



Actual Wellpath Report

Bunner 19H awp Proj: 25930'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 19H
Field	Monongalia	API	47-061-01967
Facility	Bunner Pad	Wellbore	Bunner 19H AWB
Slot	19H		

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	5/17/2025 at 9:43:08 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	-29.96	-63.14	1766395.36	424218.41	39°39'44.9433"N	80°13'4.4778"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 (19H)	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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 WV Department of
 Environmental Protection

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WELLPATH DATA (314 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	113.050	0.00	0.00	0.00	0.00	1766395.36	424218.41	39°39'44.9433"N	80°13'4.4778"W	0.00	0.000	0.00
28.50	0.000	113.050	28.50	0.00	0.00	0.00	1766395.36	424218.41	39°39'44.9433"N	80°13'4.4778"W	0.00	0.000	0.00
53.50	0.340	113.050	53.50	-0.06	-0.03	0.07	1766395.43	424218.38	39°39'44.9430"N	80°13'4.4770"W	0.07	113.050	1.36
103.50	0.400	142.590	103.50	-0.36	-0.23	0.31	1766395.67	424218.18	39°39'44.9410"N	80°13'4.4738"W	0.38	125.995	0.39
153.50	0.440	150.070	153.50	-0.73	-0.53	0.51	1766395.87	424217.88	39°39'44.9380"N	80°13'4.4712"W	0.74	135.997	0.14
203.50	0.490	146.100	203.50	-1.13	-0.87	0.73	1766396.09	424217.54	39°39'44.9347"N	80°13'4.4685"W	1.14	140.241	0.12
253.50	0.520	138.970	253.49	-1.57	-1.22	1.00	1766396.36	424217.19	39°39'44.9312"N	80°13'4.4650"W	1.58	140.851	0.14
303.50	0.550	171.620	303.49	-2.01	-1.63	1.18	1766396.54	424216.78	39°39'44.9272"N	80°13'4.4626"W	2.01	144.134	0.60
353.50	0.410	203.170	353.49	-2.33	-2.03	1.14	1766396.50	424216.38	39°39'44.9232"N	80°13'4.4630"W	2.33	150.634	0.59
403.50	0.410	217.350	403.49	-2.48	-2.34	0.97	1766396.33	424216.07	39°39'44.9202"N	80°13'4.4653"W	2.53	157.583	0.20
453.50	0.390	218.170	453.49	-2.59	-2.62	0.75	1766396.11	424215.79	39°39'44.9175"N	80°13'4.4680"W	2.72	163.970	0.04
503.50	0.410	203.130	503.49	-2.75	-2.91	0.58	1766395.94	424215.50	39°39'44.9145"N	80°13'4.4702"W	2.97	168.816	0.21
553.50	0.370	189.700	553.49	-2.96	-3.24	0.48	1766395.84	424215.17	39°39'44.9113"N	80°13'4.4714"W	3.27	171.589	0.20
603.50	0.550	170.410	603.48	-3.30	-3.63	0.49	1766395.85	424214.78	39°39'44.9074"N	80°13'4.4712"W	3.67	172.296	0.47
653.50	0.510	164.060	653.48	-3.73	-4.08	0.59	1766395.95	424214.33	39°39'44.9029"N	80°13'4.4699"W	4.13	171.744	0.14
703.50	0.440	150.490	703.48	-4.13	-4.47	0.75	1766396.11	424213.94	39°39'44.8992"N	80°13'4.4678"W	4.53	170.487	0.26
753.50	0.500	156.080	753.48	-4.54	-4.83	0.93	1766396.29	424213.58	39°39'44.8956"N	80°13'4.4654"W	4.92	169.090	0.15
803.50	0.440	139.580	803.48	-4.94	-5.18	1.14	1766396.50	424213.23	39°39'44.8922"N	80°13'4.4627"W	5.30	167.538	0.29
853.50	0.490	137.900	853.47	-5.35	-5.48	1.41	1766396.77	424212.93	39°39'44.8892"N	80°13'4.4592"W	5.66	165.556	0.10
903.50	0.460	95.260	903.47	-5.68	-5.66	1.76	1766397.12	424212.75	39°39'44.8875"N	80°13'4.4548"W	5.93	162.769	0.69
953.50	0.350	43.260	953.47	-5.78	-5.57	2.06	1766397.42	424212.84	39°39'44.8884"N	80°13'4.4509"W	5.94	159.694	0.74
1003.50	0.460	186.600	1003.47	-5.89	-5.65	2.14	1766397.50	424212.76	39°39'44.8875"N	80°13'4.4499"W	6.05	159.259	1.54
1053.50	0.390	66.190	1053.47	-6.08	-5.79	2.27	1766397.63	424212.62	39°39'44.8863"N	80°13'4.4482"W	6.22	158.543	1.48
1103.50	0.270	287.280	1103.47	-6.01	-5.68	2.32	1766397.68	424212.73	39°39'44.8873"N	80°13'4.4476"W	6.14	157.813	1.24
1153.50	0.140	294.220	1153.47	-5.87	-5.62	2.15	1766397.51	424212.79	39°39'44.8879"N	80°13'4.4498"W	6.02	159.080	0.26
1336.50	0.240	115.210	1336.47	-6.01	-5.69	2.29	1766397.65	424212.72	39°39'44.8872"N	80°13'4.4480"W	6.14	158.072	0.21
1367.50	0.180	214.560	1367.47	-6.08	-5.76	2.32	1766397.68	424212.65	39°39'44.8865"N	80°13'4.4476"W	6.21	158.039	1.04
1398.50	0.610	246.520	1398.47	-6.07	-5.87	2.14	1766397.50	424212.54	39°39'44.8854"N	80°13'4.4498"W	6.25	159.925	1.51
1429.50	1.200	256.500	1429.47	-5.93	-6.01	1.68	1766397.04	424212.40	39°39'44.8840"N	80°13'4.4558"W	6.24	164.405	1.96
1460.50	1.710	259.060	1460.45	-5.64	-6.17	0.91	1766396.27	424212.24	39°39'44.8823"N	80°13'4.4656"W	6.24	171.637	1.66

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Field	Monongalia	API	47-061-01967
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Slot	19H		

