

NORTHEAST NATURAL ENERGY, LLC

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

Slot: Slot #11
 Well: McClellan 11H
 Wellbore: McClellan 11H PWB

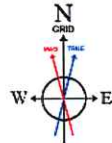
Field reference wellbore is McClellan 11H Rev-A.0	Grid System: NAD83 (Canadian North Virginia SP, Northern Zone (N)) US Feet
This vertical depth is referenced to Patterson 277 (RKB)	North reference Grid north
Reference depths measured depths are referenced to Patterson 277 (RKB)	Local True distance
Patterson 277 (RKB) is Mean Sea Level + 148.7 Feet	Coordinates are in Feet referenced to US
Mean Sea Level is considered to be 148.721 Feet	North arrow is True
Other wellbore UTM are referenced to north arrow 0.000000	Created by: Jmccoy on 2022/05/05 Database: well_logs_easterfield_data

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
McClellan Pad	1749185.000	409495.900	39°37'18.0211"N	80°16'42.9186"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot #11	-37.25	-51.26	1749123.740	409495.600	39°37'17.6497"W
Patterson 277 (RKB) to Ground level (At Slot: Slot #11)					289
Mean Sea Level to Ground level (At Slot: Slot #11)					-14128
Patterson 277 (RKB) to Mean Sea Level					14408

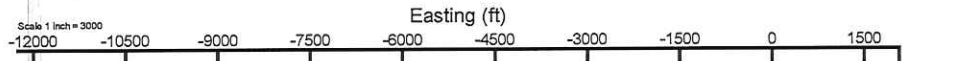
Well Profile Data								
Design Comment	MD (ft)	Inch (")	As (")	TVD (ft)	Local N (ft)	Local E (ft)	DLS (7100ft)	VS (ft)
Tie On	7674.00	31.860	247.760	6998.86	-1517.74	-2048.36	4.06	-129.27
Projection	7774.00	31.860	247.760	6993.79	-1537.71	-2097.22	0.00	-118.85
Hold	8248.78	39.478	232.035	7380.04	-1678.49	-2333.04	2.50	-105.46
Curve KOP	8444.42	39.478	232.035	7531.04	-1755.00	-2431.09	0.00	-114.86
Landing Pt	8535.67	90.000	326.373	8077.00	-1442.89	-3177.30	8.50	558.45
BHL	25547.80	90.000	326.373	8077.00	11890.04	-12044.48	0.00	18570.58

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #11	McClellan 11H	McClellan 11H AWB	McClellan 11H AWP Proj: 23783
Slot #11	McClellan 11H	McClellan 11H PWB	McClellan 11H Rev-A.0

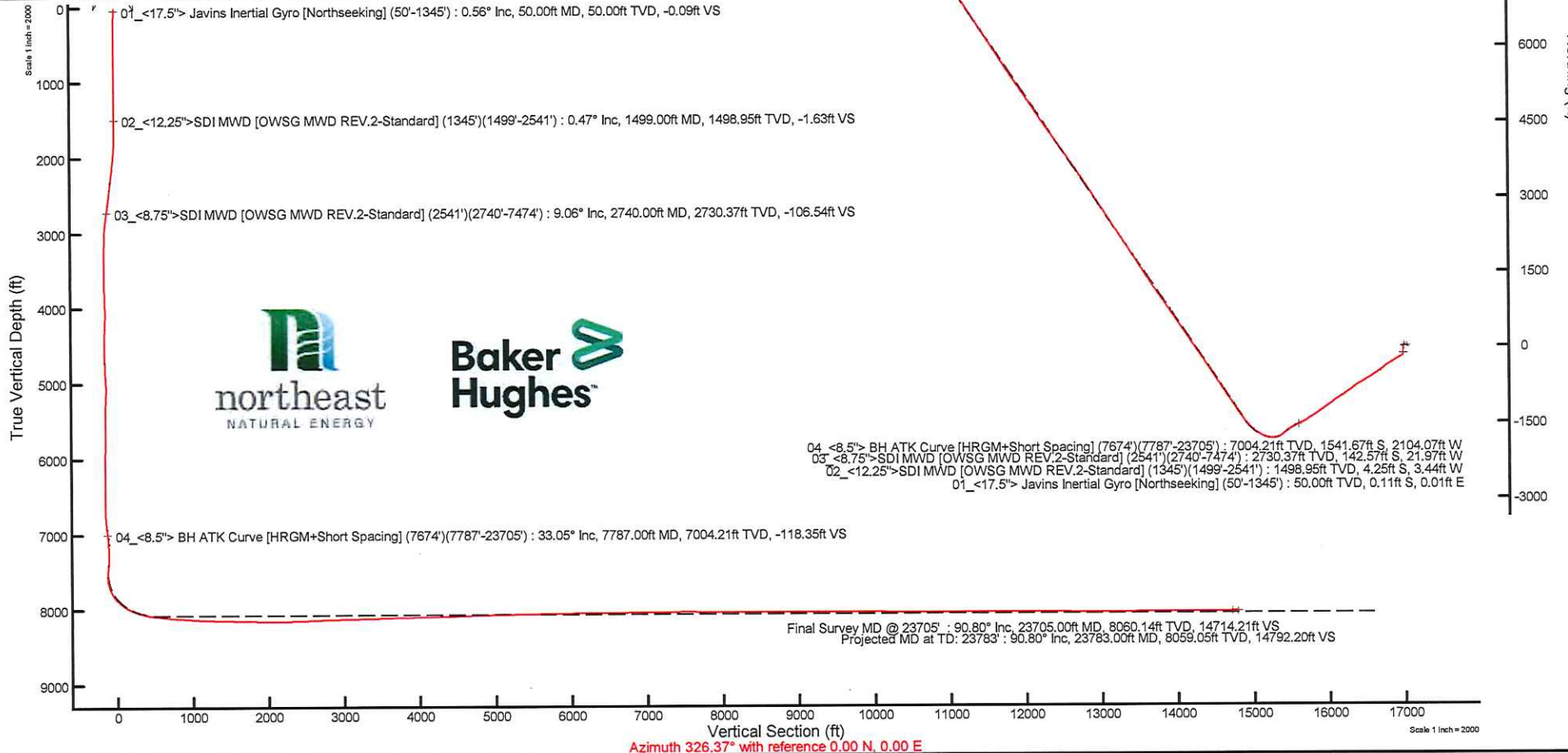
API: 4706101888000
 BH Job #: 111431598
 Rig: Patterson 277
 Duration: 9/29/2022 - 10/5/2022



Use specified HDGM Dip: 66.38° Field: 51873 nT
 Magnetic North is 8.95 degrees West of True North (at 9/29/2022)
 Grid North is 0.50 degrees West of True North
 To correct azimuth from True to Grid add 0.50 degrees
 To correct azimuth from Magnetic to Grid subtract 8.45 degrees



Projected MD at TD: 23783° : 8059.05ft TVD, 10410.69ft N, 11057.47ft W
 Final Survey MD @ 23705° : 8060.14ft TVD, 10346.10ft N, 11013.76ft W



Azimuth 326.37° with reference 0.00 N, 0.00 E



Actual Wellpath Report

McClellan 11H AWP Proj: 23783'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 11H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 11H AWB
Slot	Slot #11		

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	10/7/2022 at 11:49:51 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	-37.25	-61.26	1749123.74	409458.65	39°37'17.6477"N	80°16'43.6974"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 #11)	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°

Actual Wellpath Report

McClellan 11H AWP Proj: 23783'

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REFERENCE WELLPATH IDENTIFICATION			
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Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 11H AWB
Slot	Slot #11		

