

# NORTHEAST NATURAL ENERGY, LLC

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

Slot: Slot 5H  
 Well: Bunner 5H  
 Wellbore: Bunner 5H PWB



Well Name	Bunner 5H PWB	Well Type	Production
Well Status	Active	Well Depth	18024.45 ft
Well Completion	Open Hole	Wellbore	Bunner 5H PWB
Wellhead	Surface	Wellhead	Surface
Wellhead	Surface	Wellhead	Surface
Wellhead	Surface	Wellhead	Surface

Location Information				
Facility Name	Grid East (US Ft)	Grid North (US Ft)	Latitude	Longitude
Bunner Pad	176424.500	424248.270	39°39'45.24477N	80°13'31.67505W
Slot	Local N (ft)	Local E (ft)	Grid East (US Ft)	Grid North (US Ft)
Slot 5H	-0.21	40.00	176424.500	424248.160
Patterson 277 (HGS) to Ground level (At Slot: Slot 5H)				268
Mean Sea Level to Observed level (At Slot: Slot 5H)				-127.71
Patterson 277 (HGS) to Mean Sea Level				140.29

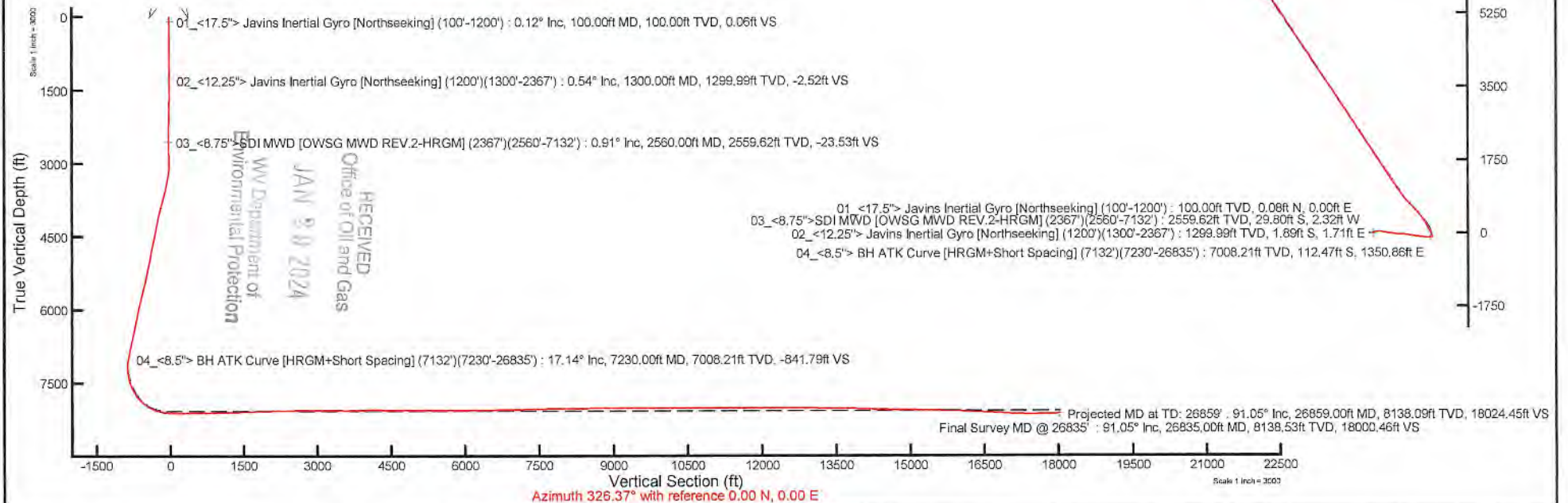
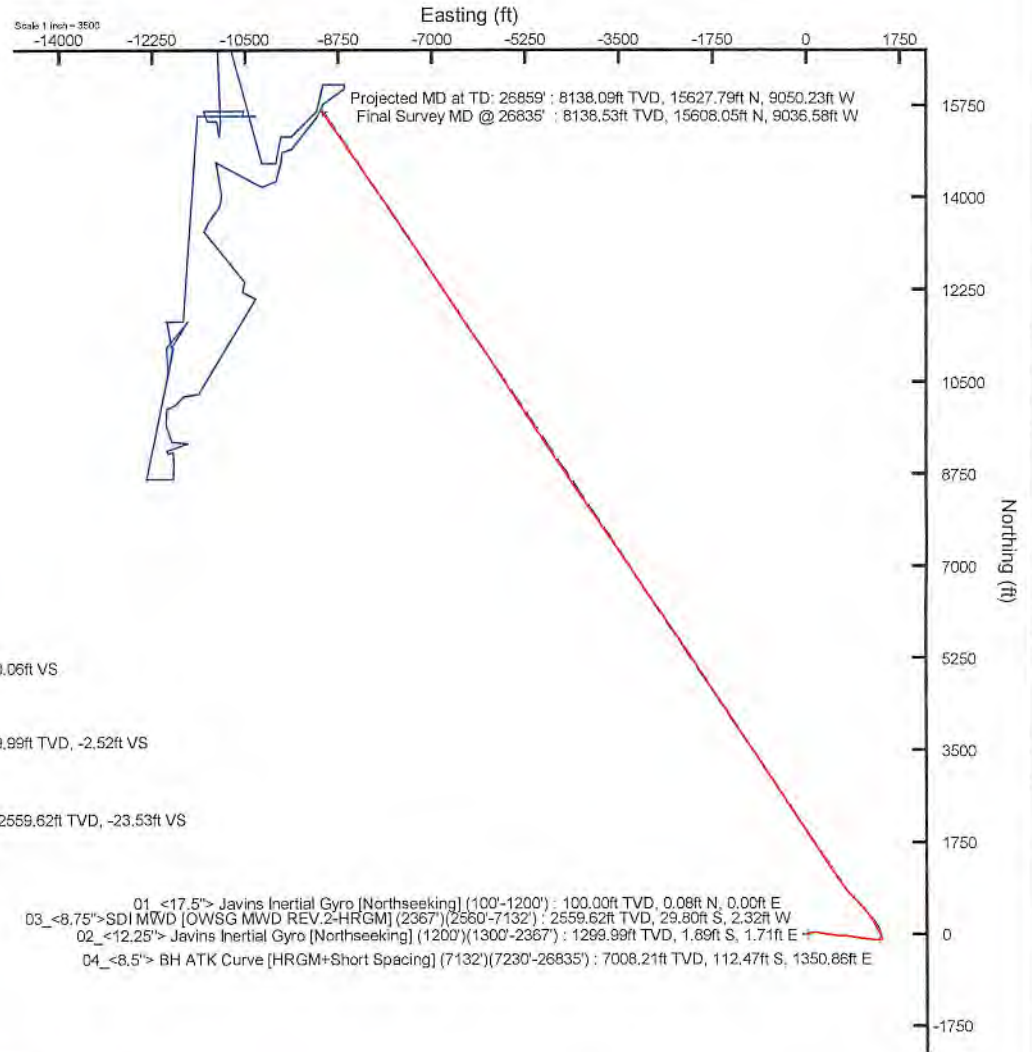
Well Profile Data							
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (ft/100ft)
Top	7132.00	17.490	82.860	8914.65	-111.20	1321.72	0.78
Projection	7222.00	17.490	82.860	7000.49	-112.55	1348.73	0.00
Avoid NCGO Zone	7699.61	18.603	339.058	7405.32	-43.39	1394.24	6.30
Build/Turn	8034.38	35.000	338.000	7763.11	96.45	1338.81	4.90
Landing Pt	8718.28	80.000	315.000	8070.00	560.62	893.29	8.50
Hold	9286.13	90.000	326.557	8070.00	1007.53	628.62	2.00
BHC	26830.67	80.000	326.557	8070.00	15638.97	-9034.76	0.00

Well Data			
Slot	Well	Wellbore	Wellpath
Slot 5H	Bunner 5H	Bunner 5H (PWB)	Bunner 5H Rev-A-D
Slot 5H	Bunner 5H	Bunner 5H AWB	Bunner 5H AWP Proj: 26859



User specified HDGM Dip: 86.42° Field: 51890 nT  
 Magnetic North is 9.08 degrees West of True North (at 10/24/2022)  
 Grid North is 0.48 degrees West of True North  
 To correct azimuth from True to Grid add 0.48 degrees  
 To correct azimuth from Magnetic to Grid subtract 8.63 degrees

API: 47061019080000  
 BH Job #: 111543070  
 Rig: Patterson 277  
 Duration: 10/26/2022 - 11/01/2022



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# Actual Wellpath Report

Burner 5H AWP Proj: 26859'

Page 1 of 13



## REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Burner 5H
Field	Monongalia	API/Legal	
Facility	Burner Pad	Wellbore	Burner 5H AWB
Slot	Slot 5H		

## 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	11/4/2022 at 10:36:53 AM
Convergence at slot	0.46° West	Database	WA_MPL_EASTERNUS_Defn

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-0.21	40.00	1766498.50	424248.16	39°39'45.2454"N	80°13'3.1620"W
Facility Reference Pt			1766458.50	424248.37	39°39'45.2443"N	80°13'3.6735"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	1305.00ft
Horizontal Reference Pt	Slot	Patterson 277 (RKB) to Mean Sea Level	1305.00ft
Vertical Reference Pt	Patterson 277 (RKB)	Patterson 277 (RKB) to Ground Level at Slot (Slot 5H)	28.00ft
MD Reference Pt	Patterson 277 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	326.37°

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Page 2 of 13



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Facility	Burner Pad	Wellbore	Burner 5H AWB
Slot	Slot 5H		

