





# Actual Wellpath Report

Bunner 11H awp Proj: 24876'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 11H
Field	Monongalia	API	47061019650000
Facility	Bunner Pad	Wellbore	Bunner 11H AWB
Slot	11H		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Tranlam
Scale	0.999941	Report Generated	6/10/2025 at 10:22:46 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	0.13	-42.99	1766415.51	424248.50	39°39'45.2422"N	80°13'4.2233"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 873 (KB) to Facility Vertical Datum	1305.50ft
Horizontal Reference Pt	Slot	Patterson 873 (KB) to Mean Sea Level	1305.50ft
Vertical Reference Pt	Patterson 873 (KB)	Patterson 873 (KB) to Ground Level at Slot (11H)	28.50ft
MD Reference Pt	Patterson 873 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	326.37°

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 Office of Oil and Gas  
 APR 03 2026  
 WV Department of  
 Environmental Protection

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Slot	11H		

WELLPATH DATA (346 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]
0.00†	0.000	113.730	0.00	0.00	0.00	0.00	1766415.51	424248.50	39°39'45.2422"N	80°13'4.2233"W	0.00	0.000	0.00
28.50	0.000	113.730	28.50	0.00	0.00	0.00	1766415.51	424248.50	39°39'45.2422"N	80°13'4.2233"W	0.00	0.000	0.00
53.50	0.510	113.730	53.50	-0.09	-0.04	0.10	1766415.61	424248.46	39°39'45.2418"N	80°13'4.2220"W	0.11	113.730	2.04
103.50	0.660	124.640	103.50	-0.55	-0.30	0.54	1766416.05	424248.20	39°39'45.2393"N	80°13'4.2163"W	0.62	118.782	0.37
153.50	0.680	131.530	153.49	-1.10	-0.66	1.00	1766416.51	424247.84	39°39'45.2358"N	80°13'4.2104"W	1.20	123.321	0.17
203.50	0.630	127.130	203.49	-1.65	-1.02	1.44	1766416.95	424247.48	39°39'45.2323"N	80°13'4.2047"W	1.77	125.287	0.14
253.50	0.510	113.880	253.49	-2.10	-1.28	1.87	1766417.38	424247.22	39°39'45.2298"N	80°13'4.1993"W	2.26	124.395	0.35
303.50	0.340	88.180	303.49	-2.36	-1.36	2.22	1766417.73	424247.14	39°39'45.2289"N	80°13'4.1948"W	2.60	121.570	0.50
353.50	0.150	338.720	353.49	-2.38	-1.30	2.34	1766417.85	424247.20	39°39'45.2296"N	80°13'4.1932"W	2.68	118.976	0.83
403.50	0.310	248.880	403.49	-2.28	-1.28	2.19	1766417.70	424247.22	39°39'45.2297"N	80°13'4.1951"W	2.54	120.372	0.69
453.50	0.460	190.050	453.48	-2.40	-1.53	2.03	1766417.54	424246.97	39°39'45.2273"N	80°13'4.1971"W	2.54	127.013	0.80
503.50	0.570	143.350	503.48	-2.79	-1.93	2.14	1766417.65	424246.57	39°39'45.2233"N	80°13'4.1956"W	2.88	131.964	0.84
553.50	0.410	103.250	553.48	-3.17	-2.17	2.47	1766417.98	424246.33	39°39'45.2210"N	80°13'4.1915"W	3.28	131.321	0.74
603.50	0.290	58.780	603.48	-3.31	-2.14	2.75	1766418.26	424246.36	39°39'45.2213"N	80°13'4.1879"W	3.49	127.952	0.57
653.50	0.250	34.510	653.48	-3.27	-1.99	2.92	1766418.43	424246.51	39°39'45.2228"N	80°13'4.1857"W	3.53	124.264	0.24
703.50	0.180	12.690	703.48	-3.18	-1.82	3.00	1766418.51	424246.68	39°39'45.2245"N	80°13'4.1847"W	3.51	121.289	0.21
753.50	0.250	0.110	753.48	-3.03	-1.64	3.02	1766418.53	424246.86	39°39'45.2263"N	80°13'4.1845"W	3.43	118.486	0.17
803.50	0.180	329.360	803.48	-2.86	-1.46	2.98	1766418.49	424247.04	39°39'45.2280"N	80°13'4.1851"W	3.31	116.129	0.26
853.50	0.150	331.680	853.48	-2.72	-1.33	2.90	1766418.41	424247.17	39°39'45.2293"N	80°13'4.1860"W	3.20	114.675	0.06
903.50	0.250	274.710	903.48	-2.59	-1.27	2.76	1766418.27	424247.23	39°39'45.2299"N	80°13'4.1878"W	3.04	114.635	0.42
953.50	0.340	226.000	953.48	-2.55	-1.36	2.55	1766418.06	424247.14	39°39'45.2290"N	80°13'4.1905"W	2.89	118.113	0.51
1003.50	0.550	157.970	1003.48	-2.81	-1.69	2.53	1766418.04	424246.81	39°39'45.2258"N	80°13'4.1907"W	3.04	123.675	1.05
1053.50	0.430	92.890	1053.48	-3.15	-1.92	2.81	1766418.32	424246.58	39°39'45.2235"N	80°13'4.1871"W	3.40	124.335	1.07
1103.50	0.090	322.750	1103.47	-3.23	-1.90	2.97	1766418.48	424246.60	39°39'45.2237"N	80°13'4.1850"W	3.53	122.543	0.99
1128.50	0.340	67.190	1128.47	-3.22	-1.85	3.03	1766418.54	424246.65	39°39'45.2242"N	80°13'4.1843"W	3.55	121.449	1.49
1356.50	0.180	354.150	1356.47	-3.03	-1.23	3.62	1766419.13	424247.27	39°39'45.2303"N	80°13'4.1769"W	3.82	108.846	0.15
1387.50	0.420	341.620	1387.47	-2.88	-1.08	3.58	1766419.09	424247.42	39°39'45.2319"N	80°13'4.1774"W	3.74	106.780	0.80
1418.50	0.750	341.100	1418.47	-2.57	-0.78	3.47	1766418.98	424247.72	39°39'45.2348"N	80°13'4.1787"W	3.56	102.630	1.06
1449.50	1.060	342.240	1449.47	-2.10	-0.31	3.32	1766418.83	424248.19	39°39'45.2394"N	80°13'4.1808"W	3.34	95.394	1.00
1480.50	1.360	338.350	1480.46	-1.47	0.30	3.10	1766418.61	424248.80	39°39'45.2455"N	80°13'4.1837"W	3.11	84.445	1.00

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Field	Monongalia	API	47061019650000
Facility	Bunner Pad	Wellbore	Bunner 11H AWB
Slot	11H		