WELLPATH DATA (263 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	177.000	0.00	0.00	0.00	0.00	1749123.74	409458.65	39°37'17.6477"N	80°16'43.6974"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	177.000	28.00	0.00	0.00	0.00	1749123.74	409458.65	39°37'17.6477"N	80°16'43.6974"W	0.00	0.000	0.00	0.00	0.00
50.00	0.560	177.000	50.00	-0.09	-0.11	0.01	1749123.75	409458.54	39°37'17.6466"N	80°16'43.6973"W	0.11	177.000	2.55	2.55	0.00
100.00	0.600	188.200	100.00	-0.50	-0.61	-0.02	1749123.72	409458.04	39°37'17.6416"N	80°16'43.6976"W	0.61	181.776	0.24	0.08	22.40
150.00	0.660	170.900	149.99	-0.95	-1.15	-0.01	1749123.73	409457.50	39°37'17.6363"N	80°16'43.6974"W	1.15	180.532	0.40	0.12	-34.60
200.00	0.580	221.400	199.99	-1.28	-1.63	-0.13	1749123.61	409457.02	39°37'17.6316"N	80°16'43.6989"W	1.63	184.654	1.07	-0.16	101.00
250.00	0.500	242.800	249.99	-1.32	-1.92	-0.49	1749123.25	409456.73	39°37'17.6287"N	80°16'43.7035"W	1.98	194.443	0.43	-0.16	42.80
300.00	0.380	268.700	299.99	-1.21	-2.02	-0.85	1749122.89	409456.63	39°37'17.6276"N	80°16'43.7081"W	2.19	202.899	0.46	-0.24	51.80
350.00	0.360	264.600	349.99	-1.05	-2.04	-1.18	1749122.56	409456.61	39°37'17.6274"N	80°16'43.7122"W	2.35	209.963	0.07	-0.04	-8.20
400.00	0.200	38.300	399.99	-0.95	-1.99	-1.28	1749122.46	409456.66	39°37'17.6279"N	80°16'43.7135"W	2.36	212.765	1.04	-0.32	267.40
450.00	0.680	124.200	449.99	-1.19	-2.08	-0.98	1749122.76	409456.57	39°37'17.6270"N	80°16'43.7097"W	2.30	205.152	1.39	0.96	171.80
500.00	0.710	140.800	499.98	-1.78	-2.49	-0.54	1749123.20	409456.16	39°37'17.6230"N	80°16'43.7040"W	2.55	192.176	0.41	0.06	33.20
550.00	0.540	237.900	549.98	-2.08	-2.86	-0.54	1749123.20	409455.79	39°37'17.6194"N	80°16'43.7040"W	2.91	190.730	1.89	-0.34	194.20
600.00	0.270	265.300	599.98	-2.02	-2.99	-0.86	1749122.88	409455.66	39°37'17.6180"N	80°16'43.7080"W	3.11	196.010	0.65	-0.54	54.80
650.00	0.240	279.500	649.98	-1.89	-2.98	-1.08	1749122.66	409455.67	39°37'17.6181"N	80°16'43.7108"W	3.17	199.882	0.14	-0.06	28.40
700.00	0.280	323.100	699.98	-1.69	-2.87	-1.26	1749122.48	409455.78	39°37'17.6192"N	80°16'43.7131"W	3.13	203.639	0.39	0.08	87.20
750.00	0.820	200.300	749.98	-1.78	-3.11	-1.45	1749122.29	409455.54	39°37'17.6168"N	80°16'43.7156"W	3.43	205.069	2.00	1.08	-245.60
800.00	0.700	202.400	799.97	-2.16	-3.72	-1.69	1749122.05	409454.93	39°37'17.6107"N	80°16'43.7186"W	4.09	204.453	0.25	-0.24	4.20
850.00	0.490	230.100	849.97	-2.36	-4.14	-1.97	1749121.77	409454.51	39°37'17.6065"N	80°16'43.7222"W	4.59	205.471	0.70	-0.42	55.40
900.00	0.400	259.300	899.97	-2.31	-4.31	-2.31	1749121.43	409454.34	39°37'17.6048"N	80°16'43.7264"W	4.89	208.166	0.48	-0.18	58.40
950.00	0.340	275.100	949.97	-2.15	-4.33	-2.63	1749121.11	409454.32	39°37'17.6046"N	80°16'43.7305"W	5.07	211.247	0.24	-0.12	31.60
1000.00	0.430	300.200	999.97	-1.89	-4.23	-2.94	1749120.80	409454.43	39°37'17.6057"N	80°16'43.7345"W	5.15	214.820	0.38	0.18	50.20
1050.00	0.490	76.000	1049.96	-1.79	-4.08	-2.89	1749120.85	409454.57	39°37'17.6071"N	80°16'43.7339"W	5.00	215.350	1.71	0.12	271.60
1100.00	0.560	224.800	1099.96	-1.91	-4.20	-2.86	1749120.88	409454.45	39°37'17.6059"N	80°16'43.7334"W	5.08	214.231	2.02	0.14	297.60
1150.00	0.480	92.700	1149.96	-2.09	-4.38	-2.82	1749120.92	409454.27	39°37'17.6041"N	80°16'43.7329"W	5.21	212.762	1.90	-0.16	-264.20
1200.00	0.360	116.200	1199.96	-2.35	-4.46	-2.47	1749121.27	409454.19	39°37'17.6033"N	80°16'43.7285"W	5.10	208.971	0.42	-0.24	47.00
1250.00	0.380	106.900	1249.96	-2.61	-4.58	-2.17	1749121.57	409454.07	39°37'17.6022"N	80°16'43.7246"W	5.07	205.362	0.13	0.04	-18.60
1300.00	0.220	55.200	1299.96	-2.74	-4.57	-1.93	1749121.81	409454.08	39°37'17.6023"N	80°16'43.7216"W	4.97	202.918	0.60	-0.32	-103.40
1345.00	0.560	280.000	1344.96	-2.58	-4.49	-2.08	1749121.66	409454.16	39°37'17.6032"N	80°16'43.7235"W	4.95	204.868	1.63	0.76	-300.44
1499.00	0.470	279.880	1498.95	-1.63	-4.25	-3.44	1749120.30	409454.40	39°37'17.6054"N	80°16'43.7409"W	5.47	219.027	0.06	-0.06	-0.08



Actual Wellpath Report

McClellan 11H AWP Proj: 23783'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 11H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 11H AWB
Slot	Slot #11		

WELLPATH DATA (263 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]
1593.00	1.970	231.000	1592.93	-1.52	-5.20	-5.08	1749118.66	409453.45	39°37'17.5959"N	80°16'43.7617"W	7.27	224.332	1.81	1.60	-52.00
1687.00	3.530	223.010	1686.82	-2.34	-8.33	-8.31	1749115.43	409450.32	39°37'17.5646"N	80°16'43.8026"W	11.77	224.921	1.70	1.66	-8.50
1782.00	5.000	218.280	1781.55	-4.30	-13.72	-12.87	1749110.87	409444.93	39°37'17.5110"N	80°16'43.8603"W	18.81	223.165	1.59	1.55	-4.98
1877.00	5.940	204.930	1876.12	-8.15	-21.43	-17.51	1749106.24	409437.22	39°37'17.4344"N	80°16'43.9187"W	27.67	219.247	1.66	0.99	-14.05
1972.00	6.960	192.970	1970.53	-14.67	-31.50	-20.87	1749102.87	409427.16	39°37'17.3346"N	80°16'43.9606"W	37.78	213.529	1.77	1.07	-12.59
2067.00	7.260	184.780	2064.80	-23.32	-43.09	-22.66	1749101.08	409415.57	39°37'17.2199"N	80°16'43.9822"W	48.68	207.742	1.11	0.32	-8.62
2162.00	7.800	180.600	2158.98	-33.36	-55.51	-23.23	1749100.51	409403.14	39°37'17.0971"N	80°16'43.9881"W	60.18	202.706	0.81	0.57	-4.40
2257.00	8.900	182.170	2252.97	-44.65	-69.30	-23.57	1749100.17	409389.35	39°37'16.9607"N	80°16'43.9910"W	73.20	198.786	1.18	1.16	1.65
2352.00	9.170	177.410	2346.79	-57.10	-84.21	-23.51	1749100.23	409374.44	39°37'16.8134"N	80°16'43.9885"W	87.43	195.599	0.84	0.28	-5.01
2447.00	8.310	181.350	2440.69	-69.21	-98.64	-23.33	1749100.41	409360.02	39°37'16.6709"N	80°16'43.9846"W	101.36	193.308	1.10	-0.91	4.15
2541.00	8.460	180.130	2533.69	-80.52	-112.34	-23.51	1749100.23	409346.32	39°37'16.5354"N	80°16'43.9853"W	114.77	191.818	0.25	0.16	-1.30
2740.00	9.060	174.250	2730.37	-106.54	-142.57	-21.97	1749101.77	409316.09	39°37'16.2368"N	80°16'43.9623"W	144.25	188.760	0.54	0.30	-2.95
2835.00	8.730	182.140	2824.23	-119.00	-157.22	-21.49	1749102.25	409301.44	39°37'16.0921"N	80°16'43.9546"W	158.68	187.783	1.33	-0.35	8.31
2930.00	8.120	192.820	2918.21	-129.48	-170.96	-23.25	1749100.49	409287.70	39°37'15.9561"N	80°16'43.9755"W	172.54	187.744	1.76	-0.64	11.24
3024.00	8.150	214.150	3011.28	-136.57	-182.95	-28.46	1749095.28	409275.71	39°37'15.8372"N	80°16'44.0408"W	185.16	188.843	3.19	0.03	22.69
3120.00	8.640	231.270	3106.27	-139.79	-193.10	-37.91	1749085.83	409265.56	39°37'15.7361"N	80°16'44.1604"W	196.79	191.107	2.64	0.51	17.83
3213.00	8.260	229.330	3198.26	-141.23	-201.82	-48.43	1749075.32	409256.84	39°37'15.6490"N	80°16'44.2938"W	207.55	193.492	0.51	-0.41	-2.09
3307.00	9.280	229.970	3291.16	-142.90	-211.10	-59.35	1749064.39	409247.56	39°37'15.5564"N	80°16'44.4324"W	219.28	195.703	1.09	1.09	0.68
3402.00	11.290	236.760	3384.63	-143.69	-221.12	-73.00	1749050.75	409237.54	39°37'15.4561"N	80°16'44.6057"W	232.86	198.269	2.47	2.12	7.15
3496.00	13.810	238.930	3476.38	-143.12	-231.96	-90.30	1749033.44	409226.70	39°37'15.3476"N	80°16'44.8257"W	248.92	201.271	2.73	2.68	2.31
3594.00	15.710	236.990	3571.14	-142.46	-245.23	-111.45	1749012.30	409213.44	39°37'15.2147"N	80°16'45.0944"W	269.36	204.441	2.00	1.94	-1.98
3688.00	17.430	236.710	3661.23	-142.24	-259.89	-133.89	1748989.86	409198.78	39°37'15.0678"N	80°16'45.3796"W	292.35	207.257	1.83	1.83	-0.30
3782.00	20.380	238.820	3750.16	-141.45	-276.09	-159.67	1748964.08	409182.57	39°37'14.9055"N	80°16'45.7072"W	318.94	210.042	3.22	3.14	2.24
3877.00	23.580	241.460	3838.24	-139.06	-293.74	-190.52	1748933.23	409164.93	39°37'14.7284"N	80°16'46.0995"W	350.12	212.968	3.52	3.37	2.78
3972.00	27.290	240.370	3924.02	-135.85	-313.59	-226.16	1748897.60	409145.08	39°37'14.5292"N	80°16'46.5527"W	386.64	215.799	3.94	3.91	-1.15
4066.00	31.270	237.270	4006.00	-133.97	-337.45	-265.43	1748858.33	409121.22	39°37'14.2901"N	80°16'47.0519"W	429.33	218.188	4.53	4.23	-3.30
4161.00	34.190	236.570	4085.91	-133.49	-365.49	-308.46	1748815.30	409093.18	39°37'14.0092"N	80°16'47.5986"W	478.26	220.163	3.10	3.07	-0.74
4256.00	35.860	234.680	4163.70	-134.21	-396.29	-353.44	1748770.32	409062.39	39°37'13.7010"N	80°16'48.1700"W	531.00	221.729	2.10	1.76	-1.99
4348.00	36.600	233.520	4237.91	-136.37	-428.17	-397.48	1748726.28	409030.50	39°37'13.3821"N	80°16'48.7293"W	584.23	222.871	1.10	0.80	-1.26
4448.00	36.490	232.140	4318.25	-140.05	-464.15	-444.93	1748678.84	408994.53	39°37'13.0226"N	80°16'49.3316"W	642.96	223.789	0.83	-0.11	-1.38

