

NORTHEAST NATURAL ENERGY, LLC

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

Slot: Slot 3H
Well: Bunner 3H
Wellbore: Bunner 3H PWB



Well Name: Bunner 3H PWB	Well ID: 26076 (Final Survey) / 26076 (Projected)
Well Type: Production	Well Status: Open
Well Completion: 26076 (Final Survey) / 26076 (Projected)	Well Depth: 26076
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Location Information					
Facility Name:	Grid East (US R)	Grid North (US R)	Latitude	Longitude	
Bunner Pad	1705458.500	424248.370	39°29'45.2143"N	80°13'3.4173"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US R)	Grid North (US R)	Longitude
Slot 3H	-0.10	20.00	1705478.500	424248.270	-89°09'45.2449"W
Patterson 277 (HRGM) to Ground level (At Slot Slot 3H)					298
Mean Sea Level to Ground level (At Slot Slot 3H)					-12778
Patterson 277 (HRGM) to Mean Sea Level					13205

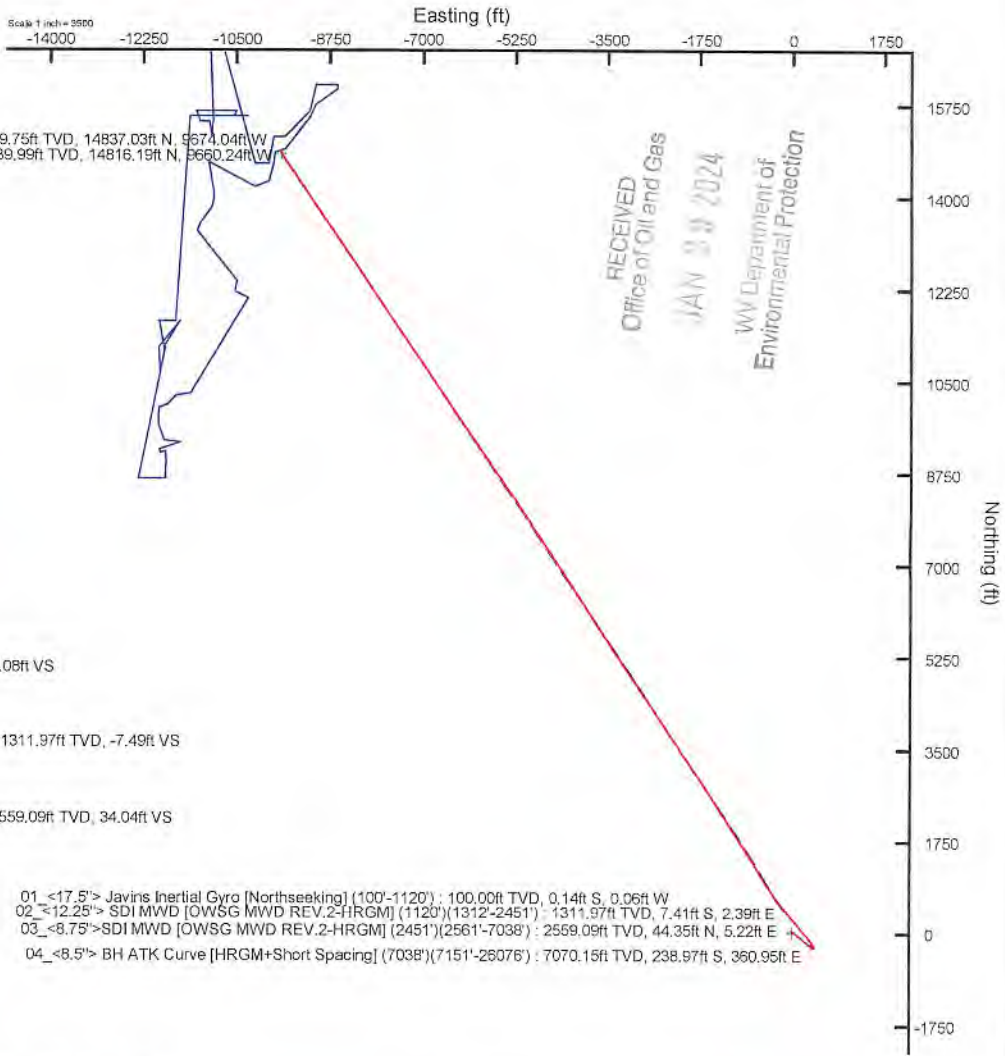
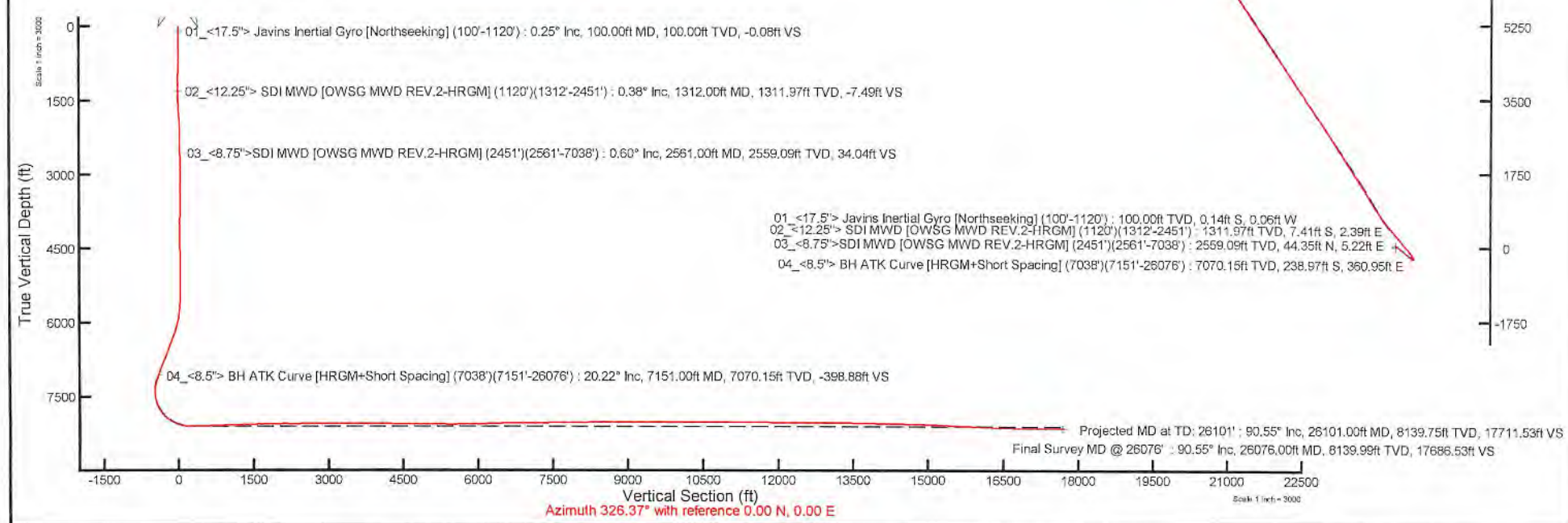
Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLE (ft/100ft)	VS (ft)
Top Cm	7558.00	22.210	126.460	8994.81	-210.29	327.65	1.20	-980.69
Projection	7114.00	22.210	126.460	7035.17	-232.33	350.76	0.00	-987.70
Build+Turn	7172.59	26.860	129.557	7088.83	-247.45	370.01	8.18	-410.95
Landing Pt.	8598.45	90.000	918.000	8100.00	288.74	6.41	8.18	220.21
Turn	8673.45	90.000	218.000	8100.00	324.47	-43.78	0.00	294.41
Hala	8773.45	90.000	330.000	8100.00	809.00	-395.81	2.00	892.90
Turn	8773.45	90.000	330.000	8100.00	1242.01	-645.81	0.00	1391.80
Hala	8955.07	90.000	326.368	8100.00	1398.32	-741.54	2.00	1573.31
BHL	26093.92	90.000	326.368	8100.00	14833.63	-8680.26	0.00	17712.15

Well Data			
Slot	Well	Wellbore	Wellpath
Slot 3H	Bunner 3H	Bunner 3H AWB	Bunner 3H AWP Proj 26101
Slot 3H	Bunner 3H	Bunner 3H PWB	Bunner 3H Rev-A.0



User specified HDDM Dip: 66.40° Field: 51886 nT
Magnetic North is 9.00 degrees West of True North (at 11/10/2022)
Grid North is 5.46 degrees West of True North
To correct azimuth from True to Grid add 0.48 degrees
To correct azimuth from Magnetic to Grid subtract 8.53 degrees

API: 47061019070000
BH Job #: 111543076
Rig: Patterson 277
Duration: 11/12/2022 - 11/18/2022





Actual Wellpath Report

Bunner 3H AWP Proj: 26101'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 3H
Field	Monongalia	API/Legal	
Facility	Bunner Pad	Wellbore	Bunner 3H AWB
Slot	Slot 3H		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Manajohj
Scale	0.999941	Report Generated	11/25/2022 at 5:09:21 PM
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	-0.10	20.00	1766478.50	424248.27	39°39'45.2449"N	80°13'3.4178"W
Facility Reference Pt			1766458.50	424248.37	39°39'45.2443"N	80°13'3.6735"W
Field Reference Pt			1777685.71	440640.65	39°42'28.1140"N	80°10'41.6900"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Patterson 277 (RKB) to Facility Vertical Datum	1305.00ft
Horizontal Reference Pt	Slot	Patterson 277 (RKB) to Mean Sea Level	1305.00ft
Vertical Reference Pt	Patterson 277 (RKB)	Patterson 277 (RKB) to Ground Level at Slot (Slot 3H)	28.00ft
MD Reference Pt	Patterson 277 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	326.37°