WELLPATH DATA (346 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]
1511.50	1.640	339.500	1511.45	-0.67	1.06	2.81	1766418.32	424249.56	39°39'45.2529"N	80°13'4.1875"W	3.00	69.336	0.91
1542.50	1.570	339.700	1542.44	0.17	1.87	2.50	1766418.01	424250.37	39°39'45.2609"N	80°13'4.1914"W	3.13	53.218	0.23
1573.50	1.140	325.920	1573.43	0.89	2.53	2.18	1766417.69	424251.03	39°39'45.2674"N	80°13'4.1956"W	3.34	40.852	1.73
1604.50	1.050	318.670	1604.42	1.48	3.00	1.82	1766417.33	424251.49	39°39'45.2720"N	80°13'4.2002"W	3.51	31.346	0.53
1635.50	0.880	322.830	1635.42	2.00	3.40	1.49	1766417.00	424251.90	39°39'45.2759"N	80°13'4.2045"W	3.71	23.718	0.59
1666.50	0.840	306.160	1666.41	2.45	3.72	1.17	1766416.68	424252.22	39°39'45.2791"N	80°13'4.2087"W	3.90	17.389	0.81
1698.50	0.880	295.430	1698.41	2.88	3.97	0.75	1766416.26	424252.47	39°39'45.2815"N	80°13'4.2140"W	4.04	10.769	0.52
1729.50	0.850	295.560	1729.41	3.29	4.17	0.33	1766415.84	424252.67	39°39'45.2834"N	80°13'4.2194"W	4.18	4.553	0.10
1760.50	1.030	293.680	1760.40	3.72	4.38	-0.13	1766415.38	424252.88	39°39'45.2855"N	80°13'4.2254"W	4.38	358.290	0.59
1791.50	0.950	287.380	1791.40	4.15	4.57	-0.63	1766414.88	424253.07	39°39'45.2873"N	80°13'4.2318"W	4.61	352.131	0.44
1822.50	0.960	286.130	1822.39	4.55	4.72	-1.13	1766414.38	424253.22	39°39'45.2887"N	80°13'4.2381"W	4.85	346.572	0.07
1853.50	0.850	277.450	1853.39	4.90	4.82	-1.60	1766413.91	424253.32	39°39'45.2897"N	80°13'4.2443"W	5.08	341.593	0.57
1884.50	0.730	273.500	1884.39	5.17	4.86	-2.03	1766413.48	424253.36	39°39'45.2901"N	80°13'4.2497"W	5.27	337.344	0.42
1915.50	0.810	267.520	1915.38	5.40	4.86	-2.44	1766413.07	424253.36	39°39'45.2901"N	80°13'4.2550"W	5.44	333.309	0.37
1946.50	0.880	266.230	1946.38	5.63	4.84	-2.90	1766412.61	424253.34	39°39'45.2898"N	80°13'4.2608"W	5.64	329.048	0.23
1978.50	0.880	269.010	1978.38	5.89	4.82	-3.39	1766412.12	424253.32	39°39'45.2896"N	80°13'4.2671"W	5.89	324.848	0.13
2009.50	0.780	266.260	2009.37	6.12	4.80	-3.84	1766411.67	424253.30	39°39'45.2893"N	80°13'4.2729"W	6.15	321.330	0.35
2040.50	0.690	261.100	2040.37	6.31	4.76	-4.24	1766411.27	424253.26	39°39'45.2889"N	80°13'4.2779"W	6.37	318.315	0.36
2071.50	0.500	247.040	2071.37	6.41	4.67	-4.54	1766410.97	424253.17	39°39'45.2881"N	80°13'4.2818"W	6.52	315.809	0.77
2102.50	0.440	247.060	2102.37	6.46	4.58	-4.78	1766410.73	424253.08	39°39'45.2871"N	80°13'4.2848"W	6.62	313.756	0.19
2133.50	0.610	239.040	2133.37	6.49	4.44	-5.03	1766410.48	424252.94	39°39'45.2858"N	80°13'4.2880"W	6.71	311.463	0.60
2164.50	0.610	238.130	2164.37	6.50	4.27	-5.31	1766410.20	424252.77	39°39'45.2840"N	80°13'4.2916"W	6.82	308.811	0.03
2198.50	0.680	236.500	2198.36	6.50	4.07	-5.63	1766409.88	424252.56	39°39'45.2820"N	80°13'4.2957"W	6.95	305.816	0.21
2227.50	0.710	235.970	2227.36	6.50	3.87	-5.93	1766409.58	424252.37	39°39'45.2800"N	80°13'4.2994"W	7.08	303.146	0.11
2258.50	0.740	232.160	2258.36	6.49	3.64	-6.24	1766409.27	424252.14	39°39'45.2777"N	80°13'4.3035"W	7.23	300.240	0.18
2289.50	0.850	237.320	2289.36	6.48	3.39	-6.59	1766408.92	424251.89	39°39'45.2752"N	80°13'4.3079"W	7.42	297.222	0.42
2322.50	0.930	235.640	2322.35	6.48	3.11	-7.02	1766408.49	424251.61	39°39'45.2724"N	80°13'4.3134"W	7.68	293.883	0.25
2352.50	0.860	238.560	2352.35	6.48	2.85	-7.41	1766408.10	424251.35	39°39'45.2698"N	80°13'4.3184"W	7.95	291.054	0.28
2383.50	0.570	245.540	2383.35	6.52	2.67	-7.75	1766407.76	424251.17	39°39'45.2680"N	80°13'4.3227"W	8.20	288.995	0.98
2414.50	0.390	261.600	2414.35	6.59	2.59	-8.00	1766407.51	424251.09	39°39'45.2672"N	80°13'4.3258"W	8.41	287.942	0.72

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Field	Monongalia	API	47061019650000
Facility	Bunner Pad	Wellbore	Bunner 11H AWB
Slot	11H		

WELLPATH DATA (346 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]
2445.50	0.310	256.660	2445.34	6.66	2.56	-8.18	1766407.33	424251.05	39°39'45.2668"N	80°13'4.3282"W	8.57	287.338	0.28
2476.50	0.350	268.400	2476.34	6.74	2.53	-8.36	1766407.15	424251.03	39°39'45.2666"N	80°13'4.3304"W	8.74	286.856	0.25
2602.50	0.140	1.280	2602.34	7.07	2.68	-8.74	1766406.77	424251.18	39°39'45.2680"N	80°13'4.3353"W	9.14	287.021	0.30
2633.50	0.220	43.820	2633.34	7.11	2.76	-8.70	1766406.81	424251.26	39°39'45.2688"N	80°13'4.3348"W	9.13	287.584	0.49
2664.50	0.050	198.070	2664.34	7.12	2.79	-8.66	1766406.85	424251.29	39°39'45.2691"N	80°13'4.3343"W	9.10	287.835	0.86
2695.50	0.450	251.860	2695.34	7.14	2.74	-8.78	1766406.73	424251.24	39°39'45.2686"N	80°13'4.3358"W	9.20	287.305	1.36
2727.50	1.070	255.370	2727.34	7.27	2.62	-9.19	1766406.32	424251.12	39°39'45.2674"N	80°13'4.3410"W	9.56	285.921	1.94
2758.50	1.580	245.760	2758.33	7.44	2.37	-9.86	1766405.65	424250.87	39°39'45.2649"N	80°13'4.3496"W	10.14	283.532	1.79
2789.50	2.360	245.480	2789.31	7.61	1.93	-10.83	1766404.68	424250.43	39°39'45.2605"N	80°13'4.3619"W	11.00	280.118	2.52
2820.50	2.990	244.630	2820.28	7.83	1.32	-12.14	1766403.37	424249.82	39°39'45.2543"N	80°13'4.3787"W	12.21	276.211	2.04
2851.50	3.580	241.560	2851.23	8.03	0.51	-13.72	1766401.79	424249.01	39°39'45.2462"N	80°13'4.3988"W	13.73	272.145	1.99
2882.50	4.170	241.510	2882.16	8.22	-0.48	-15.57	1766399.95	424248.02	39°39'45.2362"N	80°13'4.4222"W	15.57	268.217	1.90
2913.50	4.670	242.280	2913.06	8.45	-1.61	-17.67	1766397.84	424246.89	39°39'45.2249"N	80°13'4.4491"W	17.75	264.798	1.62
2944.50	5.250	244.030	2943.95	8.77	-2.82	-20.07	1766395.45	424245.68	39°39'45.2128"N	80°13'4.4795"W	20.26	262.008	1.93
2976.50	5.810	241.830	2975.80	9.12	-4.22	-22.81	1766392.70	424244.28	39°39'45.1987"N	80°13'4.5145"W	23.20	259.511	1.87
3007.50	6.430	239.730	3006.62	9.37	-5.84	-25.69	1766389.82	424242.66	39°39'45.1825"N	80°13'4.5512"W	26.35	257.197	2.13
3038.50	6.820	238.460	3037.42	9.54	-7.68	-28.76	1766386.75	424240.82	39°39'45.1641"N	80°13'4.5902"W	29.77	255.055	1.34
3069.50	7.320	236.410	3068.18	9.60	-9.73	-31.97	1766383.54	424238.77	39°39'45.1435"N	80°13'4.6311"W	33.42	253.071	1.81
3100.50	7.860	237.910	3098.91	9.66	-11.95	-35.41	1766380.10	424236.55	39°39'45.1213"N	80°13'4.6749"W	37.38	251.353	1.86
3131.50	8.350	236.000	3129.60	9.71	-14.34	-39.08	1766376.44	424234.17	39°39'45.0975"N	80°13'4.7214"W	41.62	249.854	1.80
3162.50	8.980	236.280	3160.24	9.69	-16.94	-42.96	1766372.56	424231.56	39°39'45.0715"N	80°13'4.7708"W	46.17	248.481	2.04
3193.50	9.350	236.290	3190.85	9.68	-19.68	-47.06	1766368.45	424228.82	39°39'45.0440"N	80°13'4.8230"W	51.01	247.309	1.19
3224.50	9.790	236.370	3221.42	9.68	-22.54	-51.35	1766364.16	424225.97	39°39'45.0155"N	80°13'4.8776"W	56.08	246.306	1.42
3255.50	10.420	238.430	3251.94	9.78	-25.46	-55.93	1766359.58	424223.04	39°39'44.9862"N	80°13'4.9359"W	61.46	245.524	2.34
3286.50	10.820	242.700	3282.41	10.20	-28.26	-60.91	1766354.60	424220.24	39°39'44.9581"N	80°13'4.9992"W	67.15	245.106	2.85
3317.50	11.420	243.430	3312.82	10.90	-30.97	-66.24	1766349.27	424217.53	39°39'44.9309"N	80°13'5.0671"W	73.12	244.940	1.99
3348.50	12.200	243.130	3343.17	11.66	-33.83	-71.91	1766343.61	424214.68	39°39'44.9023"N	80°13'5.1392"W	79.46	244.807	2.52
3381.50	13.270	244.120	3375.35	12.58	-37.05	-78.42	1766337.09	424211.45	39°39'44.8698"N	80°13'5.2222"W	86.74	244.710	3.31
3412.50	14.370	242.760	3405.46	13.49	-40.37	-85.05	1766330.47	424208.13	39°39'44.8366"N	80°13'5.3066"W	94.14	244.608	3.70
3443.50	14.660	240.200	3435.47	14.18	-44.08	-91.87	1766323.65	424204.42	39°39'44.7994"N	80°13'5.3935"W	101.90	244.369	2.27