REFERENCE WELLPATH IDENTIFICATION			
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Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 11H AWB
Slot	Slot #11		

WELLPATH DATA (263 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]
4542.00	36.450	232.480	4393.85	-144.00	-498.31	-489.14	1748634.63	408960.37	39°37'12.6812"N	80°16'49.8928"W	698.26	224.468	0.22	-0.04	0.36
4637.00	37.020	236.290	4469.99	-145.96	-531.37	-535.32	1748588.45	408927.31	39°37'12.3504"N	80°16'50.4792"W	754.27	225.212	2.47	0.60	4.01
4732.00	37.720	239.240	4545.49	-144.54	-562.11	-584.09	1748539.68	408896.58	39°37'12.0425"N	80°16'51.0990"W	810.63	226.099	2.02	0.74	3.11
4827.00	37.520	238.300	4620.74	-142.11	-592.17	-633.68	1748490.10	408866.51	39°37'11.7411"N	80°16'51.7293"W	867.30	226.939	0.64	-0.21	-0.99
4923.00	37.820	236.800	4696.73	-140.91	-623.65	-683.18	1748440.60	408835.04	39°37'11.4257"N	80°16'52.3584"W	925.03	227.608	1.00	0.31	-1.56
5017.00	38.120	237.470	4770.84	-140.13	-655.03	-731.76	1748392.03	408803.66	39°37'11.1114"N	80°16'52.9756"W	982.11	228.167	0.54	0.32	0.71
5112.00	37.760	240.390	4845.76	-137.53	-685.18	-781.77	1748342.02	408773.52	39°37'10.8093"N	80°16'53.6114"W	1039.53	228.767	1.93	-0.38	3.07
5206.00	37.630	241.670	4920.14	-132.86	-713.01	-832.05	1748291.74	408745.68	39°37'10.5298"N	80°16'54.2508"W	1095.77	229.406	0.84	-0.14	1.36
5301.00	37.610	239.830	4995.39	-128.44	-741.35	-882.64	1748241.15	408717.35	39°37'10.2455"N	80°16'54.8941"W	1152.67	229.973	1.18	-0.02	-1.94
5398.00	37.590	236.550	5072.25	-126.56	-772.53	-932.92	1748190.87	408686.16	39°37'9.9329"N	80°16'55.5332"W	1211.26	230.373	2.06	-0.02	-3.38
5493.00	37.450	233.950	5147.61	-127.68	-805.50	-980.46	1748143.34	408653.19	39°37'9.6030"N	80°16'56.1369"W	1268.91	230.595	1.67	-0.15	-2.74
5588.00	37.450	232.090	5223.03	-131.06	-840.25	-1026.60	1748097.21	408618.45	39°37'9.2557"N	80°16'56.7226"W	1326.62	230.700	1.19	0.00	-1.96
5683.00	35.620	232.470	5299.36	-135.10	-874.85	-1071.33	1748052.48	408583.85	39°37'8.9099"N	80°16'57.2904"W	1383.15	230.765	1.94	-1.93	0.40
5777.00	34.730	234.780	5376.20	-137.70	-906.97	-1114.91	1748008.89	408551.73	39°37'8.5887"N	80°16'57.8438"W	1437.23	230.872	1.70	-0.95	2.46
5872.00	34.710	235.890	5454.28	-138.68	-937.75	-1159.42	1747964.39	408520.96	39°37'8.2807"N	80°16'58.4090"W	1491.18	231.034	0.67	-0.02	1.17
5966.00	33.990	236.970	5531.89	-138.63	-967.08	-1203.60	1747920.21	408491.63	39°37'7.9870"N	80°16'58.9704"W	1543.99	231.219	1.00	-0.77	1.15
6158.00	38.780	237.760	5686.41	-136.61	-1028.44	-1299.51	1747824.31	408430.27	39°37'7.3723"N	80°17'0.1891"W	1657.24	231.642	2.51	2.49	0.41
6253.00	38.400	237.180	5760.67	-135.47	-1060.31	-1349.47	1747774.35	408398.41	39°37'7.0531"N	80°17'0.8240"W	1716.19	231.843	0.55	-0.40	-0.61
6348.00	36.330	232.580	5836.18	-136.91	-1093.41	-1396.63	1747727.19	408365.31	39°37'6.7219"N	80°17'1.4229"W	1773.73	231.943	3.66	-2.18	-4.84
6442.00	34.660	232.190	5912.71	-140.70	-1126.72	-1439.87	1747683.96	408332.00	39°37'6.3890"N	80°17'1.9716"W	1828.31	231.956	1.79	-1.78	-0.41
6537.00	35.150	236.260	5990.63	-142.72	-1158.47	-1483.95	1747639.88	408300.25	39°37'6.0714"N	80°17'2.5315"W	1882.60	232.022	2.50	0.52	4.28
6632.00	38.010	236.300	6066.91	-142.81	-1189.89	-1531.04	1747592.79	408268.83	39°37'5.7568"N	80°17'3.1296"W	1939.05	232.146	3.01	3.01	0.04
6726.00	38.640	235.370	6140.66	-143.36	-1222.63	-1579.27	1747544.57	408236.09	39°37'5.4291"N	80°17'3.7423"W	1997.23	232.254	0.91	0.67	-0.99
6820.00	37.970	235.520	6214.42	-144.30	-1255.68	-1627.25	1747496.59	408203.05	39°37'5.0984"N	80°17'4.3517"W	2055.40	232.344	0.72	-0.71	0.16
6914.00	36.930	234.450	6289.04	-145.68	-1288.47	-1674.07	1747449.77	408170.26	39°37'4.7703"N	80°17'4.9463"W	2112.50	232.416	1.31	-1.11	-1.14
7008.00	37.020	235.930	6364.14	-146.84	-1320.74	-1720.49	1747403.36	408137.99	39°37'4.4473"N	80°17'5.5358"W	2168.97	232.488	0.95	0.10	1.57
7106.00	35.890	237.220	6442.97	-146.64	-1352.82	-1769.08	1747354.77	408105.91	39°37'4.1261"N	80°17'6.1532"W	2227.05	232.595	1.39	-1.15	1.32
7202.00	34.260	238.280	6521.53	-145.32	-1382.27	-1815.73	1747308.13	408076.47	39°37'3.8311"N	80°17'6.7459"W	2282.00	232.719	1.81	-1.70	1.10
7296.00	35.160	237.310	6598.80	-143.99	-1410.80	-1861.01	1747262.84	408047.94	39°37'3.5452"N	80°17'7.3214"W	2335.32	232.835	1.12	0.96	-1.03
7390.00	35.500	236.420	6675.49	-143.53	-1440.51	-1906.53	1747217.33	408018.23	39°37'3.2476"N	80°17'7.8997"W	2389.55	232.926	0.66	0.36	-0.95



