639')(2742'-7015') 04_<8.5"> BH ATK Curve [HRGM+Short Spacing] (7015')(7125'-22959') 05_<8.5"> ATK Curve Blind Drilling (22959')(23059' -23501')</p> <p>Final Survey MD @ 22959' Projected MD at TD: 23501'</p>