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REFERENCE WELLPATH IDENTIFICATION				
Operator	NORTHEAST NATURAL ENERGY, LLC		Well	Bunner 11H
Field	Monongalia		API	47061019650000
Facility	Bunner Pad		Wellbore	Bunner 11H AWB
Slot	11H			

WELLPATH DATA (346 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]
3474.50	15.320	241.570	3465.41	14.81	-47.98	-98.88	1766316.64	424200.53	39°39'44.7603"N	80°13'5.4826"W	109.90	244.116	2.42
3505.50	15.210	241.330	3495.32	15.54	-51.88	-106.05	1766309.47	424196.62	39°39'44.7212"N	80°13'5.5739"W	118.05	243.932	0.41
3537.50	16.310	242.320	3526.12	16.36	-55.98	-113.71	1766301.81	424192.52	39°39'44.6800"N	80°13'5.6715"W	126.74	243.788	3.54
3568.50	16.290	239.540	3555.87	17.06	-60.21	-121.31	1766294.21	424188.30	39°39'44.6377"N	80°13'5.7682"W	135.43	243.605	2.52
3599.50	16.730	241.510	3585.59	17.70	-64.54	-128.98	1766286.54	424183.97	39°39'44.5942"N	80°13'5.8659"W	144.23	243.418	2.30
3630.50	16.800	241.220	3615.27	18.47	-68.82	-136.83	1766278.69	424179.68	39°39'44.5513"N	80°13'5.9658"W	153.16	243.298	0.35
3661.50	17.420	241.190	3644.90	19.24	-73.22	-144.82	1766270.70	424175.29	39°39'44.5072"N	80°13'6.0675"W	162.28	243.180	2.00
3692.50	17.850	243.560	3674.45	20.23	-77.57	-153.14	1766262.38	424170.94	39°39'44.4636"N	80°13'6.1735"W	171.67	243.137	2.70
3723.50	17.900	241.040	3703.95	21.21	-81.99	-161.56	1766253.96	424166.51	39°39'44.4192"N	80°13'6.2807"W	181.18	243.093	2.50
3754.50	18.390	241.840	3733.41	22.06	-86.61	-170.04	1766245.48	424161.90	39°39'44.3729"N	80°13'6.3887"W	190.83	243.010	1.77
3785.50	18.670	241.150	3762.80	22.94	-91.31	-178.70	1766236.82	424157.20	39°39'44.3258"N	80°13'6.4989"W	200.68	242.935	1.15
3816.50	19.220	241.930	3792.12	23.85	-96.10	-187.55	1766227.97	424152.40	39°39'44.2777"N	80°13'6.6115"W	210.74	242.869	1.95
3847.50	20.030	243.590	3821.32	25.01	-100.87	-196.81	1766218.72	424147.64	39°39'44.2299"N	80°13'6.7294"W	221.15	242.864	3.17
3879.50	20.820	243.740	3851.31	26.43	-105.82	-206.81	1766208.71	424142.69	39°39'44.1801"N	80°13'6.8569"W	232.31	242.903	2.47
3910.50	21.560	243.240	3880.21	27.82	-110.82	-216.84	1766198.68	424137.69	39°39'44.1299"N	80°13'6.9846"W	243.52	242.930	2.46
3941.50	22.310	244.960	3908.97	29.38	-115.88	-227.26	1766188.27	424132.63	39°39'44.0791"N	80°13'7.1172"W	255.10	242.983	3.19
3972.50	22.970	245.850	3937.58	31.25	-120.84	-238.11	1766177.42	424127.67	39°39'44.0292"N	80°13'7.2555"W	267.02	243.092	2.40
4003.50	23.440	246.210	3966.07	33.30	-125.80	-249.27	1766166.26	424122.70	39°39'43.9793"N	80°13'7.3977"W	279.22	243.220	1.58
4034.50	23.950	246.110	3994.46	35.42	-130.84	-260.66	1766154.86	424117.67	39°39'43.9286"N	80°13'7.5429"W	291.66	243.346	1.65
4065.50	24.720	247.070	4022.70	37.69	-135.91	-272.39	1766143.14	424112.60	39°39'43.8775"N	80°13'7.6922"W	304.41	243.482	2.79
4096.50	25.450	247.060	4050.78	40.13	-141.03	-284.49	1766131.04	424107.47	39°39'43.8260"N	80°13'7.8465"W	317.53	243.631	2.35
4127.50	26.160	246.810	4078.69	42.60	-146.32	-296.91	1766118.62	424102.19	39°39'43.7727"N	80°13'8.0047"W	331.00	243.765	2.32
4158.50	26.580	246.330	4106.46	45.04	-151.80	-309.54	1766105.99	424096.71	39°39'43.7176"N	80°13'8.1657"W	344.76	243.877	1.52
4190.50	26.290	245.900	4135.12	47.45	-157.56	-322.57	1766092.96	424090.95	39°39'43.6596"N	80°13'8.3316"W	358.99	243.966	1.09
4221.50	26.730	245.840	4162.86	49.74	-163.22	-335.19	1766080.34	424085.29	39°39'43.6027"N	80°13'8.4925"W	372.82	244.036	1.42
4252.50	27.160	245.500	4190.49	52.01	-169.01	-347.99	1766067.54	424079.50	39°39'43.5445"N	80°13'8.6556"W	386.86	244.096	1.47
4283.50	27.180	245.050	4218.07	54.20	-174.93	-360.85	1766054.68	424073.58	39°39'43.4850"N	80°13'8.8194"W	401.02	244.137	0.67
4314.50	27.670	244.850	4245.59	56.33	-180.98	-373.79	1766041.75	424067.54	39°39'43.4242"N	80°13'8.9842"W	415.29	244.165	1.61
4345.50	27.520	243.890	4273.06	58.33	-187.19	-386.73	1766028.80	424061.33	39°39'43.3618"N	80°13'9.1491"W	429.65	244.172	1.51
4376.50	27.720	243.440	4300.53	60.15	-193.56	-399.61	1766015.92	424054.95	39°39'43.2978"N	80°13'9.3131"W	444.02	244.156	0.93

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# Actual Wellpath Report

Bunner 11H awp Proj: 24876'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 11H
Field	Monongalia	API	47061019650000
Facility	Bunner Pad	Wellbore	Bunner 11H AWB
Slot	11H		