Actual Wellpath Report

McClellan 11H AWP Proj: 23783'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 11H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 11H AWB
Slot	Slot #11		

WELLPATH DATA (263 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]
7485.00	35.730	239.310	6752.73	-142.08	-1469.93	-1953.37	1747170.49	407988.81	39°37'2.9529"N	80°17'8.4949"W	2444.65	233.038	1.79	0.24	3.04
7579.00	34.810	243.230	6829.48	-137.47	-1496.02	-2000.93	1747122.93	407962.72	39°37'2.6909"N	80°17'9.0998"W	2498.36	233.216	2.60	-0.98	4.17
7674.00	31.860	247.760	6908.86	-129.27	-1517.74	-2048.36	1747075.50	407941.01	39°37'2.4722"N	80°17'9.7035"W	2549.38	233.463	4.06	-3.11	4.77
7787.00	33.050	245.780	7004.21	-118.35	-1541.67	-2104.07	1747019.79	407917.08	39°37'2.2309"N	80°17'10.4127"W	2608.42	233.770	1.41	1.05	-1.75
7882.00	34.020	241.000	7083.41	-111.96	-1565.18	-2150.95	1746972.92	407893.56	39°37'1.9944"N	80°17'11.0091"W	2660.15	233.958	2.96	1.02	-5.03
7977.00	34.700	240.870	7161.83	-107.70	-1591.23	-2197.82	1746926.06	407867.52	39°37'1.7330"N	80°17'11.6050"W	2713.38	234.095	0.72	0.72	-0.14
8071.00	36.280	240.450	7238.36	-103.62	-1617.97	-2245.39	1746878.49	407840.78	39°37'1.4645"N	80°17'12.2098"W	2767.60	234.224	1.70	1.68	-0.45
8165.00	37.470	236.320	7313.57	-101.66	-1647.55	-2293.38	1746830.50	407811.20	39°37'1.1681"N	80°17'12.8198"W	2823.83	234.307	2.92	1.27	-4.39
8259.00	39.240	229.650	7387.31	-105.17	-1682.67	-2339.86	1746784.03	407776.08	39°37'0.8170"N	80°17'13.4097"W	2882.07	234.279	4.79	1.88	-7.10
8353.00	38.520	229.800	7460.49	-112.00	-1720.82	-2384.87	1746739.01	407737.94	39°37'0.4361"N	80°17'13.9807"W	2940.89	234.187	0.77	-0.77	0.16
8447.00	39.460	229.440	7533.55	-118.95	-1759.13	-2429.92	1746693.97	407699.62	39°37'0.0535"N	80°17'14.5521"W	2999.85	234.097	1.03	1.00	-0.38
8541.00	37.600	243.750	7607.23	-118.87	-1791.31	-2478.44	1746645.45	407667.45	39°36'59.7314"N	80°17'15.1684"W	3058.01	234.142	9.67	-1.98	15.22
8636.00	39.830	260.030	7681.54	-102.90	-1809.44	-2534.55	1746589.35	407649.32	39°36'59.5473"N	80°17'15.8833"W	3114.17	234.477	10.95	2.35	17.14
8731.00	43.230	265.020	7752.67	-75.07	-1817.54	-2596.96	1746526.94	407641.22	39°36'59.4619"N	80°17'16.6799"W	3169.80	235.013	4.99	3.58	5.25
8825.00	46.710	278.430	7819.31	-36.62	-1815.31	-2663.04	1746460.86	407643.45	39°36'59.4781"N	80°17'17.5246"W	3222.91	235.719	10.72	3.70	14.27
8919.00	51.540	289.280	7880.92	15.78	-1798.11	-2731.78	1746392.13	407660.65	39°36'59.6422"N	80°17'18.4048"W	3270.45	236.646	10.12	5.14	11.54
9014.00	57.220	296.830	7936.27	80.31	-1767.75	-2802.65	1746321.26	407691.01	39°36'59.9361"N	80°17'19.3138"W	3313.58	237.759	8.80	5.98	7.95
9109.00	62.920	302.920	7983.69	153.96	-1726.67	-2873.90	1746250.02	407732.08	39°37'0.3358"N	80°17'20.2288"W	3352.72	239.002	8.17	6.00	6.41
9204.00	69.500	305.340	8021.99	234.39	-1677.89	-2945.78	1746178.14	407780.86	39°37'0.8117"N	80°17'21.1528"W	3390.13	240.335	7.31	6.93	2.55
9299.00	74.220	313.060	8051.60	320.57	-1620.84	-3015.61	1746108.32	407837.91	39°37'1.3694"N	80°17'22.0515"W	3423.60	241.743	9.18	4.97	8.13
9394.00	77.910	315.590	8074.48	410.72	-1556.42	-3081.54	1746042.39	407902.33	39°37'2.0003"N	80°17'22.9012"W	3452.30	243.203	4.67	3.88	2.66
9488.00	85.930	323.760	8087.70	503.00	-1485.54	-3141.62	1745982.32	407973.20	39°37'2.6956"N	80°17'23.6768"W	3475.14	244.692	12.11	8.53	8.69
9583.00	82.440	323.330	8097.33	597.38	-1409.54	-3197.76	1745926.17	408049.20	39°37'3.4418"N	80°17'24.4028"W	3494.64	246.213	3.70	-3.67	-0.45
9677.00	81.820	322.960	8110.20	690.35	-1335.03	-3253.61	1745870.33	408123.70	39°37'4.1733"N	80°17'25.1248"W	3516.86	247.691	0.77	-0.66	-0.39
9771.00	85.780	326.370	8120.35	783.73	-1258.82	-3307.63	1745816.31	408199.91	39°37'4.9218"N	80°17'25.8237"W	3539.08	249.164	5.55	4.21	3.63
9865.00	87.320	326.500	8126.01	877.55	-1180.64	-3359.51	1745764.44	408278.09	39°37'5.6899"N	80°17'26.4953"W	3560.93	250.637	1.64	1.64	0.14
9961.00	85.750	326.340	8131.81	973.38	-1100.81	-3412.51	1745711.44	408357.91	39°37'6.4742"N	80°17'27.1815"W	3585.66	252.121	1.64	-1.64	-0.17
10055.00	85.960	326.100	8138.60	1067.13	-1022.88	-3464.63	1745659.32	408435.83	39°37'7.2398"N	80°17'27.8564"W	3612.47	253.552	0.34	0.22	-0.26
10150.00	88.030	326.150	8143.58	1161.99	-944.12	-3517.51	1745606.45	408514.59	39°37'8.0136"N	80°17'28.5409"W	3642.01	254.976	2.18	2.18	0.05
10245.00	88.890	326.130	8146.14	1256.96	-865.26	-3570.42	1745553.54	408593.44	39°37'8.7883"N	80°17'29.2259"W	3673.77	256.378	0.91	0.91	-0.02



Actual Wellpath Report

McClellan 11H AWP Proj: 23783'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 11H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 11H AWB
Slot	Slot #11		