Actual Wellpath Report

Bunner 3H AWP Proj: 26101'

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Facility	Bunner Pad	Wellbore	Bunner 3H AWB
Slot	Slot 3H		

WELLPATH DATA (277 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0.00†	0.000	203.770	0.00	0.00	0.00	0.00	1766478.50	424248.27	39°39'45.2449"N	80°13'3.4178"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	203.770	28.00	0.00	0.00	0.00	1766478.50	424248.27	39°39'45.2449"N	80°13'3.4178"W	0.00	0.000	0.00	0.00	0.00
100.00	0.250	203.770	100.00	-0.08	-0.14	-0.06	1766478.44	424248.13	39°39'45.2435"N	80°13'3.4186"W	0.16	203.770	0.35	0.35	0.00
200.00	0.320	180.970	200.00	-0.43	-0.62	-0.16	1766478.34	424247.65	39°39'45.2388"N	80°13'3.4197"W	0.64	194.064	0.13	0.07	-22.80
300.00	0.340	196.390	300.00	-0.85	-1.19	-0.24	1766478.26	424247.08	39°39'45.2332"N	80°13'3.4208"W	1.21	191.641	0.09	0.02	15.42
400.00	0.400	162.180	399.99	-1.38	-1.80	-0.22	1766478.28	424246.47	39°39'45.2271"N	80°13'3.4204"W	1.82	186.997	0.23	0.06	-34.21
500.00	0.420	166.400	499.99	-2.06	-2.49	-0.03	1766478.47	424245.78	39°39'45.2203"N	80°13'3.4179"W	2.49	180.651	0.04	0.02	4.22
600.00	0.540	163.600	599.99	-2.85	-3.30	0.19	1766478.69	424244.97	39°39'45.2123"N	80°13'3.4150"W	3.31	176.689	0.12	0.12	-2.80
700.00	0.460	154.990	699.99	-3.70	-4.12	0.49	1766478.99	424244.15	39°39'45.2043"N	80°13'3.4110"W	4.15	173.161	0.11	-0.08	-8.61
800.00	0.460	145.060	799.98	-4.50	-4.91	0.89	1766479.39	424243.46	39°39'45.1975"N	80°13'3.4058"W	4.89	169.477	0.08	0.00	-9.93
900.00	0.400	132.520	899.98	-5.24	-5.37	1.38	1766479.88	424242.90	39°39'45.1919"N	80°13'3.3996"W	5.55	165.593	0.11	-0.06	-12.54
1000.00	0.330	157.840	999.98	-5.86	-5.88	1.75	1766480.25	424242.39	39°39'45.1870"N	80°13'3.3948"W	6.13	163.450	0.17	-0.07	25.32
1100.00	0.260	153.210	1099.98	-6.37	-6.35	1.96	1766480.46	424241.92	39°39'45.1824"N	80°13'3.3921"W	6.64	162.859	0.07	-0.07	-4.63
1120.00	0.280	176.910	1119.98	-6.45	-6.44	1.98	1766480.48	424241.84	39°39'45.1815"N	80°13'3.3918"W	6.73	162.895	0.56	0.10	118.50
1312.00	0.380	143.020	1311.97	-7.49	-7.41	2.39	1766480.89	424240.86	39°39'45.1719"N	80°13'3.3865"W	7.79	162.138	0.11	0.05	-17.66
1407.00	0.870	44.520	1406.97	-7.66	-7.15	3.08	1766481.58	424241.12	39°39'45.1745"N	80°13'3.3776"W	7.79	156.668	1.05	0.52	-103.68
1502.00	2.420	25.310	1501.93	-6.48	-4.82	4.45	1766482.95	424243.45	39°39'45.1976"N	80°13'3.3604"W	6.56	137.317	1.71	1.63	-20.22
1596.00	4.000	16.100	1595.78	-3.33	0.12	6.20	1766484.70	424248.39	39°39'45.2466"N	80°13'3.3384"W	6.21	88.871	1.76	1.68	-9.80
1691.00	4.650	4.520	1690.51	1.84	7.14	7.43	1766485.93	424255.41	39°39'45.3161"N	80°13'3.3235"W	10.31	46.110	1.14	0.68	-12.19
1786.00	5.410	358.660	1785.14	8.65	15.46	7.63	1766486.13	424263.73	39°39'45.3983"N	80°13'3.3218"W	17.24	26.254	0.96	0.80	-6.17
1880.00	4.970	358.890	1878.76	15.83	23.96	7.44	1766485.94	424272.23	39°39'45.4823"N	80°13'3.3250"W	25.09	17.257	0.47	-0.47	0.24
1978.00	4.530	9.850	1974.43	22.09	31.86	8.01	1766486.51	424280.12	39°39'45.5604"N	80°13'3.3186"W	32.85	14.117	1.05	-0.46	11.42
2071.00	3.010	12.620	2069.22	26.53	37.99	9.20	1766487.70	424286.25	39°39'45.6211"N	80°13'3.3040"W	39.08	13.612	1.61	-1.60	2.92
2166.00	1.630	350.470	2164.14	29.49	41.75	9.52	1766488.02	424290.02	39°39'45.6583"N	80°13'3.3003"W	42.82	12.844	1.71	-1.45	-23.32
2261.00	0.890	323.060	2259.12	31.46	43.67	8.85	1766487.35	424291.94	39°39'45.6772"N	80°13'3.3090"W	44.56	11.458	0.98	-0.78	-28.85
2356.00	0.610	288.830	2354.11	32.60	44.43	7.93	1766486.43	424292.69	39°39'45.6846"N	80°13'3.3209"W	45.13	10.121	0.54	-0.29	-36.03
2451.00	0.940	267.650	2449.10	33.41	44.56	6.67	1766485.17	424292.83	39°39'45.6858"N	80°13'3.3370"W	45.06	8.517	0.45	0.35	-22.29
2561.00	0.600	253.120	2559.09	34.04	44.35	5.22	1766483.72	424292.62	39°39'45.6837"N	80°13'3.3555"W	44.66	6.713	0.35	-0.31	-13.21
2657.00	1.350	259.290	2655.08	34.63	44.00	3.63	1766482.13	424292.27	39°39'45.6800"N	80°13'3.3759"W	44.15	4.714	0.79	0.78	6.43
2751.00	0.170	29.650	2749.07	35.12	43.91	2.61	1766481.11	424292.18	39°39'45.6791"N	80°13'3.3889"W	43.99	3.400	1.56	-1.26	138.68

Actual Wellpath Report

Bunner 3H AWP Proj: 26101'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 3H
Field	Monongalia	API/Legal	
Facility	Bunner Pad	Wellbore	Bunner 3H AWB
Slot	Slot 3H		