WELLPATH DATA (346 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]
4407.50	27.870	242.620	4327.95	61.83	-200.12	-412.50	1766003.04	424048.39	39°39'43.2319"N	80°13'9.4772"W	458.48	244.120	1.32
4439.50	27.820	242.800	4356.25	63.48	-206.97	-425.78	1765989.76	424041.54	39°39'43.1632"N	80°13'9.6463"W	473.42	244.076	0.31
4470.50	27.420	242.250	4383.71	65.02	-213.60	-438.53	1765977.01	424034.91	39°39'43.0966"N	80°13'9.8087"W	487.78	244.030	1.53
4501.50	27.030	242.030	4411.28	66.45	-220.23	-451.07	1765964.47	424028.29	39°39'43.0301"N	80°13'9.9683"W	501.96	243.977	1.30
4531.50	26.150	241.520	4438.11	67.71	-226.58	-462.90	1765952.64	424021.94	39°39'42.9665"N	80°13'10.1189"W	515.38	243.919	3.03
4563.50	25.820	241.460	4466.87	68.96	-233.27	-475.22	1765940.32	424015.24	39°39'42.8993"N	80°13'10.2758"W	529.39	243.855	1.03
4594.50	25.310	240.950	4494.84	70.09	-239.71	-486.94	1765928.60	424008.80	39°39'42.8347"N	80°13'10.4250"W	542.75	243.790	1.79
4625.50	25.280	241.190	4522.86	71.18	-246.12	-498.54	1765917.00	424002.39	39°39'42.7705"N	80°13'10.5726"W	555.98	243.725	0.34
4656.50	25.530	241.940	4550.87	72.38	-252.45	-510.23	1765905.31	423996.06	39°39'42.7070"N	80°13'10.7215"W	569.27	243.675	1.31
4687.50	26.070	242.500	4578.78	73.76	-258.74	-522.17	1765893.37	423989.78	39°39'42.6439"N	80°13'10.8735"W	582.76	243.641	1.91
4718.50	26.480	243.150	4606.57	75.30	-265.01	-534.38	1765881.17	423983.51	39°39'42.5810"N	80°13'11.0289"W	596.48	243.622	1.62
4752.50	26.610	243.490	4636.99	77.14	-271.83	-547.95	1765867.59	423976.69	39°39'42.5125"N	80°13'11.2018"W	611.67	243.615	0.59
4783.50	27.120	245.980	4664.64	79.18	-277.80	-560.62	1765854.92	423970.71	39°39'42.4525"N	80°13'11.3632"W	625.68	243.640	3.98
4814.50	27.010	244.950	4692.25	81.41	-283.66	-573.45	1765842.09	423964.86	39°39'42.3936"N	80°13'11.5266"W	639.77	243.680	1.55
4908.50	26.640	245.790	4776.13	88.04	-301.34	-612.01	1765803.54	423947.18	39°39'42.2158"N	80°13'12.0178"W	682.17	243.785	0.56
5001.50	26.820	246.600	4859.20	95.18	-318.22	-650.28	1765765.27	423930.30	39°39'42.0459"N	80°13'12.5055"W	723.97	243.925	0.44
5095.50	27.240	246.430	4942.93	102.70	-335.25	-689.46	1765726.09	423913.27	39°39'41.8746"N	80°13'13.0047"W	766.65	244.069	0.45
5188.50	27.870	245.310	5025.38	109.80	-352.84	-728.72	1765686.83	423895.68	39°39'41.6976"N	80°13'13.5049"W	809.65	244.164	0.88
5282.50	27.520	243.820	5108.61	116.03	-371.60	-768.17	1765647.39	423876.92	39°39'41.5091"N	80°13'14.0074"W	853.33	244.185	0.83
5375.50	26.990	243.100	5191.29	121.29	-390.63	-806.27	1765609.29	423857.90	39°39'41.3180"N	80°13'14.4926"W	895.92	244.151	0.67
5469.50	26.890	243.300	5275.08	126.35	-409.83	-844.29	1765571.28	423838.70	39°39'41.1253"N	80°13'14.9767"W	938.50	244.107	0.14
5562.50	26.750	243.470	5358.08	131.48	-428.63	-881.80	1765533.76	423819.90	39°39'40.9365"N	80°13'15.4544"W	980.45	244.077	0.17
5656.50	27.110	243.760	5441.89	136.85	-447.54	-919.94	1765495.63	423800.98	39°39'40.7465"N	80°13'15.9401"W	1023.03	244.057	0.41
5749.50	27.980	244.500	5524.34	142.66	-466.31	-958.64	1765456.93	423782.22	39°39'40.5580"N	80°13'16.4330"W	1066.03	244.061	1.01
5845.50	27.390	244.550	5609.35	148.99	-485.49	-998.90	1765416.67	423763.04	39°39'40.3653"N	80°13'16.9459"W	1110.63	244.079	0.62
5938.50	27.220	244.220	5691.99	154.93	-503.93	-1037.37	1765378.20	423744.60	39°39'40.1799"N	80°13'17.4359"W	1153.29	244.091	0.24
6032.50	27.300	244.180	5775.55	160.80	-522.67	-1076.13	1765339.44	423725.86	39°39'39.9917"N	80°13'17.9296"W	1196.35	244.094	0.09
6125.50	27.490	244.320	5858.12	166.67	-541.26	-1114.68	1765300.90	423707.27	39°39'39.8049"N	80°13'18.4205"W	1239.14	244.100	0.22
6218.50	26.250	245.620	5941.08	172.94	-559.05	-1152.75	1765262.83	423689.48	39°39'39.6260"N	80°13'18.9055"W	1281.17	244.128	1.48
6312.50	25.760	243.910	6025.56	178.96	-576.62	-1190.03	1765225.55	423671.92	39°39'39.4495"N	80°13'19.3804"W	1322.37	244.148	0.95

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# Actual Wellpath Report

Bunner 11H awp Proj: 24876'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 11H
Field	Monongalia	API	47061019650000
Facility	Bunner Pad	Wellbore	Bunner 11H AWB
Slot	11H		

WELLPATH DATA (346 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]
6405.50	25.020	242.930	6109.58	183.86	-594.46	-1225.70	1765189.89	423654.08	39°39'39.2704"N	80°13'19.8345"W	1362.24	244.127	0.92
6498.50	24.980	242.420	6193.87	188.18	-612.50	-1260.61	1765154.97	423636.04	39°39'39.0893"N	80°13'20.2791"W	1401.54	244.086	0.24
6592.50	24.530	241.500	6279.23	192.02	-631.00	-1295.36	1765120.23	423617.54	39°39'38.9037"N	80°13'20.7214"W	1440.87	244.028	0.63
6685.50	24.940	241.660	6363.70	195.55	-649.52	-1329.58	1765086.01	423599.02	39°39'38.7180"N	80°13'21.1571"W	1479.75	243.964	0.45
6778.50	25.010	243.110	6448.00	199.66	-667.72	-1364.37	1765051.22	423580.82	39°39'38.5354"N	80°13'21.6001"W	1519.00	243.923	0.66
6872.50	25.590	243.500	6532.99	204.52	-685.76	-1400.26	1765015.33	423562.78	39°39'38.3542"N	80°13'22.0572"W	1559.17	243.907	0.64
6965.50	25.260	242.530	6616.98	209.14	-703.88	-1435.84	1764979.76	423544.67	39°39'38.1723"N	80°13'22.5102"W	1599.09	243.885	0.57
7059.50	25.290	247.400	6701.99	215.13	-720.85	-1472.18	1764943.42	423527.70	39°39'38.0017"N	80°13'22.9731"W	1639.18	243.911	2.21
7153.50	26.090	249.500	6786.70	223.67	-735.80	-1510.08	1764905.53	423512.74	39°39'37.8509"N	80°13'23.4561"W	1679.80	244.022	1.29
7246.50	26.070	248.540	6870.23	232.62	-750.44	-1548.25	1764867.36	423498.11	39°39'37.7032"N	80°13'23.9427"W	1720.53	244.140	0.45
7340.50	25.860	247.880	6954.74	241.07	-765.72	-1586.46	1764829.14	423482.83	39°39'37.5492"N	80°13'24.4297"W	1761.59	244.235	0.38
7433.50	27.130	245.180	7037.98	248.36	-782.26	-1624.50	1764791.11	423466.29	39°39'37.3827"N	80°13'24.9144"W	1803.03	244.288	1.88
7560.00	26.980	243.140	7150.64	256.16	-807.33	-1676.28	1764739.33	423441.22	39°39'37.1308"N	80°13'25.5739"W	1860.56	244.284	0.74
7656.00	27.550	245.840	7235.97	262.38	-826.25	-1715.97	1764699.65	423422.30	39°39'36.9406"N	80°13'26.0793"W	1904.53	244.289	1.42
7751.00	28.840	253.290	7319.72	272.67	-841.84	-1757.97	1764657.65	423406.71	39°39'36.7833"N	80°13'26.6148"W	1949.14	244.412	3.94
7846.00	31.050	262.950	7402.09	290.31	-851.44	-1804.26	1764611.36	423397.11	39°39'36.6847"N	80°13'27.2057"W	1995.07	244.737	5.58
7941.00	35.030	263.000	7481.71	313.51	-857.77	-1855.66	1764559.96	423390.78	39°39'36.6180"N	80°13'27.8622"W	2044.32	245.191	4.19
8036.00	40.190	262.470	7556.94	339.23	-865.12	-1913.15	1764502.48	423383.43	39°39'36.5408"N	80°13'28.5965"W	2099.66	245.668	5.44
8131.00	45.300	265.060	7626.69	368.95	-872.05	-1977.22	1764438.41	423376.51	39°39'36.4672"N	80°13'29.4151"W	2160.99	246.200	5.69
8226.00	50.800	266.450	7690.17	403.63	-877.24	-2047.66	1764367.98	423371.31	39°39'36.4103"N	80°13'30.3151"W	2227.66	246.809	5.89
8322.00	55.150	267.440	7747.97	442.62	-881.30	-2124.17	1764291.47	423367.25	39°39'36.3641"N	80°13'31.2930"W	2299.74	247.467	4.61
8417.00	55.220	272.020	7802.22	485.50	-881.67	-2202.13	1764213.51	423366.88	39°39'36.3542"N	80°13'32.2898"W	2372.07	248.180	3.96
8513.00	59.700	279.480	7853.90	536.87	-873.44	-2282.53	1764133.12	423375.11	39°39'36.4291"N	80°13'33.3186"W	2443.94	249.060	8.04
8608.00	64.340	282.070	7898.46	595.58	-857.72	-2364.91	1764050.75	423390.83	39°39'36.5779"N	80°13'34.3735"W	2515.65	250.065	5.44
8703.00	68.370	284.280	7936.56	659.03	-837.87	-2449.61	1763966.05	423410.68	39°39'36.7673"N	80°13'35.4586"W	2588.94	251.117	4.75
8798.00	72.010	287.670	7968.76	727.09	-813.25	-2535.50	1763880.17	423435.30	39°39'37.0037"N	80°13'36.5593"W	2662.73	252.217	5.09
8894.00	75.890	292.820	7995.31	801.59	-781.31	-2621.99	1763793.68	423467.24	39°39'37.3125"N	80°13'37.6685"W	2735.93	253.407	6.55
8989.00	80.380	296.580	8014.85	880.70	-742.45	-2706.41	1763709.27	423506.09	39°39'37.6897"N	80°13'38.7519"W	2806.40	254.659	6.11
9084.00	83.990	301.700	8027.77	964.35	-696.63	-2788.56	1763627.12	423551.91	39°39'38.1360"N	80°13'39.8071"W	2874.26	255.974	6.55
9179.00	85.930	303.840	8036.12	1051.06	-645.41	-2868.13	1763547.56	423603.13	39°39'38.6358"N	80°13'40.8297"W	2939.85	257.318	3.03