WELLPATH DATA (263 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]
10340.00	88.740	326.220	8148.10	1351.94	-786.35	-3623.29	1745500.67	408672.34	39°37'9.5635"N	80°17'29.9104"W	3707.64	257.755	0.18	-0.16	0.09
10435.00	88.340	326.110	8150.52	1446.90	-707.47	-3676.17	1745447.79	408751.22	39°37'10.3384"N	80°17'30.5950"W	3743.63	259.107	0.44	-0.42	-0.12
10530.00	88.490	326.640	8153.15	1541.87	-628.40	-3728.76	1745395.21	408830.29	39°37'11.1153"N	80°17'31.2759"W	3781.34	260.434	0.58	0.16	0.56
10624.00	88.340	326.300	8155.75	1635.83	-550.07	-3780.66	1745343.31	408908.62	39°37'11.8849"N	80°17'31.9480"W	3820.47	261.722	0.40	-0.16	-0.36
10719.00	88.580	326.090	8158.30	1730.80	-471.16	-3833.50	1745290.48	408987.52	39°37'12.6601"N	80°17'32.6320"W	3862.34	262.993	0.34	0.25	-0.22
10813.00	89.480	326.930	8159.89	1824.78	-392.78	-3885.36	1745238.62	409065.90	39°37'13.4302"N	80°17'33.3036"W	3905.16	264.228	1.31	0.96	0.89
10908.00	88.770	325.910	8161.35	1919.77	-313.64	-3937.89	1745186.09	409145.03	39°37'14.2077"N	80°17'33.9839"W	3950.36	265.446	1.31	-0.75	-1.07
11003.00	89.480	326.400	8162.80	2014.75	-234.75	-3990.80	1745133.19	409223.92	39°37'14.9827"N	80°17'34.6688"W	3997.70	266.634	0.91	0.75	0.52
11097.00	90.090	326.260	8163.15	2108.75	-156.52	-4042.91	1745081.08	409302.14	39°37'15.7513"N	80°17'35.3436"W	4045.94	267.783	0.67	0.65	-0.15
11193.00	91.140	326.100	8162.12	2204.75	-76.77	-4096.34	1745027.65	409381.89	39°37'16.5348"N	80°17'36.0353"W	4097.06	268.926	1.11	1.09	-0.17
11287.00	91.080	326.130	8160.30	2298.73	1.25	-4148.74	1744975.26	409459.90	39°37'17.3012"N	80°17'36.7137"W	4148.74	270.017	0.07	-0.06	0.03
11381.00	91.780	326.370	8157.95	2392.70	79.39	-4200.94	1744923.05	409538.03	39°37'18.0688"N	80°17'37.3897"W	4201.69	271.083	0.79	0.74	0.26
11476.00	91.660	326.310	8155.10	2487.65	158.42	-4253.58	1744870.43	409617.06	39°37'18.8453"N	80°17'38.0712"W	4256.52	272.133	0.14	-0.13	-0.06
11571.00	92.190	326.310	8151.91	2582.60	237.42	-4306.24	1744817.76	409696.06	39°37'19.6215"N	80°17'38.7531"W	4312.78	273.156	0.56	0.56	0.00
11665.00	92.310	326.310	8148.22	2676.53	315.57	-4358.34	1744765.66	409774.21	39°37'20.3893"N	80°17'39.4277"W	4369.75	274.141	0.13	0.13	0.00
11760.00	91.420	325.820	8145.13	2771.48	394.35	-4411.35	1744712.66	409852.98	39°37'21.1631"N	80°17'40.1140"W	4428.94	275.108	1.07	-0.94	-0.52
11855.00	91.780	326.060	8142.47	2866.44	473.02	-4464.53	1744659.48	409931.64	39°37'21.9360"N	80°17'40.8025"W	4489.52	276.048	0.46	0.38	0.25
11949.00	91.420	326.210	8139.85	2960.40	551.05	-4516.89	1744607.12	410009.66	39°37'22.7024"N	80°17'41.4805"W	4550.38	276.956	0.41	-0.38	0.16
12044.00	91.200	325.970	8137.68	3055.37	629.87	-4569.88	1744554.14	410088.48	39°37'23.4768"N	80°17'42.1665"W	4613.08	277.848	0.34	-0.23	-0.25
12139.00	91.790	326.560	8135.20	3150.34	708.84	-4622.62	1744501.40	410167.45	39°37'24.2526"N	80°17'42.8494"W	4676.65	278.718	0.88	0.62	0.62
12235.00	91.510	326.600	8132.43	3246.30	788.94	-4675.47	1744448.56	410247.54	39°37'25.0396"N	80°17'43.5339"W	4741.57	279.578	0.29	-0.29	0.04
12330.00	91.170	326.100	8130.21	3341.27	868.00	-4728.10	1744395.93	410326.59	39°37'25.8163"N	80°17'44.2154"W	4807.11	280.403	0.64	-0.36	-0.53
12425.00	91.880	326.630	8127.69	3436.24	947.06	-4780.70	1744343.33	410405.65	39°37'26.5930"N	80°17'44.8965"W	4873.60	281.205	0.93	0.75	0.56
12520.00	91.600	324.620	8124.80	3531.18	1025.43	-4834.31	1744289.73	410484.02	39°37'27.3628"N	80°17'45.5905"W	4941.87	281.976	2.14	-0.29	-2.12
12614.00	92.460	325.350	8121.47	3625.09	1102.37	-4888.21	1744235.83	410560.95	39°37'28.1184"N	80°17'46.2880"W	5010.97	282.708	1.20	0.91	0.78
12709.00	91.260	325.850	8118.39	3720.03	1180.71	-4941.85	1744182.19	410639.29	39°37'28.8880"N	80°17'46.9824"W	5080.94	283.437	1.37	-1.26	0.53
12804.00	91.750	327.790	8115.89	3814.99	1260.19	-4993.82	1744130.22	410718.76	39°37'29.6689"N	80°17'47.6556"W	5150.37	284.163	2.11	0.52	2.04
12899.00	90.950	327.710	8113.65	3909.94	1340.51	-5044.50	1744079.55	410799.08	39°37'30.4582"N	80°17'48.3123"W	5219.58	284.882	0.85	-0.84	-0.08
12993.00	90.250	327.250	8112.67	4003.91	1419.77	-5095.03	1744029.02	410878.33	39°37'31.2370"N	80°17'48.9671"W	5289.15	285.571	0.89	-0.74	-0.49
13087.00	90.980	327.130	8111.66	4097.90	1498.77	-5145.96	1743978.09	410957.32	39°37'32.0133"N	80°17'49.6269"W	5359.78	286.238	0.79	0.78	-0.13

Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 11H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 11H AWB
Slot	Slot #11		

