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NORTHEAST NATURAL ENERGY, LLC



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

Slot: 15H
 Well: Bunner 15H
 Wellbore: Bunner 15H AWB

Plot reference wellpath is Bunner 15H awp Proj: 25707	Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet
True vertical depths are referenced to Patterson 873 (KB)	North Reference: Grid north
Reference wellpath measured depths are referenced to Patterson 873 (KB)	Scale: True distance
Patterson 873 (KB) to Mean Sea Level: 1305.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: 15H): -1277 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: tranlam on 2025-05-31; Database: WA_MPL_EASTERNUS_Defn

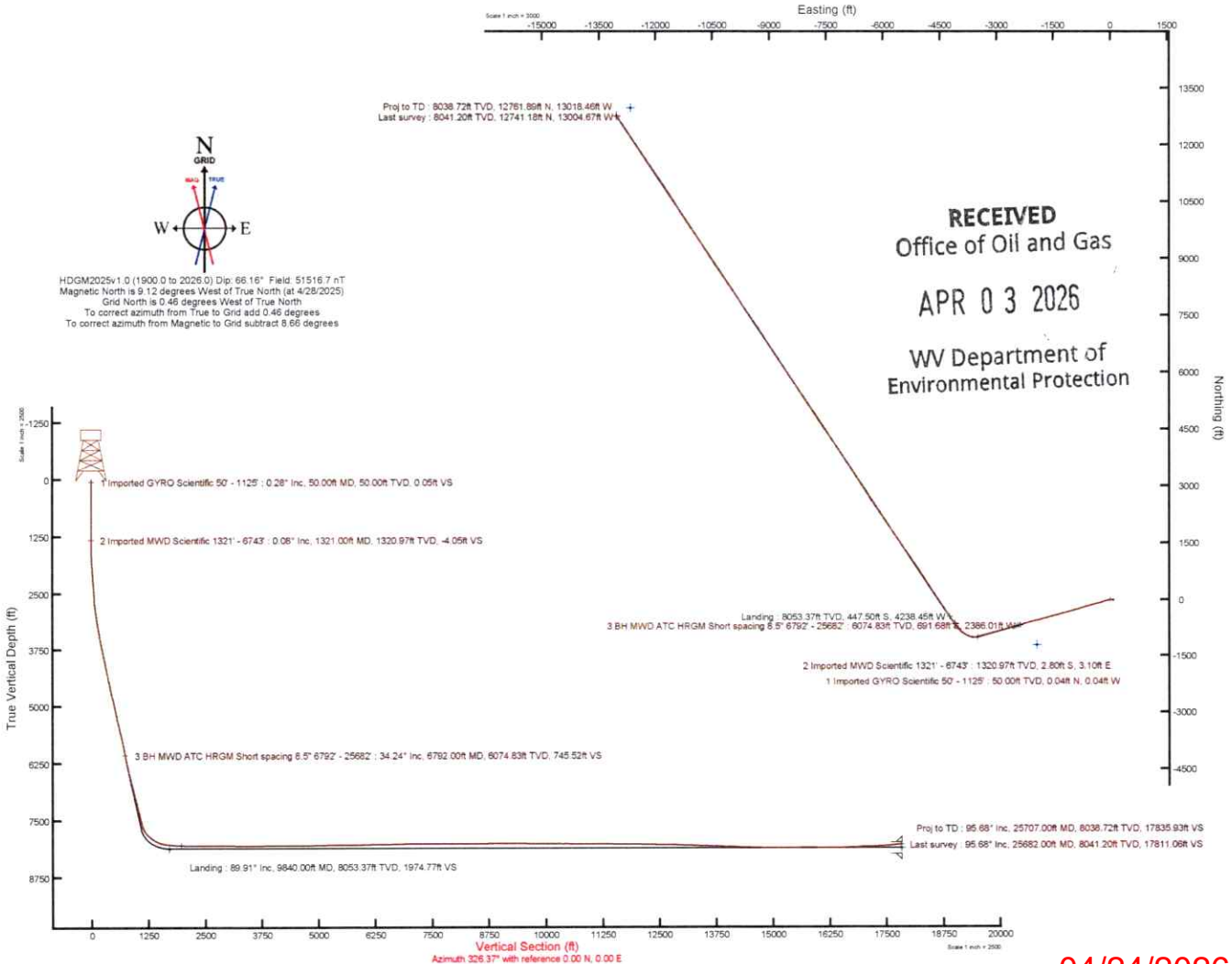
Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Bunner Pad			1766458.500	424248.370	39°39'45.2443"N	80°13'3.6735"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
15H	0.23	-63.17	1766395.330	424248.600	39°39'45.2416"N	80°13'4.4813"W
Patterson 873 (KB) to Ground level (At Slot: 15H)					28.5ft	
Mean Sea Level to Ground level (At Slot: 15H)					-1277ft	
Patterson 873 (KB) to Mean Sea Level					1305.5ft	

Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
25707.00	95.680	326.360	8038.72	12761.89	-13018.46	1753377.67	437009.71	39°41'50.2999"N	80°15'52.3300"W

API: 47-061-01966
 BH JOB: 112684794
 DURATION: 5/17/2025 - 5/26/2025
 RIG: Patterson 873



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04/24/2026



Actual Wellpath Report

Bunner 15H awp Proj: 25707'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 15H
Field	Monongalia	API	47-061-01966
Facility	Bunner Pad	Wellbore	Bunner 15H AWB
Slot	15H		

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	5/31/2025 at 10:50:04 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	0.23	-63.17	1766395.33	424248.60	39°39'45.2416"N	80°13'4.4813"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 (15H)	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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Bunner 15H awp Proj: 25707'

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REFERENCE WELLPATH IDENTIFICATION			
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Field	Monongalia	API	47-061-01966
Facility	Bunner Pad	Wellbore	Bunner 15H AWB
Slot	15H		

WELLPATH DATA (335 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	315.540	0.00	0.00	0.00	0.00	1766395.33	424248.60	39°39'45.2416"N	80°13'4.4813"W	0.00	0.000	0.00
28.50	0.000	315.540	28.50	0.00	0.00	0.00	1766395.33	424248.60	39°39'45.2416"N	80°13'4.4813"W	0.00	0.000	0.00
53.50	0.330	315.540	53.50	0.07	0.05	-0.05	1766395.28	424248.65	39°39'45.2421"N	80°13'4.4820"W	0.07	315.540	1.32
103.50	0.280	348.890	103.50	0.32	0.27	-0.17	1766395.16	424248.87	39°39'45.2443"N	80°13'4.4836"W	0.33	327.465	0.36
153.50	0.290	351.390	153.50	0.55	0.52	-0.22	1766395.11	424249.12	39°39'45.2467"N	80°13'4.4841"W	0.56	337.282	0.03
203.50	0.200	63.390	203.50	0.66	0.68	-0.16	1766395.17	424249.28	39°39'45.2484"N	80°13'4.4834"W	0.70	346.961	0.59
253.50	0.260	80.860	253.50	0.60	0.74	0.03	1766395.36	424249.34	39°39'45.2489"N	80°13'4.4810"W	0.74	2.460	0.18
303.50	0.320	71.560	303.50	0.52	0.80	0.28	1766395.61	424249.40	39°39'45.2496"N	80°13'4.4779"W	0.85	18.996	0.15
353.50	0.330	81.130	353.50	0.42	0.87	0.55	1766395.88	424249.47	39°39'45.2503"N	80°13'4.4744"W	1.03	32.380	0.11
403.50	0.440	94.300	403.50	0.24	0.88	0.88	1766396.21	424249.48	39°39'45.2504"N	80°13'4.4701"W	1.25	45.260	0.28
453.50	0.520	101.110	453.49	-0.04	0.82	1.30	1766396.63	424249.42	39°39'45.2498"N	80°13'4.4648"W	1.54	57.778	0.20
503.50	0.490	103.920	503.49	-0.36	0.72	1.73	1766397.06	424249.32	39°39'45.2489"N	80°13'4.4593"W	1.87	67.294	0.08
553.50	0.610	152.670	553.49	-0.78	0.44	2.06	1766397.39	424249.04	39°39'45.2461"N	80°13'4.4550"W	2.10	78.054	0.93
603.50	0.600	177.540	603.49	-1.27	-0.06	2.19	1766397.52	424248.54	39°39'45.2412"N	80°13'4.4533"W	2.19	91.632	0.52
653.50	0.330	294.700	653.49	-1.37	-0.26	2.07	1766397.40	424248.34	39°39'45.2392"N	80°13'4.4548"W	2.09	97.255	1.61
703.50	0.070	348.300	703.49	-1.22	-0.17	1.94	1766397.27	424248.43	39°39'45.2401"N	80°13'4.4565"W	1.94	95.130	0.59
753.50	0.400	86.300	753.49	-1.28	-0.13	2.10	1766397.43	424248.47	39°39'45.2405"N	80°13'4.4544"W	2.11	93.607	0.83
803.50	0.600	120.020	803.48	-1.60	-0.25	2.50	1766397.83	424248.35	39°39'45.2393"N	80°13'4.4493"W	2.52	95.753	0.69
853.50	0.550	148.850	853.48	-2.07	-0.59	2.86	1766398.18	424248.01	39°39'45.2360"N	80°13'4.4447"W	2.92	101.650	0.58
903.50	0.430	175.220	903.48	-2.48	-0.98	2.99	1766398.32	424247.62	39°39'45.2322"N	80°13'4.4429"W	3.15	108.137	0.50
953.50	0.390	193.230	953.48	-2.76	-1.33	2.97	1766398.30	424247.27	39°39'45.2287"N	80°13'4.4432"W	3.26	114.170	0.27
1003.50	0.580	172.890	1003.48	-3.10	-1.75	2.96	1766398.29	424246.85	39°39'45.2246"N	80°13'4.4432"W	3.44	120.564	0.51
1053.50	0.600	124.210	1053.47	-3.57	-2.15	3.21	1766398.54	424246.45	39°39'45.2206"N	80°13'4.4400"W	3.86	123.783	0.97
1103.50	0.460	130.910	1103.47	-4.00	-2.43	3.58	1766398.91	424246.17	39°39'45.2179"N	80°13'4.4353"W	4.33	124.139	0.31
1128.50	0.280	231.880	1128.47	-4.11	-2.53	3.61	1766398.94	424246.07	39°39'45.2169"N	80°13'4.4349"W	4.41	125.049	2.33
1324.50	0.080	282.270	1324.47	-4.04	-2.80	3.10	1766398.43	424245.80	39°39'45.2142"N	80°13'4.4414"W	4.17	132.087	0.12
1355.50	0.220	245.090	1355.47	-4.02	-2.82	3.02	1766398.35	424245.78	39°39'45.2140"N	80°13'4.4424"W	4.13	132.996	0.53
1387.50	0.410	245.990	1387.47	-3.99	-2.89	2.86	1766398.19	424245.71	39°39'45.2133"N	80°13'4.4444"W	4.07	135.283	0.59
1418.50	0.690	259.590	1418.47	-3.90	-2.97	2.58	1766397.91	424245.63	39°39'45.2125"N	80°13'4.4481"W	3.93	139.045	0.99
1449.50	0.980	257.450	1449.46	-3.73	-3.06	2.13	1766397.46	424245.54	39°39'45.2115"N	80°13'4.4537"W	3.73	145.105	0.94