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# Actual Wellpath Report

Bunner 11H awp Proj: 24876'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 11H
Field	Monongalia	API	47061019650000
Facility	Bunner Pad	Wellbore	Bunner 11H AWB
Slot	11H		

WELLPATH DATA (346 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]
9275.00	88.210	309.140	8041.03	1141.18	-588.42	-2945.17	1763470.52	423660.12	39°39'39.1929"N	80°13'41.8207"W	3003.37	258.702	6.00
9370.00	90.030	315.460	8042.49	1233.27	-524.52	-3015.39	1763400.31	423724.01	39°39'39.8187"N	80°13'42.7251"W	3060.67	260.132	6.92
9465.00	92.220	323.350	8040.62	1327.47	-452.46	-3077.14	1763338.56	423796.07	39°39'40.5259"N	80°13'43.5222"W	3110.23	261.635	8.62
9560.00	91.140	328.020	8037.83	1422.40	-374.05	-3130.66	1763285.04	423874.47	39°39'41.2965"N	80°13'44.2146"W	3152.92	263.187	5.04
9655.00	89.910	326.710	8036.96	1517.37	-294.06	-3181.89	1763233.82	423954.46	39°39'42.0829"N	80°13'44.8779"W	3195.44	264.720	1.89
9750.00	90.120	328.260	8036.94	1612.35	-213.95	-3232.95	1763182.76	424034.56	39°39'42.8705"N	80°13'45.5391"W	3240.02	266.214	1.65
9846.00	89.420	327.920	8037.32	1708.31	-132.46	-3283.69	1763132.02	424116.05	39°39'43.6718"N	80°13'46.1964"W	3286.36	267.690	0.81
9941.00	89.110	328.170	8038.54	1803.26	-51.86	-3333.97	1763081.75	424196.64	39°39'44.4642"N	80°13'46.8476"W	3334.37	269.109	0.42
10037.00	89.110	327.570	8040.03	1899.22	29.42	-3385.02	1763030.70	424277.92	39°39'45.2635"N	80°13'47.5088"W	3385.15	270.498	0.62
10132.00	89.350	327.990	8041.31	1994.18	109.79	-3435.66	1762980.06	424358.28	39°39'46.0536"N	80°13'48.1648"W	3437.42	271.830	0.51
10227.00	90.370	328.810	8041.54	2089.12	190.70	-3485.44	1762930.28	424439.19	39°39'46.8492"N	80°13'48.8097"W	3490.65	273.132	1.38
10323.00	88.770	328.320	8042.26	2185.04	272.60	-3535.51	1762880.22	424521.09	39°39'47.6546"N	80°13'49.4583"W	3546.00	274.409	1.74
10418.00	88.220	327.080	8044.76	2279.98	352.87	-3586.25	1762829.48	424601.35	39°39'48.4438"N	80°13'50.1155"W	3603.57	275.620	1.43
10514.00	88.800	327.710	8047.25	2375.93	433.72	-3637.96	1762777.77	424682.19	39°39'49.2386"N	80°13'50.7851"W	3663.72	276.799	0.89
10609.00	89.260	328.610	8048.86	2470.87	514.41	-3688.07	1762727.66	424762.88	39°39'50.0320"N	80°13'51.4343"W	3723.77	277.940	1.06
10704.00	89.720	330.640	8049.71	2565.71	596.36	-3736.10	1762679.64	424844.83	39°39'50.8381"N	80°13'52.0570"W	3783.40	279.069	2.19
10800.00	88.980	330.880	8050.80	2661.42	680.12	-3782.99	1762632.75	424928.58	39°39'51.6621"N	80°13'52.6653"W	3843.64	280.192	0.81
10895.00	89.200	327.670	8052.31	2756.27	761.77	-3831.52	1762584.23	425010.22	39°39'52.4650"N	80°13'53.2942"W	3906.51	281.245	3.39
10990.00	88.460	324.700	8054.25	2851.24	840.67	-3884.37	1762531.38	425089.12	39°39'53.2405"N	80°13'53.9783"W	3974.30	282.212	3.22
11086.00	89.820	325.550	8055.69	2947.20	919.42	-3939.25	1762476.50	425167.86	39°39'54.0143"N	80°13'54.6883"W	4045.13	283.138	1.67
11181.00	89.080	324.650	8056.60	3042.17	997.33	-3993.60	1762422.15	425245.77	39°39'54.7799"N	80°13'55.3914"W	4116.25	284.022	1.23
11276.00	89.940	327.270	8057.41	3137.16	1076.04	-4046.77	1762368.98	425324.47	39°39'55.5535"N	80°13'56.0795"W	4187.39	284.890	2.90
11372.00	89.110	324.940	8058.21	3233.15	1155.72	-4100.30	1762315.46	425404.15	39°39'56.3366"N	80°13'56.7723"W	4260.07	285.741	2.58
11467.00	88.950	326.150	8059.82	3328.12	1234.04	-4154.04	1762261.72	425482.46	39°39'57.1063"N	80°13'57.4676"W	4333.46	286.545	1.28
11562.00	88.710	326.320	8061.76	3423.10	1313.00	-4206.83	1762208.94	425561.42	39°39'57.8823"N	80°13'58.1508"W	4406.97	287.334	0.31
11658.00	89.230	326.340	8063.48	3519.09	1392.88	-4260.05	1762155.72	425641.29	39°39'58.6675"N	80°13'58.8396"W	4481.98	288.106	0.54
11753.00	89.380	326.200	8064.63	3614.08	1471.88	-4312.79	1762102.98	425720.29	39°39'59.4440"N	80°13'59.5224"W	4557.04	288.844	0.22
11849.00	88.860	324.650	8066.11	3710.05	1550.91	-4367.26	1762048.51	425799.32	39°40'0.2206"N	80°14'0.2271"W	4634.47	289.551	1.70
11944.00	89.420	325.920	8067.54	3805.02	1628.99	-4421.36	1761994.42	425877.39	39°40'0.9879"N	80°14'0.9270"W	4711.90	290.226	1.46
12039.00	89.780	325.580	8068.20	3900.01	1707.52	-4474.82	1761940.96	425955.91	39°40'1.7596"N	80°14'1.6189"W	4789.54	290.886	0.52

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# Actual Wellpath Report

Bunner 11H awp Proj: 24876'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 11H
Field	Monongalia	API	47061019650000
Facility	Bunner Pad	Wellbore	Bunner 11H AWB
Slot	11H		