## WELLPATH DATA (283 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	357.740	0.00	0.00	0.00	0.00	1766498.50	424248.16	39°39'45.2454"N	80°13'3.1620"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	357.740	28.00	0.00	0.00	0.00	1766498.50	424248.16	39°39'45.2454"N	80°13'3.1620"W	0.00	0.000	0.00	0.00	0.00
100.00	0.120	357.740	100.00	0.06	0.08	0.00	1766498.50	424248.24	39°39'45.2462"N	80°13'3.1621"W	0.08	357.740	0.17	0.17	0.00
200.00	0.080	7.670	200.00	0.21	0.25	0.00	1766498.50	424248.41	39°39'45.2479"N	80°13'3.1620"W	0.25	0.509	0.04	-0.04	9.93
300.00	0.090	116.160	300.00	0.19	0.28	0.08	1766498.58	424248.44	39°39'45.2482"N	80°13'3.1610"W	0.30	16.125	0.14	0.01	108.49
400.00	0.090	123.840	400.00	0.05	0.21	0.22	1766498.72	424248.37	39°39'45.2475"N	80°13'3.1592"W	0.30	46.678	-0.01	0.00	7.68
500.00	0.120	133.330	500.00	-0.12	0.09	0.36	1766498.86	424248.25	39°39'45.2463"N	80°13'3.1574"W	0.37	75.967	0.03	0.03	9.49
600.00	0.190	121.540	600.00	-0.38	-0.07	0.58	1766499.08	424248.09	39°39'45.2448"N	80°13'3.1546"W	0.58	96.806	0.08	0.07	-11.79
700.00	0.150	102.930	700.00	-0.62	-0.18	0.85	1766499.35	424247.98	39°39'45.2437"N	80°13'3.1512"W	0.87	102.331	0.07	-0.04	-18.61
800.00	0.070	177.750	800.00	-0.77	-0.28	0.98	1766499.48	424247.88	39°39'45.2428"N	80°13'3.1495"W	1.01	105.753	0.15	-0.08	74.82
900.00	0.150	118.340	900.00	-0.94	-0.40	1.09	1766499.59	424247.76	39°39'45.2416"N	80°13'3.1480"W	1.16	110.022	0.13	0.08	-59.41
1000.00	0.190	153.650	1000.00	-1.22	-0.61	1.28	1766499.78	424247.55	39°39'45.2395"N	80°13'3.1456"W	1.42	115.413	0.11	0.04	35.31
1100.00	0.180	141.930	1100.00	-1.54	-0.88	1.45	1766499.95	424247.28	39°39'45.2368"N	80°13'3.1433"W	1.70	121.249	0.04	-0.01	-11.72
1200.00	0.250	161.490	1200.00	-1.91	-1.21	1.62	1766500.12	424246.95	39°39'45.2336"N	80°13'3.1412"W	2.02	126.824	0.10	0.07	19.56
1300.00	0.540	177.110	1299.99	-2.52	-1.89	1.71	1766500.21	424246.27	39°39'45.2269"N	80°13'3.1399"W	2.55	137.827	0.31	0.29	15.62
1400.00	0.460	201.640	1399.99	-3.15	-2.73	1.59	1766500.09	424245.43	39°39'45.2185"N	80°13'3.1414"W	3.16	149.854	0.23	-0.08	24.53
1500.00	0.540	209.040	1499.99	-3.60	-3.52	1.21	1766499.71	424244.64	39°39'45.2107"N	80°13'3.1462"W	3.72	161.014	0.10	0.08	7.40
1600.00	0.970	200.070	1599.98	-4.32	-4.73	0.69	1766499.19	424243.44	39°39'45.1988"N	80°13'3.1527"W	4.78	171.677	0.44	-0.43	-8.97
1700.00	1.210	190.160	1699.96	-5.58	-6.56	0.21	1766498.71	424241.60	39°39'45.1806"N	80°13'3.1586"W	6.56	178.127	0.30	0.24	-9.91
1800.00	1.390	190.930	1799.93	-7.21	-8.79	-0.20	1766498.30	424239.37	39°39'45.1585"N	80°13'3.1637"W	8.79	181.314	0.18	0.18	0.77
1900.00	1.840	190.250	1899.89	-9.23	-11.56	-0.72	1766497.78	424236.60	39°39'45.1311"N	80°13'3.1700"W	11.58	183.551	0.45	0.45	-0.68
2000.00	1.820	191.400	1999.84	-11.51	-14.70	-1.32	1766497.18	424233.46	39°39'45.1001"N	80°13'3.1773"W	14.76	185.120	0.04	-0.02	1.15
2100.00	1.710	188.680	2099.80	-13.73	-17.73	-1.86	1766496.64	424230.43	39°39'45.0701"N	80°13'3.1839"W	17.83	185.976	0.14	-0.11	-2.72
2200.00	1.890	184.980	2199.75	-16.13	-20.85	-2.22	1766496.28	424227.31	39°39'45.0392"N	80°13'3.1883"W	20.96	186.090	0.21	0.18	-3.70
2300.00	1.780	189.710	2299.69	-18.54	-24.02	-2.63	1766495.87	424224.14	39°39'45.0078"N	80°13'3.1932"W	24.16	186.247	0.19	-0.11	4.73
2367.00	1.750	191.360	2366.66	-20.02	-26.05	-3.01	1766495.49	424222.11	39°39'44.9878"N	80°13'3.1978"W	26.22	186.584	0.09	-0.04	2.46
2560.00	0.910	124.320	2559.62	-23.53	-29.80	-2.32	1766496.18	424218.36	39°39'44.9507"N	80°13'3.1886"W	29.89	184.453	0.84	-0.44	-34.74
2655.00	3.110	39.780	2654.57	-23.49	-28.25	-0.05	1766498.45	424219.92	39°39'44.9663"N	80°13'3.1597"W	28.25	180.098	3.32	2.32	-88.99
2753.00	6.030	23.490	2752.25	-19.94	-21.48	3.71	1766502.20	424226.68	39°39'45.0334"N	80°13'3.1124"W	21.80	170.214	3.23	2.98	-16.62
2848.00	8.800	35.440	2846.45	-14.63	-10.98	9.91	1766508.41	424237.18	39°39'45.1377"N	80°13'3.0342"W	14.79	137.939	3.32	2.92	12.58



# Actual Wellpath Report

Burner 5H AWP Proj: 26859'  
Page 3 of 13



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Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 5H
Field	Monongalia	API/Legal	
Facility	Bunner Pad	Wellbore	Burner 5H AWB
Slot	Slot 5H		

## WELLPATH DATA (283 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]
2943.00	11.060	49.050	2940.03	-10.87	0.91	21.01	1766519.51	424249.07	39°39'45.2561"N	80°13'2.8935"W	21.03	87.509	3.41	2.38	14.33
3038.00	12.520	61.300	3033.04	-10.60	11.83	36.93	1766535.42	424259.99	39°39'45.3653"N	80°13'2.6911"W	38.78	72.231	3.04	1.54	12.89
3133.00	12.820	75.010	3125.75	-14.85	19.51	56.14	1766554.64	424267.67	39°39'45.4426"N	80°13'2.4461"W	59.44	70.841	3.17	0.32	14.43
3228.00	15.980	84.450	3217.77	-24.38	23.50	79.35	1766577.84	424271.66	39°39'45.4839"N	80°13'2.1498"W	82.76	73.504	4.13	3.33	9.94
3322.00	19.080	91.580	3307.40	-39.33	24.33	107.60	1766606.09	424272.49	39°39'45.4943"N	80°13'1.7887"W	110.31	77.260	4.01	3.30	7.59
3417.00	19.510	88.940	3397.07	-56.83	24.19	138.98	1766637.47	424272.35	39°39'45.4955"N	80°13'1.3874"W	141.07	80.125	1.02	0.45	-2.78
3512.00	20.200	88.670	3486.42	-74.13	24.87	171.24	1766669.73	424273.02	39°39'45.5047"N	80°13'0.9750"W	173.03	81.738	0.73	0.73	-0.28
3607.00	20.690	99.130	3575.46	-94.30	22.58	204.22	1766702.70	424270.74	39°39'45.4847"N	80°13'0.5531"W	205.46	83.690	3.88	0.52	11.01
3705.00	21.140	103.710	3667.01	-119.05	15.65	238.48	1766736.96	424263.81	39°39'45.4189"N	80°13'0.1143"W	238.99	86.246	1.73	0.46	4.67
3800.00	21.270	99.960	3755.58	-143.53	8.61	272.10	1766770.58	424256.77	39°39'45.3519"N	80°12'59.6837"W	272.23	88.188	1.43	0.14	-3.95
3895.00	20.510	99.840	3844.34	-166.86	2.78	305.46	1766803.95	424250.94	39°39'45.2970"N	80°12'59.2565"W	305.48	89.478	0.80	-0.80	-0.13
3990.00	18.220	103.470	3933.96	-189.19	-3.52	336.31	1766834.79	424244.64	39°39'45.2371"N	80°12'58.8614"W	336.33	90.600	2.72	-2.41	3.82
4086.00	17.800	102.760	4025.26	-210.81	-10.26	365.22	1766863.70	424237.90	39°39'45.1728"N	80°12'58.4911"W	365.36	91.609	0.49	-0.44	-0.74
4180.00	17.870	97.950	4114.75	-230.79	-15.43	393.52	1766891.99	424232.73	39°39'45.1240"N	80°12'58.1287"W	393.82	92.245	1.57	0.07	-5.12
4275.00	17.710	93.700	4205.21	-249.22	-18.38	422.37	1766920.85	424229.78	39°39'45.0971"N	80°12'57.7595"W	422.77	92.491	1.38	-0.17	-4.47
4370.00	17.670	96.480	4295.72	-267.27	-20.94	451.12	1766949.59	424227.23	39°39'45.0741"N	80°12'57.3917"W	451.60	92.657	0.89	-0.04	2.93
4465.00	17.480	96.430	4386.28	-285.74	-24.16	479.62	1766978.09	424224.00	39°39'45.0445"N	80°12'57.0269"W	480.23	92.884	0.20	-0.20	-0.05
4560.00	17.370	96.130	4476.92	-304.00	-27.27	507.90	1767006.37	424220.89	39°39'45.0159"N	80°12'56.6650"W	508.63	93.074	0.15	-0.12	-0.32
4658.00	17.650	98.430	4570.38	-323.31	-31.01	537.14	1767035.61	424217.15	39°39'44.9813"N	80°12'56.2907"W	538.03	93.304	0.76	0.29	2.35
4753.00	18.440	95.830	4660.71	-342.50	-34.85	566.33	1767064.80	424213.51	39°39'44.9476"N	80°12'55.9170"W	567.39	93.501	1.19	0.83	-2.74
4848.00	18.840	95.050	4750.73	-361.64	-37.53	596.56	1767095.03	424210.63	39°39'44.9216"N	80°12'55.5302"W	597.74	93.600	0.50	0.42	-0.82
4942.00	17.990	91.770	4839.92	-379.53	-39.31	626.19	1767124.65	424208.85	39°39'44.9063"N	80°12'55.1512"W	627.42	93.592	1.43	-0.90	-3.49
5037.00	17.720	91.560	4930.34	-396.36	-40.16	655.31	1767153.77	424208.00	39°39'44.9002"N	80°12'54.7788"W	656.54	93.507	0.29	-0.28	-0.22
5132.00	18.440	91.340	5020.65	-413.31	-40.90	684.78	1767183.24	424207.26	39°39'44.8951"N	80°12'54.4019"W	686.00	93.418	0.76	0.76	-0.23
5228.00	18.330	92.250	5111.75	-430.86	-41.85	715.04	1767213.50	424206.31	39°39'44.8882"N	80°12'54.0149"W	716.27	93.350	0.32	-0.11	0.95
5322.00	18.080	94.180	5201.04	-448.46	-43.49	744.36	1767242.81	424204.67	39°39'44.8742"N	80°12'53.6398"W	745.63	93.344	0.69	-0.27	2.05
5418.00	18.450	93.630	5292.21	-466.79	-45.54	774.38	1767272.83	424202.62	39°39'44.8564"N	80°12'53.2558"W	775.71	93.366	0.43	0.39	-0.57
5513.00	19.390	95.790	5382.07	-485.91	-48.09	805.07	1767303.52	424200.08	39°39'44.8336"N	80°12'52.8631"W	806.50	93.418	1.23	0.99	2.27
5612.00	19.860	99.720	5475.33	-507.89	-52.58	838.00	1767336.45	424195.58	39°39'44.7918"N	80°12'52.4416"W	839.64	93.590	1.41	0.47	3.97
5707.00	20.440	101.520	5564.51	-530.73	-58.62	870.16	1767368.60	424189.54	39°39'44.7346"N	80°12'52.0298"W	872.13	93.854	0.89	0.61	1.89