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Actual Wellpath Report

Bunner 15H awp Proj: 25707'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 15H
Field	Monongalia	API	47-061-01966
Facility	Bunner Pad	Wellbore	Bunner 15H AWB
Slot	15H		

WELLPATH DATA (335 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]
1480.50	1.640	255.400	1480.46	-3.49	-3.23	1.45	1766396.78	424245.37	39°39'45.2098"N	80°13'4.4625"W	3.54	155.874	2.13
1511.50	2.120	255.080	1511.44	-3.16	-3.49	0.46	1766395.79	424245.11	39°39'45.2072"N	80°13'4.4750"W	3.52	172.438	1.55
1542.50	2.870	256.010	1542.41	-2.72	-3.82	-0.84	1766394.49	424244.78	39°39'45.2038"N	80°13'4.4917"W	3.92	192.443	2.42
1573.50	3.640	254.940	1573.36	-2.14	-4.27	-2.55	1766392.78	424244.33	39°39'45.1992"N	80°13'4.5134"W	4.97	210.831	2.49
1604.50	4.340	253.290	1604.28	-1.49	-4.86	-4.62	1766390.71	424243.74	39°39'45.1932"N	80°13'4.5399"W	6.71	223.551	2.29
1635.50	5.190	253.170	1635.18	-0.74	-5.60	-7.09	1766388.24	424243.00	39°39'45.1857"N	80°13'4.5714"W	9.03	231.663	2.74
1666.50	6.070	253.230	1666.03	0.14	-6.48	-10.00	1766385.33	424242.12	39°39'45.1768"N	80°13'4.6085"W	11.92	237.039	2.84
1697.50	6.730	253.000	1696.83	1.13	-7.49	-13.30	1766382.03	424241.11	39°39'45.1666"N	80°13'4.6507"W	15.27	240.632	2.13
1729.50	7.600	255.720	1728.58	2.37	-8.56	-17.15	1766378.18	424240.04	39°39'45.1557"N	80°13'4.6997"W	19.16	243.480	2.92
1760.50	8.040	255.650	1759.30	3.77	-9.60	-21.24	1766374.10	424239.00	39°39'45.1451"N	80°13'4.7519"W	23.30	245.673	1.42
1791.50	8.880	255.900	1789.96	5.28	-10.72	-25.66	1766369.68	424237.88	39°39'45.1337"N	80°13'4.8083"W	27.81	247.323	2.71
1822.50	9.630	256.530	1820.55	6.98	-11.91	-30.50	1766364.83	424236.69	39°39'45.1215"N	80°13'4.8701"W	32.74	248.673	2.44
1853.50	10.310	256.570	1851.09	8.83	-13.16	-35.72	1766359.61	424235.45	39°39'45.1088"N	80°13'4.9367"W	38.06	249.781	2.19
1884.50	10.930	256.090	1881.55	10.78	-14.51	-41.27	1766354.06	424234.09	39°39'45.0950"N	80°13'5.0075"W	43.74	250.633	2.02
1915.50	11.450	255.620	1911.97	12.78	-15.98	-47.10	1766348.23	424232.62	39°39'45.0800"N	80°13'5.0820"W	49.74	251.263	1.70
1946.50	11.970	255.940	1942.32	14.88	-17.52	-53.20	1766342.13	424231.08	39°39'45.0643"N	80°13'5.1598"W	56.01	251.770	1.69
1978.50	12.470	255.290	1973.59	17.11	-19.21	-59.76	1766335.57	424229.40	39°39'45.0471"N	80°13'5.2435"W	62.77	252.184	1.62
2009.50	13.010	254.450	2003.83	19.27	-20.99	-66.36	1766328.97	424227.61	39°39'45.0289"N	80°13'5.3277"W	69.60	252.447	1.84
2040.50	13.540	253.590	2034.00	21.43	-22.95	-73.20	1766322.13	424225.65	39°39'45.0090"N	80°13'5.4150"W	76.72	252.592	1.82
2071.50	13.980	253.310	2064.11	23.60	-25.05	-80.27	1766315.06	424223.55	39°39'44.9877"N	80°13'5.5052"W	84.09	252.667	1.44
2102.50	14.360	253.140	2094.17	25.80	-27.24	-87.54	1766307.80	424221.36	39°39'44.9655"N	80°13'5.5978"W	91.68	252.713	1.23
2133.50	14.290	252.510	2124.21	27.97	-29.51	-94.87	1766300.47	424219.09	39°39'44.9425"N	80°13'5.6913"W	99.35	252.722	0.55
2164.50	14.380	252.900	2154.24	30.13	-31.79	-102.19	1766293.14	424216.81	39°39'44.9194"N	80°13'5.7848"W	107.02	252.721	0.43
2195.50	14.600	253.330	2184.26	32.36	-34.04	-109.62	1766285.72	424214.56	39°39'44.8965"N	80°13'5.8794"W	114.78	252.748	0.79
2227.50	14.820	253.340	2215.21	34.74	-36.37	-117.40	1766277.94	424212.23	39°39'44.8729"N	80°13'5.9787"W	122.91	252.786	0.69
2258.50	14.970	253.880	2245.16	37.10	-38.62	-125.05	1766270.29	424209.98	39°39'44.8501"N	80°13'6.0763"W	130.87	252.837	0.66
2289.50	15.250	253.940	2275.09	39.53	-40.86	-132.81	1766262.53	424207.74	39°39'44.8273"N	80°13'6.1753"W	138.95	252.899	0.90
2321.50	15.550	253.800	2305.94	42.09	-43.22	-140.97	1766254.37	424205.38	39°39'44.8034"N	80°13'6.2794"W	147.45	252.955	0.94
2352.50	15.840	254.560	2335.79	44.65	-45.51	-149.04	1766246.30	424203.10	39°39'44.7801"N	80°13'6.3824"W	155.83	253.021	1.15
2383.50	16.020	254.710	2365.60	47.32	-47.76	-157.25	1766238.09	424200.84	39°39'44.7572"N	80°13'6.4870"W	164.34	253.105	0.60

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Actual Wellpath Report

Bunner 15H awp Proj: 25707'

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REFERENCE WELLPATH IDENTIFICATION			
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Field	Monongalia	API	47-061-01966
Facility	Bunner Pad	Wellbore	Bunner 15H AWB
Slot	15H		