WELLPATH DATA (314 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]
1492.50	2.280	263.770	1492.44	-5.16	-6.33	-0.19	1766395.17	424212.08	39°39'44.8807"N	80°13'4.4797"W	6.33	181.757	1.85
1523.50	2.860	264.010	1523.40	-4.52	-6.48	-1.58	1766393.78	424211.93	39°39'44.8791"N	80°13'4.4973"W	6.67	193.674	1.87
1554.50	3.440	262.940	1554.36	-3.75	-6.67	-3.27	1766392.09	424211.74	39°39'44.8770"N	80°13'4.5190"W	7.43	206.092	1.88
1585.50	4.190	264.700	1585.29	-2.79	-6.89	-5.32	1766390.04	424211.52	39°39'44.8747"N	80°13'4.5452"W	8.71	217.655	2.45
1616.50	4.820	264.340	1616.19	-1.65	-7.13	-7.74	1766387.62	424211.28	39°39'44.8722"N	80°13'4.5761"W	10.52	227.374	2.03
1647.50	5.600	265.280	1647.06	-0.30	-7.38	-10.55	1766384.81	424211.03	39°39'44.8695"N	80°13'4.6119"W	12.87	235.020	2.53
1678.50	6.200	263.800	1677.90	1.20	-7.68	-13.72	1766381.64	424210.73	39°39'44.8662"N	80°13'4.6525"W	15.72	240.743	2.00
1709.50	7.060	263.520	1708.69	2.84	-8.08	-17.28	1766378.09	424210.33	39°39'44.8620"N	80°13'4.6979"W	19.07	244.932	2.78
1741.50	7.750	262.960	1740.42	4.70	-8.57	-21.37	1766373.99	424209.84	39°39'44.8569"N	80°13'4.7502"W	23.02	248.156	2.17
1772.50	8.440	262.770	1771.12	6.65	-9.11	-25.70	1766369.66	424209.30	39°39'44.8512"N	80°13'4.8056"W	27.27	250.485	2.23
1803.50	9.030	261.090	1801.76	8.68	-9.77	-30.36	1766365.00	424208.64	39°39'44.8443"N	80°13'4.8651"W	31.90	252.159	2.07
1834.50	9.570	260.020	1832.35	10.73	-10.60	-35.30	1766360.06	424207.81	39°39'44.8357"N	80°13'4.9282"W	36.86	253.294	1.83
1865.50	9.900	258.990	1862.90	12.79	-11.55	-40.46	1766354.90	424206.86	39°39'44.8259"N	80°13'4.9940"W	42.07	254.065	1.20
1896.50	10.600	258.130	1893.41	14.87	-12.65	-45.86	1766349.50	424205.76	39°39'44.8146"N	80°13'5.0630"W	47.58	254.584	2.31
1927.50	11.190	257.280	1923.85	17.00	-13.90	-51.59	1766343.77	424204.52	39°39'44.8019"N	80°13'5.1361"W	53.43	254.925	1.97
1959.50	11.650	256.110	1955.21	19.20	-15.35	-57.75	1766337.61	424203.06	39°39'44.7869"N	80°13'5.2147"W	59.76	255.111	1.61
1990.50	12.220	256.050	1985.54	21.36	-16.90	-63.98	1766331.39	424201.51	39°39'44.7712"N	80°13'5.2941"W	66.17	255.205	1.84
2021.50	12.770	255.360	2015.81	23.58	-18.55	-70.48	1766324.89	424199.86	39°39'44.7543"N	80°13'5.3771"W	72.88	255.250	1.84
2052.50	13.160	254.880	2046.02	25.82	-20.34	-77.20	1766318.17	424198.07	39°39'44.7361"N	80°13'5.4628"W	79.83	255.239	1.31
2083.50	13.650	253.510	2076.18	28.02	-22.30	-84.11	1766311.25	424196.11	39°39'44.7162"N	80°13'5.5510"W	87.02	255.151	1.88
2114.50	14.150	253.730	2106.27	30.22	-24.40	-91.26	1766304.11	424194.01	39°39'44.6949"N	80°13'5.6422"W	94.46	255.031	1.62
2145.50	14.350	252.850	2136.31	32.44	-26.59	-98.56	1766296.80	424191.82	39°39'44.6727"N	80°13'5.7354"W	102.09	254.901	0.95
2176.50	15.000	253.090	2166.30	34.69	-28.89	-106.07	1766289.29	424189.52	39°39'44.6493"N	80°13'5.8312"W	109.94	254.763	2.11
2207.50	15.570	252.530	2196.21	37.00	-31.31	-113.88	1766281.49	424187.10	39°39'44.6248"N	80°13'5.9308"W	118.11	254.627	1.90
2238.50	16.330	253.430	2226.01	39.44	-33.80	-122.03	1766273.34	424184.61	39°39'44.5996"N	80°13'6.0347"W	126.62	254.517	2.58
2269.50	17.090	253.310	2255.70	42.04	-36.35	-130.57	1766264.80	424182.06	39°39'44.5737"N	80°13'6.1436"W	135.53	254.442	2.45
2301.50	17.820	254.230	2286.23	44.91	-39.03	-139.78	1766255.59	424179.38	39°39'44.5465"N	80°13'6.2612"W	145.13	254.398	2.44
2332.50	18.470	254.510	2315.69	47.90	-41.63	-149.08	1766246.29	424176.78	39°39'44.5200"N	80°13'6.3798"W	154.78	254.396	2.12
2363.50	18.910	254.100	2345.05	50.96	-44.32	-158.64	1766236.73	424174.09	39°39'44.4927"N	80°13'6.5018"W	164.72	254.391	1.48
2394.50	19.320	254.910	2374.34	54.12	-47.03	-168.43	1766226.95	424171.38	39°39'44.4651"N	80°13'6.6266"W	174.87	254.398	1.58

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2425.50	19.980	255.070	2403.54	57.45	-49.73	-178.49	1766216.88	424168.68	39°39'44.4377"N	80°13'6.7551"W	185.29	254.431	2.14
2456.50	20.180	255.350	2432.65	60.88	-52.45	-188.78	1766206.59	424165.96	39°39'44.4100"N	80°13'6.8864"W	195.93	254.473	0.72
2487.50	20.200	254.830	2461.75	64.32	-55.20	-199.12	1766196.25	424163.21	39°39'44.3820"N	80°13'7.0183"W	206.63	254.505	0.58
2518.50	20.240	254.400	2490.84	67.67	-58.04	-209.45	1766185.92	424160.37	39°39'44.3531"N	80°13'7.1501"W	217.35	254.511	0.50
2549.50	20.360	253.750	2519.91	70.94	-61.00	-219.80	1766175.58	424157.42	39°39'44.3231"N	80°13'7.2820"W	228.10	254.490	0.82
2634.50	20.790	252.400	2599.49	79.52	-69.69	-248.37	1766147.00	424148.72	39°39'44.2349"N	80°13'7.6465"W	257.96	254.325	0.75
2665.50	20.820	251.070	2628.47	82.44	-73.15	-258.83	1766136.55	424145.27	39°39'44.1999"N	80°13'7.7798"W	268.96	254.219	1.53
2696.50	21.170	250.710	2657.41	85.23	-76.78	-269.32	1766126.06	424141.63	39°39'44.1632"N	80°13'7.9137"W	280.05	254.087	1.20
2790.50	22.620	253.100	2744.63	94.63	-87.65	-302.64	1766092.74	424130.77	39°39'44.0532"N	80°13'8.3386"W	315.08	253.849	1.81
2883.50	25.410	255.750	2829.57	106.41	-97.76	-339.10	1766056.28	424120.66	39°39'43.9503"N	80°13'8.8037"W	352.91	253.918	3.22
2976.50	28.060	256.020	2912.63	120.39	-107.96	-379.67	1766015.71	424110.46	39°39'43.8464"N	80°13'9.3215"W	394.72	254.127	2.85
3070.50	30.930	257.250	2994.44	136.43	-118.63	-424.70	1765970.69	424099.79	39°39'43.7373"N	80°13'9.8961"W	440.95	254.393	3.12
3163.50	32.600	257.200	3073.50	153.86	-129.46	-472.44	1765922.95	424088.96	39°39'43.6265"N	80°13'10.5055"W	489.86	254.676	1.80
3256.50	35.090	257.370	3150.74	172.35	-140.85	-522.96	1765872.43	424077.57	39°39'43.5099"N	80°13'11.1503"W	541.60	254.926	2.68
3349.50	37.600	257.480	3225.64	192.15	-152.85	-576.75	1765818.64	424065.57	39°39'43.3871"N	80°13'11.8368"W	596.66	255.157	2.70
3445.50	40.410	256.640	3300.23	213.49	-166.39	-635.63	1765759.77	424052.03	39°39'43.2486"N	80°13'12.5883"W	657.05	255.331	2.98
3538.50	42.280	256.000	3370.05	234.44	-180.93	-695.32	1765700.08	424037.49	39°39'43.1002"N	80°13'13.3500"W	718.47	255.415	2.06
3631.50	43.770	254.130	3438.04	254.76	-197.29	-756.62	1765638.79	424021.13	39°39'42.9336"N	80°13'14.1321"W	781.92	255.385	2.11
3724.50	43.920	252.660	3505.11	273.62	-215.70	-818.35	1765577.06	424002.72	39°39'42.7468"N	80°13'14.9196"W	846.30	255.234	1.11
3818.50	42.440	252.180	3573.66	291.41	-235.13	-879.67	1765515.74	423983.30	39°39'42.5500"N	80°13'15.7016"W	910.55	255.035	1.61
3911.50	41.590	253.610	3642.75	309.11	-253.44	-939.16	1765456.26	423964.99	39°39'42.3643"N	80°13'16.4604"W	972.75	254.898	1.38
4005.50	41.770	255.060	3712.96	328.39	-270.32	-999.34	1765396.08	423948.11	39°39'42.1927"N	80°13'17.2281"W	1035.25	254.864	1.04
4098.50	41.700	255.370	3782.36	348.39	-286.11	-1059.20	1765336.23	423932.31	39°39'42.0318"N	80°13'17.9919"W	1097.16	254.884	0.23
4191.50	41.740	257.840	3851.78	369.79	-300.45	-1119.40	1765276.03	423917.98	39°39'41.8854"N	80°13'18.7601"W	1159.02	254.976	1.77
4284.50	43.300	257.770	3920.32	392.76	-313.73	-1180.83	1765214.60	423904.70	39°39'41.7493"N	80°13'19.5443"W	1221.79	255.121	1.68
4379.50	42.850	256.500	3989.72	415.76	-328.17	-1244.08	1765151.36	423890.26	39°39'41.6015"N	80°13'20.3515"W	1286.63	255.223	1.03
4472.50	42.760	255.390	4057.95	436.93	-343.51	-1305.38	1765090.06	423874.92	39°39'41.4450"N	80°13'21.1337"W	1349.82	255.257	0.82
4565.50	42.320	255.610	4126.47	457.54	-359.26	-1366.25	1765029.19	423859.17	39°39'41.2846"N	80°13'21.9105"W	1412.70	255.267	0.50
4659.50	42.300	255.390	4195.99	478.28	-375.10	-1427.51	1764967.93	423843.33	39°39'41.1231"N	80°13'22.6921"W	1475.97	255.277	0.16
4752.50	42.340	256.270	4264.75	499.13	-390.43	-1488.22	1764907.23	423828.00	39°39'40.9668"N	80°13'23.4668"W	1538.58	255.300	0.64