WELLPATH DATA (277 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
2846.00	0.670	61.200	2844.07	35.14	44.30	3.17	1766481.67	424292.57	39°39'45.6830"N	80°13'3.3818"W	44.42	4.087	0.56	0.53	33.21
2940.00	0.580	55.250	2938.06	35.10	44.84	4.04	1766482.54	424293.11	39°39'45.6884"N	80°13'3.3707"W	45.02	5.146	0.12	-0.10	-6.33
3035.00	0.670	70.300	3033.06	34.97	45.30	4.96	1766483.46	424293.57	39°39'45.6930"N	80°13'3.3590"W	45.57	6.244	0.20	0.09	15.84
3130.00	0.640	47.820	3128.05	34.92	45.84	5.87	1766484.37	424294.11	39°39'45.6985"N	80°13'3.3474"W	46.22	7.299	0.27	-0.03	-23.66
3226.00	0.780	81.250	3224.04	34.72	46.30	6.92	1766485.41	424294.57	39°39'45.7031"N	80°13'3.3341"W	46.82	8.494	0.45	0.15	34.82
3324.00	0.270	315.550	3322.04	34.67	46.57	7.41	1766485.91	424294.84	39°39'45.7058"N	80°13'3.3277"W	47.16	9.044	0.98	-0.52	-128.27
3420.00	0.450	254.680	3418.04	35.01	46.63	6.89	1766485.39	424294.90	39°39'45.7063"N	80°13'3.3344"W	47.14	8.406	0.41	0.19	-63.41
3515.00	0.630	246.020	3513.03	35.22	46.32	6.05	1766484.55	424294.59	39°39'45.7032"N	80°13'3.3451"W	46.72	7.446	0.21	0.19	-9.12
3610.00	0.860	236.810	3608.03	35.31	45.72	4.98	1766483.48	424293.99	39°39'45.6971"N	80°13'3.3588"W	45.99	6.217	0.27	0.24	-9.69
3705.00	1.150	235.970	3703.01	35.31	44.80	3.59	1766482.09	424293.06	39°39'45.6879"N	80°13'3.3764"W	44.94	4.586	0.31	0.31	-0.88
3800.00	0.500	151.250	3798.00	34.89	43.90	3.00	1766481.50	424292.17	39°39'45.6790"N	80°13'3.3839"W	44.00	3.913	1.27	-0.68	-89.18
3894.00	0.600	82.110	3892.00	34.27	43.61	3.69	1766482.19	424291.87	39°39'45.6762"N	80°13'3.3751"W	43.76	4.834	0.67	0.11	-73.55
3990.00	0.780	86.310	3987.99	33.72	43.72	4.84	1766483.34	424291.98	39°39'45.6773"N	80°13'3.3604"W	43.98	6.314	0.19	0.19	4.38
4084.00	0.300	118.310	4081.99	33.18	43.64	5.69	1766484.19	424291.91	39°39'45.6767"N	80°13'3.3494"W	44.01	7.432	0.58	-0.51	34.04
4179.00	0.720	114.140	4176.98	32.46	43.28	6.46	1766484.96	424291.55	39°39'45.6732"N	80°13'3.3396"W	43.76	8.485	0.44	0.44	-4.39
4277.00	0.310	320.800	4274.98	32.20	43.23	6.85	1766485.35	424291.50	39°39'45.6727"N	80°13'3.3346"W	43.77	9.004	1.03	-0.42	-156.47
4372.00	0.800	281.340	4369.98	32.93	43.56	6.04	1766484.54	424291.83	39°39'45.6759"N	80°13'3.3450"W	43.98	7.891	0.63	0.52	-41.54
4467.00	0.720	279.240	4464.97	33.80	43.79	4.80	1766483.30	424292.06	39°39'45.6781"N	80°13'3.3609"W	44.05	6.254	0.09	-0.08	-2.21
4562.00	0.830	287.470	4559.96	34.74	44.09	3.55	1766482.05	424292.36	39°39'45.6809"N	80°13'3.3768"W	44.23	4.607	0.16	0.12	8.66
4657.00	0.820	278.170	4654.95	35.73	44.39	2.22	1766480.72	424292.66	39°39'45.6838"N	80°13'3.3939"W	44.45	2.868	0.14	-0.01	-9.79
4751.00	0.810	285.460	4748.94	36.68	44.67	0.92	1766479.42	424292.93	39°39'45.6864"N	80°13'3.4106"W	44.68	1.177	0.11	-0.01	7.76
4847.00	0.670	310.670	4844.93	37.74	45.21	-0.16	1766478.34	424293.48	39°39'45.6917"N	80°13'3.4245"W	45.21	359.795	0.37	-0.15	26.26
4942.00	0.760	308.990	4939.93	38.87	45.97	-1.07	1766477.43	424294.24	39°39'45.6992"N	80°13'3.4362"W	45.98	358.663	0.10	0.09	-1.77
5036.00	0.850	333.370	5033.92	40.16	46.99	-1.87	1766476.63	424295.26	39°39'45.7091"N	80°13'3.4465"W	47.03	357.721	0.37	0.10	25.94
5134.00	0.170	299.330	5131.91	41.01	47.71	-2.32	1766476.18	424295.98	39°39'45.7162"N	80°13'3.4523"W	47.77	357.213	0.73	-0.69	-34.73
5227.00	0.760	188.550	5224.91	40.68	47.17	-2.53	1766475.97	424295.43	39°39'45.7109"N	80°13'3.4550"W	47.23	356.924	0.90	0.63	-119.12
5323.00	0.260	156.690	5320.91	39.99	46.34	-2.54	1766475.96	424294.60	39°39'45.7027"N	80°13'3.4550"W	46.41	356.859	0.58	-0.52	-33.19
5418.00	0.290	188.400	5415.91	39.60	45.90	-2.49	1766476.01	424294.17	39°39'45.6984"N	80°13'3.4543"W	45.97	356.891	0.16	0.03	33.38
5512.00	0.690	168.040	5509.90	38.90	45.11	-2.41	1766476.09	424293.38	39°39'45.6906"N	80°13'3.4532"W	45.18	356.941	0.46	0.43	-21.66
5607.00	3.280	136.330	5604.84	35.69	42.59	-0.41	1766476.09	424290.85	39°39'45.6658"N	80°13'3.4274"W	42.59	359.442	2.86	2.73	-33.36



Actual Wellpath Report

Bunner 3H AWP Proj: 26101'

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Field	Monongalia	API/Legal	
Facility	Bunner Pad	Wellbore	Bunner 3H AWB
Slot	Slot 3H		

WELLPATH DATA (277 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
5702.00	5.490	119.460	5699.56	28.96	38.38	5.42	1766483.92	424286.65	39°39'45.6247"N	80°13'3.3524"W	38.77	8.036	2.67	2.33	-17.76
5798.00	7.390	123.510	5794.95	19.17	32.72	14.57	1766493.07	424280.99	39°39'45.5694"N	80°13'3.2348"W	35.81	24.000	2.03	1.98	4.22
5892.00	10.290	127.620	5887.82	5.65	24.25	26.26	1766504.76	424272.52	39°39'45.4867"N	80°13'3.0845"W	35.75	47.275	3.16	3.09	4.37
5988.00	13.160	126.990	5981.81	-12.78	12.44	41.78	1766520.28	424260.71	39°39'45.3712"N	80°13'2.8848"W	43.60	73.419	2.99	2.99	-0.66
6082.00	15.310	126.030	6072.92	-34.51	-1.30	60.37	1766538.86	424246.97	39°39'45.2369"N	80°13'2.6457"W	60.38	91.232	2.30	2.29	-1.02
6181.00	17.240	124.550	6167.95	-60.39	-17.31	83.02	1766556.52	424230.96	39°39'45.0804"N	80°13'2.3544"W	84.81	101.776	1.99	1.95	-1.49
6276.00	19.470	127.820	6258.11	-88.48	-35.00	107.13	1766585.62	424213.27	39°39'44.9075"N	80°13'2.0444"W	112.70	108.094	2.58	2.35	3.44
6372.00	21.440	130.460	6348.06	-120.52	-58.20	133.12	1766611.61	424192.07	39°39'44.7000"N	80°13'1.7099"W	144.50	112.889	2.27	2.05	2.75
6467.00	22.040	129.970	6436.30	-154.32	-78.92	159.99	1766638.48	424169.36	39°39'44.4776"N	80°13'1.3640"W	178.40	116.256	0.66	0.63	-0.52
6562.00	21.770	129.590	6524.44	-188.28	-101.60	187.23	1766665.72	424146.68	39°39'44.2557"N	80°13'1.0134"W	213.02	118.486	0.32	-0.28	-0.40
6657.00	21.880	128.580	6612.63	-222.01	-123.86	214.64	1766693.13	424124.42	39°39'44.0378"N	80°13'0.6606"W	247.82	119.988	0.41	0.12	-1.06
6753.00	22.580	129.340	6701.49	-256.66	-146.70	242.88	1766721.36	424101.58	39°39'43.8143"N	80°13'0.2972"W	283.75	121.132	0.79	0.73	0.79
6848.00	22.470	129.710	6789.25	-291.49	-169.86	270.95	1766749.43	424078.42	39°39'43.5876"N	80°12'59.9359"W	319.79	122.084	0.19	-0.12	0.39
6943.00	22.620	129.260	6876.99	-326.35	-193.02	299.06	1766777.54	424055.26	39°39'43.3610"N	80°12'59.5741"W	355.94	122.839	0.24	0.16	-0.47
7038.00	22.210	126.460	6964.81	-360.69	-215.25	327.65	1766806.13	424033.03	39°39'43.1435"N	80°12'59.2063"W	392.03	123.303	1.20	-0.43	-2.95
7151.00	20.220	124.370	7070.15	-398.88	-238.97	360.95	1766839.43	424009.31	39°39'42.9117"N	80°12'58.7781"W	432.89	123.507	1.88	-1.76	-1.85
7246.00	20.890	123.330	7159.10	-429.69	-257.55	388.65	1766867.13	423990.74	39°39'42.7303"N	80°12'58.4220"W	466.24	123.531	0.80	0.71	-1.09
7341.00	14.880	117.930	7249.48	-456.03	-272.58	413.61	1766892.08	423975.70	39°39'42.5837"N	80°12'58.1014"W	495.35	123.386	6.56	-6.33	-5.68
7435.00	8.220	106.620	7341.53	-471.83	-280.17	430.73	1766909.20	423968.12	39°39'42.5101"N	80°12'57.8817"W	513.83	123.042	7.45	-7.09	-12.03
7530.00	3.860	22.880	7436.12	-475.29	-279.16	438.50	1766916.97	423969.13	39°39'42.5207"N	80°12'57.7825"W	519.82	122.482	9.14	-4.59	-88.15
7625.00	10.030	350.470	7530.40	-465.96	-268.04	438.37	1766916.84	423980.24	39°39'42.6305"N	80°12'57.7852"W	513.82	121.444	7.45	6.49	-34.12
7720.00	16.870	335.300	7622.77	-444.76	-247.33	431.23	1766909.70	424000.96	39°39'42.8347"N	80°12'57.8786"W	497.12	119.836	8.04	7.20	-15.97
7815.00	25.730	327.790	7711.21	-410.45	-217.29	414.44	1766892.91	424030.99	39°39'43.1302"N	80°12'58.0964"W	467.95	117.668	9.74	9.33	-7.91
7910.00	34.020	322.790	7793.53	-363.23	-178.61	387.33	1766865.80	424069.67	39°39'43.5104"N	80°12'58.4470"W	426.52	114.756	9.10	8.73	-5.26
8005.00	41.230	319.420	7868.73	-305.54	-133.60	350.84	1766829.32	424114.68	39°39'43.9523"N	80°12'58.9182"W	375.41	110.847	7.89	7.59	-3.55
8100.00	49.420	320.210	7935.46	-238.48	-82.01	307.31	1766785.79	424166.26	39°39'44.4587"N	80°12'59.4800"W	318.07	104.943	8.64	8.62	0.83
8196.00	57.320	319.540	7992.70	-162.00	-23.17	257.68	1766736.17	424225.10	39°39'45.0363"N	80°13'0.1205"W	258.72	95.138	8.25	8.23	-0.70
8291.00	64.860	321.100	8038.59	-79.36	40.81	204.66	1766683.14	424289.08	39°39'45.6644"N	80°13'0.8051"W	208.69	78.722	8.07	7.94	1.64
8386.00	72.300	318.890	8073.26	8.45	108.47	147.82	1766626.31	424356.74	39°39'46.3286"N	80°13'1.5388"W	183.35	53.727	8.12	7.83	-2.33
8481.00	80.070	319.460	8095.93	99.91	178.23	87.56	1766566.05	424426.49	39°39'47.0132"N	80°13'2.3164"W	198.58	26.163	8.20	8.18	0.60