WELLPATH DATA (335 stations)													
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2414.50	15.740	254.630	2395.41	49.98	-50.00	-165.43	1766229.91	424198.60	39°39'44.7344"N	80°13'6.5914"W	172.82	253.182	0.91
2445.50	15.600	253.790	2425.26	52.55	-52.28	-173.48	1766221.86	424196.32	39°39'44.7112"N	80°13'6.6942"W	181.19	253.229	0.86
2476.50	14.820	252.070	2455.18	54.87	-54.67	-181.26	1766214.08	424193.94	39°39'44.6871"N	80°13'6.7934"W	189.32	253.217	2.91
2507.50	14.560	250.420	2485.16	56.89	-57.19	-188.70	1766206.64	424191.41	39°39'44.6615"N	80°13'6.8883"W	197.18	253.139	1.59
2538.50	14.570	248.510	2515.17	58.65	-59.93	-196.00	1766199.34	424188.68	39°39'44.6339"N	80°13'6.9813"W	204.96	252.999	1.55
2602.50	15.010	246.940	2577.05	61.87	-66.12	-211.12	1766184.23	424182.48	39°39'44.5715"N	80°13'7.1740"W	221.23	252.609	0.93
2634.50	14.630	243.380	2607.98	63.12	-69.56	-218.54	1766176.80	424179.05	39°39'44.5370"N	80°13'7.2686"W	229.34	252.345	3.08
2665.50	14.610	243.280	2637.98	64.07	-73.07	-225.53	1766169.81	424175.54	39°39'44.5017"N	80°13'7.3576"W	237.07	252.049	0.10
2696.50	15.310	247.720	2667.93	65.34	-76.38	-232.81	1766162.53	424172.23	39°39'44.4684"N	80°13'7.4504"W	245.02	251.837	4.33
2727.50	16.080	252.670	2697.77	67.36	-79.21	-240.70	1766154.65	424169.40	39°39'44.4398"N	80°13'7.5509"W	253.40	251.785	4.98
2758.50	16.770	256.440	2727.51	70.09	-81.54	-249.15	1766146.20	424167.07	39°39'44.4162"N	80°13'7.6587"W	262.15	251.879	4.10
2789.50	17.160	257.630	2757.16	73.29	-83.56	-257.96	1766137.39	424165.04	39°39'44.3954"N	80°13'7.7712"W	271.16	252.051	1.68
2820.50	18.010	257.470	2786.71	76.67	-85.58	-267.11	1766128.24	424163.02	39°39'44.3747"N	80°13'7.8879"W	280.48	252.234	2.75
2851.50	19.260	257.470	2816.09	80.24	-87.73	-276.78	1766118.57	424160.87	39°39'44.3527"N	80°13'8.0113"W	290.35	252.412	4.03
2882.50	20.230	257.020	2845.26	83.97	-90.05	-286.99	1766108.36	424158.56	39°39'44.3291"N	80°13'8.1417"W	300.78	252.580	3.17
2913.50	20.460	256.480	2874.33	87.72	-92.52	-297.48	1766097.87	424156.09	39°39'44.3038"N	80°13'8.2756"W	311.53	252.724	0.96
2944.50	21.480	256.250	2903.28	91.51	-95.13	-308.26	1766087.09	424153.47	39°39'44.2771"N	80°13'8.4132"W	322.61	252.849	3.30
2976.50	21.890	255.930	2933.01	95.50	-97.97	-319.74	1766075.61	424150.63	39°39'44.2481"N	80°13'8.5596"W	334.41	252.964	1.33
3007.50	22.940	256.030	2961.67	99.47	-100.84	-331.21	1766064.14	424147.77	39°39'44.2189"N	80°13'8.7060"W	346.22	253.067	3.39
3038.50	23.150	255.700	2990.19	103.52	-103.80	-342.97	1766052.38	424144.81	39°39'44.1887"N	80°13'8.8561"W	358.34	253.162	0.80
3069.50	23.110	254.920	3018.70	107.47	-106.89	-354.75	1766040.60	424141.72	39°39'44.1572"N	80°13'9.0064"W	370.51	253.232	1.00
3100.50	23.860	254.220	3047.13	111.33	-110.18	-366.66	1766028.69	424138.43	39°39'44.1238"N	80°13'9.1584"W	382.86	253.275	2.58
3131.50	24.040	254.010	3075.47	115.17	-113.62	-378.77	1766016.59	424134.99	39°39'44.0888"N	80°13'9.3128"W	395.44	253.302	0.64
3162.50	24.610	254.180	3103.71	119.05	-117.12	-391.05	1766004.31	424131.49	39°39'44.0533"N	80°13'9.4694"W	408.21	253.327	1.85
3193.50	24.700	254.040	3131.89	122.99	-120.66	-403.48	1765991.87	424127.95	39°39'44.0173"N	80°13'9.6281"W	421.14	253.351	0.35
3224.50	24.880	255.350	3160.03	127.08	-124.09	-416.02	1765979.34	424124.52	39°39'43.9824"N	80°13'9.7880"W	434.13	253.391	1.86
3255.50	24.900	255.710	3188.15	131.36	-127.35	-428.65	1765966.70	424121.26	39°39'43.9492"N	80°13'9.9492"W	447.17	253.453	0.49
3286.50	25.650	256.000	3216.18	135.78	-130.59	-441.49	1765953.87	424118.02	39°39'43.9162"N	80°13'10.1130"W	460.40	253.523	2.45
3317.50	26.620	255.690	3244.01	140.33	-133.93	-454.73	1765940.63	424114.68	39°39'43.8821"N	80°13'10.2820"W	474.04	253.589	3.16
3348.50	27.840	255.310	3271.58	144.98	-137.48	-468.46	1765926.90	424111.13	39°39'43.8459"N	80°13'10.4572"W	488.22	253.645	3.98

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Actual Wellpath Report

Bunner 15H awp Proj: 25707'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 15H
Field	Monongalia	API	47-061-01966
Facility	Bunner Pad	Wellbore	Bunner 15H AWB
Slot	15H		

WELLPATH DATA (335 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]
3382.50	28.900	254.780	3301.49	150.15	-141.65	-484.07	1765911.29	424106.96	39°39'43.8035"N	80°13'10.6563"W	504.37	253.689	3.20
3413.50	29.210	253.700	3328.59	154.77	-145.74	-498.56	1765896.80	424102.87	39°39'43.7619"N	80°13'10.8412"W	519.42	253.705	1.97
3444.50	29.240	253.310	3355.65	159.23	-150.04	-513.07	1765882.29	424098.57	39°39'43.7183"N	80°13'11.0263"W	534.56	253.700	0.62
3475.50	29.640	252.780	3382.64	163.60	-154.48	-527.64	1765867.72	424094.13	39°39'43.6732"N	80°13'11.2122"W	549.79	253.681	1.54
3506.50	29.660	252.370	3409.59	167.88	-159.07	-542.27	1765853.09	424089.54	39°39'43.6267"N	80°13'11.3988"W	565.12	253.651	0.66
3537.50	30.330	252.610	3436.43	172.18	-163.73	-557.05	1765838.31	424084.88	39°39'43.5795"N	80°13'11.5873"W	580.62	253.620	2.20
3568.50	30.470	254.300	3463.17	176.79	-168.20	-572.09	1765823.27	424080.41	39°39'43.5341"N	80°13'11.7791"W	596.30	253.616	2.80
3599.50	30.430	255.420	3489.90	181.77	-172.30	-587.25	1765808.11	424076.31	39°39'43.4924"N	80°13'11.9726"W	612.01	253.648	1.84
3630.50	31.130	255.620	3516.53	186.98	-176.27	-602.61	1765792.75	424072.34	39°39'43.4520"N	80°13'12.1686"W	627.87	253.695	2.28
3661.50	31.840	255.100	3542.96	192.24	-180.36	-618.28	1765777.09	424068.25	39°39'43.4103"N	80°13'12.3685"W	644.05	253.737	2.45
3692.50	32.600	254.490	3569.19	197.47	-184.70	-634.23	1765761.14	424063.91	39°39'43.3662"N	80°13'12.5720"W	660.57	253.764	2.67
3724.50	33.570	253.550	3596.00	202.76	-189.51	-651.02	1765744.35	424059.10	39°39'43.3173"N	80°13'12.7862"W	678.04	253.770	3.43
3755.50	34.600	252.720	3621.68	207.77	-194.55	-667.65	1765727.73	424054.06	39°39'43.2661"N	80°13'12.9982"W	695.41	253.754	3.65
3848.50	35.920	251.720	3697.61	222.43	-210.95	-718.76	1765676.61	424037.66	39°39'43.1000"N	80°13'13.6502"W	749.08	253.643	1.55
3942.50	35.680	253.310	3773.86	237.71	-227.47	-771.20	1765624.17	424021.14	39°39'42.9326"N	80°13'14.3190"W	804.05	253.566	1.02
4035.50	37.080	254.420	3848.73	254.30	-242.79	-824.19	1765571.19	424005.82	39°39'42.7770"N	80°13'14.9950"W	859.21	253.586	1.66
4128.50	37.230	252.510	3922.85	270.81	-258.78	-878.03	1765517.35	423989.84	39°39'42.6147"N	80°13'15.6817"W	915.37	253.578	1.25
4221.50	35.860	252.320	3997.57	286.12	-275.51	-930.82	1765464.56	423973.11	39°39'42.4452"N	80°13'16.3550"W	970.74	253.512	1.48
4315.50	36.420	252.080	4073.48	301.24	-292.46	-983.61	1765411.78	423956.16	39°39'42.2735"N	80°13'17.0282"W	1026.16	253.441	0.61
4410.50	35.660	252.170	4150.30	316.42	-309.61	-1036.80	1765358.59	423939.01	39°39'42.0998"N	80°13'17.7066"W	1082.04	253.373	0.80
4503.50	36.310	255.030	4225.55	332.61	-325.03	-1089.21	1765306.19	423923.59	39°39'41.9433"N	80°13'18.3751"W	1136.67	253.385	1.94
4596.50	36.840	254.920	4300.24	350.29	-339.39	-1142.73	1765252.67	423909.23	39°39'41.7970"N	80°13'19.0580"W	1192.07	253.459	0.57
4689.50	35.950	255.170	4375.10	367.96	-353.63	-1196.04	1765199.36	423894.99	39°39'41.6521"N	80°13'19.7382"W	1247.23	253.529	0.97
4783.50	36.080	255.270	4451.13	385.81	-367.73	-1249.49	1765145.92	423880.89	39°39'41.5085"N	80°13'20.4201"W	1302.48	253.600	0.15
4876.50	35.280	253.750	4526.68	402.71	-382.21	-1301.76	1765093.65	423866.41	39°39'41.3612"N	80°13'21.0869"W	1356.71	253.637	1.28
4969.50	34.780	252.120	4602.83	417.93	-397.87	-1352.79	1765042.63	423850.75	39°39'41.2024"N	80°13'21.7378"W	1410.08	253.611	1.14
5063.50	35.370	254.830	4679.76	433.82	-413.22	-1404.56	1764990.85	423835.40	39°39'41.0466"N	80°13'22.3983"W	1464.09	253.606	1.77
5156.50	35.910	256.030	4755.35	451.52	-426.85	-1457.01	1764938.41	423821.77	39°39'40.9077"N	80°13'23.0674"W	1518.25	253.671	0.95
5250.50	36.510	256.270	4831.19	470.31	-440.14	-1510.93	1764884.50	423808.48	39°39'40.7721"N	80°13'23.7555"W	1573.73	253.759	0.66
5343.50	37.100	254.490	4905.65	488.46	-454.21	-1564.83	1764830.60	423794.42	39°39'40.6288"N	80°13'24.4433"W	1629.42	253.814	1.31