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Actual Wellpath Report

Bunner 19H awp Proj: 25930'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 19H
Field	Monongalia	API	47-061-01967
Facility	Bunner Pad	Wellbore	Bunner 19H AWB
Slot	19H		

WELLPATH DATA (314 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]
4845.50	42.350	256.410	4333.49	520.53	-405.22	-1549.09	1764846.36	423813.21	39°39'40.8158"N	80°13'24.2436"W	1601.22	255.341	0.10
4939.50	42.390	256.190	4402.94	542.12	-420.23	-1610.64	1764784.82	423798.21	39°39'40.6626"N	80°13'25.0290"W	1664.56	255.377	0.16
5032.50	42.070	255.740	4471.80	563.09	-435.38	-1671.28	1764724.18	423783.05	39°39'40.5080"N	80°13'25.8028"W	1727.06	255.398	0.47
5126.50	41.480	254.810	4541.90	583.38	-451.30	-1731.85	1764663.62	423767.14	39°39'40.3459"N	80°13'26.5756"W	1789.68	255.394	0.91
5219.50	42.150	256.040	4611.22	603.63	-466.90	-1791.85	1764603.62	423751.54	39°39'40.1870"N	80°13'27.3412"W	1851.68	255.395	1.14
5313.50	41.940	256.290	4681.02	624.94	-481.95	-1852.98	1764542.49	423736.49	39°39'40.0333"N	80°13'28.1213"W	1914.63	255.421	0.29
5406.50	43.320	257.790	4749.45	647.19	-496.06	-1914.36	1764481.12	423722.38	39°39'39.8889"N	80°13'28.9046"W	1977.59	255.473	1.84
5500.50	43.710	256.510	4817.62	670.14	-510.46	-1977.46	1764418.02	423707.98	39°39'39.7416"N	80°13'29.7099"W	2042.28	255.526	1.03
5593.50	43.860	254.920	4884.76	691.46	-526.34	-2039.82	1764355.67	423692.10	39°39'39.5797"N	80°13'30.5056"W	2106.63	255.531	1.19
5687.50	42.510	252.930	4953.30	710.87	-544.14	-2101.63	1764293.86	423674.31	39°39'39.3989"N	80°13'31.2941"W	2170.92	255.484	2.04
5783.50	42.330	252.510	5024.17	729.10	-563.37	-2163.46	1764232.03	423655.07	39°39'39.2039"N	80°13'32.0827"W	2235.61	255.404	0.35
5876.50	41.570	254.320	5093.34	747.32	-581.12	-2223.03	1764172.46	423637.32	39°39'39.0237"N	80°13'32.8426"W	2297.74	255.350	1.54
5969.50	40.480	254.460	5163.50	766.20	-597.55	-2281.83	1764113.67	423620.90	39°39'38.8567"N	80°13'33.5926"W	2358.77	255.325	1.18
6062.50	41.080	256.010	5233.92	785.84	-613.02	-2340.56	1764054.94	423605.42	39°39'38.6991"N	80°13'34.3420"W	2419.51	255.323	1.27
6156.50	41.010	256.610	5304.82	806.89	-627.63	-2400.53	1763994.97	423590.82	39°39'38.5499"N	80°13'35.1073"W	2481.22	255.348	0.43
6249.50	42.230	257.190	5374.34	828.56	-641.63	-2460.69	1763934.82	423576.82	39°39'38.4068"N	80°13'35.8751"W	2542.97	255.385	1.38
6342.50	42.600	257.410	5443.00	850.97	-655.42	-2521.89	1763873.63	423563.03	39°39'38.2656"N	80°13'36.6561"W	2605.66	255.432	0.43
6436.50	44.310	256.910	5511.23	873.91	-669.79	-2584.92	1763810.60	423548.66	39°39'38.1185"N	80°13'37.4605"W	2670.28	255.473	1.86
6517.00	44.730	256.200	5568.63	893.38	-682.91	-2639.81	1763755.71	423535.54	39°39'37.9845"N	80°13'38.1611"W	2726.72	255.496	0.81
6612.00	43.690	255.260	5636.72	915.35	-699.24	-2704.01	1763691.51	423519.22	39°39'37.8180"N	80°13'38.9802"W	2792.96	255.501	1.29
6708.00	42.430	255.990	5706.87	936.96	-715.51	-2767.50	1763628.03	423502.94	39°39'37.6521"N	80°13'39.7903"W	2858.50	255.504	1.41
6803.00	42.380	256.750	5777.01	958.87	-730.61	-2829.76	1763565.77	423487.84	39°39'37.4979"N	80°13'40.5848"W	2922.56	255.523	0.54
6898.00	42.320	256.860	5847.22	981.21	-745.22	-2892.07	1763503.47	423473.24	39°39'37.3485"N	80°13'41.3800"W	2986.54	255.551	0.10
6994.00	42.330	256.440	5918.20	1003.62	-760.15	-2954.96	1763440.58	423458.31	39°39'37.1960"N	80°13'42.1826"W	3051.17	255.574	0.29
7089.00	42.290	256.140	5988.45	1025.41	-775.30	-3017.09	1763378.46	423443.16	39°39'37.0412"N	80°13'42.9754"W	3115.11	255.589	0.22
7184.00	42.380	255.980	6058.68	1046.96	-790.71	-3079.18	1763316.37	423427.74	39°39'36.8839"N	80°13'43.7677"W	3179.09	255.598	0.15
7280.00	42.280	256.270	6129.65	1068.81	-806.22	-3141.94	1763253.61	423412.24	39°39'36.7257"N	80°13'44.5686"W	3243.73	255.608	0.23
7375.00	42.360	256.260	6199.89	1090.58	-821.40	-3204.07	1763191.48	423397.06	39°39'36.5706"N	80°13'45.3614"W	3307.69	255.621	0.08
7470.00	42.250	256.670	6270.15	1112.55	-836.37	-3266.24	1763129.32	423382.09	39°39'36.4177"N	80°13'46.1547"W	3371.62	255.637	0.31
7566.00	42.350	255.890	6341.16	1134.55	-851.69	-3329.00	1763066.56	423366.77	39°39'36.2613"N	80°13'46.9556"W	3436.23	255.649	0.56

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Actual Wellpath Report

Bunner 19H awp Proj: 25930'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 19H
Field	Monongalia	API	47-061-01967
Facility	Bunner Pad	Wellbore	Bunner 19H AWB
Slot	19H		