WELLPATH DATA (346 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]
12135.00	89.600	324.780	8068.72	3995.99	1786.33	-4529.64	1761886.15	426034.72	39°40'2.5340"N	80°14'2.3281"W	4869.15	291.522	0.85
12230.00	89.970	325.570	8069.07	4090.97	1864.31	-4583.89	1761831.90	426112.70	39°40'3.3003"N	80°14'3.0299"W	4948.50	292.132	0.92
12325.00	90.250	325.540	8068.89	4185.96	1942.65	-4637.62	1761778.17	426191.04	39°40'4.0702"N	80°14'3.7252"W	5028.07	292.728	0.30
12421.00	90.250	325.630	8068.47	4281.95	2021.85	-4691.88	1761723.92	426270.23	39°40'4.8485"N	80°14'4.4273"W	5108.97	293.312	0.09
12515.00	89.940	325.270	8068.32	4375.94	2099.27	-4745.19	1761670.61	426347.64	39°40'5.6093"N	80°14'5.1171"W	5188.81	293.865	0.51
12610.00	89.850	325.010	8068.49	4470.91	2177.22	-4799.49	1761616.32	426425.59	39°40'6.3753"N	80°14'5.8196"W	5270.24	294.401	0.29
12706.00	91.380	325.360	8067.46	4566.88	2256.03	-4854.29	1761561.51	426504.39	39°40'7.1497"N	80°14'6.5287"W	5352.93	294.927	1.63
12801.00	91.110	325.420	8065.40	4661.85	2334.20	-4908.24	1761507.57	426582.56	39°40'7.9178"N	80°14'7.2267"W	5435.01	295.434	0.29
12897.00	91.780	326.390	8062.98	4757.81	2413.67	-4962.03	1761453.78	426662.03	39°40'8.6989"N	80°14'7.9230"W	5517.94	295.940	1.23
12992.00	91.110	326.750	8060.58	4852.78	2492.93	-5014.35	1761401.46	426741.28	39°40'9.4779"N	80°14'8.6003"W	5599.86	296.435	0.80
13087.00	91.260	326.200	8058.62	4947.76	2572.11	-5066.81	1761349.01	426820.45	39°40'10.2561"N	80°14'9.2794"W	5682.28	296.914	0.60
13182.00	91.350	326.360	8056.45	5042.73	2651.11	-5119.54	1761296.29	426899.44	39°40'11.0326"N	80°14'9.9619"W	5765.24	297.377	0.19
13278.00	91.050	326.240	8054.44	5138.71	2730.96	-5172.79	1761243.04	426979.29	39°40'11.8174"N	80°14'10.6513"W	5849.43	297.832	0.34
13373.00	90.580	326.030	8053.09	5233.70	2809.83	-5225.72	1761190.11	427058.16	39°40'12.5926"N	80°14'11.3364"W	5933.24	298.267	0.54
13468.00	90.520	325.850	8052.18	5328.70	2888.53	-5278.92	1761136.91	427136.85	39°40'13.3660"N	80°14'12.0250"W	6017.53	298.687	0.20
13564.00	91.110	326.110	8050.81	5424.68	2968.09	-5332.63	1761083.21	427216.41	39°40'14.1479"N	80°14'12.7202"W	6102.99	299.100	0.67
13659.00	90.890	326.440	8049.15	5519.67	3047.09	-5385.37	1761030.47	427295.41	39°40'14.9244"N	80°14'13.4028"W	6187.64	299.502	0.42
13754.00	91.080	326.730	8047.52	5614.65	3126.38	-5437.67	1760978.17	427374.69	39°40'15.7037"N	80°14'14.0801"W	6272.36	299.897	0.36
13847.00	91.230	326.450	8045.65	5707.63	3203.99	-5488.87	1760926.97	427452.30	39°40'16.4665"N	80°14'14.7430"W	6355.57	300.273	0.34
13942.00	91.780	326.940	8043.15	5802.60	3283.36	-5541.02	1760874.83	427531.66	39°40'17.2467"N	80°14'15.4181"W	6440.76	300.649	0.78
14038.00	91.260	325.530	8040.61	5898.56	3363.14	-5594.35	1760821.50	427611.43	39°40'18.0308"N	80°14'16.1086"W	6527.44	301.013	1.56
14133.00	91.540	326.080	8038.28	5993.53	3441.69	-5647.73	1760768.13	427689.98	39°40'18.8027"N	80°14'16.7994"W	6613.78	301.358	0.65
14228.00	91.660	326.450	8035.63	6088.49	3520.66	-5700.47	1760715.39	427768.95	39°40'19.5789"N	80°14'17.4821"W	6700.03	301.700	0.41
14323.00	91.690	326.220	8032.85	6183.45	3599.70	-5753.11	1760662.76	427847.98	39°40'20.3557"N	80°14'18.1636"W	6786.46	302.034	0.24
14418.00	91.720	325.900	8030.03	6278.41	3678.48	-5806.12	1760609.74	427926.75	39°40'21.1299"N	80°14'18.8499"W	6873.30	302.356	0.34
14514.00	92.220	326.730	8026.73	6374.35	3758.31	-5859.34	1760556.53	428006.58	39°40'21.9145"N	80°14'19.5388"W	6961.09	302.677	1.01
14609.00	92.770	326.560	8022.59	6469.26	3837.59	-5911.52	1760504.35	428085.85	39°40'22.6937"N	80°14'20.2144"W	7047.92	302.990	0.61
14705.00	90.830	325.740	8019.58	6565.20	3917.27	-5964.96	1760450.91	428165.53	39°40'23.4769"N	80°14'20.9063"W	7136.23	303.293	2.19
14800.00	91.320	327.650	8017.79	6660.18	3996.65	-6017.12	1760398.76	428244.91	39°40'24.2571"N	80°14'21.5816"W	7223.50	303.593	2.08
14895.00	90.890	326.450	8015.96	6755.16	4076.35	-6068.78	1760347.10	428324.60	39°40'25.0406"N	80°14'22.2506"W	7310.73	303.889	1.34

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# Actual Wellpath Report

Bunner 11H awp Proj: 24876'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 11H
Field	Monongalia	API	47061019650000
Facility	Bunner Pad	Wellbore	Bunner 11H AWB
Slot	11H		

WELLPATH DATA (346 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]
14991.00	90.180	325.680	8015.07	6851.15	4156.00	-6122.37	1760293.52	428404.24	39°40'25.8233"N	80°14'22.9444"W	7399.71	304.170	1.09
15086.00	89.880	326.650	8015.02	6946.15	4234.91	-6175.26	1760240.63	428483.15	39°40'26.5988"N	80°14'23.6291"W	7487.88	304.442	1.07
15181.00	90.550	326.030	8014.66	7041.14	4313.98	-6227.92	1760187.97	428562.21	39°40'27.3760"N	80°14'24.3108"W	7576.10	304.710	0.96
15276.00	90.250	326.490	8014.00	7136.14	4392.97	-6280.68	1760135.21	428641.21	39°40'28.1523"N	80°14'24.9939"W	7664.54	304.971	0.58
15371.00	89.510	326.180	8014.20	7231.14	4472.04	-6333.34	1760082.56	428720.27	39°40'28.9294"N	80°14'25.6757"W	7753.09	305.226	0.84
15466.00	90.120	326.290	8014.50	7326.14	4551.02	-6386.14	1760029.76	428799.24	39°40'29.7056"N	80°14'26.3593"W	7841.85	305.475	0.65
15562.00	89.660	327.050	8014.69	7422.14	4631.23	-6438.89	1759977.02	428879.44	39°40'30.4940"N	80°14'27.0423"W	7931.43	305.726	0.93
15657.00	89.450	325.950	8015.42	7517.13	4710.44	-6491.32	1759924.59	428958.65	39°40'31.2726"N	80°14'27.7212"W	8020.32	305.967	1.18
15752.00	89.850	326.610	8016.01	7612.13	4789.46	-6544.06	1759871.85	429037.66	39°40'32.0491"N	80°14'28.4040"W	8109.47	306.200	0.81
15848.00	89.850	326.030	8016.26	7708.13	4869.34	-6597.29	1759818.62	429117.54	39°40'32.8343"N	80°14'29.0933"W	8199.68	306.430	0.60
15943.00	90.150	326.400	8016.26	7803.13	4948.30	-6650.12	1759765.80	429196.50	39°40'33.6103"N	80°14'29.7772"W	8289.13	306.653	0.50
16039.00	91.570	326.360	8014.82	7899.12	5028.23	-6703.27	1759712.65	429276.42	39°40'34.3958"N	80°14'30.4653"W	8379.55	306.874	1.48
16134.00	91.260	326.770	8012.47	7994.09	5107.48	-6755.59	1759660.33	429355.67	39°40'35.1748"N	80°14'31.1429"W	8469.03	307.091	0.54
16230.00	90.770	326.060	8010.77	8090.07	5187.44	-6808.69	1759607.24	429435.63	39°40'35.9607"N	80°14'31.8304"W	8559.66	307.303	0.90
16325.00	90.580	326.340	8009.65	8185.06	5266.38	-6861.53	1759554.40	429514.56	39°40'36.7365"N	80°14'32.5146"W	8649.59	307.507	0.36
16420.00	90.250	325.990	8008.96	8280.06	5345.29	-6914.43	1759501.50	429593.47	39°40'37.5120"N	80°14'33.1994"W	8739.65	307.706	0.51
16515.00	90.650	326.090	8008.22	8375.05	5424.08	-6967.50	1759448.44	429672.25	39°40'38.2863"N	80°14'33.8864"W	8829.87	307.900	0.43
16610.00	91.350	327.390	8006.56	8470.03	5503.51	-7019.59	1759396.35	429751.67	39°40'39.0670"N	80°14'34.5610"W	8919.82	308.097	1.55
16705.00	90.950	325.750	8004.65	8565.01	5582.77	-7071.91	1759344.03	429830.93	39°40'39.8460"N	80°14'35.2386"W	9009.96	308.289	1.78
16800.00	90.060	325.760	8003.81	8660.00	5661.30	-7125.37	1759290.58	429909.45	39°40'40.6177"N	80°14'35.9306"W	9100.62	308.468	0.94
16896.00	90.180	326.540	8003.61	8756.00	5741.03	-7178.84	1759237.11	429989.18	39°40'41.4012"N	80°14'36.6229"W	9192.13	308.650	0.82
16991.00	89.600	326.330	8003.79	8851.00	5820.19	-7231.37	1759184.59	430068.33	39°40'42.1792"N	80°14'37.3031"W	9282.63	308.829	0.65
17086.00	89.380	325.820	8004.64	8945.99	5899.01	-7284.38	1759131.57	430147.15	39°40'42.9539"N	80°14'37.9895"W	9373.40	309.001	0.58
17181.00	89.540	325.830	8005.54	9040.99	5977.60	-7337.75	1759078.21	430225.74	39°40'43.7262"N	80°14'38.6803"W	9464.37	309.168	0.17
17276.00	89.170	326.490	8006.61	9135.98	6056.50	-7390.65	1759025.32	430304.63	39°40'44.5016"N	80°14'39.3652"W	9555.25	309.334	0.80
17372.00	89.850	326.640	8007.43	9231.97	6136.61	-7443.54	1758972.43	430384.74	39°40'45.2890"N	80°14'40.0501"W	9646.98	309.503	0.73
17467.00	91.450	328.840	8006.35	9326.93	6216.94	-7494.24	1758921.73	430465.06	39°40'46.0786"N	80°14'40.7071"W	9737.24	309.678	2.86
17562.00	89.260	327.680	8005.76	9421.87	6297.72	-7544.21	1758871.76	430545.84	39°40'46.8729"N	80°14'41.3548"W	9827.33	309.854	2.61
17657.00	89.260	328.790	8006.99	9516.81	6378.48	-7594.22	1758821.76	430626.59	39°40'47.6669"N	80°14'42.0029"W	9917.52	310.027	1.17
17752.00	89.450	328.190	8008.06	9611.74	6459.47	-7643.86	1758772.11	430707.57	39°40'48.4632"N	80°14'42.6465"W	10007.67	310.200	0.66