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Actual Wellpath Report

Bunner 15H awp Proj: 25707'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 15H
Field	Monongalia	API	47-061-01966
Facility	Bunner Pad	Wellbore	Bunner 15H AWB
Slot	15H		

WELLPATH DATA (335 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]
5443.50	36.360	252.870	4985.80	506.26	-471.01	-1622.22	1764773.21	423777.62	39°39'40.4582"N	80°13'25.1754"W	1689.22	253.809	1.22
5530.50	35.810	252.990	5056.11	520.86	-486.05	-1671.21	1764724.23	423762.58	39°39'40.3057"N	80°13'25.8001"W	1740.45	253.784	0.64
5624.50	36.440	253.290	5132.04	536.85	-502.12	-1724.24	1764671.19	423746.51	39°39'40.1426"N	80°13'26.4766"W	1795.87	253.764	0.70
5717.50	35.080	253.270	5207.50	552.66	-517.76	-1776.29	1764619.15	423730.87	39°39'39.9840"N	80°13'27.1405"W	1850.21	253.750	1.46
5813.50	35.690	253.810	5285.77	569.07	-533.51	-1829.60	1764565.84	423715.13	39°39'39.8241"N	80°13'27.8205"W	1905.80	253.743	0.71
5906.50	36.260	254.930	5361.03	585.96	-548.22	-1882.21	1764513.23	423700.41	39°39'39.6744"N	80°13'28.4917"W	1960.43	253.761	0.94
6000.50	36.950	255.280	5436.49	603.96	-562.63	-1936.38	1764459.07	423686.01	39°39'39.5278"N	80°13'29.1828"W	2016.46	253.798	0.77
6093.50	36.880	255.690	5510.85	622.25	-576.63	-1990.46	1764404.99	423672.01	39°39'39.3851"N	80°13'29.8728"W	2072.30	253.844	0.28
6186.50	36.660	255.860	5585.34	640.75	-590.31	-2044.42	1764351.03	423658.33	39°39'39.2456"N	80°13'30.5614"W	2127.94	253.894	0.26
6279.50	35.910	254.180	5660.31	658.35	-604.53	-2097.58	1764297.87	423644.11	39°39'39.1008"N	80°13'31.2397"W	2182.96	253.923	1.34
6373.50	36.110	253.300	5736.35	674.85	-620.00	-2150.64	1764244.82	423628.64	39°39'38.9437"N	80°13'31.9164"W	2238.22	253.918	0.59
6466.50	35.780	254.130	5811.64	691.12	-635.31	-2203.04	1764192.43	423613.33	39°39'38.7882"N	80°13'32.5848"W	2292.81	253.914	0.63
6560.50	36.720	253.640	5887.45	707.85	-650.74	-2256.43	1764139.03	423597.90	39°39'38.6314"N	80°13'33.2660"W	2348.40	253.913	1.05
6653.50	36.750	252.150	5961.98	723.67	-667.10	-2309.60	1764085.88	423581.54	39°39'38.4655"N	80°13'33.9440"W	2404.01	253.889	0.96
6746.50	34.920	252.230	6037.37	738.51	-683.75	-2361.43	1764034.04	423564.89	39°39'38.2968"N	80°13'34.6051"W	2458.43	253.852	1.97
6792.00	34.240	252.000	6074.83	745.52	-691.68	-2386.01	1764009.47	423556.96	39°39'38.2165"N	80°13'34.9185"W	2484.24	253.834	1.52
6887.00	33.990	253.000	6153.49	760.32	-707.71	-2436.82	1763958.66	423540.94	39°39'38.0541"N	80°13'35.5665"W	2537.51	253.806	0.65
6982.00	34.790	251.500	6231.88	774.99	-724.07	-2487.92	1763907.56	423524.57	39°39'37.8882"N	80°13'36.2182"W	2591.14	253.773	1.23
7077.00	38.170	254.620	6308.26	791.27	-740.46	-2541.94	1763853.54	423508.18	39°39'37.7219"N	80°13'36.9073"W	2647.59	253.759	4.06
7173.00	38.850	254.710	6383.38	810.03	-756.27	-2599.59	1763795.90	423492.38	39°39'37.5611"N	80°13'37.6427"W	2707.36	253.779	0.71
7268.00	38.780	254.490	6457.40	828.66	-772.08	-2657.00	1763738.49	423476.57	39°39'37.4002"N	80°13'38.3751"W	2766.90	253.797	0.16
7363.00	38.890	254.760	6531.40	847.32	-787.88	-2714.44	1763681.06	423460.77	39°39'37.2396"N	80°13'39.1079"W	2826.47	253.814	0.21
7458.00	38.890	254.450	6605.35	865.98	-803.71	-2771.94	1763623.56	423444.94	39°39'37.0785"N	80°13'39.8415"W	2886.11	253.831	0.20
7554.00	38.860	254.440	6680.09	884.68	-819.87	-2829.99	1763565.52	423428.78	39°39'36.9142"N	80°13'40.5820"W	2946.35	253.843	0.03
7650.00	38.870	254.440	6754.83	903.36	-836.03	-2888.02	1763507.49	423412.62	39°39'36.7498"N	80°13'41.3223"W	3006.59	253.855	0.01
7745.00	38.900	254.680	6828.78	921.98	-851.90	-2945.50	1763450.01	423396.75	39°39'36.5883"N	80°13'42.0557"W	3066.22	253.869	0.16
7841.00	38.740	254.470	6903.58	940.78	-867.91	-3003.51	1763392.00	423380.74	39°39'36.4255"N	80°13'42.7958"W	3126.40	253.883	0.22
7936.00	38.930	254.700	6977.58	959.40	-883.74	-3060.94	1763334.57	423364.91	39°39'36.2644"N	80°13'43.5284"W	3185.97	253.896	0.25
8032.00	38.780	254.610	7052.34	978.30	-899.68	-3119.02	1763276.50	423348.97	39°39'36.1022"N	80°13'44.2693"W	3246.19	253.910	0.17
8127.00	38.800	254.610	7126.39	996.93	-915.48	-3176.40	1763219.12	423333.18	39°39'35.9415"N	80°13'45.0014"W	3305.70	253.922	0.02

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Actual Wellpath Report

Bunner 15H awp Proj: 25707'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 15H
Field	Monongalia	API	47-061-01966
Facility	Bunner Pad	Wellbore	Bunner 15H AWB
Slot	15H		