WELLPATH DATA (314 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]
7661.00	42.240	256.460	6411.43	1156.21	-866.97	-3391.08	1763004.49	423351.49	39°39'36.1053"N	80°13'47.7478"W	3500.15	255.659	0.42
7757.00	42.400	255.890	6482.41	1178.11	-882.41	-3453.84	1762941.73	423336.05	39°39'35.9476"N	80°13'48.5486"W	3564.78	255.668	0.43
7852.00	42.400	256.080	6552.56	1199.61	-897.93	-3515.99	1762879.58	423320.54	39°39'35.7893"N	80°13'49.3417"W	3628.84	255.674	0.13
7948.00	42.330	255.850	6623.49	1221.31	-913.62	-3578.75	1762816.83	423304.85	39°39'35.6292"N	80°13'50.1425"W	3693.53	255.679	0.18
8043.00	42.430	255.770	6693.67	1242.62	-929.31	-3640.83	1762754.75	423289.15	39°39'35.4691"N	80°13'50.9346"W	3757.56	255.681	0.12
8139.00	42.280	256.600	6764.61	1264.54	-944.76	-3703.64	1762691.95	423273.71	39°39'35.3114"N	80°13'51.7360"W	3822.24	255.690	0.60
8234.00	42.380	256.260	6834.84	1286.48	-959.77	-3765.83	1762629.76	423258.70	39°39'35.1581"N	80°13'52.5296"W	3886.21	255.702	0.26
8330.00	42.390	256.570	6905.75	1308.67	-974.97	-3828.73	1762566.86	423243.50	39°39'35.0028"N	80°13'53.3323"W	3950.91	255.714	0.22
8425.00	42.450	256.790	6975.88	1330.91	-989.73	-3891.09	1762504.51	423228.74	39°39'34.8519"N	80°13'54.1281"W	4014.99	255.729	0.17
8520.00	42.290	256.090	7046.07	1352.88	-1004.74	-3953.32	1762442.28	423213.73	39°39'34.6985"N	80°13'54.9223"W	4079.01	255.740	0.52
8616.00	43.700	256.080	7116.29	1374.96	-1020.49	-4016.87	1762378.74	423197.99	39°39'34.5378"N	80°13'55.7331"W	4144.47	255.746	1.47
8711.00	44.110	256.450	7184.73	1397.38	-1036.13	-4080.86	1762314.75	423182.35	39°39'34.3781"N	80°13'56.5497"W	4210.34	255.754	0.51
8806.00	44.120	256.090	7252.94	1419.89	-1051.82	-4145.10	1762250.51	423166.65	39°39'34.2178"N	80°13'57.3694"W	4276.47	255.762	0.26
8902.00	44.120	255.770	7321.85	1442.27	-1068.07	-4209.93	1762185.69	423150.41	39°39'34.0520"N	80°13'58.1966"W	4343.30	255.764	0.23
8997.00	44.000	255.630	7390.12	1464.13	-1084.39	-4273.95	1762121.67	423134.09	39°39'33.8856"N	80°13'59.0134"W	4409.37	255.763	0.16
9092.00	44.070	255.580	7458.42	1485.89	-1100.80	-4337.91	1762057.72	423117.67	39°39'33.7182"N	80°13'59.8295"W	4475.40	255.761	0.08
9188.00	44.170	256.040	7527.34	1508.13	-1117.19	-4402.70	1761992.93	423101.29	39°39'33.5511"N	80°14'0.6562"W	4542.23	255.762	0.35
9283.00	44.170	256.130	7595.48	1530.46	-1133.10	-4466.95	1761928.68	423085.37	39°39'33.3886"N	80°14'1.4761"W	4608.43	255.766	0.07
9378.00	44.410	255.260	7663.48	1552.41	-1149.50	-4531.23	1761864.41	423068.98	39°39'33.2214"N	80°14'2.2962"W	4674.76	255.765	0.69
9472.00	48.440	267.950	7728.40	1581.55	-1159.15	-4598.36	1761797.28	423059.33	39°39'33.1206"N	80°14'3.1535"W	4742.20	255.852	10.66
9567.00	51.960	273.970	7789.23	1623.03	-1157.83	-4671.26	1761724.39	423060.65	39°39'33.1278"N	80°14'4.0857"W	4812.61	256.079	6.12
9662.00	54.210	286.160	7846.43	1675.41	-1144.48	-4745.78	1761649.87	423074.00	39°39'33.2536"N	80°14'5.0399"W	4881.83	256.442	10.52
9757.00	60.060	296.850	7898.06	1740.84	-1115.08	-4819.72	1761575.93	423103.40	39°39'33.5382"N	80°14'5.9885"W	4947.03	256.973	11.27
9852.00	65.780	301.070	7941.31	1815.92	-1074.08	-4893.64	1761502.02	423144.39	39°39'33.9374"N	80°14'6.9378"W	5010.12	257.621	7.20
9947.00	71.270	305.800	7976.09	1897.30	-1025.35	-4967.32	1761428.34	423193.12	39°39'34.4130"N	80°14'7.8850"W	5072.04	258.337	7.41
10043.00	77.660	312.170	8001.81	1985.49	-967.17	-5039.09	1761356.58	423251.30	39°39'34.9822"N	80°14'8.8087"W	5131.06	259.135	9.23
10138.00	81.350	318.850	8019.13	2077.16	-900.56	-5104.47	1761291.20	423317.91	39°39'35.6352"N	80°14'9.6517"W	5183.30	259.995	7.93
10233.00	85.870	324.820	8029.71	2171.21	-826.37	-5162.75	1761232.92	423392.09	39°39'36.3636"N	80°14'10.4047"W	5228.47	260.906	7.85
10329.00	86.640	326.630	8035.98	2267.00	-747.21	-5216.70	1761178.98	423471.24	39°39'37.1415"N	80°14'11.1027"W	5269.94	261.849	2.05
10424.00	89.230	326.410	8039.41	2361.93	-668.04	-5269.07	1761126.62	423550.42	39°39'37.9198"N	80°14'11.7806"W	5311.24	262.774	2.74

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Actual Wellpath Report

Bunner 19H awp Proj: 25930'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	NORTHEAST NATURAL ENERGY, LLC		Well	Bunner 19H
Field	Monongalia		API	47-061-01967
Facility	Bunner Pad		Wellbore	Bunner 19H AWB
Slot	19H			