WELLPATH DATA (263 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]
13182.00	91.750	327.160	8109.40	4192.86	1578.55	-5197.49	1743926.57	411037.10	39°37'32.7972"N	80°17'50.2944"W	5431.91	286.894	0.81	0.81	0.03
13277.00	91.690	327.560	8106.55	4287.80	1658.51	-5248.70	1743875.36	411117.06	39°37'33.5829"N	80°17'50.9580"W	5504.50	287.536	0.43	-0.06	0.42
13371.00	91.690	327.840	8103.77	4381.74	1737.93	-5298.91	1743825.15	411196.47	39°37'34.3634"N	80°17'51.6087"W	5576.63	288.158	0.30	0.00	0.30
13466.00	92.370	327.650	8100.41	4476.65	1818.22	-5349.58	1743774.49	411276.76	39°37'35.1524"N	80°17'52.2653"W	5650.13	288.772	0.74	0.72	-0.20
13561.00	91.850	327.400	8096.91	4571.57	1898.31	-5400.55	1743723.52	411356.84	39°37'35.9394"N	80°17'52.9258"W	5724.47	289.367	0.61	-0.55	-0.26
13656.00	91.600	326.730	8094.05	4666.51	1978.00	-5452.18	1743671.89	411436.53	39°37'36.7225"N	80°17'53.5947"W	5799.89	289.940	0.75	-0.26	-0.71
13751.00	91.350	326.760	8091.61	4761.48	2057.42	-5504.26	1743619.82	411515.94	39°37'37.5028"N	80°17'54.2692"W	5876.21	290.495	0.27	-0.26	0.03
13845.00	91.320	326.340	8089.42	4855.45	2135.83	-5556.06	1743568.02	411594.35	39°37'38.2731"N	80°17'54.9401"W	5952.44	291.027	0.45	-0.03	-0.45
13941.00	91.970	328.090	8086.66	4951.40	2216.50	-5608.02	1743516.07	411675.01	39°37'39.0658"N	80°17'55.6133"W	6030.15	291.566	1.94	0.68	1.82
14035.00	91.140	326.140	8084.11	5045.35	2295.40	-5659.03	1743465.05	411753.91	39°37'39.8411"N	80°17'56.2743"W	6106.84	292.078	2.25	-0.88	-2.07
14130.00	91.020	326.380	8082.32	5140.34	2374.39	-5711.79	1743412.30	411832.89	39°37'40.6170"N	80°17'56.9575"W	6185.65	292.573	0.28	-0.13	0.25
14225.00	91.050	327.610	8080.60	5235.31	2454.04	-5763.53	1743360.57	411912.54	39°37'41.3996"N	80°17'57.6277"W	6264.23	293.064	1.29	0.03	1.29
14319.00	91.170	327.450	8078.78	5329.28	2533.33	-5813.98	1743310.11	411991.83	39°37'42.1788"N	80°17'58.2816"W	6341.94	293.544	0.21	0.13	-0.17
14414.00	91.110	327.480	8076.89	5424.24	2613.41	-5865.06	1743259.04	412071.90	39°37'42.9656"N	80°17'58.9435"W	6420.97	294.017	0.07	-0.06	0.03
14509.00	91.260	327.130	8074.93	5519.21	2693.34	-5916.37	1743207.73	412151.82	39°37'43.7511"N	80°17'59.6083"W	6500.58	294.477	0.40	0.16	-0.37
14604.00	90.740	325.570	8073.27	5614.19	2772.40	-5969.00	1743155.11	412230.89	39°37'44.5278"N	80°18'0.2900"W	6581.43	294.913	1.73	-0.55	-1.64
14699.00	91.380	327.960	8071.51	5709.16	2851.85	-6021.05	1743103.05	412310.32	39°37'45.3083"N	80°18'0.9643"W	6662.29	295.344	2.60	0.67	2.52
14793.00	90.580	326.320	8069.90	5803.14	2930.79	-6072.05	1743052.06	412389.26	39°37'46.0840"N	80°18'1.6250"W	6742.35	295.765	1.94	-0.85	-1.74
14888.00	90.520	327.620	8068.99	5898.12	3010.43	-6123.83	1743000.29	412468.90	39°37'46.8665"N	80°18'2.2958"W	6823.78	296.178	1.37	-0.06	1.37
14983.00	91.170	326.460	8067.59	5993.11	3090.13	-6175.51	1742948.61	412548.59	39°37'47.6496"N	80°18'2.9653"W	6905.49	296.583	1.40	0.68	-1.22
15078.00	90.680	326.450	8066.06	6088.09	3169.30	-6227.99	1742896.13	412627.75	39°37'48.4273"N	80°18'3.6452"W	6988.02	296.971	0.52	-0.52	-0.01
15173.00	90.180	325.990	8065.34	6183.09	3248.26	-6280.81	1742843.31	412706.71	39°37'49.2030"N	80°18'4.3292"W	7071.05	297.347	0.72	-0.53	-0.48
15268.00	90.620	326.660	8064.68	6278.09	3327.31	-6333.49	1742790.64	412785.76	39°37'49.9796"N	80°18'5.0115"W	7154.31	297.715	0.84	0.46	0.71
15362.00	90.520	326.330	8063.74	6372.08	3405.69	-6385.37	1742738.76	412864.13	39°37'50.7496"N	80°18'5.6835"W	7236.83	298.074	0.37	-0.11	-0.35
15456.00	90.460	327.690	8062.94	6466.07	3484.53	-6436.55	1742687.58	412942.97	39°37'51.5242"N	80°18'6.3466"W	7319.23	298.430	1.45	-0.06	1.45
15550.00	90.650	326.160	8062.03	6560.06	3563.29	-6487.85	1742636.29	413021.72	39°37'52.2981"N	80°18'7.0112"W	7401.97	298.777	1.64	0.20	-1.63
15645.00	90.490	325.120	8061.08	6655.04	3641.71	-6541.46	1742582.68	413100.14	39°37'53.0683"N	80°18'7.7054"W	7486.84	299.105	1.11	-0.17	-1.09
15741.00	90.550	325.010	8060.21	6751.02	3720.41	-6596.43	1742527.71	413178.83	39°37'53.8412"N	80°18'8.4169"W	7573.27	299.423	0.13	0.06	-0.11
15835.00	90.710	325.590	8059.18	6844.99	3797.68	-6649.94	1742474.20	413256.10	39°37'54.6002"N	80°18'9.1096"W	7657.95	299.730	0.64	0.17	0.62
15930.00	90.430	325.430	8058.24	6939.98	3875.98	-6703.73	1742420.42	413334.39	39°37'55.3692"N	80°18'9.8061"W	7743.60	300.036	0.34	-0.29	-0.17



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REFERENCE WELLPATH IDENTIFICATION				
Operator	NORTHEAST NATURAL ENERGY, LLC		Well	McClellan 11H
Field	Monongalia		API/Legal	
Facility	McClellan Pad		Wellbore	McClellan 11H AWB
Slot	Slot #11			

WELLPATH DATA (263 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]
16025.00	90.400	325.190	8057.55	7034.96	3954.09	-6757.80	1742366.35	413412.50	39°37'56.1364"N	80°18'10.5060"W	7829.61	300.333	0.25	-0.03	-0.25
16120.00	90.680	325.120	8056.65	7129.93	4032.06	-6812.08	1742312.08	413490.46	39°37'56.9020"N	80°18'11.2086"W	7915.93	300.621	0.30	0.29	-0.07
16215.00	91.200	325.800	8055.09	7224.91	4110.30	-6865.93	1742258.23	413568.70	39°37'57.6705"N	80°18'11.9059"W	8002.22	300.907	0.90	0.55	0.72
16309.00	90.180	324.660	8053.96	7318.88	4187.51	-6919.53	1742204.63	413645.90	39°37'58.4288"N	80°18'12.5998"W	8087.97	301.181	1.63	-1.09	-1.21
16405.00	90.180	323.550	8053.66	7414.80	4265.27	-6975.82	1742148.35	413723.66	39°37'59.1924"N	80°18'13.3280"W	8176.47	301.443	1.16	0.00	-1.16
16499.00	90.800	325.130	8052.86	7508.74	4341.64	-7030.61	1742093.56	413800.03	39°37'59.9422"N	80°18'14.0371"W	8263.13	301.697	1.81	0.66	1.68
16594.00	89.140	325.520	8052.91	7603.72	4419.77	-7084.66	1742039.51	413878.15	39°38'0.7095"N	80°18'14.7368"W	8350.25	301.958	1.79	-1.75	0.41
16688.00	89.540	325.980	8053.99	7697.70	4497.46	-7137.56	1741986.62	413955.84	39°38'1.4727"N	80°18'15.4218"W	8436.34	302.216	0.65	0.43	0.49
16783.00	89.880	326.490	8054.47	7792.70	4576.44	-7190.36	1741933.82	414034.81	39°38'2.2485"N	80°18'16.1057"W	8523.20	302.475	0.65	0.36	0.54
16877.00	90.220	326.190	8054.39	7886.70	4654.68	-7242.46	1741881.72	414113.04	39°38'3.0170"N	80°18'16.7805"W	8609.25	302.729	0.48	0.36	-0.32
16972.00	90.000	326.230	8054.20	7981.70	4733.63	-7295.29	1741828.89	414191.99	39°38'3.7926"N	80°18'17.4648"W	8696.47	302.978	0.24	-0.23	0.04
17067.00	89.880	326.060	8054.30	8076.70	4812.52	-7348.22	1741775.97	414270.88	39°38'4.5676"N	80°18'18.1503"W	8783.89	303.222	0.22	-0.13	-0.18
17162.00	89.970	325.170	8054.43	8171.69	4890.92	-7401.87	1741722.33	414349.27	39°38'5.3376"N	80°18'18.8450"W	8871.79	303.455	0.94	0.09	-0.94
17255.00	90.180	326.190	8054.31	8264.68	4967.73	-7454.30	1741669.89	414426.07	39°38'6.0920"N	80°18'19.5240"W	8957.95	303.680	1.12	0.23	1.10
17350.00	89.880	326.290	8054.26	8359.68	5046.71	-7507.09	1741617.11	414505.05	39°38'6.8679"N	80°18'20.2078"W	9045.76	303.911	0.33	-0.32	0.11
17444.00	89.850	325.960	8054.48	8453.68	5124.75	-7559.49	1741564.71	414583.09	39°38'7.6345"N	80°18'20.8864"W	9132.85	304.134	0.35	-0.03	-0.35
17538.00	89.910	326.370	8054.68	8547.68	5202.83	-7611.83	1741512.38	414661.16	39°38'8.4015"N	80°18'21.5643"W	9220.05	304.353	0.44	0.06	0.44
17634.00	89.720	325.970	8054.99	8643.68	5282.58	-7665.27	1741458.94	414740.90	39°38'9.1849"N	80°18'22.2566"W	9309.25	304.573	0.46	-0.20	-0.42
17729.00	89.850	326.260	8055.34	8738.68	5361.44	-7718.24	1741405.97	414819.76	39°38'9.9595"N	80°18'22.9426"W	9397.67	304.786	0.33	0.14	0.31
17823.00	89.820	326.160	8055.61	8832.68	5439.56	-7770.52	1741353.70	414897.88	39°38'10.7269"N	80°18'23.6198"W	9485.24	304.993	0.11	-0.03	-0.11
17918.00	89.630	325.980	8056.07	8927.67	5518.39	-7823.54	1741300.68	414976.70	39°38'11.5012"N	80°18'24.3066"W	9573.94	305.197	0.28	-0.20	-0.19
18012.00	90.000	327.420	8056.37	9021.67	5596.95	-7875.15	1741249.07	415055.26	39°38'12.2730"N	80°18'24.9752"W	9661.46	305.402	1.58	0.39	1.53
18107.00	89.940	327.300	8056.42	9116.66	5676.95	-7926.39	1741197.84	415135.25	39°38'13.0591"N	80°18'25.6393"W	9749.63	305.611	0.14	-0.06	-0.13
18203.00	89.850	327.410	8056.60	9212.64	5757.78	-7978.17	1741146.06	415216.08	39°38'13.8533"N	80°18'26.3105"W	9838.87	305.818	0.15	-0.09	0.11
18297.00	90.280	327.990	8056.49	9306.62	5837.23	-8028.40	1741095.83	415295.53	39°38'14.6341"N	80°18'26.9617"W	9926.15	306.020	0.77	0.46	0.62
18393.00	90.030	327.500	8056.23	9402.59	5918.42	-8079.64	1741044.60	415376.71	39°38'15.4318"N	80°18'27.6258"W	10015.40	306.223	0.57	-0.26	-0.51
18488.00	89.510	326.270	8056.61	9497.58	5997.99	-8131.53	1740992.70	415456.27	39°38'16.2135"N	80°18'28.2983"W	10104.34	306.413	1.41	-0.55	-1.29
18583.00	89.850	326.990	8057.14	9592.58	6077.32	-8183.79	1740940.45	415535.60	39°38'16.9929"N	80°18'28.9754"W	10193.54	306.598	0.84	0.36	0.76
18678.00	89.780	327.090	8057.45	9687.57	6157.03	-8235.47	1740888.77	415615.31	39°38'17.7761"N	80°18'29.6452"W	10282.61	306.783	0.13	-0.07	0.11
18773.00	90.000	327.470	8057.63	9782.56	6236.96	-8286.82	1740837.42	415695.23	39°38'18.5614"N	80°18'30.3107"W	10371.65	306.966	0.46	0.23	0.40