WELLPATH DATA (335 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]
8318.00	38.870	254.460	7275.17	1034.26	-947.41	-3291.84	1763103.69	423301.24	39°39'35.6166"N	80°13'46.4740"W	3425.46	253.944	0.06
8413.00	38.920	254.630	7349.10	1052.87	-963.31	-3349.33	1763046.20	423285.35	39°39'35.4549"N	80°13'47.2075"W	3485.11	253.954	0.12
8508.00	38.830	254.470	7423.06	1071.47	-979.19	-3406.80	1762988.74	423269.47	39°39'35.2934"N	80°13'47.9406"W	3544.73	253.964	0.14
8603.00	38.460	254.930	7497.26	1090.13	-994.85	-3464.02	1762931.52	423253.81	39°39'35.1340"N	80°13'48.6707"W	3604.05	253.976	0.49
8699.00	33.720	254.730	7574.82	1108.04	-1009.64	-3518.59	1762876.96	423239.02	39°39'34.9835"N	80°13'49.3668"W	3660.58	253.990	4.94
8794.00	37.360	268.940	7652.24	1131.91	-1017.13	-3572.96	1762822.59	423231.53	39°39'34.9051"N	80°13'50.0612"W	3714.91	254.110	9.48
8889.00	42.910	278.670	7724.91	1169.26	-1012.78	-3633.86	1762761.70	423235.88	39°39'34.9432"N	80°13'50.8403"W	3772.35	254.426	8.80
8985.00	46.820	285.590	7792.98	1217.80	-998.43	-3699.94	1762695.61	423250.23	39°39'35.0797"N	80°13'51.6867"W	3832.29	254.898	6.51
9079.00	51.310	296.020	7854.65	1275.53	-973.08	-3766.06	1762629.50	423275.58	39°39'35.3249"N	80°13'52.5347"W	3889.74	255.513	9.64
9174.00	58.820	302.270	7909.05	1344.77	-935.03	-3833.88	1762561.68	423313.62	39°39'35.6954"N	80°13'53.4059"W	3946.26	256.294	9.56
9269.00	62.980	307.320	7955.27	1421.94	-887.64	-3901.96	1762493.61	423361.02	39°39'36.1583"N	80°13'54.2812"W	4001.65	257.184	6.38
9364.00	70.450	313.700	7992.83	1505.80	-830.93	-3968.12	1762427.45	423417.72	39°39'36.7134"N	80°13'55.1331"W	4054.19	258.173	9.99
9459.00	78.670	320.330	8018.12	1596.03	-763.97	-4030.39	1762365.19	423484.68	39°39'37.3701"N	80°13'55.9362"W	4102.15	259.267	10.96
9554.00	84.080	327.150	8032.38	1689.77	-688.29	-4085.85	1762309.73	423560.36	39°39'38.1136"N	80°13'56.6533"W	4143.42	260.438	9.10
9650.00	83.930	327.690	8042.41	1785.23	-607.84	-4137.26	1762258.32	423640.80	39°39'38.9046"N	80°13'57.3190"W	4181.67	261.642	0.58
9745.00	86.460	327.840	8050.36	1879.86	-527.77	-4187.75	1762207.83	423720.87	39°39'39.6918"N	80°13'57.9729"W	4220.88	262.817	2.67
9840.00	89.910	327.610	8053.37	1974.77	-447.50	-4238.45	1762157.14	423801.13	39°39'40.4810"N	80°13'58.6295"W	4262.01	263.973	3.64
9935.00	88.950	327.710	8054.32	2069.74	-367.24	-4289.26	1762106.33	423881.38	39°39'41.2700"N	80°13'59.2876"W	4304.96	265.106	1.02
10031.00	88.920	327.510	8056.10	2165.70	-286.19	-4340.68	1762054.91	423962.43	39°39'42.0669"N	80°13'59.9535"W	4350.10	266.228	0.21
10126.00	90.430	327.340	8056.64	2260.68	-206.14	-4391.83	1762003.77	424042.48	39°39'42.8539"N	80°14'0.6159"W	4396.66	267.313	1.60
10221.00	90.370	326.340	8055.98	2355.67	-126.61	-4443.79	1761951.81	424122.00	39°39'43.6356"N	80°14'1.2885"W	4445.59	268.368	1.05
10316.00	90.120	326.770	8055.57	2450.67	-47.34	-4496.14	1761899.46	424201.26	39°39'44.4147"N	80°14'1.9663"W	4496.39	269.397	0.52
10412.00	89.690	326.140	8055.73	2546.67	32.67	-4549.19	1761846.41	424281.27	39°39'45.2012"N	80°14'2.6530"W	4549.31	270.411	0.79
10507.00	89.480	326.720	8056.42	2641.67	111.82	-4601.72	1761793.89	424360.42	39°39'45.9792"N	80°14'3.3329"W	4603.08	271.392	0.65
10602.00	89.540	326.560	8057.23	2736.66	191.17	-4653.96	1761741.65	424439.75	39°39'46.7591"N	80°14'4.0091"W	4657.89	272.352	0.18
10698.00	89.510	327.630	8058.03	2832.65	271.76	-4706.11	1761689.51	424520.34	39°39'47.5513"N	80°14'4.6844"W	4713.95	273.305	1.11
10793.00	89.380	326.630	8058.95	2927.64	351.55	-4757.67	1761637.95	424600.13	39°39'48.3357"N	80°14'5.3519"W	4770.64	274.226	1.06
10889.00	88.830	326.420	8060.45	3023.62	431.61	-4810.61	1761585.01	424680.19	39°39'49.1226"N	80°14'6.0373"W	4829.93	275.127	0.61
10984.00	89.450	328.150	8061.87	3118.60	511.53	-4861.95	1761533.68	424760.10	39°39'49.9083"N	80°14'6.7021"W	4888.78	276.006	1.93
11079.00	89.820	327.940	8062.48	3213.55	592.13	-4912.22	1761483.41	424840.70	39°39'50.7008"N	80°14'7.3534"W	4947.78	276.873	0.45

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Actual Wellpath Report

Bunner 15H awp Proj: 25707'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 15H
Field	Monongalia	API	47-061-01966
Facility	Bunner Pad	Wellbore	Bunner 15H AWB
Slot	15H		

WELLPATH DATA (335 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]
11174.00	88.860	325.040	8063.57	3308.54	671.33	-4964.66	1761430.97	424919.89	39°39'51.4792"N	80°14'8.0322"W	5009.85	277.701	3.22
11270.00	89.750	326.020	8064.74	3404.52	750.47	-5018.99	1761376.65	424999.02	39°39'52.2569"N	80°14'8.7352"W	5074.79	278.504	1.38
11365.00	90.550	326.110	8064.49	3499.51	829.28	-5072.02	1761323.62	425077.83	39°39'53.0315"N	80°14'9.4216"W	5139.37	279.286	0.85
11460.00	90.340	325.630	8063.75	3594.51	907.92	-5125.32	1761270.32	425156.46	39°39'53.8043"N	80°14'10.1113"W	5205.12	280.045	0.55
11555.00	90.430	325.470	8063.11	3689.50	986.26	-5179.06	1761216.58	425234.80	39°39'54.5741"N	80°14'10.8067"W	5272.13	280.782	0.19
11650.00	90.400	325.560	8062.42	3784.48	1064.56	-5232.85	1761162.80	425313.10	39°39'55.3436"N	80°14'11.5027"W	5340.04	281.499	0.10
11746.00	90.060	325.240	8062.04	3880.47	1143.58	-5287.36	1761108.29	425392.11	39°39'56.1201"N	80°14'12.2080"W	5409.62	282.204	0.49
11841.00	90.120	325.590	8061.89	3975.45	1221.79	-5341.29	1761054.37	425470.32	39°39'56.8887"N	80°14'12.9058"W	5479.24	282.884	0.37
11936.00	90.280	325.800	8061.56	4070.45	1300.27	-5394.83	1761000.83	425548.79	39°39'57.6598"N	80°14'13.5986"W	5549.31	283.551	0.28
12032.00	90.400	325.610	8060.99	4166.44	1379.57	-5448.92	1760946.74	425628.09	39°39'58.4392"N	80°14'14.2986"W	5620.85	284.208	0.23
12127.00	90.580	325.990	8060.18	4261.43	1458.14	-5502.31	1760893.35	425706.66	39°39'59.2114"N	80°14'14.9897"W	5692.24	284.843	0.44
12222.00	90.430	325.950	8059.34	4356.42	1536.87	-5555.48	1760840.19	425785.38	39°39'59.9851"N	80°14'15.6777"W	5764.14	285.464	0.16
12317.00	89.600	324.850	8059.31	4451.41	1615.07	-5609.42	1760786.25	425863.57	39°40'0.7535"N	80°14'16.3757"W	5837.30	286.062	1.45
12413.00	90.680	325.460	8059.08	4547.38	1693.85	-5664.27	1760731.41	425942.35	39°40'1.5276"N	80°14'17.0854"W	5912.11	286.649	1.29
12508.00	90.740	325.720	8057.90	4642.37	1772.22	-5717.95	1760677.73	426020.72	39°40'2.2978"N	80°14'17.7801"W	5986.30	287.220	0.28
12604.00	91.050	326.260	8056.40	4738.35	1851.79	-5771.64	1760624.04	426100.28	39°40'3.0797"N	80°14'18.4750"W	6061.43	287.788	0.65
12699.00	90.890	325.780	8054.79	4833.34	1930.56	-5824.73	1760570.96	426179.04	39°40'3.8538"N	80°14'19.1621"W	6136.33	288.337	0.53
12795.00	90.770	326.170	8053.40	4929.33	2010.11	-5878.44	1760517.25	426258.59	39°40'4.6357"N	80°14'19.8573"W	6212.62	288.878	0.43
12890.00	90.740	325.930	8052.15	5024.32	2088.91	-5931.49	1760464.20	426337.38	39°40'5.4101"N	80°14'20.5440"W	6288.57	289.401	0.25
12985.00	90.860	325.710	8050.83	5119.30	2167.50	-5984.86	1760410.84	426415.96	39°40'6.1824"N	80°14'21.2346"W	6365.26	289.909	0.26
13080.00	91.170	325.870	8049.14	5214.28	2246.05	-6038.26	1760357.44	426494.51	39°40'6.9543"N	80°14'21.9258"W	6442.46	290.404	0.37
13176.00	90.460	325.970	8047.78	5310.27	2325.55	-6092.05	1760303.66	426574.01	39°40'7.7356"N	80°14'22.6220"W	6520.83	290.894	0.75
13271.00	90.460	326.140	8047.01	5405.26	2404.36	-6145.09	1760250.61	426652.81	39°40'8.5101"N	80°14'23.3086"W	6598.72	291.369	0.18
13366.00	90.890	326.020	8045.89	5500.26	2483.18	-6198.10	1760197.61	426731.63	39°40'9.2848"N	80°14'23.9948"W	6677.03	291.833	0.47
13461.00	89.480	325.600	8045.59	5595.25	2561.76	-6251.48	1760144.23	426810.21	39°40'10.0570"N	80°14'24.6857"W	6756.01	292.283	1.55
13556.00	90.370	325.480	8045.71	5690.24	2640.09	-6305.24	1760090.48	426888.53	39°40'10.8268"N	80°14'25.3814"W	6835.65	292.720	0.95
13652.00	91.390	326.760	8044.24	5786.22	2719.78	-6358.75	1760036.97	426968.21	39°40'11.6099"N	80°14'26.0740"W	6915.99	293.157	1.70
13747.00	90.580	326.190	8042.61	5881.21	2798.96	-6411.21	1759984.52	427047.39	39°40'12.3882"N	80°14'26.7532"W	6995.55	293.585	1.04
13842.00	91.320	327.000	8041.03	5976.19	2878.26	-6463.50	1759932.22	427126.68	39°40'13.1675"N	80°14'27.4303"W	7075.39	294.004	1.15
13938.00	91.200	327.450	8038.92	6072.16	2958.95	-6515.46	1759880.27	427207.37	39°40'13.9608"N	80°14'28.1032"W	7155.88	294.425	0.49