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Page 4 of 13



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Field	Monongalia	API/Legal	
Facility	Burner Pad	Wellbore	Burner 5H AWB
Slot	Slot 5H		

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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]
5801.00	19.970	100.630	5652.73	-553.56	-64.86	902.02	1767400.46	424183.31	39°39'44.6755"N	80°12'51.6218"W	904.34	94.113	0.60	-0.50	-0.95
5896.00	19.520	99.120	5742.14	-575.66	-70.37	933.63	1767432.07	424177.80	39°39'44.6235"N	80°12'51.2170"W	936.28	94.310	0.72	-0.47	-1.59
5991.00	19.100	97.520	5831.80	-596.66	-74.92	964.71	1767463.15	424173.25	39°39'44.5810"N	80°12'50.8191"W	967.62	94.441	0.71	-0.44	-1.68
6086.00	18.960	100.320	5921.61	-617.60	-79.72	995.30	1767493.74	424168.45	39°39'44.5360"N	80°12'50.4274"W	998.49	94.579	0.97	-0.15	2.95
6180.00	18.330	99.940	6010.68	-638.39	-85.00	1024.89	1767523.33	424163.16	39°39'44.4861"N	80°12'50.0486"W	1028.41	94.741	0.68	-0.67	-0.40
6275.00	18.110	93.980	6100.92	-657.70	-88.61	1054.33	1767552.77	424159.56	39°39'44.4528"N	80°12'49.6717"W	1058.05	94.804	1.97	-0.23	-6.27
6370.00	17.910	93.760	6191.27	-675.58	-90.59	1083.64	1767582.07	424157.58	39°39'44.4355"N	80°12'49.2968"W	1087.42	94.779	0.22	-0.21	-0.23
6465.00	16.940	94.010	6281.91	-692.90	-92.52	1112.02	1767610.45	424155.65	39°39'44.4187"N	80°12'48.9337"W	1115.86	94.756	1.02	-1.02	0.26
6560.00	16.450	96.020	6372.90	-709.94	-94.89	1139.21	1767637.64	424153.27	39°39'44.3973"N	80°12'48.5859"W	1143.15	94.762	0.80	-0.52	2.12
6658.00	18.120	97.640	6466.47	-728.84	-98.38	1168.11	1767666.54	424149.79	39°39'44.3652"N	80°12'48.2159"W	1172.25	94.814	1.77	1.70	1.65
6753.00	19.610	96.580	6556.37	-748.88	-102.17	1198.59	1767697.02	424146.00	39°39'44.3301"N	80°12'47.8258"W	1202.94	94.872	1.61	1.57	-1.12
6848.00	19.660	95.160	6645.84	-769.18	-105.43	1230.34	1767728.77	424142.74	39°39'44.3003"N	80°12'47.4195"W	1234.85	94.898	0.51	0.05	-1.49
6944.00	19.720	92.870	6736.23	-788.93	-107.69	1262.60	1767761.03	424140.47	39°39'44.2805"N	80°12'47.0068"W	1267.19	94.875	0.81	0.06	-2.39
7038.00	18.120	93.930	6825.15	-807.28	-109.49	1293.03	1767791.45	424138.68	39°39'44.2651"N	80°12'46.6176"W	1297.66	94.840	1.74	-1.70	1.13
7132.00	17.490	92.860	6914.65	-824.59	-111.20	1321.72	1767820.14	424136.97	39°39'44.2505"N	80°12'46.2505"W	1326.39	94.809	0.76	-0.67	-1.14
7230.00	17.140	92.120	7008.21	-841.79	-112.47	1350.86	1767849.28	424135.70	39°39'44.2402"N	80°12'45.8778"W	1355.53	94.759	0.42	-0.36	-0.76
7325.00	15.490	84.360	7099.39	-855.92	-111.74	1377.48	1767875.89	424136.43	39°39'44.2495"N	80°12'45.5375"W	1382.00	94.638	2.87	-1.74	-8.17
7420.00	10.490	50.050	7192.06	-860.93	-104.92	1396.77	1767895.19	424143.24	39°39'44.3184"N	80°12'45.2915"W	1400.71	94.296	9.46	-5.26	-36.12
7515.00	10.600	19.530	7285.53	-854.74	-91.12	1406.33	1767904.74	424157.04	39°39'44.4555"N	80°12'45.1707"W	1409.28	93.707	5.81	0.12	-32.13
7610.00	11.880	340.440	7378.84	-839.99	-73.65	1405.98	1767904.39	424174.51	39°39'44.6282"N	80°12'45.1770"W	1407.90	92.999	7.97	1.35	-41.15
7705.00	16.840	329.680	7470.86	-816.75	-52.54	1395.75	1767894.16	424195.52	39°39'44.8360"N	80°12'45.3099"W	1396.74	92.156	5.91	5.22	-11.33
7800.00	20.560	336.820	7560.84	-786.59	-25.31	1382.23	1767880.64	424222.85	39°39'45.1040"N	80°12'45.4856"W	1382.46	91.049	4.59	3.92	7.52
7895.00	26.800	333.300	7647.80	-748.89	9.19	1366.02	1767864.44	424257.35	39°39'45.4437"N	80°12'45.6963"W	1366.05	89.615	6.73	6.57	-3.71
7990.00	33.600	330.870	7729.86	-701.37	51.34	1343.58	1767841.99	424299.49	39°39'45.8585"N	80°12'45.9876"W	1344.56	87.812	7.27	7.16	-2.56
8085.00	39.830	331.570	7805.98	-644.81	101.10	1316.27	1767814.69	424349.26	39°39'46.3481"N	80°12'46.3418"W	1320.14	85.608	6.57	6.56	0.74
8180.00	46.440	331.670	7875.26	-580.16	158.22	1285.41	1767783.84	424406.37	39°39'46.9102"N	80°12'46.7421"W	1295.12	82.983	6.96	6.96	0.11
8275.00	51.800	330.690	7937.42	-508.61	221.11	1250.78	1767749.20	424469.26	39°39'47.5290"N	80°12'47.1913"W	1270.17	79.975	5.70	5.64	-1.03
8371.00	58.900	327.130	7991.98	-429.78	288.63	1209.95	1767708.37	424536.77	39°39'48.1930"N	80°12'47.7203"W	1243.90	76.583	8.00	7.40	-3.71
8466.00	65.500	323.670	8036.27	-345.82	357.70	1162.20	1767660.63	424605.84	39°39'48.8719"N	80°12'48.3378"W	1216.00	72.893	7.66	6.95	-3.64
8561.00	71.980	322.540	8070.70	-257.48	428.46	1109.06	1767607.50	424676.59	39°39'49.5670"N	80°12'49.0245"W	1188.95	68.877	6.91	6.82	-1.19