WELLPATH DATA (314 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]
10520.00	89.750	326.630	8040.26	2457.92	-587.97	-5322.02	1761073.66	423630.48	39°39'38.7068"N	80°14'12.4661"W	5354.40	263.696	0.59
10615.00	89.910	326.350	8040.54	2552.92	-508.76	-5374.47	1761021.22	423709.68	39°39'39.4853"N	80°14'13.1450"W	5398.49	264.592	0.34
10710.00	90.030	326.770	8040.59	2647.92	-429.48	-5426.82	1760968.87	423788.95	39°39'40.2645"N	80°14'13.8227"W	5443.79	265.475	0.46
10806.00	90.250	326.540	8040.36	2743.92	-349.29	-5479.59	1760916.11	423869.14	39°39'41.0528"N	80°14'14.5058"W	5490.71	266.353	0.33
10901.00	89.690	325.350	8040.41	2838.91	-270.58	-5532.79	1760862.91	423947.84	39°39'41.8263"N	80°14'15.1943"W	5539.40	267.200	1.38
10997.00	89.750	326.600	8040.88	2934.91	-191.02	-5586.50	1760809.20	424027.40	39°39'42.6082"N	80°14'15.8894"W	5589.77	268.042	1.30
11092.00	89.780	326.500	8041.27	3029.91	-111.76	-5638.87	1760756.84	424106.66	39°39'43.3873"N	80°14'16.5673"W	5639.97	268.865	0.11
11188.00	90.400	326.560	8041.12	3125.91	-31.68	-5691.81	1760703.90	424186.74	39°39'44.1744"N	80°14'17.2527"W	5691.90	269.681	0.65
11283.00	90.280	326.480	8040.55	3220.90	47.56	-5744.22	1760651.50	424265.97	39°39'44.9532"N	80°14'17.9311"W	5744.41	270.474	0.15
11378.00	90.060	326.350	8040.27	3315.90	126.70	-5796.77	1760598.95	424345.10	39°39'45.7310"N	80°14'18.6114"W	5798.15	271.252	0.27
11473.00	89.940	327.100	8040.27	3410.90	206.12	-5848.89	1760546.83	424424.52	39°39'46.5117"N	80°14'19.2862"W	5852.52	272.018	0.80
11568.00	89.720	326.230	8040.55	3505.90	285.49	-5901.09	1760494.63	424503.89	39°39'47.2918"N	80°14'19.9620"W	5908.00	272.770	0.94
11663.00	89.850	326.560	8040.91	3600.90	364.62	-5953.67	1760442.05	424583.00	39°39'48.0695"N	80°14'20.6427"W	5964.83	273.505	0.37
11759.00	89.630	326.280	8041.35	3696.90	444.59	-6006.77	1760388.96	424662.98	39°39'48.8555"N	80°14'21.3300"W	6023.20	274.233	0.37
11854.00	89.910	326.730	8041.73	3791.90	523.82	-6059.20	1760336.53	424742.19	39°39'49.6342"N	80°14'22.0087"W	6081.80	274.941	0.56
11949.00	90.220	326.720	8041.62	3886.89	603.24	-6111.32	1760284.42	424821.61	39°39'50.4149"N	80°14'22.6835"W	6141.02	275.637	0.33
12044.00	90.580	327.530	8040.96	3981.88	683.02	-6162.88	1760232.85	424901.39	39°39'51.1991"N	80°14'23.3513"W	6200.62	276.324	0.93
12139.00	90.830	326.700	8039.79	4076.87	762.79	-6214.46	1760181.28	424981.16	39°39'51.9833"N	80°14'24.0192"W	6261.10	276.998	0.91
12235.00	90.550	326.610	8038.63	4172.86	842.98	-6267.22	1760128.52	425061.34	39°39'52.7715"N	80°14'24.7023"W	6323.66	277.661	0.31
12330.00	90.860	326.290	8037.46	4267.85	922.15	-6319.72	1760076.02	425140.51	39°39'53.5496"N	80°14'25.3820"W	6386.65	278.302	0.47
12425.00	90.220	325.800	8036.57	4362.84	1000.95	-6372.78	1760022.97	425219.30	39°39'54.3240"N	80°14'26.0687"W	6450.91	278.926	0.85
12520.00	91.110	326.310	8035.46	4457.83	1079.75	-6425.83	1759969.93	425298.10	39°39'55.0984"N	80°14'26.7553"W	6515.91	279.538	1.08
12616.00	90.550	326.160	8034.07	4553.82	1159.55	-6479.18	1759916.58	425377.89	39°39'55.8827"N	80°14'27.4459"W	6582.12	280.147	0.60
12710.00	92.030	326.740	8031.96	4647.80	1237.87	-6531.11	1759864.65	425456.20	39°39'56.6524"N	80°14'28.1183"W	6647.39	280.732	1.69
12806.00	90.520	327.230	8029.82	4743.76	1318.34	-6583.40	1759812.36	425536.67	39°39'57.4435"N	80°14'28.7954"W	6714.11	281.324	1.65
12901.00	90.800	324.760	8028.73	4838.75	1397.09	-6636.53	1759759.24	425615.41	39°39'58.2173"N	80°14'29.4830"W	6781.99	281.888	2.62
12996.00	90.740	325.920	8027.45	4933.72	1475.22	-6690.55	1759705.22	425693.54	39°39'58.9851"N	80°14'30.1820"W	6851.25	282.434	1.22
13092.00	90.310	325.770	8026.57	5029.71	1554.66	-6744.44	1759651.33	425772.97	39°39'59.7657"N	80°14'30.8796"W	6921.30	282.980	0.47
13187.00	90.860	327.020	8025.60	5124.71	1633.77	-6797.02	1759598.76	425852.08	39°40'0.5433"N	80°14'31.5603"W	6990.61	283.516	1.44
13282.00	90.830	326.920	8024.20	5219.69	1713.41	-6848.79	1759546.98	425931.72	39°40'1.3261"N	80°14'32.2308"W	7059.87	284.046	0.11

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Actual Wellpath Report

Bunner 19H awp Proj: 25930'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 19H
Field	Monongalia	API	47-061-01967
Facility	Bunner Pad	Wellbore	Bunner 19H AWB
Slot	19H		

WELLPATH DATA (314 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]
13378.00	90.650	326.840	8022.96	5315.68	1793.81	-6901.24	1759494.54	426012.11	39°40'2.1163"N	80°14'32.9099"W	7130.56	284.570	0.21
13473.00	90.580	326.730	8021.94	5410.67	1873.28	-6953.28	1759442.50	426091.58	39°40'2.8975"N	80°14'33.5837"W	7201.20	285.078	0.14
13569.00	90.890	326.830	8020.71	5506.66	1953.59	-7005.87	1759389.92	426171.88	39°40'3.6868"N	80°14'34.2647"W	7273.15	285.581	0.34
13664.00	90.060	326.450	8019.92	5601.66	2032.93	-7058.11	1759337.68	426251.22	39°40'4.4667"N	80°14'34.9411"W	7345.04	286.068	0.96
13759.00	90.180	326.190	8019.72	5696.66	2111.98	-7110.79	1759285.00	426330.27	39°40'5.2436"N	80°14'35.6231"W	7417.80	286.542	0.30
13854.00	90.090	326.110	8019.50	5791.66	2190.88	-7163.71	1759232.09	426409.16	39°40'6.0190"N	80°14'36.3082"W	7491.24	287.005	0.13
13949.00	89.850	327.090	8019.55	5886.65	2270.19	-7216.00	1759179.80	426488.46	39°40'6.7985"N	80°14'36.9853"W	7564.68	287.464	1.06
14044.00	89.970	325.890	8019.70	5981.65	2349.40	-7268.45	1759127.36	426567.67	39°40'7.5770"N	80°14'37.6643"W	7638.72	287.913	1.27
14139.00	90.520	326.080	8019.29	6076.65	2428.14	-7321.59	1759074.22	426646.40	39°40'8.3508"N	80°14'38.3522"W	7713.73	288.348	0.61
14235.00	90.950	326.350	8018.06	6172.64	2507.92	-7374.97	1759020.84	426726.18	39°40'9.1349"N	80°14'39.0433"W	7789.73	288.781	0.53
14330.00	90.520	325.760	8016.84	6267.63	2586.73	-7428.01	1758967.80	426804.98	39°40'9.9093"N	80°14'39.7299"W	7865.53	289.200	0.77
14425.00	90.680	326.330	8015.85	6362.62	2665.52	-7481.07	1758914.74	426883.77	39°40'10.6837"N	80°14'40.4168"W	7941.75	289.611	0.62
14521.00	90.770	325.580	8014.63	6458.61	2745.06	-7534.81	1758861.01	426963.30	39°40'11.4653"N	80°14'41.1124"W	8019.27	290.018	0.79
14615.00	90.890	326.340	8013.27	6552.60	2822.95	-7587.42	1758808.40	427041.18	39°40'12.2307"N	80°14'41.7935"W	8095.56	290.408	0.82
14711.00	90.180	326.240	8012.37	6648.59	2902.80	-7640.70	1758755.13	427121.03	39°40'13.0155"N	80°14'42.4833"W	8173.53	290.802	0.75
14806.00	90.430	326.660	8011.87	6743.59	2981.97	-7693.20	1758702.63	427200.20	39°40'13.7936"N	80°14'43.1631"W	8250.91	291.187	0.51
14902.00	89.970	326.070	8011.53	6839.59	3061.90	-7746.38	1758649.46	427280.12	39°40'14.5791"N	80°14'43.8515"W	8329.56	291.567	0.78
14997.00	90.280	326.450	8011.32	6934.59	3140.90	-7799.14	1758596.69	427359.12	39°40'15.3555"N	80°14'44.5347"W	8407.84	291.936	0.52
15092.00	90.120	326.350	8010.99	7029.59	3220.02	-7851.71	1758544.13	427438.24	39°40'16.1332"N	80°14'45.2154"W	8486.34	292.299	0.20
15188.00	90.220	326.630	8010.71	7125.59	3300.07	-7904.71	1758491.13	427518.28	39°40'16.9198"N	80°14'45.9016"W	8565.92	292.660	0.31
15283.00	90.220	326.430	8010.34	7220.59	3379.31	-7957.11	1758438.74	427597.52	39°40'17.6987"N	80°14'46.5800"W	8644.96	293.011	0.21
15378.00	90.150	326.200	8010.04	7315.59	3458.36	-8009.80	1758386.05	427676.56	39°40'18.4756"N	80°14'47.2622"W	8724.51	293.353	0.25
15474.00	90.120	326.530	8009.81	7411.59	3538.29	-8062.97	1758332.88	427756.48	39°40'19.2611"N	80°14'47.9507"W	8805.17	293.693	0.35
15569.00	90.120	326.520	8009.61	7506.59	3617.53	-8115.37	1758280.49	427835.72	39°40'20.0399"N	80°14'48.6292"W	8885.14	294.026	0.01
15665.00	90.430	326.450	8009.15	7602.58	3697.57	-8168.37	1758227.48	427915.75	39°40'20.8265"N	80°14'49.3156"W	8966.29	294.355	0.33
15760.00	90.280	326.500	8008.56	7697.58	3776.76	-8220.24	1758175.02	427994.94	39°40'21.6049"N	80°14'49.9950"W	9046.89	294.675	0.17
15855.00	90.650	326.480	8007.79	7792.58	3855.97	-8273.29	1758122.58	428074.15	39°40'22.3833"N	80°14'50.6741"W	9127.75	294.989	0.39
15950.00	91.080	326.170	8006.36	7887.57	3935.02	-8325.96	1758069.91	428153.19	39°40'23.1602"N	80°14'51.3561"W	9209.02	295.296	0.56
16046.00	91.080	326.330	8004.55	7983.55	4014.83	-8379.28	1758016.59	428232.99	39°40'23.9445"N	80°14'52.0465"W	9291.46	295.601	0.17
16140.00	90.490	325.650	8003.26	8077.54	4092.74	-8431.86	1757964.02	428310.90	39°40'24.7101"N	80°14'52.7272"W	9372.66	295.891	0.96