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Actual Wellpath Report

Bunner 15H awp Proj: 25707'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	NORTHEAST NATURAL ENERGY, LLC		Well	Bunner 15H
Field	Monongalia		API	47-061-01966
Facility	Bunner Pad		Wellbore	Bunner 15H AWB
Slot	15H			

WELLPATH DATA (335 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]
14033.00	90.770	327.070	8037.29	6167.13	3038.85	-6566.83	1759828.90	427287.26	39°40'14.7462"N	80°14'28.7686"W	7235.87	294.833	0.60
14128.00	90.550	326.990	8036.19	6262.12	3118.55	-6618.52	1759777.21	427366.95	39°40'15.5296"N	80°14'29.4381"W	7316.43	295.229	0.25
14224.00	90.950	327.490	8034.93	6358.10	3199.27	-6670.47	1759725.27	427447.67	39°40'16.3231"N	80°14'30.1109"W	7398.00	295.623	0.67
14319.00	91.110	325.630	8033.23	6453.08	3278.53	-6722.81	1759672.93	427526.93	39°40'17.1021"N	80°14'30.7886"W	7479.63	295.997	1.96
14414.00	91.140	325.510	8031.36	6548.05	3356.87	-6776.51	1759619.23	427605.26	39°40'17.8719"N	80°14'31.4836"W	7562.38	296.352	0.13
14510.00	91.660	327.480	8029.02	6644.02	3436.89	-6829.48	1759566.26	427685.28	39°40'18.6584"N	80°14'32.1695"W	7645.52	296.714	2.12
14604.00	90.710	326.330	8027.07	6737.99	3515.62	-6880.80	1759514.95	427764.01	39°40'19.4323"N	80°14'32.8340"W	7726.90	297.064	1.59
14700.00	90.860	327.030	8025.76	6833.98	3595.83	-6933.53	1759462.23	427844.21	39°40'20.2206"N	80°14'33.5168"W	7810.49	297.412	0.75
14795.00	90.890	327.230	8024.31	6928.96	3675.61	-6985.08	1759410.68	427923.99	39°40'21.0049"N	80°14'34.1845"W	7893.13	297.754	0.21
14890.00	90.620	326.770	8023.05	7023.95	3755.28	-7036.82	1759358.94	428003.65	39°40'21.7879"N	80°14'34.8546"W	7976.15	298.087	0.56
14985.00	90.650	325.820	8022.00	7118.94	3834.30	-7089.53	1759306.23	428082.67	39°40'22.5646"N	80°14'35.5371"W	8059.98	298.406	1.00
15080.00	90.280	326.730	8021.23	7213.93	3913.31	-7142.27	1759253.49	428161.67	39°40'23.3411"N	80°14'36.2199"W	8144.08	298.719	1.03
15176.00	90.340	326.520	8020.71	7309.93	3993.48	-7195.08	1759200.69	428241.84	39°40'24.1290"N	80°14'36.9038"W	8229.04	299.032	0.23
15271.00	90.220	326.460	8020.25	7404.93	4072.69	-7247.53	1759148.24	428321.04	39°40'24.9075"N	80°14'37.5829"W	8313.45	299.333	0.14
15367.00	90.000	326.560	8020.06	7500.93	4152.75	-7300.50	1759095.27	428401.10	39°40'25.6944"N	80°14'38.2688"W	8398.97	299.633	0.25
15462.00	90.370	326.850	8019.76	7595.93	4232.16	-7352.65	1759043.13	428480.50	39°40'26.4749"N	80°14'38.9441"W	8483.67	299.925	0.49
15557.00	89.970	325.930	8019.47	7690.93	4311.27	-7405.24	1758990.55	428559.61	39°40'27.2525"N	80°14'39.6250"W	8568.82	300.208	1.06
15653.00	89.170	324.480	8020.19	7786.90	4390.10	-7460.01	1758935.77	428638.44	39°40'28.0270"N	80°14'40.3339"W	8655.91	300.476	1.73
15748.00	90.310	324.320	8020.63	7881.84	4467.35	-7515.31	1758880.47	428715.67	39°40'28.7858"N	80°14'41.0493"W	8742.83	300.729	1.21
15843.00	89.820	326.340	8020.52	7976.82	4545.47	-7569.35	1758826.44	428793.80	39°40'29.5535"N	80°14'41.7486"W	8829.29	300.985	2.19
15939.00	89.850	326.690	8020.79	8072.82	4625.54	-7622.32	1758773.48	428873.86	39°40'30.3404"N	80°14'42.4345"W	8916.02	301.251	0.37
16034.00	90.150	326.490	8020.79	8167.82	4704.84	-7674.63	1758721.17	428953.16	39°40'31.1198"N	80°14'43.1119"W	9001.97	301.510	0.38
16128.00	90.180	326.630	8020.52	8261.82	4783.28	-7726.43	1758669.38	429031.59	39°40'31.8908"N	80°14'43.7826"W	9087.21	301.761	0.15
16223.00	90.430	326.600	8020.02	8356.82	4862.60	-7778.70	1758617.10	429110.91	39°40'32.6704"N	80°14'44.4596"W	9173.50	302.010	0.27
16319.00	90.550	326.820	8019.20	8452.81	4942.85	-7831.39	1758564.42	429191.15	39°40'33.4591"N	80°14'45.1420"W	9260.80	302.258	0.26
16414.00	90.370	327.120	8018.43	8547.80	5022.49	-7883.17	1758512.64	429270.79	39°40'34.2419"N	80°14'45.8126"W	9347.18	302.502	0.37
16510.00	90.830	326.700	8017.43	8643.79	5102.92	-7935.58	1758460.23	429351.21	39°40'35.0324"N	80°14'46.4914"W	9434.68	302.743	0.65
16605.00	90.620	326.260	8016.23	8738.78	5182.11	-7988.04	1758407.78	429430.40	39°40'35.8107"N	80°14'47.1707"W	9521.71	302.973	0.51
16701.00	89.940	326.900	8015.76	8834.78	5262.24	-8040.91	1758354.91	429510.52	39°40'36.5982"N	80°14'47.8554"W	9609.75	303.202	0.97
16796.00	90.150	326.710	8015.68	8929.78	5341.73	-8092.92	1758302.90	429590.01	39°40'37.3796"N	80°14'48.5291"W	9696.88	303.427	0.30

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Actual Wellpath Report

Bunner 15H awp Proj: 25707'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 15H
Field	Monongalia	API	47-061-01966
Facility	Bunner Pad	Wellbore	Bunner 15H AWB
Slot	15H		