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Bunner 3H AWP Proj: 26101'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 3H
Field	Monongalia	API/Legal	
Facility	Bunner Pad	Wellbore	Bunner 3H AWB
Slot	Slot 3H		

WELLPATH DATA (277 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]
8576.00	87.350	320.960	8106.33	193.73	250.75	27.18	1766505.67	424499.00	39°39'47.7251"N	80°13'3.0959"W	252.21	6.185	7.82	7.66	1.58
8671.00	89.540	321.610	8108.91	288.31	324.84	-32.22	1766446.29	424573.09	39°39'48.4526"N	80°13'3.8629"W	326.43	354.336	2.40	2.31	0.68
8765.00	91.450	321.190	8108.10	381.95	398.30	-90.86	1766387.65	424646.54	39°39'49.1739"N	80°13'4.6202"W	408.53	347.150	2.08	2.03	-0.45
8860.00	91.570	321.710	8105.60	476.57	472.57	-160.04	1766328.47	424720.81	39°39'49.9032"N	80°13'5.3845"W	495.81	342.385	0.56	0.13	0.55
8956.00	92.460	322.510	8102.22	572.24	548.28	-208.96	1766269.55	424796.52	39°39'50.6468"N	80°13'6.1457"W	586.75	339.137	1.25	0.93	0.83
9050.00	92.830	322.820	8097.88	665.95	622.94	-265.91	1766212.61	424871.17	39°39'51.3802"N	80°13'6.8815"W	677.32	336.864	0.51	0.39	0.33
9145.00	92.560	323.470	8093.42	760.69	698.87	-322.82	1766155.70	424947.10	39°39'52.1261"N	80°13'7.6171"W	769.83	335.207	0.74	-0.28	0.68
9241.00	91.320	324.440	8090.17	856.55	776.44	-379.28	1766099.24	425024.67	39°39'52.8882"N	80°13'8.3469"W	864.13	333.965	1.64	-1.29	1.01
9336.00	91.200	328.240	8088.08	951.51	855.48	-431.91	1766046.62	425103.70	39°39'53.6652"N	80°13'9.0280"W	958.33	333.212	4.00	-0.13	4.00
9431.00	91.750	326.180	8085.63	1046.46	935.31	-483.24	1765995.19	425183.53	39°39'54.4501"N	80°13'9.6937"W	1052.82	332.672	2.24	0.58	-2.17
9526.00	91.820	328.700	8082.67	1141.39	1015.34	-534.44	1765944.10	425263.55	39°39'55.2368"N	80°13'10.3553"W	1147.40	332.239	2.65	0.07	2.65
9622.00	91.970	329.350	8079.50	1237.23	1097.60	-583.82	1765894.72	425345.81	39°39'56.0459"N	80°13'10.9952"W	1243.21	331.991	0.69	0.16	0.68
9717.00	91.820	329.680	8076.36	1332.04	1179.42	-631.99	1765846.55	425427.62	39°39'56.8507"N	80°13'11.6195"W	1338.08	331.816	0.38	-0.16	0.35
9812.00	91.940	327.410	8073.24	1426.91	1260.42	-681.53	1765797.01	425508.61	39°39'57.6472"N	80°13'12.2613"W	1432.88	331.599	2.39	0.13	-2.39
9907.00	91.420	327.010	8070.45	1521.86	1340.24	-732.96	1765745.59	425588.43	39°39'58.4320"N	80°13'12.9271"W	1527.57	331.327	0.69	-0.55	-0.42
10005.00	92.090	327.270	8067.45	1619.80	1422.52	-786.10	1765692.44	425670.71	39°39'59.2410"N	80°13'13.6152"W	1625.28	331.074	0.73	0.68	0.27
10100.00	91.320	326.890	8064.63	1714.75	1502.23	-837.71	1765640.84	425750.41	39°40'0.0246"N	80°13'14.2832"W	1720.02	330.854	0.90	-0.81	-0.40
10196.00	90.400	326.830	8063.18	1810.74	1582.61	-890.19	1765588.37	425830.78	39°40'0.8148"N	80°13'14.9625"W	1815.79	330.643	0.96	-0.96	-0.06
10291.00	91.450	327.190	8061.65	1905.72	1662.28	-941.91	1765536.65	425910.45	39°40'1.5980"N	80°13'15.6320"W	1910.59	330.463	1.17	1.11	0.38
10386.00	90.950	328.020	8059.65	2000.68	1742.48	-992.79	1765485.77	425990.64	39°40'2.3865"N	80°13'16.2909"W	2005.46	330.327	1.02	-0.53	0.87
10481.00	89.970	327.100	8058.90	2095.65	1822.65	-1043.75	1765434.82	426070.81	39°40'3.1748"N	80°13'16.9508"W	2100.35	330.202	1.41	-1.03	-0.97
10577.00	89.910	326.730	8059.00	2191.65	1903.08	-1096.15	1765382.42	426151.24	39°40'3.9655"N	80°13'17.6292"W	2196.19	330.059	0.39	-0.06	-0.39
10672.00	89.380	326.260	8059.59	2286.64	1982.30	-1148.59	1765329.98	426230.44	39°40'4.7442"N	80°13'18.3079"W	2291.02	329.911	0.75	-0.56	-0.49
10767.00	90.620	326.840	8059.59	2381.64	2061.56	-1200.95	1765277.62	426309.70	39°40'5.5233"N	80°13'18.9856"W	2385.86	329.777	1.44	1.31	0.61
10863.00	90.650	327.580	8058.52	2477.62	2142.26	-1252.94	1765225.64	426389.40	39°40'6.3167"N	80°13'19.6587"W	2481.76	329.678	0.77	0.03	0.77
10958.00	91.200	326.160	8056.99	2572.60	2221.80	-1304.85	1765173.73	426469.93	39°40'7.0987"N	80°13'20.3307"W	2576.63	329.574	1.60	0.58	-1.49
11053.00	90.950	327.350	8055.21	2667.58	2301.24	-1356.92	1765121.66	426549.37	39°40'7.8796"N	80°13'21.0047"W	2671.50	329.474	1.28	-0.26	1.25
11149.00	90.310	328.030	8054.15	2763.55	2382.37	-1408.23	1765070.35	426630.49	39°40'8.6773"N	80°13'21.6692"W	2767.45	329.412	0.97	-0.67	0.71
11244.00	90.620	327.890	8053.38	2858.52	2462.80	-1458.77	1765019.82	426710.92	39°40'9.4682"N	80°13'22.3237"W	2862.41	329.361	0.48	0.33	-0.36
11339.00	90.340	327.350	8052.59	2953.49	2542.94	-1509.78	1764968.81	426791.06	39°40'10.2561"N	80°13'22.9843"W	2957.36	329.302	0.46	-0.29	-0.36



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 3H
Field	Monongalia	API/Legal	
Facility	Bunner Pad	Wellbore	Bunner 3H AWB
Slot	Slot 3H		