# Actual Wellpath Report

Burner 5H AWP Proj: 26859'  
Page 5 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Burner 5H
Field	Monongalia	API/Legal	
Facility	Burner Pad	Wellbore	Burner 5H AWB
Slot	Slot 5H		

WELLPATH DATA (283 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]
8666.00	78.630	319.380	8094.79	-166.07	499.76	1051.19	1767549.63	424747.88	39°39'50.2671"N	80°12'49.7717"W	1163.94	64.573	7.70	7.00	-3.33
8752.00	85.660	316.050	8107.91	-72.13	570.04	987.24	1767485.68	424818.17	39°39'50.9566"N	80°12'50.5966"W	1140.00	59.998	8.09	7.32	-3.47
8847.00	85.440	314.050	8115.28	20.74	637.07	920.33	1767418.78	424885.19	39°39'51.6138"N	80°12'51.4589"W	1119.31	55.308	2.11	-0.23	-2.11
8942.00	88.310	316.440	8120.46	113.80	704.42	853.56	1767352.01	424952.54	39°39'52.2741"N	80°12'52.3196"W	1106.69	50.468	3.93	3.02	2.52
9037.00	90.950	320.150	8121.07	207.83	775.32	790.37	1767288.82	425023.44	39°39'52.9699"N	80°12'53.1348"W	1107.17	45.551	4.79	2.78	3.91
9132.00	91.170	323.930	8119.31	302.52	850.20	731.96	1767230.41	425098.31	39°39'53.7053"N	80°12'53.8893"W	1121.87	40.726	3.98	0.23	3.98
9227.00	91.910	326.690	8116.76	397.46	926.28	677.91	1767176.37	425176.38	39°39'54.4726"N	80°12'54.5883"W	1149.46	36.140	3.01	0.79	2.91
9333.00	90.740	324.550	8114.31	503.42	1015.73	618.08	1767116.54	425263.83	39°39'55.3322"N	80°12'55.3624"W	1189.00	31.321	2.30	-1.10	-2.02
9427.00	90.280	326.570	8113.47	597.40	1093.25	564.92	1767063.39	425341.34	39°39'56.0940"N	80°12'56.0500"W	1230.58	27.327	2.20	-0.49	2.15
9522.00	90.030	325.780	8113.21	692.40	1172.16	512.04	1767010.51	425420.25	39°39'56.8698"N	80°12'56.7342"W	1279.12	23.597	0.87	-0.26	-0.83
9617.00	90.890	326.790	8112.45	787.39	1251.18	459.31	1766957.78	425499.27	39°39'57.6465"N	80°12'57.4165"W	1332.83	20.158	1.40	0.91	1.06
9712.00	91.110	326.950	8110.79	882.38	1330.73	407.40	1766905.87	425578.81	39°39'58.4286"N	80°12'58.0884"W	1391.69	17.022	0.29	0.23	0.17
9807.00	91.260	326.440	8108.83	977.35	1410.11	355.25	1766853.73	425658.18	39°39'59.2089"N	80°12'58.7634"W	1454.17	14.140	0.56	0.16	-0.54
9902.00	91.110	326.410	8106.86	1072.33	1489.24	302.72	1766801.20	425737.31	39°39'59.9868"N	80°12'59.4431"W	1519.70	11.490	0.16	-0.16	-0.03
9997.00	91.360	327.090	8104.82	1167.31	1568.67	250.64	1766749.13	425816.73	39°40'0.7677"N	80°13'0.1171"W	1588.57	9.078	0.76	0.26	0.72
10092.00	90.740	326.630	8103.07	1262.29	1648.20	198.72	1766697.21	425896.26	39°40'1.5496"N	80°13'0.7893"W	1660.14	6.875	0.81	-0.65	-0.48
10187.00	91.760	326.990	8101.00	1357.26	1727.68	146.73	1766645.22	425975.74	39°40'2.3310"N	80°13'1.4622"W	1733.90	4.854	1.14	1.07	0.38
10283.00	92.060	326.830	8097.80	1453.20	1808.07	94.34	1766592.84	426056.12	39°40'3.1212"N	80°13'2.1403"W	1810.53	2.987	0.35	0.31	-0.17
10378.00	91.720	326.970	8094.67	1548.15	1887.61	42.49	1766540.99	426135.65	39°40'3.9032"N	80°13'2.8114"W	1888.09	1.290	0.39	-0.36	0.15
10473.00	91.630	326.530	8091.89	1643.10	1967.02	-9.57	1766488.93	426215.06	39°40'4.6839"N	80°13'3.4853"W	1967.04	359.721	0.47	-0.09	-0.46
10568.00	91.820	327.040	8089.03	1738.06	2046.46	-61.59	1766436.92	426294.50	39°40'5.4649"N	80°13'4.1586"W	2047.39	358.276	0.57	0.20	0.54
10663.00	91.720	326.650	8086.10	1833.01	2125.96	-113.52	1766384.99	426373.99	39°40'6.2464"N	80°13'4.8308"W	2128.99	356.944	0.42	-0.11	-0.41
10757.00	91.750	326.260	8083.25	1926.97	2204.27	-165.44	1766333.07	426452.29	39°40'7.0162"N	80°13'5.5027"W	2210.47	355.708	0.42	0.03	-0.41
10852.00	91.820	327.190	8080.29	2021.92	2283.65	-217.54	1766280.98	426531.67	39°40'7.7966"N	80°13'6.1770"W	2293.99	354.559	0.98	0.07	0.98
10948.00	92.190	326.830	8076.93	2117.85	2364.12	-269.77	1766228.74	426612.14	39°40'8.5877"N	80°13'6.8533"W	2379.47	353.490	0.54	0.39	-0.38
11042.00	91.290	326.650	8074.08	2211.81	2442.69	-321.30	1766177.22	426690.70	39°40'9.3601"N	80°13'7.5202"W	2463.73	352.507	0.98	-0.96	-0.19
11137.00	91.020	326.370	8072.17	2306.79	2521.90	-373.71	1766124.81	426769.91	39°40'10.1388"N	80°13'8.1986"W	2549.44	351.571	0.41	-0.28	-0.29
11233.00	90.650	327.290	8070.77	2402.77	2602.25	-426.23	1766072.30	426850.25	39°40'10.9287"N	80°13'8.8784"W	2636.92	350.698	1.03	-0.39	0.96
11328.00	90.550	326.260	8069.77	2497.76	2681.71	-478.28	1766020.25	426929.71	39°40'11.7099"N	80°13'9.5521"W	2724.03	349.888	1.09	-0.11	-1.08
11423.00	91.260	326.590	8068.27	2592.75	2760.85	-530.81	1765967.72	427008.84	39°40'12.4878"N	80°13'10.2320"W	2811.42	349.117	0.82	0.75	0.35



# Actual Wellpath Report

Burner 5H AWP Proj: 26859'

Page 6 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 5H
Field	Monongalia	API/Legal	
Facility	Bunner Pad	Wellbore	Burner 5H AWB
Slot	Slot 5H		