WELLPATH DATA (335 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]
16891.00	89.850	326.680	8015.68	9024.78	5421.13	-8145.09	1758250.74	429669.40	39°40'38.1600"N	80°14'49.2047"W	9784.23	303.647	0.32
16987.00	89.910	326.630	8015.88	9120.78	5501.33	-8197.85	1758197.98	429749.59	39°40'38.9482"N	80°14'49.8881"W	9872.66	303.864	0.08
17082.00	90.030	326.790	8015.93	9215.77	5580.74	-8250.00	1758145.84	429829.00	39°40'39.7287"N	80°14'50.5634"W	9960.28	304.077	0.21
17177.00	90.060	326.700	8015.86	9310.77	5660.18	-8302.09	1758093.74	429908.43	39°40'40.5095"N	80°14'51.2381"W	10048.00	304.285	0.10
17273.00	89.660	326.390	8016.09	9406.77	5740.27	-8355.02	1758040.82	429988.52	39°40'41.2966"N	80°14'51.9235"W	10136.91	304.491	0.53
17368.00	90.460	327.590	8015.99	9501.76	5819.94	-8406.77	1757989.07	430068.18	39°40'42.0797"N	80°14'52.5938"W	10224.75	304.695	1.52
17463.00	89.230	326.390	8016.25	9596.75	5899.60	-8458.52	1757937.33	430147.84	39°40'42.8627"N	80°14'53.2642"W	10312.70	304.895	1.81
17559.00	89.380	326.280	8017.42	9692.75	5979.49	-8511.73	1757884.12	430227.73	39°40'43.6478"N	80°14'53.9533"W	10402.11	305.088	0.19
17654.00	89.480	328.020	8018.36	9787.73	6059.29	-8563.26	1757832.59	430307.52	39°40'44.4322"N	80°14'54.6208"W	10490.21	305.283	1.83
17750.00	89.140	326.600	8019.52	9883.71	6140.08	-8615.10	1757780.75	430388.31	39°40'45.2263"N	80°14'55.2924"W	10579.25	305.478	1.52
17845.00	89.080	326.640	8020.99	9978.69	6219.40	-8667.37	1757728.49	430467.62	39°40'46.0059"N	80°14'55.9693"W	10667.90	305.662	0.08
17940.00	88.610	326.450	8022.91	10073.67	6298.64	-8719.73	1757676.14	430546.86	39°40'46.7847"N	80°14'56.6474"W	10756.70	305.842	0.53
18036.00	89.940	326.710	8024.12	10169.66	6378.76	-8772.60	1757623.27	430626.97	39°40'47.5721"N	80°14'57.3321"W	10846.52	306.022	1.41
18131.00	89.570	326.750	8024.53	10264.66	6458.19	-8824.71	1757571.16	430706.40	39°40'48.3528"N	80°14'58.0072"W	10935.44	306.198	0.39
18226.00	90.000	326.520	8024.88	10359.66	6537.53	-8876.96	1757518.91	430785.73	39°40'49.1326"N	80°14'58.6838"W	11024.50	306.370	0.51
18322.00	90.090	326.180	8024.81	10455.66	6617.45	-8930.15	1757465.72	430865.64	39°40'49.9179"N	80°14'59.3727"W	11114.77	306.539	0.37
18416.00	89.660	326.460	8025.01	10549.66	6695.67	-8982.28	1757413.60	430943.86	39°40'50.6867"N	80°15'0.0478"W	11203.27	306.702	0.55
18511.00	89.540	326.560	8025.68	10644.65	6774.89	-9034.70	1757361.18	431023.08	39°40'51.4653"N	80°15'0.7267"W	11292.70	306.865	0.16
18606.00	89.600	326.870	8026.39	10739.65	6854.31	-9086.83	1757309.05	431102.49	39°40'52.2458"N	80°15'1.4019"W	11382.09	307.028	0.33
18700.00	89.940	328.280	8026.77	10833.63	6933.65	-9137.23	1757258.65	431181.83	39°40'53.0257"N	80°15'2.0550"W	11470.16	307.192	1.54
18796.00	89.720	327.050	8027.05	10929.60	7014.76	-9188.58	1757207.31	431262.93	39°40'53.8231"N	80°15'2.7204"W	11560.14	307.359	1.30
18891.00	89.970	326.950	8027.31	11024.59	7094.43	-9240.32	1757155.57	431342.60	39°40'54.6062"N	80°15'3.3907"W	11649.66	307.516	0.28
18987.00	89.910	326.210	8027.41	11120.59	7174.56	-9293.20	1757102.70	431422.72	39°40'55.3937"N	80°15'4.0755"W	11740.43	307.669	0.77
19082.00	89.850	325.710	8027.61	11215.59	7253.28	-9346.37	1757049.53	431501.44	39°40'56.1672"N	80°15'4.7641"W	11830.67	307.813	0.53
19177.00	89.750	325.520	8027.94	11310.58	7331.68	-9400.02	1756995.88	431579.83	39°40'56.9376"N	80°15'5.4587"W	11921.16	307.953	0.23
19273.00	89.630	325.640	8028.46	11406.57	7410.87	-9454.29	1756941.62	431659.02	39°40'57.7157"N	80°15'6.1612"W	12012.68	308.092	0.18
19368.00	89.380	325.740	8029.28	11501.56	7489.34	-9507.83	1756888.08	431737.48	39°40'58.4867"N	80°15'6.8545"W	12103.27	308.228	0.28
19464.00	89.450	325.370	8030.26	11597.54	7568.50	-9562.13	1756833.78	431816.64	39°40'59.2646"N	80°15'7.5574"W	12194.94	308.362	0.39
19559.00	89.380	325.770	8031.23	11692.53	7646.86	-9615.84	1756780.08	431894.99	39°41'0.0345"N	80°15'8.2528"W	12285.72	308.493	0.43
19655.00	89.380	325.520	8032.27	11788.52	7726.10	-9670.01	1756725.91	431974.23	39°41'0.8131"N	80°15'8.9541"W	12377.47	308.624	0.26

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Bunner 15H awp Proj: 25707'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 15H
Field	Monongalia	API	47-061-01966
Facility	Bunner Pad	Wellbore	Bunner 15H AWB
Slot	15H		

WELLPATH DATA (335 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]
19750.00	89.570	326.270	8033.14	11883.51	7804.76	-9723.28	1756672.65	432052.89	39°41'1.5861"N	80°15'9.6438"W	12468.22	308.754	0.81
19845.00	88.980	325.230	8034.34	11978.49	7883.28	-9776.74	1756619.19	432131.40	39°41'2.3576"N	80°15'10.3360"W	12559.09	308.880	1.26
19940.00	88.770	325.670	8036.21	12073.46	7961.51	-9830.60	1756565.33	432209.62	39°41'3.1262"N	80°15'11.0334"W	12650.16	309.003	0.51
20035.00	88.860	325.830	8038.17	12168.44	8040.02	-9884.06	1756511.87	432288.13	39°41'3.8977"N	80°15'11.7255"W	12741.14	309.126	0.19
20131.00	89.600	325.920	8039.46	12264.42	8119.48	-9937.91	1756458.03	432367.59	39°41'4.6785"N	80°15'12.4228"W	12833.08	309.250	0.78
20226.00	89.230	326.170	8040.43	12359.42	8198.28	-9990.97	1756404.97	432446.38	39°41'5.4528"N	80°15'13.1099"W	12924.06	309.371	0.47
20322.00	89.170	325.730	8041.77	12455.41	8277.81	-10044.72	1756351.23	432525.91	39°41'6.2343"N	80°15'13.8059"W	13016.08	309.492	0.46
20417.00	89.570	326.060	8042.82	12550.40	8356.47	-10097.98	1756297.97	432604.56	39°41'7.0072"N	80°15'14.4957"W	13107.24	309.609	0.55
20512.00	89.170	325.820	8043.86	12645.39	8435.16	-10151.18	1756244.77	432683.25	39°41'7.7806"N	80°15'15.1846"W	13198.43	309.725	0.49
20607.00	88.950	325.870	8045.42	12740.37	8513.77	-10204.51	1756191.44	432761.85	39°41'8.5529"N	80°15'15.8752"W	13289.71	309.839	0.24
20703.00	88.400	325.390	8047.64	12836.34	8592.99	-10258.69	1756137.27	432841.06	39°41'9.3313"N	80°15'16.5767"W	13382.08	309.951	0.76
20798.00	88.180	325.500	8050.48	12931.28	8671.19	-10312.55	1756083.41	432919.26	39°41'10.0997"N	80°15'17.2740"W	13473.61	310.058	0.26
20894.00	87.880	325.570	8053.78	13027.21	8750.29	-10366.85	1756029.12	432998.36	39°41'10.8769"N	80°15'17.9770"W	13566.10	310.167	0.32
20989.00	87.880	325.890	8057.29	13122.14	8828.75	-10420.30	1755975.66	433076.81	39°41'11.6478"N	80°15'18.6692"W	13657.58	310.273	0.34
21084.00	87.880	326.830	8060.80	13217.08	8907.78	-10472.89	1755923.08	433155.84	39°41'12.4245"N	80°15'19.3503"W	13748.82	310.383	0.99
21179.00	87.940	327.470	8064.27	13312.00	8987.54	-10524.39	1755871.58	433235.59	39°41'13.2084"N	80°15'20.0176"W	13839.75	310.496	0.68
21274.00	87.750	327.220	8067.84	13406.92	9067.47	-10575.61	1755820.36	433315.51	39°41'13.9940"N	80°15'20.6814"W	13930.63	310.610	0.33
21369.00	87.880	327.000	8071.46	13501.85	9147.18	-10627.16	1755768.81	433395.22	39°41'14.7775"N	80°15'21.3494"W	14021.68	310.720	0.27
21465.00	87.880	327.320	8075.01	13597.77	9227.78	-10679.19	1755716.79	433475.82	39°41'15.5698"N	80°15'22.0235"W	14113.72	310.830	0.33
21560.00	87.880	327.930	8078.53	13692.68	9307.96	-10730.02	1755665.96	433555.99	39°41'16.3579"N	80°15'22.6824"W	14204.63	310.941	0.64
21655.00	87.970	326.550	8081.97	13787.61	9387.80	-10781.39	1755614.59	433635.82	39°41'17.1426"N	80°15'23.3481"W	14295.78	311.047	1.45
21751.00	87.970	326.860	8085.37	13883.55	9467.99	-10834.06	1755561.93	433716.01	39°41'17.9307"N	80°15'24.0304"W	14388.18	311.151	0.32
21846.00	87.880	325.830	8088.81	13978.48	9547.01	-10886.67	1755509.32	433795.03	39°41'18.7073"N	80°15'24.7119"W	14479.82	311.249	1.09
21941.00	87.910	325.650	8092.30	14073.41	9625.48	-10940.12	1755455.88	433873.49	39°41'19.4782"N	80°15'25.4039"W	14571.75	311.342	0.19
22037.00	87.880	325.290	8095.82	14169.34	9704.51	-10994.50	1755401.50	433952.52	39°41'20.2548"N	80°15'26.1080"W	14664.80	311.434	0.38
22132.00	87.880	325.310	8099.34	14264.25	9782.56	-11048.54	1755347.46	434030.56	39°41'21.0216"N	80°15'26.8078"W	14756.99	311.522	0.02
22228.00	88.150	325.420	8102.66	14360.18	9861.50	-11103.07	1755292.94	434109.50	39°41'21.7972"N	80°15'27.5138"W	14850.16	311.611	0.30
22323.00	88.060	326.540	8105.81	14455.13	9940.20	-11156.19	1755239.82	434188.19	39°41'22.5705"N	80°15'28.2017"W	14942.16	311.701	1.18
22418.00	88.550	326.420	8108.62	14550.08	10019.36	-11208.63	1755187.38	434267.35	39°41'23.3484"N	80°15'28.8811"W	15033.99	311.793	0.53
22514.00	88.980	326.990	8110.68	14646.06	10099.59	-11261.32	1755134.70	434347.57	39°41'24.1368"N	80°15'29.5637"W	15126.76	311.887	0.74