WELLPATH DATA (277 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
11434.00	89.720	327.430	8052.54	3048.48	2622.97	-1560.98	1764917.61	426871.08	39°40'11.0429"N	80°13'23.6473"W	3052.31	329.242	0.66	-0.65	0.08
11530.00	89.970	328.490	8052.80	3144.44	2704.34	-1611.91	1764866.69	426952.45	39°40'11.8430"N	80°13'24.3069"W	3148.29	329.203	1.13	0.26	1.10
11625.00	89.200	326.840	8053.48	3239.41	2784.60	-1662.72	1764815.88	427032.70	39°40'12.6322"N	80°13'24.9649"W	3243.25	329.158	1.92	-0.81	-1.74
11720.00	89.420	327.030	8054.63	3334.40	2864.21	-1714.54	1764764.06	427112.31	39°40'13.4148"N	80°13'25.6359"W	3338.17	329.095	0.31	0.23	0.20
11815.00	89.350	325.990	8055.65	3429.39	2943.44	-1766.96	1764711.65	427191.53	39°40'14.1985"N	80°13'26.3143"W	3433.07	329.023	1.10	-0.07	-1.09
11910.00	89.750	326.710	8056.39	3524.39	3022.51	-1819.60	1764659.01	427270.60	39°40'14.9708"N	80°13'26.9956"W	3527.97	328.951	0.87	0.42	0.76
12006.00	90.090	326.970	8056.53	3620.38	3102.88	-1872.11	1764606.50	427350.96	39°40'15.7609"N	80°13'27.6754"W	3623.90	328.895	0.45	0.35	0.27
12101.00	89.320	325.670	8057.02	3715.38	3181.93	-1924.79	1764553.83	427430.01	39°40'16.5379"N	80°13'28.3572"W	3718.80	328.830	1.59	-0.81	-1.37
12196.00	95.090	326.100	8053.36	3810.26	3260.49	-1978.01	1764500.61	427508.56	39°40'17.3100"N	80°13'29.0459"W	3813.57	328.756	6.09	6.07	0.45
12291.00	89.940	323.110	8049.19	3905.08	3337.82	-2032.96	1764445.66	427585.89	39°40'18.0699"N	80°13'29.7566"W	3908.19	328.656	5.27	-5.42	-3.15
12387.00	88.220	325.650	8050.74	4001.00	3415.84	-2088.86	1764389.77	427663.90	39°40'18.8364"N	80°13'30.4795"W	4003.91	328.553	3.20	-1.79	2.65
12482.00	89.910	328.340	8052.29	4095.97	3495.49	-2140.59	1764338.04	427743.54	39°40'19.6194"N	80°13'31.1493"W	4098.85	328.517	3.34	1.78	2.83
12577.00	86.800	325.450	8055.01	4190.91	3575.02	-2192.44	1764286.19	427823.07	39°40'20.4013"N	80°13'31.8206"W	4193.75	328.481	4.47	-3.27	-3.04
12662.00	87.940	325.790	8058.91	4275.81	3645.09	-2240.39	1764238.25	427893.14	39°40'21.0900"N	80°13'32.4410"W	4278.56	328.424	1.40	1.34	0.40
12757.00	88.580	326.220	8061.80	4370.76	3723.82	-2293.48	1764185.16	427971.86	39°40'21.8637"N	80°13'33.1281"W	4373.43	328.371	0.81	0.67	0.45
12850.00	88.460	325.760	8064.20	4463.73	3800.88	-2345.48	1764133.16	428048.92	39°40'22.6212"N	80°13'33.8011"W	4466.32	328.322	0.51	-0.13	-0.49
12945.00	89.750	326.370	8065.68	4558.71	3879.69	-2398.51	1764080.14	428127.72	39°40'23.3958"N	80°13'34.4873"W	4561.23	328.275	1.50	1.36	0.64
13040.00	89.630	326.190	8066.20	4653.71	3958.71	-2451.25	1764027.40	428206.74	39°40'24.1724"N	80°13'35.1699"W	4656.18	328.234	0.23	-0.13	-0.19
13134.00	89.540	326.320	8066.88	4747.71	4036.87	-2503.46	1763975.19	428284.89	39°40'24.9407"N	80°13'35.8458"W	4750.12	328.195	0.17	-0.10	0.14
13229.00	89.450	326.370	8067.72	4842.71	4115.94	-2556.11	1763922.55	428363.96	39°40'25.7179"N	80°13'36.5272"W	4845.07	328.159	0.11	-0.09	0.05
13324.00	89.750	325.540	8068.38	4937.70	4194.66	-2609.29	1763869.37	428442.67	39°40'26.4916"N	80°13'37.2155"W	4939.99	328.116	0.93	0.32	-0.87
13417.00	90.000	326.110	8068.58	5030.70	4271.60	-2661.53	1763817.13	428519.61	39°40'27.2478"N	80°13'37.8916"W	5032.92	328.074	0.67	0.27	0.61
13512.00	89.780	324.470	8068.77	5125.67	4349.69	-2715.62	1763763.04	428597.69	39°40'28.0152"N	80°13'38.5914"W	5127.81	328.022	1.74	-0.23	-1.73
13606.00	90.620	326.620	8068.44	5219.66	4427.19	-2768.80	1763709.87	428675.19	39°40'28.7769"N	80°13'39.2795"W	5221.71	327.978	2.46	0.89	2.29
13701.00	89.380	326.190	8068.44	5314.66	4506.32	-2821.37	1763657.31	428754.32	39°40'29.5547"N	80°13'39.9599"W	5316.68	327.950	1.38	-1.31	-0.45
13796.00	89.170	326.090	8069.64	5409.65	4585.20	-2874.29	1763604.38	428833.19	39°40'30.3300"N	80°13'40.6450"W	5411.62	327.918	0.24	-0.22	-0.11
13891.00	90.460	326.520	8069.95	5504.64	4664.24	-2926.99	1763551.68	428912.23	39°40'31.1069"N	80°13'41.3272"W	5506.58	327.890	1.43	1.36	0.45
13986.00	90.740	325.680	8068.95	5599.64	4743.09	-2979.98	1763498.71	428991.07	39°40'31.8818"N	80°13'42.0128"W	5601.53	327.860	0.93	0.29	-0.88
14080.00	90.220	326.030	8068.16	5693.63	4820.88	-3032.74	1763445.95	429068.86	39°40'32.6464"N	80°13'42.6957"W	5695.47	327.827	0.67	-0.55	0.37
14175.00	90.550	326.650	8067.53	5788.63	4899.95	-3085.39	1763393.30	429147.92	39°40'33.4236"N	80°13'43.3773"W	5790.44	327.802	0.74	0.35	0.65



Actual Wellpath Report

Bunner 3H AWP Proj: 26101'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	NORTHEAST NATURAL ENERGY, LLC		Well	Bunner 3H
Field	Monongalia		API/Legal	
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Slot	Slot 3H			

WELLPATH DATA (277 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
14270.00	90.950	325.170	8066.28	5883.61	4978.62	-3138.63	1763340.06	429226.58	39°40'34.1967"N	80°13'44.0664"W	5885.37	327.772	1.61	0.42	-1.56
14365.00	91.420	325.340	8064.32	5978.57	5056.66	-3192.76	1763285.93	429304.62	39°40'34.9637"N	80°13'44.7667"W	5980.26	327.732	0.53	0.49	0.18
14460.00	91.720	325.860	8061.71	6073.53	5135.02	-3246.41	1763232.29	429382.97	39°40'35.7337"N	80°13'45.4610"W	6075.16	327.698	0.63	0.32	0.55
14553.00	91.760	325.480	8058.89	6166.48	5211.78	-3298.84	1763179.87	429459.73	39°40'36.4881"N	80°13'46.1395"W	6168.06	327.668	0.41	0.04	-0.41
14647.00	92.530	326.780	8055.37	6260.41	5289.77	-3351.19	1763127.52	429537.72	39°40'37.2547"N	80°13'46.8171"W	6261.96	327.645	1.61	0.82	1.38
14742.00	91.350	327.030	8052.16	6355.35	5369.31	-3403.03	1763075.68	429617.26	39°40'38.0366"N	80°13'47.4883"W	6356.90	327.634	1.27	-1.24	0.26
14837.00	91.790	327.740	8049.55	6450.30	5449.30	-3454.21	1763024.50	429697.24	39°40'38.8230"N	80°13'48.1513"W	6451.86	327.630	0.88	0.46	0.75
14932.00	90.740	327.630	8047.46	6545.25	5529.57	-3504.98	1762973.73	429777.50	39°40'39.6121"N	80°13'48.8089"W	6546.83	327.631	1.11	-1.11	-0.12
15027.00	90.220	327.310	8046.66	6640.23	5609.66	-3556.07	1762922.65	429857.59	39°40'40.3995"N	80°13'49.4706"W	6641.83	327.629	0.64	-0.55	-0.34
15122.00	90.550	327.410	8046.02	6735.21	5689.66	-3607.30	1762871.42	429937.58	39°40'41.1860"N	80°13'50.1342"W	6736.83	327.625	0.36	0.35	0.11
15217.00	90.120	327.370	8045.47	6830.19	5769.68	-3658.50	1762820.22	430017.60	39°40'41.9727"N	80°13'50.7973"W	6831.82	327.622	0.45	-0.45	-0.04
15312.00	90.680	325.320	8044.80	6925.19	5848.75	-3711.14	1762767.58	430096.66	39°40'42.7499"N	80°13'51.4788"W	6926.79	327.604	2.24	0.59	-2.16
15408.00	90.620	327.060	8043.71	7021.18	5928.51	-3764.56	1762714.17	430176.41	39°40'43.5338"N	80°13'52.1702"W	7022.75	327.585	1.81	-0.06	1.81
15503.00	91.260	328.630	8042.16	7116.13	6008.92	-3815.11	1762663.62	430256.82	39°40'44.3244"N	80°13'52.8251"W	7117.74	327.588	1.78	0.67	1.65
15598.00	89.350	326.840	8041.65	7211.09	6089.24	-3865.82	1762612.92	430337.14	39°40'45.1141"N	80°13'53.4820"W	7212.73	327.590	2.76	-2.01	-1.88
15692.00	91.020	327.860	8041.35	7305.07	6168.39	-3916.53	1762562.21	430416.28	39°40'45.8922"N	80°13'54.1389"W	7306.72	327.587	2.08	1.78	1.09
15787.00	91.480	327.640	8039.27	7400.02	6248.71	-3967.21	1762511.53	430496.60	39°40'46.6819"N	80°13'54.7954"W	7401.70	327.589	0.54	0.48	-0.23
15882.00	91.020	327.540	8037.20	7494.98	6328.89	-4018.12	1762460.63	430576.78	39°40'47.4702"N	80°13'55.4548"W	7496.68	327.589	0.50	-0.48	-0.11
15977.00	90.710	327.530	8035.77	7589.95	6409.04	-4069.10	1762409.64	430656.92	39°40'48.2581"N	80°13'56.1153"W	7591.66	327.588	0.33	-0.33	-0.01
16073.00	80.490	328.190	8034.76	7685.91	6490.32	-4120.17	1762358.58	430738.19	39°40'49.0573"N	80°13'56.7769"W	7687.66	327.592	0.72	-0.23	0.69
16168.00	90.490	328.140	8033.95	7780.86	6571.03	-4170.28	1762308.47	430818.90	39°40'49.8508"N	80°13'57.4262"W	7782.65	327.599	0.05	0.00	-0.05
16263.00	90.650	327.050	8033.00	7875.83	6651.23	-4221.19	1762257.57	430899.09	39°40'50.6393"N	80°13'58.0857"W	7877.64	327.599	1.16	0.17	-1.15
16359.00	90.920	327.030	8031.69	7971.82	6731.77	-4273.41	1762205.35	430979.63	39°40'51.4311"N	80°13'58.7620"W	7973.63	327.592	0.28	0.28	-0.02
16454.00	90.920	326.910	8030.16	8066.80	6811.41	-4325.19	1762153.58	431059.26	39°40'52.2139"N	80°13'59.4325"W	8068.61	327.585	0.13	0.00	-0.13
16549.00	90.160	325.880	8029.28	8161.79	6890.52	-4377.76	1762101.00	431138.37	39°40'52.9916"N	80°14'0.1132"W	8163.59	327.571	1.35	-0.81	-1.08
16643.00	91.020	326.600	8028.32	8255.79	6968.67	-4430.00	1762048.77	431216.51	39°40'53.7596"N	80°14'0.7895"W	8257.55	327.556	1.20	0.93	0.77
16738.00	90.620	325.580	8026.96	8350.77	7047.50	-4482.99	1761995.78	431295.34	39°40'54.5344"N	80°14'1.4755"W	8352.51	327.539	1.15	-0.42	-1.07
16833.00	90.650	325.780	8025.90	8445.76	7125.96	-4536.55	1761942.23	431373.79	39°40'55.3054"N	80°14'2.1687"W	8447.46	327.518	0.21	0.03	0.21
16929.00	90.950	326.630	8024.56	8541.75	7205.73	-4589.94	1761888.84	431453.56	39°40'56.0894"N	80°14'2.8599"W	8543.42	327.503	0.94	0.31	0.89
17023.00	89.690	326.020	8024.04	8635.75	7283.95	-4642.06	1761836.72	431531.77	39°40'56.8583"N	80°14'3.6347"W	8637.40	327.491	1.49	-1.34	-0.65