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# Actual Wellpath Report

Bunner 11H awp Proj: 24876'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 11H
Field	Monongalia	API	47061019650000
Facility	Bunner Pad	Wellbore	Bunner 11H AWB
Slot	11H		

WELLPATH DATA (346 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]
17848.00	89.020	326.250	8009.34	9707.72	6540.17	-7695.83	1758720.15	430788.27	39°40'49.2564"N	80°14'43.3197"W	10099.49	310.359	2.07
17943.00	88.770	326.030	8011.17	9802.70	6619.04	-7748.75	1758667.23	430867.14	39°40'50.0316"N	80°14'44.0049"W	10190.92	310.504	0.35
18039.00	89.570	326.730	8012.56	9898.69	6698.98	-7801.90	1758614.09	430947.07	39°40'50.8171"N	80°14'44.6931"W	10283.28	310.651	1.11
18134.00	90.150	326.800	8012.79	9993.68	6778.44	-7853.97	1758562.02	431026.52	39°40'51.5981"N	80°14'45.3675"W	10374.58	310.796	0.61
18229.00	89.720	325.530	8012.90	10088.68	6857.35	-7906.86	1758509.13	431105.43	39°40'52.3736"N	80°14'46.0524"W	10466.21	310.934	1.41
18325.00	90.710	326.670	8012.54	10184.67	6937.02	-7960.40	1758455.59	431185.10	39°40'53.1567"N	80°14'46.7457"W	10558.90	311.070	1.57
18419.00	89.080	325.860	8012.71	10278.67	7015.19	-8012.60	1758403.39	431263.26	39°40'53.9249"N	80°14'47.4216"W	10649.64	311.203	1.94
18514.00	89.780	326.750	8013.66	10373.66	7094.23	-8065.30	1758350.70	431342.29	39°40'54.7016"N	80°14'48.1041"W	10741.38	311.335	1.19
18609.00	90.340	326.370	8013.56	10468.66	7173.50	-8117.65	1758298.35	431421.56	39°40'55.4807"N	80°14'48.7821"W	10833.07	311.467	0.71
18705.00	90.090	325.980	8013.20	10564.66	7253.25	-8171.09	1758244.92	431501.31	39°40'56.2645"N	80°14'49.4740"W	10925.95	311.595	0.48
18800.00	90.030	326.110	8013.10	10659.66	7332.05	-8224.15	1758191.86	431580.10	39°40'57.0389"N	80°14'50.1611"W	11017.97	311.718	0.15
18895.00	90.090	325.780	8013.00	10754.66	7410.76	-8277.35	1758138.66	431658.81	39°40'57.8123"N	80°14'50.8499"W	11110.08	311.838	0.35
18991.00	89.970	325.880	8012.95	10850.65	7490.19	-8331.27	1758084.75	431738.23	39°40'58.5928"N	80°14'51.5479"W	11203.26	311.957	0.16
19085.00	89.510	325.390	8013.38	10944.64	7567.78	-8384.33	1758031.69	431815.82	39°40'59.3553"N	80°14'52.2348"W	11294.61	312.070	0.71
19181.00	89.600	326.070	8014.12	11040.63	7647.11	-8438.39	1757977.64	431895.14	39°41'0.1348"N	80°14'52.9347"W	11387.92	312.184	0.71
19275.00	89.600	326.080	8014.78	11134.63	7725.11	-8490.85	1757925.18	431973.13	39°41'0.9013"N	80°14'53.6140"W	11479.19	312.296	0.01
19370.00	89.660	326.020	8015.39	11229.63	7803.91	-8543.90	1757872.13	432051.93	39°41'1.6757"N	80°14'54.3009"W	11571.48	312.408	0.09
19466.00	89.750	326.030	8015.88	11325.62	7883.52	-8597.55	1757818.49	432131.54	39°41'2.4580"N	80°14'54.9956"W	11664.81	312.519	0.09
19561.00	89.630	326.110	8016.40	11420.62	7962.34	-8650.57	1757765.46	432210.36	39°41'3.2326"N	80°14'55.6822"W	11757.18	312.628	0.15
19656.00	89.380	325.810	8017.22	11515.62	8041.06	-8703.75	1757712.29	432289.07	39°41'4.0062"N	80°14'56.3708"W	11849.64	312.734	0.41
19751.00	89.780	326.280	8017.92	11610.61	8119.86	-8756.81	1757659.24	432367.86	39°41'4.7805"N	80°14'57.0578"W	11942.10	312.839	0.65
19847.00	89.510	326.080	8018.51	11706.61	8199.61	-8810.24	1757605.81	432447.61	39°41'5.5643"N	80°14'57.7497"W	12035.53	312.944	0.35
19943.00	89.630	326.320	8019.23	11802.61	8279.38	-8863.64	1757552.41	432527.38	39°41'6.3482"N	80°14'58.4413"W	12128.99	313.048	0.28
20038.00	89.780	326.020	8019.72	11897.60	8358.30	-8916.53	1757499.52	432606.29	39°41'7.1237"N	80°14'59.1262"W	12221.53	313.149	0.35
20133.00	89.320	325.830	8020.47	11992.60	8436.99	-8969.76	1757446.30	432684.97	39°41'7.8970"N	80°14'59.8154"W	12314.19	313.247	0.52
20229.00	89.630	326.210	8021.35	12088.59	8516.59	-9023.41	1757392.65	432764.57	39°41'8.6792"N	80°15'0.5101"W	12407.83	313.345	0.51
20324.00	89.320	325.310	8022.22	12183.58	8595.12	-9076.86	1757339.21	432843.09	39°41'9.4509"N	80°15'1.2022"W	12500.62	313.438	1.00
20419.00	89.450	325.580	8023.24	12278.56	8673.35	-9130.74	1757285.33	432921.33	39°41'10.2196"N	80°15'1.8997"W	12593.55	313.528	0.32
20515.00	89.690	325.890	8023.96	12374.55	8752.69	-9184.79	1757231.28	433000.66	39°41'10.9992"N	80°15'2.5995"W	12687.39	313.620	0.41
20610.00	89.420	325.950	8024.69	12469.55	8831.37	-9238.02	1757178.05	433079.33	39°41'11.7724"N	80°15'3.2888"W	12780.22	313.711	0.29

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# Actual Wellpath Report

Bunner 11H awp Proj: 24876'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 11H
Field	Monongalia	API	47061019650000
Facility	Bunner Pad	Wellbore	Bunner 11H AWB
Slot	11H		