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Actual Wellpath Report

Bunner 15H awp Proj: 25707'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 15H
Field	Monongalia	API	47-061-01966
Facility	Bunner Pad	Wellbore	Bunner 15H AWB
Slot	15H		

WELLPATH DATA (335 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]
22610.00	89.200	327.730	8112.21	14742.03	10180.41	-11313.09	1755082.93	434428.39	39°41'24.9313"N	80°15'30.2346"W	15219.29	311.983	0.80
22705.00	89.170	329.540	8113.56	14836.94	10261.52	-11362.53	1755033.50	434509.49	39°41'25.7287"N	80°15'30.8758"W	15310.32	312.085	1.91
22800.00	89.080	329.320	8115.01	14931.80	10343.31	-11410.84	1754985.19	434591.27	39°41'26.5329"N	80°15'31.5026"W	15401.01	312.191	0.25
22895.00	89.110	328.080	8116.51	15026.71	10424.47	-11460.18	1754935.85	434672.43	39°41'27.3309"N	80°15'32.1426"W	15492.11	312.290	1.31
22991.00	90.030	326.270	8117.23	15122.69	10505.13	-11512.22	1754883.81	434753.09	39°41'28.1237"N	80°15'32.8169"W	15584.90	312.381	2.11
23086.00	90.250	326.600	8117.00	15217.69	10584.29	-11564.74	1754831.29	434832.25	39°41'28.9016"N	80°15'33.4974"W	15677.07	312.465	0.42
23181.00	90.860	326.990	8116.08	15312.68	10663.78	-11616.77	1754779.27	434911.73	39°41'29.6828"N	80°15'34.1714"W	15769.13	312.551	0.76
23277.00	90.400	326.780	8115.02	15408.67	10744.18	-11669.21	1754726.83	434992.12	39°41'30.4730"N	80°15'34.8510"W	15862.15	312.637	0.53
23372.00	91.050	326.450	8113.82	15503.66	10823.50	-11721.48	1754674.57	435071.43	39°41'31.2525"N	80°15'35.5282"W	15954.35	312.719	0.77
23467.00	90.890	326.760	8112.21	15598.65	10902.80	-11773.76	1754622.29	435150.73	39°41'32.0318"N	80°15'36.2055"W	16046.57	312.800	0.37
23563.00	90.220	326.820	8111.28	15694.64	10983.12	-11826.34	1754569.71	435231.04	39°41'32.8211"N	80°15'36.8868"W	16139.74	312.883	0.70
23658.00	89.660	326.630	8111.38	15789.64	11062.54	-11878.46	1754517.59	435310.46	39°41'33.6017"N	80°15'37.5621"W	16231.99	312.963	0.62
23753.00	89.720	325.360	8111.90	15884.63	11141.29	-11931.59	1754464.47	435389.21	39°41'34.3755"N	80°15'38.2503"W	16324.56	313.038	1.34
23849.00	89.660	325.770	8112.42	15980.62	11220.47	-11985.87	1754410.19	435468.38	39°41'35.1534"N	80°15'38.9533"W	16418.28	313.111	0.43
23944.00	89.570	325.780	8113.06	16075.61	11299.01	-12039.30	1754356.76	435546.92	39°41'35.9252"N	80°15'39.6453"W	16510.98	313.183	0.10
24040.00	89.510	325.690	8113.83	16171.60	11378.35	-12093.35	1754302.72	435626.26	39°41'36.7047"N	80°15'40.3453"W	16604.70	313.255	0.11
24136.00	89.570	325.890	8114.60	16267.60	11457.74	-12147.32	1754248.75	435705.64	39°41'37.4847"N	80°15'41.0443"W	16698.42	313.327	0.22
24231.00	90.310	325.800	8114.70	16362.59	11536.35	-12200.66	1754195.41	435784.25	39°41'38.2572"N	80°15'41.7351"W	16791.17	313.397	0.78
24326.00	90.250	325.790	8114.23	16457.58	11614.92	-12254.06	1754142.01	435862.81	39°41'39.0291"N	80°15'42.4268"W	16883.97	313.466	0.06
24421.00	91.320	326.900	8112.93	16552.57	11693.99	-12306.71	1754089.38	435941.87	39°41'39.8061"N	80°15'43.1088"W	16976.58	313.538	1.62
24516.00	92.220	326.460	8110.00	16647.53	11773.33	-12358.87	1754037.22	436021.21	39°41'40.5858"N	80°15'43.7846"W	17069.06	313.610	1.05
24611.00	93.300	326.100	8105.42	16742.41	11852.26	-12411.54	1753984.55	436100.13	39°41'41.3614"N	80°15'44.4670"W	17161.65	313.680	1.20
24707.00	92.830	326.230	8100.29	16838.28	11931.88	-12464.92	1753931.17	436179.75	39°41'42.1438"N	80°15'45.1585"W	17255.26	313.748	0.51
24802.00	91.970	325.980	8096.31	16933.19	12010.67	-12517.85	1753878.24	436258.54	39°41'42.9180"N	80°15'45.8442"W	17347.99	313.815	0.94
24897.00	91.320	325.760	8093.58	17028.15	12089.27	-12571.13	1753824.97	436337.14	39°41'43.6903"N	80°15'46.5343"W	17440.87	313.881	0.72
24993.00	91.350	326.160	8091.35	17124.12	12168.80	-12624.85	1753771.25	436416.66	39°41'44.4718"N	80°15'47.2302"W	17534.73	313.946	0.42
25088.00	92.340	325.850	8088.29	17219.07	12247.52	-12677.94	1753718.16	436495.38	39°41'45.2453"N	80°15'47.9179"W	17627.59	314.011	1.09
25184.00	93.020	326.420	8083.80	17314.96	12327.15	-12731.38	1753664.73	436575.00	39°41'46.0277"N	80°15'48.6101"W	17721.36	314.076	0.92
25279.00	94.000	327.480	8077.98	17409.77	12406.63	-12783.09	1753613.02	436654.47	39°41'46.8088"N	80°15'49.2803"W	17813.81	314.144	1.52
25374.00	94.530	326.500	8070.92	17504.50	12486.07	-12834.70	1753561.41	436733.91	39°41'47.5895"N	80°15'49.9492"W	17906.18	314.211	1.17

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Actual Wellpath Report

Bunner 15H awp Proj: 25707'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 15H
Field	Monongalia	API	47-061-01966
Facility	Bunner Pad	Wellbore	Bunner 15H AWB
Slot	15H		

WELLPATH DATA (335 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]
25470.00	95.400	326.130	8062.61	17600.14	12565.65	-12887.74	1753508.37	436813.48	39°41'48.3715"N	80°15'50.6364"W	17999.71	314.275	0.98
25565.00	95.950	326.310	8053.22	17694.68	12644.22	-12940.30	1753455.82	436892.05	39°41'49.1436"N	80°15'51.3174"W	18092.20	314.337	0.61
25661.00	95.890	326.520	8043.31	17790.16	12723.77	-12993.13	1753403.00	436971.60	39°41'49.9253"N	80°15'52.0018"W	18185.59	314.400	0.23
25682.00	95.680	326.360	8041.20	17811.06	12741.18	-13004.67	1753391.45	436989.00	39°41'50.0964"N	80°15'52.1514"W	18206.02	314.414	1.25
25707.00‡	95.680	326.360	8038.72	17835.93	12761.89	-13018.46	1753377.67	437009.71	39°41'50.2999"N	80°15'52.3300"W	18230.36	314.430	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Bunner 15H AWB Ref Wellpath: Bunner 15H awp Proj: 25707'									
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	2579.00	2550.50	28.50	2554.34	0.00	0.00	-63.78	-205.53
5.5in Casing	28.50	25707.00	25678.50	28.50	8038.72	0.00	0.00	12761.89	-13018.46

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Actual Wellpath Report

Bunner 15H awp Proj: 25707'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 15H
Field	Monongalia	API	47-061-01966
Facility	Bunner Pad	Wellbore	Bunner 15H AWB
Slot	15H		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Bunner 15H BHL Rev-4	8118.00	12760.78	-13022.87	1753373.26	437008.60	39°41'50.2885"N	80°15'52.3863"W	point
Bunner 15H LP Rev-4	8118.00	-658.52	-4098.10	1762297.48	423590.12	39°39'38.4068"N	80°13'56.8130"W	point
Bunner Pad HARDLINES 4.27.2025	9528.50	12973.94	-12653.90	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	-1217.05	-1928.07	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 15H AWB						Ref Wellpath: Bunner 15H awp Proj: 25707'	
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 15H AWB	4/28/2025		
1128.50	6746.50	OWSG MWD rev2 + HRGM	2 Imported MWD Scientific 1321' - 6743'	Bunner 15H AWB	4/28/2025		
6746.50	25707.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	3 BH MWD ATC HRGM Short spacing 8.5" 6792' - 25682'	Bunner 15H AWB	4/28/2025		

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