Actual Wellpath Report

Bunner 3H AWP Proj: 26101'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	NORTHEAST NATURAL ENERGY, LLC		Well	Bunner 3H
Field	Monongalia		API/Legal	
Facility	Bunner Pad		Wellbore	Bunner 3H AWB
Slot	Slot 3H			

WELLPATH DATA (277 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
17118.00	90.770	326.560	8023.66	8730.74	7362.97	-4694.78	1761784.00	431610.79	39°40'57.6350"N	80°14'4.2173"W	8732.37	327.478	1.27	1.14	0.57
17213.00	90.250	327.150	8022.81	8825.74	7442.51	-4746.72	1761732.07	431690.33	39°40'58.4168"N	80°14'4.8900"W	8827.36	327.471	0.83	-0.55	0.62
17309.00	89.510	326.940	8023.01	8921.73	7523.07	-4798.94	1761679.85	431770.88	39°40'59.2086"N	80°14'5.5663"W	8923.36	327.466	0.80	-0.77	-0.22
17404.00	90.800	327.290	8022.76	9016.72	7602.84	-4850.52	1761628.27	431850.65	39°40'59.9929"N	80°14'6.2344"W	9018.36	327.463	1.41	1.36	0.37
17498.00	89.350	326.040	8022.63	9110.71	7681.37	-4902.18	1761576.62	431929.17	39°41'0.7648"N	80°14'6.9033"W	9112.34	327.454	2.04	-1.54	-1.33
17594.00	89.750	326.180	8023.39	9206.71	7761.06	-4955.70	1761523.10	432008.86	39°41'1.5480"N	80°14'7.5962"W	9208.31	327.440	0.44	0.42	0.15
17689.00	89.690	326.120	8023.85	9301.71	7839.96	-5008.62	1761470.18	432087.75	39°41'2.3234"N	80°14'8.2813"W	9303.29	327.427	0.09	-0.06	-0.06
17784.00	89.510	325.630	8024.51	9396.70	7918.60	-5061.91	1761416.89	432166.38	39°41'3.0962"N	80°14'8.9712"W	9398.25	327.411	0.55	-0.19	-0.52
17879.00	89.940	326.340	8024.97	9491.70	7997.34	-5115.06	1761363.75	432245.12	39°41'3.8701"N	80°14'9.6592"W	9493.22	327.397	0.87	0.45	0.75
17974.00	89.820	326.330	8025.17	9586.70	8076.41	-5167.72	1761311.10	432324.18	39°41'4.6472"N	80°14'10.3410"W	9588.20	327.387	0.13	-0.13	-0.01
18069.00	89.600	326.490	8025.65	9681.69	8155.54	-5220.28	1761258.54	432403.31	39°41'5.4250"N	80°14'11.0216"W	9683.19	327.377	0.29	-0.23	0.17
18164.00	90.090	325.860	8025.91	9776.69	8234.46	-5273.18	1761205.66	432482.23	39°41'6.2007"N	80°14'11.7063"W	9778.17	327.365	0.84	0.52	-0.66
18259.00	89.880	325.720	8025.93	9871.69	8313.03	-5326.57	1761152.25	432560.79	39°41'6.9727"N	80°14'12.3977"W	9873.13	327.350	0.27	-0.22	-0.16
18354.00	89.910	326.060	8026.11	9966.68	8391.68	-5379.84	1761098.98	432639.44	39°41'7.7457"N	80°14'13.0873"W	9968.10	327.336	0.36	0.03	0.36
18449.00	90.120	326.360	8026.08	10061.68	8470.63	-5432.68	1761046.15	432718.39	39°41'8.5217"N	80°14'13.7714"W	10063.08	327.326	0.39	0.22	0.32
18544.00	89.820	326.270	8026.13	10156.68	8549.68	-5485.37	1760993.47	432797.43	39°41'9.2986"N	80°14'14.4536"W	10158.07	327.316	0.33	-0.32	-0.09
18638.00	89.380	326.000	8026.79	10250.68	8627.73	-5537.75	1760941.09	432875.48	39°41'10.0657"N	80°14'15.1318"W	10252.05	327.305	0.55	-0.47	-0.29
18734.00	90.090	326.340	8027.23	10346.68	8707.48	-5591.19	1760887.65	432955.22	39°41'10.8495"N	80°14'15.8238"W	10348.03	327.295	0.82	0.74	0.35
18829.00	89.450	325.560	8027.61	10441.67	8786.19	-5644.38	1760834.46	433033.92	39°41'11.6230"N	80°14'16.5124"W	10443.00	327.283	1.06	-0.67	-0.82
18924.00	90.310	326.270	8027.81	10536.67	8864.87	-5697.62	1760781.23	433112.60	39°41'12.3962"N	80°14'17.2017"W	10537.97	327.270	1.17	0.91	0.75
19019.00	90.000	326.040	8027.55	10631.67	8943.77	-5750.53	1760728.32	433191.49	39°41'13.1717"N	80°14'17.8867"W	10632.95	327.260	0.41	-0.33	-0.24
19115.00	90.370	326.380	8027.24	10727.67	9023.55	-5803.92	1760674.93	433271.27	39°41'13.9558"N	80°14'18.5780"W	10728.93	327.251	0.52	0.39	0.35
19210.00	90.000	326.170	8026.94	10822.66	9102.56	-5856.67	1760622.19	433350.28	39°41'14.7324"N	80°14'19.2610"W	10823.92	327.242	0.45	-0.39	-0.22
19305.00	90.180	326.530	8026.79	10917.66	9181.65	-5909.31	1760569.55	433429.36	39°41'15.5096"N	80°14'19.9426"W	10918.91	327.235	0.42	0.19	0.38
19401.00	90.430	326.590	8026.28	11013.66	9261.75	-5962.21	1760516.65	433509.46	39°41'16.2970"N	80°14'20.6277"W	11014.90	327.229	0.27	0.26	0.06
19495.00	89.970	325.940	8025.95	11107.66	9339.92	-6014.41	1760464.46	433587.62	39°41'17.0652"N	80°14'21.3037"W	11108.89	327.221	0.85	-0.49	-0.69
19589.00	90.030	326.020	8025.95	11201.66	9417.84	-6067.00	1760411.87	433665.53	39°41'17.8309"N	80°14'21.9846"W	11202.86	327.210	0.11	0.06	0.09
19685.00	90.030	326.120	8025.90	11297.66	9497.49	-6120.59	1760358.29	433745.18	39°41'18.6137"N	80°14'22.6784"W	11298.84	327.201	0.10	0.00	0.10
19779.00	89.750	326.300	8026.08	11391.66	9575.61	-6172.87	1760306.01	433823.30	39°41'19.3815"N	80°14'23.3553"W	11392.83	327.192	0.35	-0.30	0.19
19875.00	89.940	325.780	8026.34	11487.65	9655.23	-6226.49	1760252.39	433902.91	39°41'20.1640"N	80°14'24.0497"W	11488.81	327.183	0.58	0.20	-0.54



Actual Wellpath Report

Bunner 3H AWP Proj: 26101'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	NORTHEAST NATURAL ENERGY, LLC		Well	Bunner 3H
Field	Monongalia		API/Legal	
Facility	Bunner Pad		Wellbore	Bunner 3H AWB
Slot	Slot 3H			