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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 11H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 11H AWB
Slot	Slot #11		

WELLPATH DATA (263 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]
18866.00	89.540	326.950	8058.01	9875.55	6315.14	-8337.19	1740787.06	415773.40	39°38'19.3295"N	80°18'30.9635"W	10458.95	307.143	0.75	-0.49	-0.56
18961.00	89.600	327.250	8058.72	9970.54	6394.90	-8388.79	1740735.47	415853.16	39°38'20.1132"N	80°18'31.6322"W	10548.29	307.319	0.32	0.06	0.32
19056.00	89.450	327.260	8059.51	10065.52	6474.80	-8440.17	1740684.09	415933.05	39°38'20.8982"N	80°18'32.2982"W	10637.65	307.493	0.16	-0.16	0.01
19150.00	89.420	326.740	8060.43	10159.51	6553.63	-8491.36	1740632.90	416011.88	39°38'21.6727"N	80°18'32.9616"W	10726.29	307.661	0.55	-0.03	-0.55
19245.00	89.600	327.460	8061.25	10254.50	6633.39	-8542.96	1740581.30	416091.64	39°38'22.4563"N	80°18'33.6303"W	10815.92	307.828	0.78	0.19	0.76
19341.00	89.660	327.430	8061.87	10350.48	6714.31	-8594.62	1740529.65	416172.54	39°38'23.2514"N	80°18'34.3000"W	10906.39	307.998	0.07	0.06	-0.03
19435.00	89.660	327.320	8062.42	10444.46	6793.47	-8645.30	1740478.97	416251.71	39°38'24.0292"N	80°18'34.9569"W	10995.11	308.160	0.12	0.00	-0.12
19530.00	90.580	326.720	8062.22	10539.46	6873.16	-8697.01	1740427.26	416331.39	39°38'24.8122"N	80°18'35.6270"W	11085.05	308.319	1.16	0.97	-0.63
19624.00	90.310	327.090	8061.49	10633.45	6951.91	-8748.34	1740375.94	416410.13	39°38'25.5858"N	80°18'36.2922"W	11174.19	308.473	0.49	-0.29	0.39
19718.00	90.580	327.050	8060.76	10727.44	7030.81	-8799.43	1740324.84	416489.02	39°38'26.3610"N	80°18'36.9544"W	11263.32	308.625	0.29	0.29	-0.04
19814.00	90.000	327.270	8060.28	10823.43	7111.46	-8851.49	1740272.79	416569.68	39°38'27.1534"N	80°18'37.6292"W	11354.38	308.779	0.65	-0.60	0.23
19908.00	89.510	327.460	8060.68	10917.41	7190.62	-8902.19	1740222.10	416648.83	39°38'27.9312"N	80°18'38.2863"W	11443.51	308.929	0.56	-0.52	0.20
20004.00	89.570	327.330	8061.45	11013.39	7271.49	-8953.91	1740170.37	416729.69	39°38'28.7257"N	80°18'38.9568"W	11534.61	309.080	0.15	0.06	-0.14
20099.00	89.540	327.400	8062.19	11108.38	7351.49	-9005.14	1740119.15	416809.69	39°38'29.5118"N	80°18'39.6209"W	11624.84	309.227	0.08	-0.03	0.07
20193.00	89.600	327.180	8062.89	11202.36	7430.58	-9055.94	1740068.36	416888.77	39°38'30.2889"N	80°18'40.2793"W	11714.25	309.370	0.24	0.06	-0.23
20288.00	89.510	326.150	8063.63	11297.36	7509.95	-9108.14	1740016.16	416968.14	39°38'31.0685"N	80°18'40.9557"W	11804.98	309.507	1.09	-0.09	-1.08
20381.00	89.570	326.270	8064.38	11390.35	7587.23	-9159.86	1739964.44	417045.42	39°38'31.8277"N	80°18'41.6258"W	11894.08	309.635	0.14	0.06	0.13
20476.00	89.570	326.180	8065.09	11485.35	7666.20	-9212.67	1739911.63	417124.38	39°38'32.6034"N	80°18'42.3100"W	11985.16	309.765	0.09	0.00	-0.09
20571.00	89.820	326.150	8065.60	11580.35	7745.11	-9265.57	1739858.74	417203.28	39°38'33.3785"N	80°18'42.9952"W	12076.32	309.892	0.27	0.26	-0.03
20665.00	89.880	326.010	8065.84	11674.35	7823.11	-9318.03	1739806.29	417281.28	39°38'34.1447"N	80°18'43.6748"W	12166.62	310.016	0.16	0.06	-0.15
20761.00	89.910	326.200	8066.02	11770.35	7902.80	-9371.56	1739752.75	417360.96	39°38'34.9274"N	80°18'44.3683"W	12258.89	310.140	0.20	0.03	0.20
20856.00	89.850	325.990	8066.22	11865.34	7981.64	-9424.55	1739699.76	417439.80	39°38'35.7018"N	80°18'45.0548"W	12350.26	310.261	0.23	-0.06	-0.22
20951.00	89.880	326.040	8066.44	11960.34	8060.41	-9477.66	1739646.66	417518.57	39°38'36.4756"N	80°18'45.7428"W	12441.71	310.380	0.06	0.03	0.05
21046.00	89.970	326.120	8066.57	12055.34	8139.25	-9530.67	1739593.65	417597.40	39°38'37.2499"N	80°18'46.4295"W	12533.20	310.498	0.13	0.09	0.08
21141.00	90.220	326.220	8066.41	12150.34	8218.16	-9583.56	1739540.77	417676.31	39°38'38.0250"N	80°18'47.1147"W	12624.69	310.614	0.28	0.26	0.11
21237.00	89.970	326.270	8066.25	12246.34	8297.98	-9636.90	1739487.43	417756.12	39°38'38.8090"N	80°18'47.8058"W	12717.17	310.731	0.27	-0.26	0.05
21332.00	90.120	325.810	8066.18	12341.34	8376.77	-9689.97	1739434.36	417834.91	39°38'39.5830"N	80°18'48.4933"W	12808.82	310.843	0.51	0.16	-0.48
21426.00	90.220	326.260	8065.90	12435.34	8454.74	-9742.49	1739381.85	417912.87	39°38'40.3487"N	80°18'49.1737"W	12899.56	310.952	0.49	0.11	0.48
21522.00	89.320	325.610	8066.28	12531.33	8534.26	-9796.26	1739328.08	417992.39	39°38'41.1298"N	80°18'49.8703"W	12992.32	311.062	1.16	-0.94	-0.68
21617.00	89.110	325.710	8067.58	12626.31	8612.70	-9849.84	1739274.50	418070.82	39°38'41.9002"N	80°18'50.5643"W	13084.26	311.166	0.24	-0.22	0.11