## WELLPATH DATA (283 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]
11518.00	90.680	327.360	8066.66	2687.73	2840.49	-582.58	1765915.96	427088.48	39°40'13.2707"N	80°13'10.9021"W	2899.62	348.410	1.01	-0.61	0.81
11614.00	90.370	326.980	8065.78	2783.72	2921.16	-634.62	1765863.92	427169.14	39°40'14.0638"N	80°13'11.5759"W	2989.30	347.743	0.51	-0.32	-0.40
11709.00	89.880	325.460	8065.58	2878.71	3000.11	-687.44	1765811.10	427248.09	39°40'14.8399"N	80°13'12.2595"W	3077.87	347.094	1.68	-0.52	-1.60
11804.00	90.180	327.720	8065.53	2973.71	3079.41	-739.75	1765758.80	427327.38	39°40'15.6194"N	80°13'12.9365"W	3167.02	346.492	2.40	0.32	2.38
11898.00	90.490	327.000	8064.98	3067.69	3158.56	-790.45	1765708.10	427406.53	39°40'16.3976"N	80°13'13.5929"W	3255.97	345.950	0.83	0.33	-0.77
11997.00	89.420	327.050	8065.05	3166.68	3241.61	-844.33	1765654.22	427489.58	39°40'17.2141"N	80°13'14.2905"W	3349.77	345.401	1.08	-1.08	0.05
12092.00	89.410	326.930	8066.02	3261.67	3321.27	-896.08	1765602.48	427569.23	39°40'17.9973"N	80°13'14.9605"W	3440.03	344.901	0.13	-0.01	-0.13
12188.00	89.940	327.010	8066.57	3357.66	3401.76	-948.41	1765550.15	427649.71	39°40'18.7885"N	80°13'15.6379"W	3531.49	344.422	0.56	0.55	0.08
12283.00	88.860	326.710	8067.56	3452.65	3481.30	-1000.34	1765498.22	427729.25	39°40'19.5705"N	80°13'16.3102"W	3622.17	343.968	1.18	-1.14	-0.32
12378.00	88.950	327.110	8069.38	3547.63	3560.88	-1052.19	1765446.37	427808.82	39°40'20.3528"N	80°13'16.9815"W	3713.08	343.538	0.43	0.09	0.42
12473.00	91.510	326.650	8069.00	3642.62	3640.43	-1104.10	1765394.47	427888.37	39°40'21.1349"N	80°13'17.6534"W	3804.18	343.128	2.74	2.69	-0.48
12569.00	91.570	326.810	8066.42	3738.58	3720.67	-1156.74	1765341.83	427968.60	39°40'21.9236"N	80°13'18.3349"W	3896.34	342.730	0.18	0.06	0.17
12664.00	91.630	326.600	8063.77	3833.54	3800.05	-1208.87	1765289.70	428047.97	39°40'22.7039"N	80°13'19.0097"W	3987.70	342.353	0.23	0.06	-0.22
12759.00	91.790	326.930	8060.93	3928.50	3879.47	-1260.91	1765237.66	428127.39	39°40'23.4847"N	80°13'19.6834"W	4079.24	341.995	0.39	0.17	0.35
12854.00	91.290	326.650	8058.38	4023.46	3958.93	-1312.93	1765185.65	428206.84	39°40'24.2658"N	80°13'20.3568"W	4170.96	341.653	0.60	-0.53	-0.29
12950.00	89.820	326.390	8057.45	4119.45	4038.99	-1365.88	1765132.70	428286.90	39°40'25.0529"N	80°13'21.0422"W	4263.69	341.316	1.56	-1.53	-0.27
13045.00	89.940	328.190	8057.65	4214.44	4118.92	-1417.22	1765081.37	428366.83	39°40'25.8387"N	80°13'21.7069"W	4355.92	341.013	1.90	0.13	1.89
13141.00	88.950	326.980	8058.58	4310.41	4199.96	-1468.67	1765029.92	428447.86	39°40'26.6354"N	80°13'22.3733"W	4449.34	340.726	1.63	-1.03	-1.26
13236.00	89.290	327.040	8060.04	4405.39	4279.63	-1520.39	1764978.20	428527.53	39°40'27.4187"N	80°13'23.0430"W	4541.68	340.442	0.36	0.36	0.06
13331.00	90.150	326.010	8060.50	4500.39	4358.87	-1572.79	1764925.80	428606.76	39°40'28.1976"N	80°13'23.7212"W	4633.94	340.159	1.41	0.91	-1.08
13426.00	89.570	326.980	8060.73	4595.39	4438.08	-1625.23	1764873.37	428685.97	39°40'28.9763"N	80°13'24.4000"W	4726.31	339.887	1.19	-0.61	1.02
13522.00	87.840	324.920	8062.90	4691.35	4517.60	-1678.96	1764819.64	428765.48	39°40'29.7578"N	80°13'25.0954"W	4819.50	339.612	2.80	-1.80	-2.15
13617.00	88.800	326.630	8065.69	4786.30	4596.11	-1732.37	1764766.23	428843.99	39°40'30.5294"N	80°13'25.7865"W	4911.75	339.348	2.06	1.01	1.80
13712.00	89.570	327.040	8067.04	4881.29	4675.62	-1784.33	1764714.27	428923.50	39°40'31.3111"N	80°13'26.4592"W	5004.53	339.112	0.92	0.81	0.43
13807.00	90.030	327.140	8067.37	4976.28	4755.38	-1835.95	1764662.66	429003.25	39°40'32.0952"N	80°13'27.1276"W	5097.48	338.889	0.50	0.48	0.11
13902.00	90.490	327.500	8066.94	5071.26	4835.34	-1887.24	1764611.37	429083.20	39°40'32.8813"N	80°13'27.7918"W	5190.59	338.679	0.61	0.48	0.38
13998.00	90.220	326.910	8066.34	5167.25	4916.04	-1939.24	1764559.38	429163.90	39°40'33.6747"N	80°13'28.4651"W	5284.70	338.472	0.68	-0.28	-0.61
14093.00	90.280	326.160	8065.93	5262.25	4995.29	-1991.62	1764507.00	429243.14	39°40'34.4537"N	80°13'29.1432"W	5377.68	338.263	0.79	0.06	-0.79
14188.00	90.060	327.260	8065.65	5357.24	5074.70	-2043.77	1764454.86	429322.55	39°40'35.2343"N	80°13'29.8183"W	5470.79	338.064	1.18	-0.23	1.16
14283.00	90.490	327.280	8065.19	5452.23	5154.61	-2095.13	1764403.50	429402.46	39°40'36.0200"N	80°13'30.4834"W	5564.13	337.880	0.45	0.45	0.02



# Actual Wellpath Report

Burner 5H AWP Proj: 26859'  
Page 7 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 5H
Field	Monongalia	API/Legal	
Facility	Bunner Pad	Wellbore	Burner 5H AWB
Slot	Slot 5H		

WELLPATH DATA (283 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]
14379.00	89.290	326.950	8065.38	5548.22	5235.23	-2147.25	1764351.38	429483.07	39°40'36.8125"N	80°13'31.1583"W	5658.47	337.699	1.30	-1.25	-0.34
14474.00	89.910	327.310	8066.04	5643.21	5315.01	-2198.81	1764299.82	429562.85	39°40'37.5969"N	80°13'31.8260"W	5751.88	337.525	0.75	0.65	0.38
14569.00	90.090	327.130	8066.04	5738.20	5394.89	-2250.25	1764248.39	429642.72	39°40'38.3821"N	80°13'32.4920"W	5845.37	337.359	0.27	0.19	-0.19
14665.00	90.150	325.880	8065.84	5834.20	5474.94	-2303.22	1764195.42	429722.77	39°40'39.1690"N	80°13'33.1778"W	5939.68	337.184	1.30	0.06	-1.30
14760.00	90.310	326.150	8065.46	5929.19	5553.71	-2356.33	1764142.32	429801.53	39°40'39.9433"N	80°13'33.8651"W	6032.91	337.009	0.33	0.17	0.28
14855.00	90.680	326.490	8064.64	6024.19	5632.76	-2409.01	1764089.64	429880.58	39°40'40.7203"N	80°13'34.5470"W	6126.28	336.845	0.53	0.39	0.36
14950.00	90.150	325.320	8063.95	6119.18	5711.43	-2462.26	1764036.39	429959.24	39°40'41.4934"N	80°13'35.2362"W	6219.58	336.679	1.35	-0.56	-1.23
15046.00	90.740	326.140	8063.20	6215.17	5790.76	-2516.31	1763982.34	430038.57	39°40'42.2731"N	80°13'35.9358"W	6313.85	336.513	1.05	0.61	0.85
15141.00	90.340	326.190	8062.31	6310.17	5869.67	-2569.21	1763929.45	430117.47	39°40'43.0487"N	80°13'36.6204"W	6407.33	336.361	0.42	-0.42	0.05
15236.00	90.150	325.270	8061.90	6405.16	5948.18	-2622.70	1763875.96	430196.97	39°40'43.8203"N	80°13'37.3127"W	6500.72	336.206	0.99	-0.20	-0.97
15331.00	90.860	326.250	8061.06	6500.15	6026.71	-2676.15	1763822.51	430274.50	39°40'44.5921"N	80°13'38.0044"W	6594.16	336.056	1.27	0.75	1.03
15427.00	90.580	325.980	8059.86	6596.14	6106.39	-2729.67	1763769.00	430354.18	39°40'45.3753"N	80°13'38.6971"W	6688.73	335.915	0.41	-0.29	-0.28
15522.00	91.350	326.330	8058.26	6691.13	6185.28	-2782.57	1763716.10	430433.07	39°40'46.1507"N	80°13'39.3819"W	6782.36	335.778	0.89	0.81	0.37
15616.00	91.200	325.490	8056.17	6785.10	6263.11	-2835.24	1763663.43	430510.89	39°40'46.9156"N	80°13'40.0636"W	6874.97	335.644	0.91	-0.16	-0.89
15711.00	91.570	325.910	8053.87	6880.06	6341.57	-2888.76	1763609.92	430589.34	39°40'47.6867"N	80°13'40.7562"W	6968.53	335.509	0.59	0.39	0.44
15807.00	90.400	325.330	8052.22	6976.04	6420.78	-2942.96	1763555.72	430668.55	39°40'48.4652"N	80°13'41.4577"W	7083.11	335.376	1.36	-1.22	-0.60
15902.00	90.980	325.040	8051.07	7071.01	6498.77	-2997.20	1763501.49	430746.54	39°40'49.2316"N	80°13'42.1594"W	7156.62	335.241	0.68	0.51	-0.31
15996.00	90.800	325.960	8049.61	7164.99	6576.23	-3050.43	1763448.26	430823.99	39°40'49.9928"N	80°13'42.8483"W	7249.27	335.115	1.00	-0.19	0.98
16091.00	91.450	326.430	8047.75	7259.97	6655.15	-3103.27	1763395.41	430902.91	39°40'50.7685"N	80°13'43.5323"W	7343.12	335.001	0.84	0.68	0.49
16186.00	91.750	326.210	8045.10	7354.93	6734.18	-3155.94	1763342.76	430981.93	39°40'51.5452"N	80°13'44.2141"W	7437.01	334.890	0.39	0.32	-0.23
16281.00	91.140	327.020	8042.70	7449.90	6813.47	-3208.19	1763290.50	431061.22	39°40'52.3247"N	80°13'44.8907"W	7531.00	334.786	1.07	-0.64	0.85
16376.00	91.450	326.240	8040.55	7544.87	6892.79	-3260.43	1763238.26	431140.53	39°40'53.1044"N	80°13'45.5671"W	7625.03	334.685	0.88	0.33	-0.82
16469.00	90.340	325.310	8039.10	7637.85	6969.68	-3312.73	1763185.97	431217.41	39°40'53.8600"N	80°13'46.2440"W	7716.90	334.578	1.56	-1.19	-1.00
16564.00	91.050	326.140	8037.95	7732.84	7048.17	-3366.23	1763132.48	431295.90	39°40'54.6314"N	80°13'46.9363"W	7810.78	334.471	1.15	0.75	0.87
16658.00	90.430	325.920	8036.74	7826.83	7126.12	-3418.75	1763079.96	431373.65	39°40'55.3976"N	80°13'47.6161"W	7903.76	334.371	0.70	-0.66	-0.23
16753.00	90.920	325.910	8035.62	7921.82	7204.80	-3471.99	1763026.73	431452.52	39°40'56.1708"N	80°13'48.3052"W	7997.73	334.271	0.52	0.52	-0.01
16848.00	89.970	325.580	8034.88	8016.81	7283.31	-3525.46	1762973.26	431531.03	39°40'56.9424"N	80°13'48.9973"W	8091.69	334.171	1.06	-1.00	-0.35
16943.00	90.490	325.300	8034.50	8111.80	7361.55	-3579.35	1762919.37	431609.26	39°40'57.7113"N	80°13'49.6947"W	8185.60	334.070	0.62	0.55	-0.26
17038.00	90.620	325.480	8033.58	8206.78	7439.73	-3633.30	1762865.42	431687.44	39°40'58.4796"N	80°13'50.3929"W	8279.52	333.971	0.23	0.14	0.19
17132.00	91.020	326.100	8032.23	8300.76	7517.46	-3686.15	1762812.58	431765.16	39°40'59.2435"N	80°13'51.0769"W	8372.57	333.879	0.78	0.43	0.66