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Bunner 19H awp Proj: 25930'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 19H
Field	Monongalia	API	47-061-01967
Facility	Bunner Pad	Wellbore	Bunner 19H AWB
Slot	19H		

WELLPATH DATA (314 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]
16236.00	90.150	326.300	8002.72	8173.53	4172.30	-8485.57	1757910.31	428390.46	39°40'25.4920"N	80°14'53.4226"W	9455.85	296.183	0.76
16331.00	89.910	325.950	8002.67	8268.53	4251.18	-8538.52	1757857.36	428469.33	39°40'26.2671"N	80°14'54.1081"W	9538.28	296.468	0.45
16427.00	89.660	325.770	8003.03	8364.53	4330.63	-8592.40	1757803.49	428548.78	39°40'27.0479"N	80°14'54.8056"W	9622.04	296.748	0.32
16522.00	89.880	326.700	8003.42	8459.53	4409.61	-8645.20	1757750.69	428627.75	39°40'27.8240"N	80°14'55.4893"W	9704.85	297.025	1.01
16617.00	89.110	325.660	8004.25	8554.52	4488.53	-8698.07	1757697.82	428706.66	39°40'28.5996"N	80°14'56.1738"W	9787.92	297.295	1.36
16712.00	89.630	326.130	8005.30	8649.51	4567.18	-8751.33	1757644.56	428785.31	39°40'29.3725"N	80°14'56.8634"W	9871.42	297.559	0.74
16808.00	91.450	326.630	8004.39	8745.50	4647.12	-8804.48	1757591.41	428865.24	39°40'30.1581"N	80°14'57.5516"W	9955.63	297.826	1.97
16903.00	90.060	326.580	8003.14	8840.49	4726.42	-8856.77	1757539.13	428944.55	39°40'30.9375"N	80°14'58.2287"W	10038.99	298.087	1.46
16999.00	89.880	326.620	8003.19	8936.49	4806.57	-8909.61	1757486.29	429024.69	39°40'31.7252"N	80°14'58.9131"W	10123.45	298.346	0.19
17093.00	90.030	326.740	8003.26	9030.49	4885.12	-8961.25	1757434.66	429103.23	39°40'32.4972"N	80°14'59.5819"W	10206.29	298.596	0.20
17189.00	90.000	326.160	8003.24	9126.49	4965.12	-9014.30	1757381.61	429183.23	39°40'33.2835"N	80°15'0.2689"W	10291.26	298.846	0.60
17283.00	90.310	326.800	8002.99	9220.49	5043.49	-9066.21	1757329.70	429261.59	39°40'34.0537"N	80°15'0.9412"W	10374.63	299.087	0.76
17378.00	90.030	326.600	8002.70	9315.48	5122.89	-9118.37	1757277.55	429340.99	39°40'34.8341"N	80°15'1.6167"W	10458.90	299.328	0.36
17474.00	89.780	326.280	8002.86	9411.48	5202.89	-9171.44	1757224.48	429420.98	39°40'35.6203"N	80°15'2.3039"W	10544.45	299.566	0.42
17569.00	89.850	326.190	8003.17	9506.48	5281.86	-9224.24	1757171.69	429499.95	39°40'36.3964"N	80°15'2.9876"W	10629.42	299.796	0.12
17665.00	89.910	326.450	8003.37	9602.48	5361.75	-9277.48	1757118.45	429579.83	39°40'37.1814"N	80°15'3.6770"W	10715.40	300.025	0.28
17760.00	89.750	326.030	8003.65	9697.48	5440.73	-9330.27	1757065.66	429658.81	39°40'37.9576"N	80°15'4.3606"W	10800.71	300.248	0.47
17855.00	89.820	326.460	8004.01	9792.48	5519.71	-9383.05	1757012.88	429737.79	39°40'38.7338"N	80°15'5.0442"W	10886.18	300.467	0.46
17951.00	90.000	326.390	8004.16	9888.48	5599.70	-9436.14	1756959.79	429817.77	39°40'39.5199"N	80°15'5.7317"W	10972.58	300.686	0.20
18046.00	89.780	326.400	8004.34	9983.48	5678.82	-9488.72	1756907.22	429896.88	39°40'40.2974"N	80°15'6.4126"W	11058.25	300.900	0.23
18141.00	89.850	326.020	8004.65	10078.48	5757.77	-9541.56	1756854.39	429975.83	39°40'41.0733"N	80°15'7.0968"W	11144.20	301.109	0.41
18237.00	90.000	326.900	8004.77	10174.48	5837.79	-9594.60	1756801.35	430055.84	39°40'41.8597"N	80°15'7.7837"W	11231.03	301.318	0.93
18332.00	90.550	327.140	8004.32	10269.47	5917.48	-9646.31	1756749.64	430135.53	39°40'42.6429"N	80°15'8.4536"W	11316.71	301.527	0.63
18428.00	90.250	326.430	8003.65	10365.46	5997.79	-9698.90	1756697.06	430215.83	39°40'43.4323"N	80°15'9.1348"W	11403.60	301.733	0.80
18523.00	90.060	325.740	8003.39	10460.46	6076.63	-9751.90	1756644.05	430294.67	39°40'44.2070"N	80°15'9.8211"W	11490.21	301.928	0.75
18618.00	90.400	326.150	8003.01	10555.46	6155.33	-9805.10	1756590.86	430373.37	39°40'44.9804"N	80°15'10.5099"W	11577.05	302.119	0.56
18713.00	90.180	326.100	8002.53	10650.46	6234.21	-9858.05	1756537.91	430452.24	39°40'45.7555"N	80°15'11.1956"W	11663.90	302.309	0.24
18808.00	90.120	326.220	8002.28	10745.46	6313.11	-9910.95	1756485.01	430531.14	39°40'46.5309"N	80°15'11.8807"W	11750.85	302.496	0.14
18903.00	89.260	325.850	8002.79	10840.45	6391.90	-9964.03	1756431.94	430609.92	39°40'47.3051"N	80°15'12.5679"W	11838.00	302.680	0.99
18998.00	89.350	326.570	8003.95	10935.44	6470.85	-10016.86	1756379.11	430688.86	39°40'48.0810"N	80°15'13.2521"W	11925.15	302.862	0.76

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Actual Wellpath Report

Bunner 19H awp Proj: 25930'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 19H
Field	Monongalia	API	47-061-01967
Facility	Bunner Pad	Wellbore	Bunner 19H AWB
Slot	19H		