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McClellan 11H AWP Proj: 23783'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 11H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 11H AWB
Slot	Slot #11		

WELLPATH DATA (263 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]
21712.00	89.970	325.920	8068.35	12721.31	8691.28	-9903.22	1739221.13	418149.40	39°38'42.6720"N	80°18'51.2557"W	13176.19	311.271	0.93	0.91	0.22
21807.00	89.910	325.700	8068.45	12816.30	8769.86	-9956.60	1739167.75	418227.97	39°38'43.4438"N	80°18'51.9472"W	13268.17	311.374	0.24	-0.06	-0.23
21902.00	89.940	326.020	8068.57	12911.30	8848.49	-10009.92	1739114.44	418306.60	39°38'44.2161"N	80°18'52.6379"W	13360.17	311.476	0.34	0.03	0.34
21998.00	90.000	325.950	8068.62	13007.29	8928.06	-10063.62	1739060.74	418386.17	39°38'44.9976"N	80°18'53.3336"W	13453.13	311.578	0.10	0.06	-0.07
22093.00	89.910	326.150	8068.69	13102.29	9006.87	-10116.67	1739007.69	418464.97	39°38'45.7717"N	80°18'54.0210"W	13545.14	311.679	0.23	-0.09	0.21
22188.00	90.400	326.280	8068.44	13197.29	9085.82	-10169.50	1738954.86	418543.92	39°38'46.5472"N	80°18'54.7055"W	13637.12	311.779	0.53	0.52	0.14
22283.00	90.280	326.240	8067.87	13292.29	9164.82	-10222.27	1738902.10	418622.91	39°38'47.3232"N	80°18'55.3891"W	13729.12	311.878	0.13	-0.13	-0.04
22375.00	90.430	326.260	8067.30	13384.29	9241.31	-10273.38	1738850.99	418699.40	39°38'48.0746"N	80°18'56.0514"W	13818.26	311.973	0.16	0.16	0.02
22470.00	90.180	326.150	8066.80	13479.29	9320.26	-10326.22	1738798.15	418778.34	39°38'48.8500"N	80°18'56.7360"W	13910.36	312.069	0.29	-0.26	-0.12
22565.00	90.180	326.070	8066.50	13574.29	9399.12	-10379.19	1738745.19	418857.20	39°38'49.6246"N	80°18'57.4224"W	14002.54	312.163	0.08	0.00	-0.08
22659.00	90.280	326.270	8066.12	13668.28	9477.21	-10431.52	1738692.86	418935.28	39°38'50.3916"N	80°18'58.1004"W	14093.76	312.256	0.24	0.11	0.21
22755.00	90.340	325.900	8065.60	13764.28	9556.87	-10485.09	1738639.30	419014.94	39°38'51.1741"N	80°18'58.7944"W	14186.99	312.348	0.39	0.06	-0.39
22850.00	90.250	325.650	8065.11	13859.27	9635.42	-10538.52	1738585.87	419093.48	39°38'51.9455"N	80°18'59.4866"W	14279.41	312.437	0.28	-0.09	-0.26
22946.00	90.120	326.230	8064.80	13955.27	9714.95	-10592.28	1738532.11	419173.01	39°38'52.7266"N	80°19'0.1831"W	14372.78	312.526	0.62	-0.14	0.60
23040.00	90.030	326.320	8064.68	14049.27	9793.13	-10644.47	1738479.92	419251.18	39°38'53.4946"N	80°19'0.8594"W	14464.10	312.615	0.14	-0.10	0.10
23135.00	89.940	326.030	8064.71	14144.27	9872.05	-10697.35	1738427.04	419330.10	39°38'54.2698"N	80°19'1.5446"W	14556.47	312.702	0.32	-0.09	-0.31
23229.00	89.480	326.170	8065.18	14238.27	9950.07	-10749.78	1738374.62	419408.11	39°38'55.0361"N	80°19'2.2239"W	14647.93	312.788	0.51	-0.49	0.15
23324.00	89.910	326.910	8065.69	14333.26	10029.33	-10802.16	1738322.24	419487.36	39°38'55.8146"N	80°19'2.9027"W	14740.22	312.875	0.90	0.45	0.78
23419.00	90.460	326.240	8065.38	14428.26	10108.61	-10854.49	1738269.92	419566.64	39°38'56.5934"N	80°19'3.5809"W	14832.53	312.962	0.91	0.58	-0.71
23514.00	90.980	326.060	8064.19	14523.25	10187.50	-10907.40	1738217.01	419645.53	39°38'57.3683"N	80°19'4.2665"W	14925.03	313.045	0.58	0.55	-0.19
23609.00	91.540	326.320	8062.10	14618.23	10266.42	-10960.25	1738164.16	419724.44	39°38'58.1434"N	80°19'4.9513"W	15017.54	313.128	0.65	0.59	0.27
23705.00	90.800	325.910	8060.14	14714.21	10346.10	-11013.76	1738110.65	419804.11	39°38'58.9260"N	80°19'5.6447"W	15111.08	313.210	0.88	-0.77	-0.43
23783.00‡	90.800	325.910	8059.05	14792.20	10410.69	-11057.47	1738066.94	419868.70	39°38'59.5604"N	80°19'6.2110"W	15187.17	313.274	0.00	0.00	0.00



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McClellan 11H AWP Proj: 23783'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 11H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 11H AWB
Slot	Slot #11		

HOLE & CASING SECTIONS - Ref Wellbore: McClellan 11H AWB Ref Wellpath: McClellan 11H AWP Proj: 23783'

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	1497.95	0.00	0.00	-4.25	-3.43
13.375in Casing Surface	28.00	1468.00	1440.00	28.00	1467.95	0.00	0.00	-4.29	-3.19
12.25in Open Hole	1498.00	2697.00	1199.00	1497.95	2687.90	-4.25	-3.43	-135.88	-22.57
9.625in Casing Intermediate	28.00	2667.00	2639.00	28.00	2658.25	0.00	0.00	-131.26	-22.91
8.75in Open Hole	2697.00	7764.00	5067.00	2687.90	6984.90	-135.88	-22.57	-1536.58	-2092.65
8.5in Open Hole	7764.00	23783.00	16019.00	6984.90	8059.05	-1536.58	-2092.65	10410.69	-11057.47
5.5in Casing Production	28.00	23753.00	23725.00	28.00	8059.47	0.00	0.00	10385.84	-11040.66

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
McClellan 11H BHL Rev-8	8077.00	11890.04	-12044.48	1737080.00	421347.96	39°39'14.0911"N	80°19'19.0020"W	point
McClellan 11H LP Rev-5	8077.00	-1442.69	-3177.30	1745946.63	408016.05	39°37'3.1160"N	80°17'24.1376"W	point
McClellan Hardline #1 (03.15.2022)	8529.00	11973.42	-11018.44	1738105.98	421431.34	39°39'15.0077"N	80°19'5.8940"W	polygon

2D Polygon: dimensions not calculated



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McClellan 11H AWP Proj: 23783'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 11H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 11H AWB
Slot	Slot #11		

WELLPATH COMPOSITION - Ref Wellbore: McClellan 11H AWB Ref Wellpath: McClellan 11H AWP Proj: 23783'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1345.00	BH Generic gyro - northseeking (Standard)	01_<17.5"> Javins Inertial Gyro [Northseeking] (50'-1345')	McClellan 11H AWB	9/29/2022
1345.00	2541.00	OWSG MWD rev2 - Standard	02_<12.25">SDI MWD [OWSG MWD REV.2-Standard] (1345')(1499'-2541')	McClellan 11H AWB	9/29/2022
2541.00	7674.00	OWSG MWD rev2 - Standard	03_<8.75">SDI MWD [OWSG MWD REV.2-Standard] (2541')(2740'-7474')	McClellan 11H AWB	9/29/2022
7674.00	23783.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_<8.5"> BH ATK Curve [HRGM+Short Spacing] (7674')(7787'-23705')	McClellan 11H AWB	9/29/2022



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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	McClellan 11H
Field	Monongalia	API/Legal	
Facility	McClellan Pad	Wellbore	McClellan 11H AWB
Slot	Slot #11		

COMMENTS
<p>Wellpath general comments API: 47061018880000 BH Job #: 111431598 Rig: Patterson 277 Duration: 9/29/2022 - 10/5/2022</p> <p>01_<17.5"> Javins Inertial Gyro [Northseeking] (50'-1345') 02_<12.25">SDI MWD [OWSG MWD REV.2-Standard] (1345')(1499'-2541') 03_<8.75">SDI MWD [OWSG MWD REV.2-Standard] (2541')(2740'-7474') 04_<8.5"> BH ATK Curve [HRGM+Short Spacing] (7674')(7787'-23705')</p> <p>Final Survey MD @ 23705' Projected MD at TD: 23783'</p>