# Actual Wellpath Report

Burner 5H AWP Proj: 26859'

Page 8 of 13



REFERENCE WELLPATH IDENTIFICATION				
Operator	NORTHEAST NATURAL ENERGY, LLC		Well	Burner 5H
Field	Monongalia		API/Legal	
Facility	Burner Pad		Wellbore	Burner 5H AWB
Slot	Slot 5H			

## WELLPATH DATA (283 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]
17227.00	90.860	326.350	8030.67	8395.75	7596.42	-3738.95	1762759.78	431844.11	39°41'0.0195"N	80°13'51.7605"W	8466.72	333.794	0.31	-0.17	0.26
17321.00	90.950	326.340	8029.19	8489.74	7674.65	-3791.04	1762707.69	431922.34	39°41'0.7885"N	80°13'52.4349"W	8559.92	333.712	0.10	0.10	-0.01
17416.00	90.120	324.920	8028.30	8584.72	7753.06	-3844.67	1762654.07	432000.75	39°41'1.5591"N	80°13'53.1290"W	8653.98	333.624	1.73	-0.87	-1.49
17510.00	90.830	325.890	8027.52	8678.70	7830.43	-3898.03	1762600.70	432078.12	39°41'2.3194"N	80°13'53.8196"W	8747.02	333.536	1.28	0.76	1.03
17604.00	90.770	326.440	8026.21	8772.69	7908.51	-3950.37	1762548.37	432156.18	39°41'3.0868"N	80°13'54.4971"W	8840.24	333.457	0.59	-0.06	0.59
17699.00	90.800	326.020	8024.91	8867.69	7987.47	-4003.17	1762495.57	432235.14	39°41'3.8629"N	80°13'55.1807"W	8934.49	333.381	0.44	0.03	-0.44
17793.00	90.650	325.790	8023.72	8961.67	8065.31	-4055.86	1762442.89	432312.97	39°41'4.6279"N	80°13'55.8627"W	9027.69	333.303	0.29	-0.16	-0.24
17888.00	90.650	326.020	8022.64	9056.67	8143.97	-4109.11	1762389.64	432391.64	39°41'5.4010"N	80°13'56.5520"W	9121.90	333.226	0.24	0.00	0.24
17982.00	90.090	325.380	8022.03	9150.66	8221.62	-4162.08	1762336.67	432469.28	39°41'6.1641"N	80°13'57.2377"W	9215.10	333.150	0.90	-0.60	-0.68
18077.00	89.260	325.250	8022.57	9245.64	8299.74	-4216.14	1762282.62	432547.39	39°41'6.9317"N	80°13'57.9373"W	9309.22	333.070	0.88	-0.87	-0.14
18170.00	91.140	326.920	8022.25	9338.63	8376.91	-4268.03	1762230.74	432624.56	39°41'7.6902"N	80°13'58.6090"W	9401.52	333.001	2.70	2.02	1.80
18265.00	91.290	326.930	8020.23	9433.60	8456.50	-4319.86	1762178.91	432704.14	39°41'8.4725"N	80°13'59.2803"W	9495.97	332.941	0.16	0.16	0.01
18360.00	89.600	325.410	8019.50	9528.59	8535.41	-4372.74	1762126.02	432783.04	39°41'9.2481"N	80°13'59.9649"W	9590.31	332.874	2.39	-1.78	-1.60
18455.00	90.430	326.840	8019.47	9623.59	8614.28	-4425.69	1762073.08	432861.91	39°41'10.0233"N	80°14'0.6504"W	9684.65	332.808	1.74	0.87	1.51
18550.00	89.480	327.300	8019.55	9718.58	8694.01	-4477.34	1762021.44	432941.64	39°41'10.8071"N	80°14'1.3193"W	9779.18	332.752	1.11	-1.00	0.48
18645.00	89.540	327.250	8020.36	9813.56	8773.93	-4528.69	1761970.09	433021.56	39°41'11.5927"N	80°14'1.9846"W	9873.75	332.699	0.08	0.06	-0.05
18740.00	89.880	327.220	8020.84	9908.55	8853.82	-4580.10	1761918.68	433101.44	39°41'12.3780"N	80°14'2.6505"W	9968.32	332.647	0.36	0.36	-0.03
18834.00	89.780	326.670	8021.12	10002.55	8932.60	-4631.38	1761867.41	433180.22	39°41'13.1525"N	80°14'3.3146"W	10061.86	332.594	0.59	-0.11	-0.59
18928.00	89.230	326.770	8021.93	10096.54	9011.18	-4682.95	1761815.83	433258.79	39°41'13.9249"N	80°14'3.9825"W	10155.37	332.540	0.59	-0.59	0.11
19023.00	89.780	326.900	8022.75	10191.53	9090.70	-4734.92	1761763.87	433338.31	39°41'14.7066"N	80°14'4.6556"W	10249.90	332.487	0.59	0.58	0.14
19118.00	90.060	326.570	8022.88	10286.53	9170.14	-4787.03	1761711.76	433417.74	39°41'15.4874"N	80°14'5.3304"W	10344.42	332.434	0.46	0.29	-0.35
19213.00	89.600	326.850	8023.16	10381.53	9249.55	-4839.17	1761659.62	433497.14	39°41'16.2679"N	80°14'6.0057"W	10438.95	332.382	0.57	-0.48	0.29
19306.00	90.250	326.770	8023.29	10474.53	9327.37	-4890.08	1761608.72	433574.96	39°41'17.0329"N	80°14'6.6650"W	10531.51	332.333	0.70	0.70	-0.09
19401.00	90.250	327.260	8022.87	10569.52	9407.06	-4941.80	1761557.00	433654.65	39°41'17.8162"N	80°14'7.3349"W	10626.11	332.286	0.52	0.00	0.52
19495.00	89.750	326.670	8022.87	10663.51	9485.86	-4993.05	1761505.76	433733.44	39°41'18.5909"N	80°14'7.9986"W	10719.71	332.239	0.82	-0.53	-0.63
19590.00	89.780	326.440	8023.26	10758.51	9565.13	-5045.40	1761453.41	433812.71	39°41'19.3700"N	80°14'8.6767"W	10814.24	332.189	0.24	0.03	-0.24
19685.00	90.060	327.040	8023.39	10853.51	9644.57	-5097.50	1761401.31	433892.14	39°41'20.1508"N	80°14'9.3514"W	10908.82	332.142	0.70	0.29	0.63
19780.00	89.780	327.010	8023.53	10948.50	9724.27	-5149.21	1761349.60	433971.83	39°41'20.9343"N	80°14'10.0212"W	11003.44	332.098	0.30	-0.29	-0.03
19875.00	89.820	327.000	8023.86	11043.50	9803.94	-5200.94	1761297.87	434051.50	39°41'21.7175"N	80°14'10.6913"W	11098.07	332.054	0.04	0.04	-0.01
19971.00	89.720	327.100	8024.24	11139.49	9884.50	-5253.16	1761245.66	434132.06	39°41'22.5094"N	80°14'11.3676"W	11193.70	332.011	0.15	-0.10	0.10



# Actual Wellpath Report

Burner 5H AWP Proj: 26859'

Page 9 of 13



## REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Burner 5H
Field	Monongalia	API/Legal	
Facility	Burner Pad	Wellbore	Burner 5H AWP
Slot	Slot 5H		