WELLPATH DATA (346 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]
20705.00	89.260	325.560	8025.79	12564.54	8909.90	-9291.48	1757124.60	433157.85	39°41'12.5440"N	80°15'3.9810"W	12873.14	313.799	0.44
20801.00	89.780	326.180	8026.59	12660.53	8989.36	-9345.34	1757070.74	433237.31	39°41'13.3248"N	80°15'4.6784"W	12967.03	313.888	0.84
20896.00	89.690	325.990	8027.03	12755.53	9068.20	-9398.34	1757017.74	433316.14	39°41'14.0995"N	80°15'5.3648"W	13059.90	313.976	0.22
20992.00	89.750	326.050	8027.50	12851.52	9147.80	-9452.00	1756964.09	433395.74	39°41'14.8818"N	80°15'6.0596"W	13153.80	314.063	0.09
21087.00	89.320	325.480	8028.27	12946.51	9226.34	-9505.44	1756910.65	433474.28	39°41'15.6535"N	80°15'6.7517"W	13246.84	314.146	0.75
21182.00	89.720	325.830	8029.07	13041.50	9304.77	-9559.03	1756857.06	433552.70	39°41'16.4242"N	80°15'7.4456"W	13339.94	314.228	0.56
21278.00	89.570	326.010	8029.66	13137.50	9384.28	-9612.83	1756803.27	433632.21	39°41'17.2055"N	80°15'8.1422"W	13433.96	314.311	0.24
21372.00	89.690	325.780	8030.27	13231.49	9462.12	-9665.53	1756750.57	433710.04	39°41'17.9703"N	80°15'8.8247"W	13526.05	314.391	0.28
21467.00	89.510	325.940	8030.93	13326.49	9540.74	-9718.85	1756697.26	433788.66	39°41'18.7430"N	80°15'9.5151"W	13619.17	314.470	0.25
21563.00	89.660	326.950	8031.63	13422.48	9620.74	-9771.91	1756644.20	433868.65	39°41'19.5291"N	80°15'10.2023"W	13713.09	314.553	1.06
21658.00	88.770	326.870	8032.93	13517.47	9700.33	-9823.77	1756592.34	433948.23	39°41'20.3113"N	80°15'10.8742"W	13805.89	314.638	0.94
21753.00	86.800	325.780	8036.60	13612.39	9779.32	-9876.40	1756539.71	434027.22	39°41'21.0876"N	80°15'11.5560"W	13898.86	314.717	2.37
21846.00	87.010	327.150	8041.62	13705.25	9856.72	-9927.70	1756488.41	434104.62	39°41'21.8484"N	80°15'12.2205"W	13989.79	314.794	1.49
21941.00	87.050	326.950	8046.55	13800.12	9936.34	-9979.30	1756436.82	434184.23	39°41'22.6308"N	80°15'12.8891"W	14082.52	314.876	0.21
22037.00	87.110	326.960	8051.44	13895.99	10016.70	-10031.58	1756384.54	434264.59	39°41'23.4207"N	80°15'13.5664"W	14176.28	314.957	0.06
22132.00	87.200	327.280	8056.15	13990.86	10096.39	-10083.09	1756333.03	434344.27	39°41'24.2039"N	80°15'14.2339"W	14269.05	315.038	0.35
22228.00	87.110	326.970	8060.92	14086.74	10176.91	-10135.14	1756280.99	434424.79	39°41'24.9954"N	80°15'14.9083"W	14362.82	315.118	0.34
22323.00	87.170	326.850	8065.66	14181.61	10256.41	-10186.94	1756229.19	434504.28	39°41'25.7767"N	80°15'15.5794"W	14455.71	315.195	0.14
22418.00	87.110	327.110	8070.40	14276.49	10335.96	-10238.64	1756177.49	434583.83	39°41'26.5586"N	80°15'16.2494"W	14548.61	315.271	0.28
22514.00	86.710	326.780	8075.57	14372.35	10416.31	-10290.93	1756125.21	434664.17	39°41'27.3483"N	80°15'16.9268"W	14642.50	315.347	0.54
22609.00	87.290	327.130	8080.54	14467.21	10495.83	-10342.66	1756073.48	434743.69	39°41'28.1299"N	80°15'17.5971"W	14735.44	315.421	0.71
22705.00	88.370	326.930	8084.18	14563.13	10576.31	-10394.87	1756021.28	434824.17	39°41'28.9209"N	80°15'18.2735"W	14829.42	315.496	1.14
22800.00	88.340	327.170	8086.91	14658.09	10656.00	-10446.52	1755969.63	434903.85	39°41'29.7041"N	80°15'18.9428"W	14922.47	315.569	0.25
22895.00	88.280	327.190	8089.71	14753.04	10735.80	-10497.98	1755918.17	434983.64	39°41'30.4885"N	80°15'19.6098"W	15015.49	315.642	0.07
22991.00	88.920	326.960	8092.05	14849.00	10816.36	-10550.15	1755866.01	435064.20	39°41'31.2802"N	80°15'20.2857"W	15109.57	315.714	0.71
23086.00	89.660	327.280	8093.23	14943.98	10896.13	-10601.72	1755814.44	435143.97	39°41'32.0643"N	80°15'20.9540"W	15202.70	315.785	0.85
23182.00	89.260	327.140	8094.13	15039.97	10976.83	-10653.71	1755762.45	435224.66	39°41'32.8575"N	80°15'21.6277"W	15296.81	315.856	0.44
23277.00	89.260	327.340	8095.36	15134.95	11056.71	-10705.11	1755711.06	435304.54	39°41'33.6427"N	80°15'22.2938"W	15389.94	315.926	0.21
23372.00	88.490	327.240	8097.23	15229.92	11136.63	-10756.43	1755659.73	435384.45	39°41'34.4282"N	80°15'22.9590"W	15483.07	315.995	0.82
23467.00	88.400	327.030	8099.80	15324.88	11216.40	-10807.97	1755608.20	435464.21	39°41'35.2122"N	80°15'23.6268"W	15576.26	316.062	0.24

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# Actual Wellpath Report

Bunner 11H awp Proj: 24876'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 11H
Field	Monongalia	API	47061019650000
Facility	Bunner Pad	Wellbore	Bunner 11H AWB
Slot	11H		

## WELLPATH DATA (346 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]
23562.00	87.880	327.120	8102.89	15419.82	11296.10	-10859.58	1755556.60	435543.91	39°41'35.9955"N	80°15'24.2956"W	15669.47	316.129	0.56
23657.00	87.910	325.480	8106.38	15514.75	11375.08	-10912.25	1755503.93	435622.88	39°41'36.7717"N	80°15'24.9779"W	15762.92	316.190	1.73
23752.00	87.910	325.810	8109.84	15609.68	11453.45	-10965.82	1755450.36	435701.25	39°41'37.5417"N	80°15'25.6717"W	15856.57	316.246	0.35
23848.00	88.150	325.950	8113.14	15705.62	11532.88	-11019.64	1755396.54	435780.68	39°41'38.3222"N	80°15'26.3687"W	15951.17	316.304	0.29
23943.00	88.090	326.210	8116.26	15800.57	11611.67	-11072.63	1755343.56	435859.46	39°41'39.0964"N	80°15'27.0550"W	16044.75	316.361	0.28
24038.00	89.540	325.870	8118.22	15895.54	11690.45	-11125.68	1755290.51	435938.23	39°41'39.8705"N	80°15'27.7422"W	16138.38	316.418	1.57
24134.00	89.690	326.260	8118.87	15991.54	11770.09	-11179.27	1755236.92	436017.87	39°41'40.6532"N	80°15'28.4363"W	16233.03	316.475	0.44
24229.00	90.150	325.970	8119.00	16086.54	11848.96	-11232.24	1755183.96	436096.73	39°41'41.4281"N	80°15'29.1224"W	16326.70	316.531	0.57
24324.00	91.260	325.980	8117.83	16181.53	11927.69	-11285.39	1755130.81	436175.46	39°41'42.2017"N	80°15'29.8108"W	16420.41	316.585	1.17
24419.00	90.980	325.930	8115.98	16276.51	12006.39	-11338.57	1755077.64	436254.15	39°41'42.9751"N	80°15'30.4996"W	16514.13	316.639	0.30
24514.00	91.780	326.080	8113.69	16371.48	12085.13	-11391.67	1755024.54	436332.89	39°41'43.7488"N	80°15'31.1874"W	16607.84	316.692	0.86
24609.00	92.060	325.920	8110.50	16466.42	12163.84	-11444.76	1754971.45	436411.60	39°41'44.5222"N	80°15'31.8751"W	16701.54	316.745	0.34
24705.00	92.150	325.730	8106.98	16562.35	12243.21	-11498.65	1754917.56	436490.96	39°41'45.3021"N	80°15'32.5730"W	16796.28	316.796	0.22
24800.00	91.010	325.870	8104.36	16657.31	12321.75	-11552.03	1754864.19	436569.50	39°41'46.0738"N	80°15'33.2643"W	16890.08	316.847	1.21
24851.00	91.170	326.150	8103.39	16708.30	12364.03	-11580.53	1754835.69	436611.78	39°41'46.4893"N	80°15'33.6336"W	16940.42	316.874	0.63
24876.00†	91.170	326.150	8102.88	16733.29	12384.79	-11594.45	1754821.76	436632.53	39°41'46.6932"N	80°15'33.8139"W	16965.09	316.888	0.00

## HOLE & CASING SECTIONS - Ref Wellbore: Bunner 11H AWB Ref Wellpath: Bunner 11H awp Proj: 24876'

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]
9.625in Casing	28.50	2561.00	2532.50	28.50	2560.84	0.00	0.00	2.59	-8.70
5.5in Casing	28.50	24876.00	24847.50	28.50	8102.88	0.00	0.00	12384.79	-11594.45

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# Actual Wellpath Report

Bunner 11H awp Proj: 24876'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 11H
Field	Monongalia	API	47061019650000
Facility	Bunner Pad	Wellbore	Bunner 11H AWB
Slot	11H		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Bunner 11H BHL Rev6	8045.00	12426.41	-11622.04	1754794.18	436674.15	39°41'47.1022"N	80°15'34.1714"W	point
Bunner 11H LP Rev5	8045.00	-490.56	-3028.88	1763386.82	423757.97	39°39'40.1532"N	80°13'42.9011"W	point
Bunner Pad HARDLINES 4.27.2025	9528.50	12974.04	-12674.08	1753742.20	437221.74	39°41'52.4260"N	80°15'47.6893"W	polygon
	2D Polygon: dimensions not calculated							
Bunner Pad Unit Lines 4.25.2025	11028.50	-1216.95	-1948.25	1764467.37	423031.63	39°39'33.0611"N	80°13'29.0091"W	polygon
	2D Polygon: dimensions not calculated							

WELLPATH COMPOSITION - Ref Wellbore: Bunner 11H AWB Ref Wellpath: Bunner 11H awp Proj: 24876'							
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date		
28.50	1128.50	BH Generic gyro - northseeking (Standard)	1 Imported GYRO Scientific 50' - 1125'	Bunner 11H AWB	4/28/2025		
1128.50	7433.50	OWSG MWD rev2 + HRGM	2 Imported MWD Scientific 1353' - 7430'	Bunner 11H AWB	4/28/2025		
7433.50	24876.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	3 BH MWD ATC HRGM Short spacing 8.5" 7560' - 24851'	Bunner 11H AWB	4/28/2025		

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