WELLPATH DATA (314 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]
19092.00	88.310	326.260	8005.87	11029.42	6549.14	-10068.84	1756327.13	430767.15	39°40'48.8503"N	80°15'13.9254"W	12011.36	303.041	1.15
19187.00	88.830	326.910	8008.24	11124.39	6628.41	-10121.14	1756274.83	430846.42	39°40'49.6294"N	80°15'14.6028"W	12098.49	303.221	0.88
19283.00	88.490	326.280	8010.48	11220.36	6708.53	-10173.98	1756222.00	430926.53	39°40'50.4168"N	80°15'15.2872"W	12186.64	303.400	0.75
19378.00	89.260	326.630	8012.35	11315.34	6787.69	-10226.47	1756169.52	431005.69	39°40'51.1948"N	80°15'15.9670"W	12274.09	303.574	0.89
19473.00	89.200	326.450	8013.62	11410.34	6866.94	-10278.84	1756117.15	431084.93	39°40'51.9736"N	80°15'16.6453"W	12361.61	303.746	0.20
19569.00	89.720	326.400	8014.53	11506.33	6946.92	-10331.93	1756064.06	431164.91	39°40'52.7596"N	80°15'17.3329"W	12450.24	303.916	0.54
19664.00	88.950	326.040	8015.63	11601.32	7025.88	-10384.75	1756011.25	431243.86	39°40'53.5355"N	80°15'18.0169"W	12538.18	304.081	0.89
19760.00	89.050	326.450	8017.31	11697.31	7105.68	-10438.08	1755957.92	431323.66	39°40'54.3197"N	80°15'18.7076"W	12627.12	304.245	0.44
19855.00	88.770	325.950	8019.11	11792.29	7184.61	-10490.92	1755905.08	431402.58	39°40'55.0953"N	80°15'19.3919"W	12715.26	304.405	0.60
19950.00	89.110	326.370	8020.87	11887.27	7263.50	-10543.81	1755852.19	431481.47	39°40'55.8706"N	80°15'20.0769"W	12803.53	304.562	0.57
20045.00	89.600	326.260	8021.94	11982.27	7342.55	-10596.50	1755799.51	431560.51	39°40'56.6474"N	80°15'20.7593"W	12891.81	304.719	0.53
20140.00	88.550	325.240	8023.47	12077.25	7421.06	-10649.96	1755746.05	431639.02	39°40'57.4189"N	80°15'21.4515"W	12980.51	304.869	1.54
20235.00	88.150	326.200	8026.21	12172.20	7499.52	-10703.44	1755692.57	431717.48	39°40'58.1898"N	80°15'22.1440"W	13069.30	305.018	1.09
20330.00	87.780	326.240	8029.58	12267.14	7578.44	-10756.23	1755639.79	431796.38	39°40'58.9653"N	80°15'22.8277"W	13157.85	305.167	0.39
20426.00	87.350	325.970	8033.66	12363.05	7658.05	-10809.72	1755586.30	431875.99	39°40'59.7476"N	80°15'23.5204"W	13247.48	305.315	0.53
20521.00	87.450	326.970	8037.97	12457.95	7737.16	-10862.14	1755533.89	431955.10	39°41'0.5251"N	80°15'24.1994"W	13336.03	305.462	1.06
20616.00	87.970	326.000	8041.77	12552.87	7816.30	-10914.55	1755481.48	432034.23	39°41'1.3028"N	80°15'24.8782"W	13424.68	305.608	1.16
20711.00	88.740	326.250	8044.49	12647.83	7895.14	-10967.48	1755428.55	432113.07	39°41'2.0775"N	80°15'25.5637"W	13513.65	305.749	0.85
20807.00	88.220	325.360	8047.04	12743.79	7974.52	-11021.41	1755374.62	432192.44	39°41'2.8575"N	80°15'26.2621"W	13603.84	305.888	1.07
20902.00	88.030	326.280	8050.15	12838.74	8053.06	-11074.75	1755321.28	432270.98	39°41'3.6293"N	80°15'26.9528"W	13693.14	306.023	0.99
20998.00	87.810	325.950	8053.63	12934.67	8132.71	-11128.24	1755267.80	432350.62	39°41'4.4119"N	80°15'27.6456"W	13783.27	306.160	0.41
21093.00	87.940	326.400	8057.16	13029.61	8211.57	-11181.09	1755214.96	432429.48	39°41'5.1869"N	80°15'28.3300"W	13872.51	306.294	0.49
21189.00	87.910	326.190	8060.63	13125.54	8291.38	-11234.32	1755161.72	432509.29	39°41'5.9712"N	80°15'29.0195"W	13962.70	306.429	0.22
21284.00	87.850	325.870	8064.15	13220.48	8370.12	-11287.37	1755108.68	432588.01	39°41'6.7448"N	80°15'29.7065"W	14052.17	306.559	0.34
21380.00	87.850	326.080	8067.75	13316.41	8449.62	-11341.05	1755055.00	432667.52	39°41'7.5261"N	80°15'30.4017"W	14142.68	306.688	0.22
21475.00	87.380	326.210	8071.70	13411.32	8528.45	-11393.93	1755002.13	432746.34	39°41'8.3006"N	80°15'31.0866"W	14232.22	306.815	0.51
21571.00	87.510	326.910	8075.98	13507.23	8608.48	-11446.77	1754949.28	432826.36	39°41'9.0871"N	80°15'31.7712"W	14322.52	306.945	0.74
21666.00	87.750	326.180	8079.91	13602.14	8687.67	-11499.10	1754896.96	432905.55	39°41'9.8654"N	80°15'32.4491"W	14411.97	307.071	0.81
21762.00	88.800	325.830	8082.80	13698.10	8767.22	-11552.75	1754843.31	432985.10	39°41'10.6471"N	80°15'33.1439"W	14502.77	307.194	1.15
21857.00	89.970	326.650	8083.82	13793.09	8846.20	-11605.54	1754790.53	433064.07	39°41'11.4231"N	80°15'33.8276"W	14592.59	307.316	1.50

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Actual Wellpath Report

Bunner 19H awp Proj: 25930'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 19H
Field	Monongalia	API	47-061-01967
Facility	Bunner Pad	Wellbore	Bunner 19H AWB
Slot	19H		