WELLPATH DATA (277 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
19971.00	90.150	326.410	8026.26	11583.65	9734.91	-6280.04	1760198.84	433982.59	39°41'20.9471"N	80°14'24.7431"W	11584.79	327.174	0.69	0.22	0.66
20066.00	90.060	325.900	8026.09	11678.65	9813.81	-6332.95	1760145.93	434061.48	39°41'21.7225"N	80°14'25.4282"W	11679.78	327.165	0.55	-0.09	-0.54
20162.00	88.710	326.320	8027.12	11774.64	9893.50	-6386.48	1760092.41	434141.16	39°41'22.5056"N	80°14'26.1212"W	11775.75	327.157	1.47	-1.41	0.44
20257.00	88.680	325.870	8029.28	11869.62	9972.32	-6439.46	1760039.44	434219.98	39°41'23.2803"N	80°14'26.8072"W	11870.71	327.148	0.47	-0.03	-0.47
20352.00	89.910	325.920	8030.45	11964.60	10050.98	-6492.72	1759986.18	434298.63	39°41'24.0538"N	80°14'27.4968"W	11965.68	327.138	1.30	1.29	0.05
20448.00	89.350	326.120	8031.07	12060.60	10130.58	-6546.37	1759932.53	434378.23	39°41'24.8356"N	80°14'28.1915"W	12061.66	327.129	0.62	-0.58	0.21
20543.00	89.420	325.980	8032.09	12155.59	10209.38	-6599.42	1759879.48	434457.03	39°41'25.6100"N	80°14'28.8785"W	12156.64	327.121	0.16	0.07	-0.15
20638.00	89.750	325.850	8032.78	12250.59	10288.06	-6652.66	1759826.24	434535.70	39°41'26.3832"N	80°14'29.5678"W	12251.61	327.112	0.37	0.35	-0.14
20734.00	89.570	325.820	8033.35	12346.58	10367.49	-6706.57	1759772.34	434615.13	39°41'27.1638"N	80°14'30.2658"W	12347.59	327.102	0.19	-0.19	-0.03
20829.00	89.970	326.360	8033.73	12441.58	10446.33	-6759.57	1759719.34	434693.96	39°41'27.9386"N	80°14'30.9521"W	12442.57	327.094	0.71	0.42	0.57
20924.00	90.000	326.460	8033.76	12536.58	10525.47	-6812.13	1759666.79	434773.09	39°41'28.7164"N	80°14'31.6327"W	12537.57	327.089	0.11	0.03	0.11
21017.00	89.690	326.310	8034.01	12629.58	10602.91	-6863.62	1759615.30	434850.54	39°41'29.4776"N	80°14'32.2995"W	12630.56	327.084	0.37	-0.33	-0.16
21112.00	89.540	326.030	8034.65	12724.58	10681.83	-6916.50	1759562.42	434929.45	39°41'30.2531"N	80°14'32.9844"W	12725.54	327.077	0.33	-0.16	-0.29
21207.00	89.910	326.490	8035.10	12819.57	10760.83	-6969.27	1759509.66	435008.44	39°41'31.0295"N	80°14'33.6677"W	12820.53	327.071	0.62	0.39	0.48
21302.00	89.880	326.110	8035.28	12914.57	10839.86	-7021.98	1759456.95	435087.47	39°41'31.8062"N	80°14'34.3503"W	12915.52	327.065	0.40	-0.03	-0.40
21396.00	89.720	326.330	8035.60	13008.57	10917.99	-7074.24	1759404.69	435165.59	39°41'32.5741"N	80°14'35.0271"W	13009.51	327.059	0.29	-0.17	0.23
21491.00	89.690	326.260	8036.09	13103.57	10997.02	-7126.96	1759351.98	435244.62	39°41'33.3508"N	80°14'35.7099"W	13104.50	327.053	0.08	-0.03	-0.07
21586.00	89.820	326.120	8036.50	13198.57	11075.95	-7179.82	1759299.12	435323.55	39°41'34.1265"N	80°14'36.3944"W	13199.49	327.047	0.20	0.14	-0.15
21682.00	90.000	326.630	8036.65	13294.57	11155.89	-7232.98	1759245.96	435403.48	39°41'34.9122"N	80°14'37.0829"W	13295.49	327.042	0.56	0.19	0.53
21777.00	89.380	326.470	8037.16	13389.57	11235.15	-7285.34	1759193.60	435482.74	39°41'35.6912"N	80°14'37.7611"W	13390.48	327.039	0.67	-0.65	-0.17
21872.00	88.090	326.200	8039.26	13484.54	11314.20	-7337.99	1759140.96	435561.78	39°41'36.4681"N	80°14'38.4430"W	13485.45	327.034	1.39	-1.36	-0.28
21967.00	88.890	325.900	8041.77	13579.51	11392.98	-7391.03	1759087.92	435640.55	39°41'37.2422"N	80°14'39.1298"W	13580.40	327.027	0.90	0.84	-0.32
22063.00	88.520	326.260	8043.93	13675.48	11472.62	-7444.59	1759034.37	435720.19	39°41'38.0249"N	80°14'39.8234"W	13676.36	327.020	0.54	-0.39	0.37
22158.00	89.110	326.080	8045.90	13770.46	11551.52	-7497.46	1758981.49	435799.08	39°41'38.8003"N	80°14'40.5081"W	13771.33	327.015	0.65	0.62	-0.19
22253.00	89.110	326.580	8047.38	13865.45	11630.57	-7550.13	1758928.84	435878.13	39°41'39.5772"N	80°14'41.1902"W	13866.31	327.010	0.53	0.00	0.53
22348.00	89.200	326.380	8048.78	13960.44	11709.76	-7602.58	1758876.38	435957.32	39°41'40.3556"N	80°14'41.8696"W	13961.30	327.006	0.23	0.09	-0.21
22444.00	88.950	326.070	8050.33	14056.42	11789.55	-7655.94	1758823.02	436037.10	39°41'41.1397"N	80°14'42.5607"W	14057.28	327.001	0.41	-0.26	-0.32
22539.00	88.770	325.750	8052.22	14151.40	11868.21	-7709.18	1758769.79	436115.76	39°41'41.9127"N	80°14'43.2501"W	14152.24	326.994	0.39	-0.19	-0.34
22634.00	88.950	326.050	8054.11	14246.38	11946.86	-7762.43	1758716.54	436194.40	39°41'42.6856"N	80°14'43.9397"W	14247.20	326.986	0.37	0.19	0.32
22729.00	89.020	326.810	8055.79	14341.36	12026.00	-7814.95	1758664.02	436273.54	39°41'43.4634"N	80°14'44.6199"W	14342.18	326.983	0.80	0.07	0.80



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Bunner 3H AWP Proj: 26101'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 3H
Field	Monongalia	API/Legal	
Facility	Bunner Pad	Wellbore	Bunner 3H AWB
Slot	Slot 3H		