## WELLPATH DATA (283 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]
20066.00	90.250	327.400	8024.27	11234.48	9964.40	-5304.55	1761194.27	434211.95	39°41'23.2948"N	80°14'12.0334"W	11288.38	331.971	0.64	0.56	0.32
20161.00	89.750	326.650	8024.27	11329.47	10044.09	-5356.26	1761142.57	434291.64	39°41'24.0782"N	80°14'12.7031"W	11383.03	331.930	0.95	-0.53	-0.79
20256.00	90.310	327.230	8024.22	11424.46	10123.71	-5408.08	1761090.75	434371.25	39°41'24.8608"N	80°14'13.3744"W	11477.67	331.889	0.85	0.59	0.61
20351.00	90.310	327.390	8023.71	11519.45	10203.66	-5459.39	1761039.45	434451.20	39°41'25.6468"N	80°14'14.0391"W	11572.37	331.851	0.17	0.00	0.17
20446.00	90.120	326.790	8023.35	11614.44	10283.42	-5511.00	1760987.83	434530.95	39°41'26.4308"N	80°14'14.7077"W	11667.04	331.813	0.66	-0.20	-0.63
20540.00	90.090	327.470	8023.18	11708.43	10362.37	-5562.02	1760936.82	434609.90	39°41'27.2069"N	80°14'15.3686"W	11760.73	331.775	0.72	-0.03	-0.72
20635.00	90.370	327.010	8022.80	11803.42	10442.26	-5613.43	1760885.42	434689.78	39°41'27.9922"N	80°14'16.0346"W	11855.43	331.739	0.57	0.29	-0.48
20730.00	90.060	329.140	8022.44	11898.37	10522.88	-5663.66	1760835.19	434770.40	39°41'28.7849"N	80°14'16.6856"W	11950.23	331.710	2.27	-0.33	2.24
20826.00	89.600	328.410	8022.72	11994.33	10604.09	-5714.84	1760784.00	434851.60	39°41'29.5832"N	80°14'17.3489"W	12046.00	331.679	2.88	-0.48	-2.84
20921.00	90.000	327.190	8023.06	12089.33	10683.58	-5766.86	1760731.99	434931.09	39°41'30.3646"N	80°14'18.0227"W	12140.66	331.640	0.92	0.42	0.82
21017.00	89.600	326.600	8023.39	12185.32	10763.99	-5819.29	1760679.56	435011.50	39°41'31.1550"N	80°14'18.7018"W	12236.33	331.603	0.74	-0.42	-0.61
21112.00	90.220	327.360	8023.54	12280.32	10843.65	-5871.06	1760627.80	435091.15	39°41'31.9380"N	80°14'19.3724"W	12331.02	331.568	1.03	0.65	0.80
21207.00	89.880	327.210	8023.46	12375.31	10923.58	-5922.41	1760576.46	435171.07	39°41'32.7237"N	80°14'20.0376"W	12425.76	331.535	0.39	-0.36	-0.16
21302.00	89.380	326.280	8024.07	12470.30	11003.02	-5974.50	1760524.37	435250.51	39°41'33.5046"N	80°14'20.7123"W	12520.42	331.499	1.11	-0.53	-0.98
21396.00	90.370	326.610	8024.28	12564.30	11081.35	-6026.46	1760472.41	435328.84	39°41'34.2745"N	80°14'21.3852"W	12614.06	331.461	1.11	1.05	0.35
21491.00	89.570	326.400	8024.32	12659.30	11160.57	-6078.88	1760419.99	435408.05	39°41'35.0531"N	80°14'22.0642"W	12708.71	331.424	0.87	-0.84	-0.22
21587.00	89.140	325.960	8025.41	12755.29	11240.33	-6132.31	1760366.56	435487.80	39°41'35.8369"N	80°14'22.7561"W	12804.30	331.385	0.64	-0.45	-0.46
21682.00	89.380	326.820	8026.63	12850.28	11319.44	-6184.89	1760313.99	435566.91	39°41'36.6145"N	80°14'23.4370"W	12898.93	331.348	0.94	0.25	0.91
21776.00	89.970	326.670	8027.17	12944.28	11398.04	-6236.44	1760262.44	435645.50	39°41'37.3871"N	80°14'24.1047"W	12992.63	331.315	0.65	0.63	-0.16
21871.00	89.290	326.250	8027.78	13039.27	11477.22	-6288.93	1760209.96	435724.68	39°41'38.1653"N	80°14'24.7845"W	13087.29	331.280	0.84	-0.72	-0.44
21967.00	89.380	326.250	8028.89	13135.27	11557.04	-6342.26	1760156.63	435804.49	39°41'38.9497"N	80°14'25.4751"W	13182.92	331.243	0.09	0.09	0.00
22062.00	89.480	326.700	8029.84	13230.26	11636.23	-6394.72	1760104.17	435883.68	39°41'39.7281"N	80°14'26.1546"W	13277.59	331.209	0.49	0.11	0.47
22157.00	90.890	327.960	8029.53	13325.24	11716.20	-6446.00	1760052.89	435963.64	39°41'40.5142"N	80°14'26.8190"W	13372.37	331.181	1.99	1.48	1.33
22252.00	89.480	325.850	8029.22	13420.23	11795.78	-6497.87	1760001.03	436043.22	39°41'41.2964"N	80°14'27.4909"W	13467.09	331.151	2.67	-1.48	-2.22
22347.00	89.630	326.300	8029.96	13515.23	11874.60	-6550.89	1759948.01	436122.04	39°41'42.0711"N	80°14'28.1775"W	13561.72	331.116	0.50	0.16	0.47
22442.00	89.110	327.040	8031.01	13610.22	11953.97	-6603.08	1759895.82	436201.40	39°41'42.8512"N	80°14'28.8536"W	13656.43	331.085	0.95	-0.55	0.78
22537.00	88.550	326.300	8032.95	13705.20	12033.33	-6655.27	1759843.64	436280.75	39°41'43.6312"N	80°14'29.5296"W	13751.13	331.054	0.98	-0.59	-0.78
22632.00	87.970	326.530	8035.83	13800.15	12112.43	-6707.80	1759791.11	436359.85	39°41'44.4086"N	80°14'30.2099"W	13845.78	331.023	0.66	-0.61	0.24
22728.00	89.200	327.140	8038.20	13896.12	12192.77	-6760.30	1759738.62	436440.18	39°41'45.1983"N	80°14'30.8900"W	13941.49	330.994	1.43	1.28	0.64
22822.00	87.320	326.300	8041.06	13990.07	12271.31	-6811.85	1759687.07	436518.72	39°41'45.9703"N	80°14'31.5578"W	14035.18	330.965	2.19	-2.00	-0.89



# Actual Wellpath Report

Burner 5H AWP Proj: 26859'

Page 10 of 13



## REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Burner 5H
Field	Monongalia	API/Legal	
Facility	Burner Pad	Wellbore	Burner 5H AWP
Slot	Slot 5H		

## WELLPATH DATA (283 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]
22917.00	87.940	326.380	8044.98	14084.99	12350.31	-6864.46	1759634.46	436597.72	39°41'46.7467"N	80°14'32.2391"W	14129.79	330.934	0.66	0.65	0.08
23012.00	88.920	326.850	8047.59	14179.95	12429.61	-6916.71	1759582.21	436677.01	39°41'47.5261"N	80°14'32.9160"W	14224.49	330.905	1.14	1.03	0.49
23107.00	88.830	326.850	8049.45	14274.93	12509.13	-6968.65	1759530.27	436756.53	39°41'48.3077"N	80°14'33.5888"W	14319.23	330.878	0.09	-0.09	0.00
23202.00	88.000	326.910	8052.08	14369.89	12588.66	-7020.54	1759478.39	436836.06	39°41'49.0895"N	80°14'34.2610"W	14413.97	330.852	0.88	-0.87	0.06
23298.00	87.870	326.180	8055.54	14465.82	12668.71	-7073.43	1759425.50	436916.09	39°41'49.8762"N	80°14'34.9461"W	14509.64	330.824	0.77	-0.14	-0.76
23392.00	87.970	327.090	8058.95	14559.76	12747.16	-7125.09	1759373.84	436994.54	39°41'50.6473"N	80°14'35.6153"W	14603.32	330.797	0.97	0.11	0.97
23487.00	89.570	327.090	8060.99	14654.73	12826.90	-7176.69	1759322.24	437074.27	39°41'51.4310"N	80°14'36.2839"W	14698.10	330.773	1.68	1.68	0.00
23582.00	90.120	326.880	8061.25	14749.72	12906.55	-7228.45	1759270.49	437153.93	39°41'52.2140"N	80°14'36.9545"W	14792.89	330.749	0.62	0.58	-0.22
23678.00	88.680	327.090	8062.25	14845.71	12987.05	-7280.76	1759218.19	437234.41	39°41'53.0052"N	80°14'37.6321"W	14888.68	330.724	1.52	-1.50	0.22
23773.00	88.680	326.760	8064.44	14940.68	13068.63	-7332.59	1759166.36	437313.99	39°41'53.7875"N	80°14'38.3036"W	14983.45	330.700	0.35	0.00	-0.35
23868.00	89.020	327.630	8066.35	15035.65	13146.46	-7384.05	1759114.90	437393.82	39°41'54.5722"N	80°14'38.9704"W	15078.25	330.678	0.98	0.36	0.92
23963.00	88.400	327.250	8068.49	15130.61	13226.51	-7435.16	1759063.79	437473.86	39°41'55.3591"N	80°14'39.6328"W	15173.08	330.658	0.77	-0.65	-0.40
24059.00	87.540	326.250	8071.89	15226.54	13306.74	-7487.76	1759011.20	437554.09	39°41'56.1477"N	80°14'40.3143"W	15268.79	330.633	1.37	-0.90	-1.04
24154.00	89.260	326.980	8074.54	15321.50	13386.03	-7540.01	1758958.95	437633.38	39°41'56.9270"N	80°14'40.9911"W	15363.52	330.609	1.97	1.81	0.77
24248.00	89.140	327.500	8075.85	15415.48	13465.07	-7590.87	1758908.09	437712.41	39°41'57.7039"N	80°14'41.6502"W	15457.35	330.588	0.57	-0.13	0.55
24343.00	89.020	327.210	8077.38	15510.45	13545.06	-7642.11	1758856.85	437792.39	39°41'58.4901"N	80°14'42.3142"W	15552.18	330.568	0.33	-0.13	-0.31
24438.00	89.540	326.220	8078.57	15605.44	13624.46	-7694.24	1758804.72	437871.79	39°41'59.2706"N	80°14'42.9895"W	15646.96	330.545	1.18	0.55	-1.04
24533.00	89.200	326.550	8079.62	15700.44	13703.57	-7746.83	1758752.14	437950.90	39°42'0.0481"N	80°14'43.6707"W	15741.71	330.520	0.50	-0.36	0.35
24628.00	89.050	325.730	8081.07	15795.42	13782.45	-7799.76	1758699.22	438029.77	39°42'0.8233"N	80°14'44.3562"W	15836.42	330.494	0.88	-0.16	-0.86
24724.00	88.590	326.840	8083.04	15891.40	13862.29	-7853.03	1758645.95	438109.60	39°42'1.6079"N	80°14'45.0462"W	15932.14	330.468	1.25	-0.48	1.16
24820.00	87.320	325.770	8086.47	15987.34	13942.11	-7906.25	1758592.73	438189.41	39°42'2.3923"N	80°14'45.7356"W	16027.82	330.443	1.73	-1.32	-1.11
24915.00	87.510	325.670	8090.75	16082.23	14020.52	-7959.71	1758539.28	438267.83	39°42'3.1629"N	80°14'46.4278"W	16122.41	330.416	0.23	0.20	-0.11
25010.00	87.540	326.150	8094.86	16177.14	14099.12	-8012.90	1758486.08	438346.42	39°42'3.9353"N	80°14'47.1167"W	16217.03	330.389	0.51	0.03	0.51
25106.00	87.510	325.970	8099.00	16273.05	14178.69	-8066.45	1758432.54	438425.99	39°42'4.7172"N	80°14'47.8103"W	16312.67	330.364	0.19	-0.03	-0.19
25201.00	87.320	325.780	8103.29	16367.95	14257.26	-8119.69	1758379.30	438504.55	39°42'5.4893"N	80°14'48.4998"W	16407.28	330.338	0.28	-0.20	-0.20
25296.00	87.320	325.660	8107.73	16462.84	14335.67	-8173.14	1758325.86	438582.95	39°42'6.2598"N	80°14'49.1919"W	16501.87	330.311	0.13	0.00	-0.13
25392.00	87.050	326.340	8112.44	16558.72	14415.16	-8226.76	1758272.24	438662.44	39°42'7.0409"N	80°14'49.8863"W	16597.48	330.287	0.76	-0.28	0.71
25487.00	87.290	325.880	8117.13	16653.60	14493.92	-8279.67	1758219.34	438741.20	39°42'7.8150"N	80°14'50.5716"W	16692.12	330.263	0.55	0.25	-0.48
25582.00	86.800	325.500	8122.03	16748.47	14572.29	-8333.15	1758165.86	438819.56	39°42'8.5850"N	80°14'51.2641"W	16786.69	330.237	0.65	-0.52	-0.40
25677.00	86.520	325.750	8127.57	16843.30	14650.56	-8386.69	1758112.32	438897.83	39°42'9.3542"N	80°14'51.9575"W	16881.22	330.211	0.38	-0.29	0.26

REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 5H
Field	Monongalia	API/Legal	
Facility	Bunner Pad	Wellbore	Burner 5H AWB
Slot	Slot 5H		

WELLPATH DATA (283 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]
25770.00	85.960	325.720	8133.67	16936.09	14727.26	-8438.94	1758060.08	438974.52	39°42'10.1078"N	80°14'52.6341"W	16973.74	330.187	0.60	-0.60	-0.03
25865.00	86.310	326.160	8140.07	17030.88	14805.78	-8492.02	1758006.99	439053.04	39°42'10.8794"N	80°14'53.3217"W	17068.26	330.163	0.59	0.37	0.46
25960.00	88.550	326.060	8144.33	17125.77	14884.56	-8544.94	1757954.08	439131.81	39°42'11.6536"N	80°14'54.0071"W	17162.93	330.141	2.36	2.36	-0.11
26055.00	88.740	326.750	8146.57	17220.75	14963.67	-8597.49	1757901.53	439210.91	39°42'12.4310"N	80°14'54.6878"W	17257.70	330.120	0.75	0.20	0.73
26149.00	88.090	324.610	8149.17	17314.70	15041.27	-8650.46	1757848.56	439288.51	39°42'13.1936"N	80°14'55.3739"W	17351.38	330.096	2.38	-0.69	-2.28
26245.00	89.850	326.040	8150.90	17410.66	15120.20	-8705.07	1757793.96	439367.44	39°42'13.9691"N	80°14'56.0809"W	17447.02	330.070	2.36	1.83	1.49
26340.00	90.920	326.570	8150.26	17505.66	15199.24	-8757.77	1757741.27	439446.47	39°42'14.7459"N	80°14'56.7636"W	17541.82	330.050	1.26	1.13	0.56
26435.00	91.970	325.650	8147.87	17600.62	15278.07	-8810.72	1757688.31	439525.30	39°42'15.5206"N	80°14'57.4495"W	17636.56	330.028	1.47	1.11	-0.97
26530.00	92.030	325.590	8144.55	17695.56	15356.43	-8864.34	1757634.71	439603.65	39°42'16.2905"N	80°14'58.1438"W	17731.22	330.005	0.09	0.06	-0.06
26626.00	90.650	325.140	8142.31	17791.51	15435.39	-8918.88	1757580.16	439682.61	39°42'17.0664"N	80°14'58.8501"W	17826.88	329.980	1.51	-1.44	-0.47
26721.00	91.200	326.180	8140.77	17886.49	15513.82	-8972.46	1757526.59	439761.03	39°42'17.8370"N	80°14'59.5440"W	17921.60	329.957	1.24	0.58	1.09
26835.00	91.050	325.350	8138.53	18000.46	15608.05	-9036.58	1757462.47	439855.26	39°42'18.7629"N	80°15'0.3744"W	18035.27	329.930	0.74	-0.13	-0.73
26859.00‡	91.050	325.350	8138.09	18024.45	15627.79	-9050.23	1757448.83	439875.00	39°42'18.9569"N	80°15'0.5511"W	18059.19	329.924	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Burner 5H AWB Ref Wellpath: Burner 5H AWP Proj: 26859'									
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	1286.00	1258.00	28.00	1285.99	0.00	0.00	-1.76	1.70
13.375in Casing Surface	28.00	1256.00	1228.00	28.00	1256.00	0.00	0.00	-1.53	1.68
12.25in Open Hole	1286.00	2522.00	1236.00	1285.99	2521.62	-1.76	1.70	-29.38	-2.75
9.625in Casing Intermediate	28.00	2492.00	2464.00	28.00	2491.63	0.00	0.00	-28.94	-2.98
8.75in Open Hole	2522.00	7225.00	4703.00	2521.62	7003.43	-29.38	-2.75	-112.41	1349.39
8.5in Open Hole	7225.00	26859.00	19634.00	7003.43	8138.09	-112.41	1349.39	15627.79	-9050.23
5.5in Casing Production	28.00	26829.00	26801.00	28.00	8138.64	0.00	0.00	15603.11	-9033.18

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# Actual Wellpath Report

Burner 5H AWP Proj: 26859'

Page 12 of 13



## REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 5H
Field	Monongalia	API/Legal	
Facility	Bunner Pad	Wellbore	Bunner 5H AWB
Slot	Slot 5H		

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Bunner 5H BHL Rev-6	8070.00	15638.97	-9034.76	1757464.29	439886.18	39°42'19.0687"N	80°15'0.3544"W	point
Bunner 5H LP Rev-3	8070.00	560.62	993.39	1767491.83	424808.75	39°39'50.8641"N	80°12'50.5170"W	point
Bunner South Hardline #1 (4.1.21)	8600.00	-848.69	2883.24	1769381.56	423399.52	39°39'37.0841"N	80°12'26.2100"W	polygon
	2D Polygon: dimensions not calculated							
Bunner South Hardline #1 (8.15.2022)	9003.00	8640.03	-11878.48	1754620.75	432887.66	39°41'9.6655"N	80°15'35.9803"W	polygon
	2D Polygon: dimensions not calculated							

## WELLPATH COMPOSITION - Ref Wellbore: Burner 5H AWB Ref Wellpath: Burner 5H AWP Proj: 26859'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1200.00	BH Generic gyro - northseeking (Standard)	01 <17.5"> Javins Inertial Gyro [Northseeking] (100'-1200')	Bunner 5H AWB	10/24/2022
1200.00	2367.00	BH Generic gyro - northseeking (Standard)	02 <12.25"> Javins Inertial Gyro [Northseeking] (1200')(1300'-2367')	Bunner 5H AWB	10/24/2022
2367.00	7132.00	OWSG MWD rev2 + HRGM	03 <8.75">SDI MWD [OWSG MWD REV.2-HRGM] (2367')(2560'-7132')	Bunner 5H AWB	10/24/2022
7132.00	26859.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 <8.5"> BH ATK Curve [HRGM+Short Spacing] (7132')(7230'-26835')	Bunner 5H AWB	10/24/2022

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# Actual Wellpath Report

Burner 5H AWP Proj: 26859'

Page 13 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 5H
Field	Monongalia	API/Legal	
Facility	Bunner Pad	Wellbore	Burner 5H AWB
Slot	Slot 5H		

COMMENTS
<p><b>Wellpath general comments</b>            API: 47061019080000            BH Job #: 111543070            Rig: Patterson 277            Duration: 10/26/2022 - 11/01/2022</p> <p>01_&lt;17.5"&gt; Javins Inertial Gyro [Northseeking] (100'-1200')            02_&lt;12.25"&gt; Javins Inertial Gyro [Northseeking] (1200')(1300'-2367')            03_&lt;8.75"&gt;SDI MWD [OWSG MWD REV.2-HRGM] (2367')(2560'-7132')            04_&lt;8.5"&gt; BH ATK Curve [HRGM+Short Spacing] (7132')(7230'-26835')</p> <p>Final Survey MD @ 26835'            Projected MD at TD: 26859'</p>

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