WELLPATH DATA (314 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]
21952.00	89.450	325.880	8084.30	13888.09	8925.20	-11658.30	1754737.77	433143.06	39°41'12.1995"N	80°15'34.5110"W	14682.47	307.436	0.98
22048.00	88.920	324.510	8085.67	13984.05	9004.01	-11713.09	1754682.99	433221.87	39°41'12.9738"N	80°15'35.2203"W	14773.92	307.550	1.53
22143.00	88.400	325.810	8087.89	14079.00	9081.96	-11767.34	1754628.74	433299.82	39°41'13.7396"N	80°15'35.9227"W	14864.47	307.661	1.47
22237.00	88.400	325.670	8090.51	14172.96	9159.62	-11820.24	1754575.84	433377.47	39°41'14.5026"N	80°15'36.6077"W	14953.82	307.772	0.15
22332.00	88.950	326.110	8092.71	14267.93	9238.26	-11873.50	1754522.59	433456.10	39°41'15.2753"N	80°15'37.2975"W	15044.11	307.885	0.74
22427.00	89.260	326.260	8094.19	14362.92	9317.18	-11926.36	1754469.73	433535.02	39°41'16.0508"N	80°15'37.9822"W	15134.33	307.998	0.36
22523.00	89.140	326.460	8095.53	14458.91	9397.09	-11979.54	1754416.55	433614.93	39°41'16.8361"N	80°15'38.6710"W	15225.46	308.112	0.24
22617.00	89.660	325.670	8096.52	14552.90	9475.08	-12032.01	1754364.09	433692.91	39°41'17.6024"N	80°15'39.3507"W	15314.90	308.220	1.01
22712.00	90.680	325.530	8096.24	14647.89	9553.46	-12085.68	1754310.42	433771.29	39°41'18.3725"N	80°15'40.0457"W	15405.59	308.326	1.08
22807.00	89.540	325.260	8096.05	14742.88	9631.65	-12139.63	1754256.47	433849.47	39°41'19.1407"N	80°15'40.7443"W	15496.43	308.429	1.23
22902.00	90.370	327.890	8096.13	14837.87	9710.93	-12191.96	1754204.15	433928.75	39°41'19.9198"N	80°15'41.4222"W	15586.72	308.537	2.90
22997.00	89.910	327.610	8095.90	14932.84	9791.28	-12242.65	1754153.46	434009.09	39°41'20.7096"N	80°15'42.0793"W	15676.46	308.652	0.57
23092.00	88.220	326.700	8097.45	15027.81	9871.07	-12294.16	1754101.95	434088.88	39°41'21.4939"N	80°15'42.7469"W	15766.57	308.761	2.02
23188.00	90.400	327.470	8098.60	15123.79	9951.65	-12346.32	1754049.79	434169.46	39°41'22.2858"N	80°15'43.4228"W	15857.71	308.870	2.41
23283.00	91.350	327.650	8097.15	15218.76	10031.82	-12397.28	1753998.84	434249.62	39°41'23.0738"N	80°15'44.0833"W	15947.72	308.980	1.02
23378.00	92.250	327.530	8094.17	15313.69	10111.98	-12448.17	1753947.95	434329.77	39°41'23.8617"N	80°15'44.7430"W	16037.74	309.088	0.96
23474.00	92.060	327.830	8090.56	15409.60	10193.05	-12499.46	1753896.67	434410.84	39°41'24.6586"N	80°15'45.4079"W	16128.69	309.197	0.37
23569.00	91.880	326.150	8087.29	15504.53	10272.67	-12551.18	1753844.95	434490.45	39°41'25.4410"N	80°15'46.0781"W	16219.12	309.299	1.78
23664.00	90.180	326.300	8085.58	15599.51	10351.62	-12603.98	1753792.15	434569.39	39°41'26.2168"N	80°15'46.7621"W	16310.01	309.396	1.80
23759.00	90.280	326.180	8085.20	15694.51	10430.60	-12656.78	1753739.36	434648.37	39°41'26.9929"N	80°15'47.4460"W	16400.95	309.492	0.16
23854.00	92.550	327.530	8082.86	15789.47	10510.11	-12708.70	1753687.44	434727.88	39°41'27.7743"N	80°15'48.1188"W	16491.61	309.591	2.78
23950.00	91.110	326.960	8079.79	15885.41	10590.80	-12760.61	1753635.53	434808.56	39°41'28.5674"N	80°15'48.7916"W	16583.07	309.691	1.61
24045.00	87.510	325.400	8080.93	15980.38	10669.70	-12813.47	1753582.67	434887.46	39°41'29.3427"N	80°15'49.4764"W	16674.16	309.784	4.13
24140.00	89.630	327.240	8083.31	16075.34	10748.72	-12866.13	1753530.01	434966.48	39°41'30.1192"N	80°15'50.1586"W	16765.21	309.876	2.95
24236.00	90.220	326.790	8083.43	16171.34	10829.25	-12918.40	1753477.75	435047.00	39°41'30.9106"N	80°15'50.8359"W	16856.97	309.972	0.77
24331.00	90.250	327.080	8083.04	16266.33	10908.86	-12970.23	1753425.93	435126.61	39°41'31.6931"N	80°15'51.5076"W	16947.86	310.066	0.31
24426.00	91.510	327.010	8081.58	16361.31	10988.57	-13021.90	1753374.26	435206.31	39°41'32.4764"N	80°15'52.1773"W	17038.73	310.159	1.33
24521.00	91.540	326.560	8079.05	16456.28	11068.02	-13073.92	1753322.24	435285.75	39°41'33.2572"N	80°15'52.8514"W	17129.75	310.250	0.47
24616.00	92.180	327.300	8075.97	16551.22	11147.59	-13125.73	1753270.43	435365.31	39°41'34.0391"N	80°15'53.5228"W	17220.73	310.341	1.03
24712.00	92.580	327.120	8071.98	16647.13	11228.22	-13177.67	1753218.49	435445.94	39°41'34.8316"N	80°15'54.1960"W	17312.54	310.433	0.46

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Bunner 19H awp Proj: 25930'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 19H
Field	Monongalia	API	47-061-01967
Facility	Bunner Pad	Wellbore	Bunner 19H AWB
Slot	19H		

WELLPATH DATA (314 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]
24807.00	92.860	327.130	8067.48	16742.01	11307.92	-13229.18	1753166.99	435525.64	39°41'35.6149"N	80°15'54.8636"W	17403.45	310.523	0.29
24903.00	93.420	327.260	8062.22	16837.86	11388.48	-13281.11	1753115.06	435606.20	39°41'36.4067"N	80°15'55.5367"W	17495.30	310.613	0.60
24998.00	93.540	327.650	8056.45	16932.66	11468.42	-13332.13	1753064.05	435686.13	39°41'37.1924"N	80°15'56.1980"W	17586.08	310.702	0.43
25094.00	93.660	327.830	8050.42	17028.45	11549.44	-13383.27	1753012.91	435767.14	39°41'37.9888"N	80°15'56.8610"W	17677.71	310.793	0.23
25189.00	94.250	327.080	8043.87	17123.20	11629.33	-13434.25	1752961.93	435847.03	39°41'38.7740"N	80°15'57.5219"W	17768.52	310.881	1.00
25284.00	94.310	326.230	8036.78	17217.94	11708.47	-13486.32	1752909.86	435926.16	39°41'39.5517"N	80°15'58.1967"W	17859.71	310.964	0.89
25380.00	94.960	325.890	8029.02	17313.62	11787.85	-13539.75	1752856.44	436005.54	39°41'40.3317"N	80°15'58.8888"W	17952.11	311.043	0.76
25475.00	95.050	326.130	8020.73	17408.26	11866.32	-13592.65	1752803.54	436084.00	39°41'41.1027"N	80°15'59.5742"W	18043.55	311.121	0.27
25570.00	95.550	326.180	8011.96	17502.85	11944.88	-13645.34	1752750.86	436162.56	39°41'41.8746"N	80°16'0.2567"W	18134.92	311.198	0.53
25665.00	96.660	325.740	8001.86	17597.31	12023.16	-13698.21	1752697.98	436240.83	39°41'42.6437"N	80°16'0.9416"W	18226.28	311.274	1.26
25760.00	97.180	325.510	7990.41	17691.61	12100.99	-13751.46	1752644.74	436318.67	39°41'43.4085"N	80°16'1.6313"W	18317.66	311.347	0.60
25855.00	98.550	326.310	7977.41	17785.71	12178.93	-13804.21	1752592.00	436396.59	39°41'44.1742"N	80°16'2.3146"W	18408.76	311.421	1.67
25905.00	98.930	326.490	7969.81	17835.12	12220.09	-13831.55	1752564.65	436437.75	39°41'44.5786"N	80°16'2.6689"W	18456.50	311.460	0.84
25930.00‡	98.930	326.490	7965.93	17859.82	12240.68	-13845.19	1752551.02	436458.34	39°41'44.7810"N	80°16'2.8456"W	18480.35	311.480	0.00

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Actual Wellpath Report

Bunner 19H awp Proj: 25930'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 19H
Field	Monongalia	API	47-061-01967
Facility	Bunner Pad	Wellbore	Bunner 19H AWB
Slot	19H		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Bunner 19H BHL Rev-4	8118.00	12237.16	-13855.61	1752540.59	436454.82	39°41'44.7453"N	80°16'2.9785"W	point
Bunner 19H LP Rev-4	8118.00	-817.59	-5173.30	1761222.38	423400.87	39°39'36.4496"N	80°14'10.5404"W	point
Bunner Pad Unit Lines 4.25.2025	11028.50	-1186.85	-1928.10	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 19H AWB					Ref Wellpath: Bunner 19H awp Proj: 25930'	
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date	
28.50	1153.50	BH Generic gyro - northseeking (Standard)	1 Imported GYRO Scientific 50' - 1150'	Bunner 19H AWB	4/28/2025	
1153.50	6436.50	OWSG MWD rev2 + HRGM	2 Imported MWD Scientific 1333' - 6433'	Bunner 19H AWB	4/28/2025	
6436.50	25930.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	3 BH MWD ATC HRGM Short spacing 8.5" 6517' -25905'	Bunner 19H AWB	4/28/2025	

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