WELLPATH DATA (277 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
22824.00	88.950	326.360	8057.47	14436.35	12105.29	-7867.26	1758611.72	438352.82	39°41'44.2426"N	80°14'45.2975"W	14437.17	326.980	0.48	-0.07	-0.47
22920.00	89.080	326.680	8059.12	14532.33	12185.35	-7920.21	1758558.77	438432.87	39°41'45.0295"N	80°14'45.9834"W	14533.15	326.977	0.36	0.14	0.33
23014.00	89.020	326.810	8060.68	14626.32	12263.94	-7971.75	1758507.24	436511.46	39°41'45.8019"N	80°14'46.6511"W	14627.14	326.976	0.15	-0.06	0.14
23110.00	88.980	326.180	8062.36	14722.30	12343.98	-8024.73	1758454.26	436591.49	39°41'46.5885"N	80°14'47.3374"W	14723.12	326.972	0.66	-0.04	-0.66
23205.00	87.850	326.130	8064.98	14817.26	12422.85	-8077.62	1758401.37	436670.36	39°41'47.3636"N	80°14'48.0224"W	14818.07	326.967	1.19	-1.19	-0.05
23301.00	88.340	326.620	8068.18	14913.21	12502.74	-8130.75	1758348.24	438750.25	39°41'48.1488"N	80°14'48.7105"W	14914.01	326.963	0.72	0.51	0.51
23396.00	87.970	326.550	8071.23	15008.16	12582.00	-8183.04	1758295.96	438829.50	39°41'48.9278"N	80°14'49.3879"W	15008.96	326.961	0.40	-0.39	-0.07
23491.00	87.380	326.800	8075.09	15103.08	12661.31	-8235.19	1758243.81	436908.81	39°41'49.7073"N	80°14'50.0635"W	15103.88	326.959	0.67	-0.62	0.26
23586.00	87.750	326.540	8079.12	15197.99	12740.61	-8287.34	1758191.66	436988.10	39°41'50.4867"N	80°14'50.7391"W	15198.79	326.957	0.48	0.39	-0.27
23682.00	87.510	326.740	8083.09	15293.91	12820.73	-8340.09	1758138.92	437068.21	39°41'51.2741"N	80°14'51.4224"W	15294.71	326.955	0.33	-0.25	0.21
23777.00	86.860	326.330	8087.76	15389.79	12899.88	-8392.41	1758086.60	437147.36	39°41'52.0520"N	80°14'52.1001"W	15389.59	326.953	0.81	-0.68	-0.43
23872.00	86.640	325.810	8093.14	15483.64	12978.58	-8445.35	1758033.66	437226.06	39°41'52.8254"N	80°14'52.7858"W	15484.43	326.947	0.59	-0.23	-0.55
23967.00	87.880	326.620	8097.69	15578.53	13057.44	-8498.12	1757980.90	437304.92	39°41'53.6004"N	80°14'53.4692"W	15579.31	326.943	1.56	1.31	0.85
24062.00	88.000	326.300	8101.10	15673.47	13136.57	-8550.57	1757928.45	437384.04	39°41'54.3781"N	80°14'54.1487"W	15674.24	326.940	0.36	0.13	-0.34
24158.00	87.780	326.540	8104.64	15769.40	13216.50	-8603.63	1757875.39	437463.96	39°41'55.1636"N	80°14'54.8361"W	15770.17	326.937	0.34	-0.29	0.25
24255.00	87.690	326.520	8108.47	15866.33	13297.35	-8657.09	1757821.94	437544.81	39°41'55.9582"N	80°14'55.5285"W	15867.09	326.934	0.10	-0.09	-0.02
24350.00	87.110	326.630	8112.78	15961.23	13376.56	-8709.36	1757769.67	437624.01	39°41'56.7367"N	80°14'56.2058"W	15961.99	326.932	0.62	-0.61	0.12
24445.00	86.830	326.610	8117.80	16056.09	13455.77	-8761.56	1757717.48	437703.22	39°41'57.5152"N	80°14'56.8820"W	16056.86	326.930	0.30	-0.29	-0.02
24540.00	87.200	326.370	8122.75	16150.96	13534.88	-8813.94	1757665.10	437782.32	39°41'58.2926"N	80°14'57.5605"W	16151.73	326.928	0.46	0.39	-0.25
24636.00	87.200	326.710	8127.44	16246.85	13614.87	-8866.80	1757612.24	437862.31	39°41'59.0788"N	80°14'58.2453"W	16247.61	326.925	0.35	0.00	0.35
24732.00	88.650	326.610	8130.91	16342.78	13695.02	-8919.53	1757559.52	437942.45	39°41'59.8665"N	80°14'58.9284"W	16343.55	326.924	1.51	1.51	-0.10
24827.00	87.450	326.350	8134.15	16437.72	13774.17	-8971.96	1757507.09	438021.60	39°42'0.6444"N	80°14'59.6077"W	16438.49	326.921	1.29	-1.26	-0.27
24923.00	88.860	326.470	8137.24	16533.67	13854.10	-9025.04	1757454.01	438101.52	39°42'1.4299"N	80°15'0.2953"W	16534.43	326.918	1.47	1.47	0.13
25018.00	89.480	326.140	8138.61	16628.66	13933.13	-9077.74	1757401.32	438180.55	39°42'2.2066"N	80°15'0.9779"W	16629.41	326.915	0.74	0.65	-0.35
25113.00	89.820	327.270	8139.19	16723.66	14012.53	-9129.89	1757349.17	438259.95	39°42'2.9870"N	80°15'1.6536"W	16724.41	326.914	1.24	0.36	1.19
25208.00	89.080	327.540	8140.10	16818.64	14092.56	-9181.06	1757298.00	438339.97	39°42'3.7737"N	80°15'2.3168"W	16819.40	326.916	0.83	-0.79	0.29
25304.00	87.910	325.660	8142.63	16914.60	14172.68	-9233.89	1757245.18	438420.08	39°42'4.5611"N	80°15'3.0012"W	16915.36	326.915	2.31	-1.22	-1.96
25399.00	89.600	326.630	8144.69	17009.57	14251.55	-9286.79	1757192.27	438498.95	39°42'5.3361"N	80°15'3.6865"W	17010.32	326.910	2.05	1.78	1.02
25494.00	90.370	326.830	8144.72	17104.57	14330.98	-9338.91	1757140.16	438578.37	39°42'6.1168"N	80°15'4.3618"W	17105.32	326.909	0.84	0.81	0.21
25590.00	89.940	326.560	8144.46	17200.56	14411.21	-9391.62	1757087.46	438658.60	39°42'6.9053"N	80°15'5.0447"W	17201.32	326.908	0.53	-0.45	-0.29



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Bunner 3H AWP Proj: 26101'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 3H
Field	Monongalia	API/Legal	
Facility	Bunner Pad	Wellbore	Bunner 3H AWB
Slot	Slot 3H		

WELLPATH DATA (277 stations) † = interpolated, ‡ = extrapolated station															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
25685.00	90.120	326.160	8144.41	17295.56	14490.30	-9444.25	1757034.83	438737.68	39°42'7.6826"N	80°15'5.7265"W	17296.32	326.905	0.46	0.19	-0.42
25780.00	90.860	326.290	8143.59	17390.56	14569.26	-9497.06	1756982.02	438816.64	39°42'8.4585"N	80°15'6.4106"W	17391.31	326.901	0.79	0.78	0.14
25875.00	90.650	326.990	8142.34	17485.55	14648.60	-9549.30	1756929.79	438895.98	39°42'9.2383"N	80°15'7.0874"W	17486.30	326.900	0.77	-0.22	0.74
25970.00	90.650	326.070	8141.26	17580.54	14727.84	-9601.68	1756877.40	438975.21	39°42'10.0171"N	80°15'7.7661"W	17581.29	326.898	0.97	0.00	-0.97
26065.00	90.740	326.810	8140.11	17675.53	14807.00	-9654.20	1756824.89	439054.37	39°42'10.7950"N	80°15'8.4465"W	17676.28	326.896	0.78	0.09	0.78
26076.00	90.550	326.500	8139.99	17686.53	14816.19	-9660.24	1756818.85	439063.55	39°42'10.8853"N	80°15'8.5248"W	17687.28	326.895	3.31	-1.73	-2.82
26101.00‡	90.550	326.500	8139.75	17711.53	14837.03	-9674.04	1756805.05	439084.40	39°42'11.0902"N	80°15'8.7036"W	17712.27	326.895	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Bunner 3H AWB Ref Wellpath: Bunner 3H AWP Proj: 26101'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
17.5in Open Hole	28.00	1280.00	1252.00	28.00	1279.97	0.00	0.00	-7.24	2.27
13.375in Casing Surface	28.00	1250.00	1222.00	28.00	1249.97	0.00	0.00	-7.09	2.18
12.25in Open Hole	1280.00	2530.00	1250.00	1279.97	2528.09	-7.24	2.27	44.44	5.56
9.625in Casing Intermediate	28.00	2500.00	2472.00	28.00	2498.10	0.00	0.00	44.50	5.94
8.75in Open Hole	2530.00	7114.00	4584.00	2528.09	7035.50	44.44	5.56	-231.57	350.28
8.5in Open Hole	7114.00	26101.00	18987.00	7035.50	8139.75	-231.57	350.28	14837.03	-9674.04

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Bunner 3H AWP Proj: 26101'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 3H
Field	Monongalia	API/Legal	
Facility	Bunner Pad	Wellbore	Bunner 3H AWB
Slot	Slot 3H		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Bunner 3H BHL Rev-5	8100.00	14833.63	-9680.26	1756798.83	439081.00	39°42'11.0560"N	80°15'8.7828"W	point
Bunner 3H LP Rev-3	8100.00	268.74	6.41	1766484.91	424516.99	39°39'47.9013"N	80°13'3.3633"W	point
Bunner South Hardline #1 (4.1.21)	8600.00	-848.80	2903.24	1769381.56	423399.52	39°39'37.0841"N	80°12'26.2100"W	polygon
2D Polygon: dimensions not calculated								
Bunner South Hardline #1 (8.15.2022)	9003.00	8639.92	-11858.47	1754620.75	432887.66	39°41'9.6655"N	80°15'35.9803"W	polygon
2D Polygon: dimensions not calculated								

WELLPATH COMPOSITION - Ref Wellbore: Bunner 3H AWB Ref Wellpath: Bunner 3H AWP Proj: 26101'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1120.00	BH Generic gyro - northseeking (Standard)	01 <17.5"> Javins Inertial Gyro [Northseeking] (100'-1120')	Bunner 3H AWB	11/11/2022
1120.00	2451.00	OWSG MWD rev2 + HRGM	02 <12.25"> SDI MWD [OWSG MWD REV.2-HRGM] (1120')(1312'-2451')	Bunner 3H AWB	11/11/2022
2451.00	7038.00	OWSG MWD rev2 + HRGM	03 <8.75">SDI MWD [OWSG MWD REV.2-HRGM] (2451')(2561'-7038')	Bunner 3H AWB	11/11/2022
7038.00	26101.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 <8.5"> BH ATK Curve [HRGM+Short Spacing] (7038')(7151'-26076')	Bunner 3H AWB	11/11/2022

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Actual Wellpath Report

Bunner 3H AWP Proj: 26101'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Bunner 3H
Field	Monongalia	API/Legal	
Facility	Bunner Pad	Wellbore	Bunner 3H AWB
Slot	Slot 3H		

COMMENTS
<p>Wellpath general comments API: 47061019070000 BH Job #: 111543076 Rig: Patterson 277 Duration: 11/12/2022 - 11/18/2022</p> <p>01_<17.5"> Javins Inertial Gyro [Northseeking] (100'-1120') 02_<12.25"> SDI MWD [OWSG MWD REV.2-HRGM] (1120')(1312'-2451') 03_<8.75">SDI MWD [OWSG MWD REV.2-HRGM] (2451')(2561'-7038') 04_<8.5"> BH ATK Curve [HRGM+Short Spacing] (7038')(7151'-26076')</p> <p>Final Survey MD @ 26076' Projected MD at TD: 26101'</p>

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