



NORTHEAST NATURAL ENERGY, LLC



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

Slot: 17H
Well: ERP 17H
Wellbore: ERP 17H AWB

Plot reference wellpath is ERP 17H awp Proj: 25637
True vertical depths are referenced to Patterson 873 (KB)
Reference wellpath measured depths are referenced to Patterson 873 (KB)
Patterson 873 (KB) to Mean Sea Level: 1366.5 feet
Mean Sea Level to Ground level (At Slot: 17H): -1338 feet
Offset wellpath MDs are referenced to each path's default MD datum
Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet
North Reference: Grid north
Scale: True distance
Coordinates are in feet referenced to Slot
Depths are in feet
Created by: tranlam on 2025-04-29; Database: WA_MPL_EASTERNUS_Defn

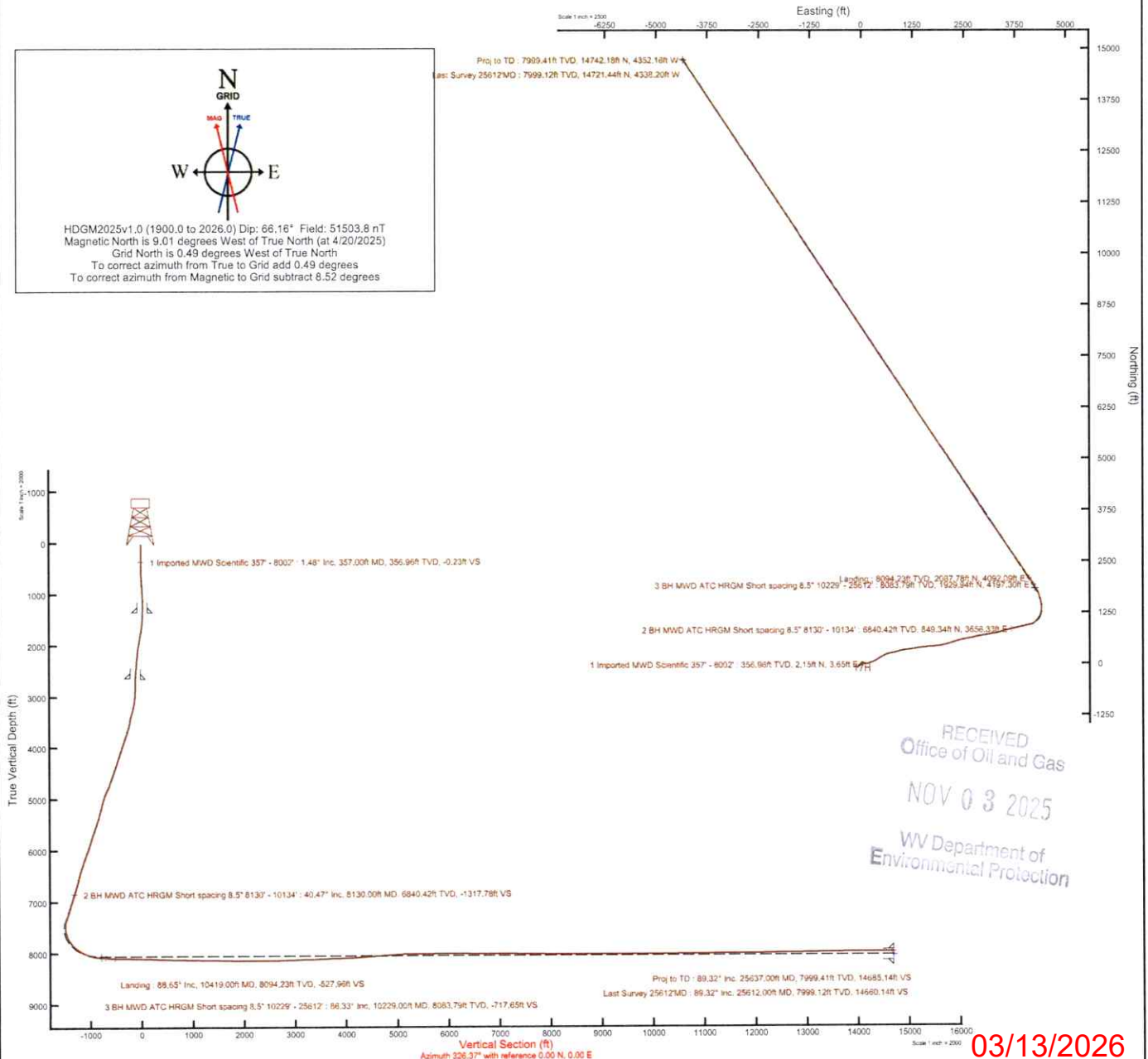
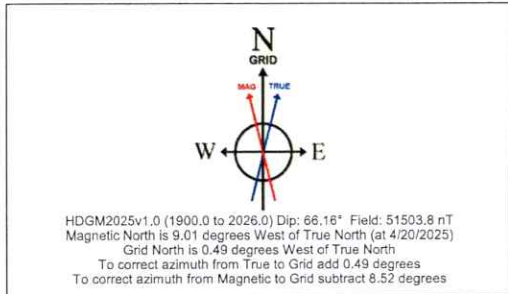
Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
ERP Pad			1750811.960	428438.070	39°40'25.3685"N	80°16'24.2106"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
17H	30.02	80.03	1750891.990	428468.090	39°40'25.6720"N	80°16'23.1904"W
Patterson 873 (KB) to Ground level (At Slot: 17H)					28.5ft	
Mean Sea Level to Ground level (At Slot: 17H)					-1338ft	
Patterson 873 (KB) to Mean Sea Level					1366.5ft	

Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
25637.00	89.320	326.060	7999.41	14742.18	-4352.16	1746540.10	443209.37	39°42'50.9871"N	80°17'20.5038"W

API: 47-061-01964-00-00
BH JOB: 112536639
DURATION: 4/20/2025 - 4/28/2025
RIG: Patterson 873



03/13/2026

Actual Wellpath Report

ERP 17H awp Proj: 25637'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 17H
Field	Monongalia	API	47-061-01964-00-00
Facility	ERP Pad	Wellbore	ERP 17H AWB
Slot	17H		

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	4/29/2025 at 11:57:51 PM
Convergence at slot	0.49° 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	30.02	80.03	1750891.99	428468.09	39°40'25.6720"N	80°16'23.1904"W
Facility Reference Pt			1750811.96	428438.07	39°40'25.3685"N	80°16'24.2106"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	1366.50ft
Horizontal Reference Pt	Slot	Patterson 873 (KB) to Mean Sea Level	1366.50ft
Vertical Reference Pt	Patterson 873 (KB)	Patterson 873 (KB) to Ground Level at Slot (17H)	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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ERP 17H awp Proj: 25637'
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Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 17H
Field	Monongalia	API	47-061-01964-00-00
Facility	ERP Pad	Wellbore	ERP 17H AWB
Slot	17H		

WELLPATH DATA (268 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	59.480	0.00	0.00	0.00	0.00	1750891.99	428468.09	39°40'25.6720"N	80°16'23.1904"W	0.00	0.000	0.00
28.50	0.000	59.480	28.50	0.00	0.00	0.00	1750891.99	428468.09	39°40'25.6720"N	80°16'23.1904"W	0.00	0.000	0.00
357.00	1.480	59.480	356.96	-0.23	2.15	3.65	1750895.64	428470.24	39°40'25.6936"N	80°16'23.1439"W	4.24	59.480	0.45
452.00	2.730	55.530	451.90	-0.26	4.06	6.58	1750898.57	428472.15	39°40'25.7126"N	80°16'23.1067"W	7.73	58.324	1.32
543.00	3.150	27.740	542.78	0.97	7.50	9.53	1750901.52	428475.59	39°40'25.7469"N	80°16'23.0694"W	12.12	51.799	1.61
638.00	3.540	8.440	637.62	4.39	12.71	11.17	1750903.16	428480.80	39°40'25.7985"N	80°16'23.0489"W	16.92	41.319	1.25
733.00	3.410	345.980	732.45	9.23	18.35	10.92	1750902.91	428486.44	39°40'25.8542"N	80°16'23.0528"W	21.35	30.752	1.43
828.00	3.770	335.480	827.27	14.98	23.93	8.94	1750900.93	428492.02	39°40'25.9092"N	80°16'23.0787"W	25.55	20.478	0.79
923.00	4.570	330.650	922.02	21.84	30.08	5.79	1750897.78	428498.16	39°40'25.9697"N	80°16'23.1197"W	30.63	10.892	0.92
1018.00	3.600	316.430	1016.78	28.55	35.54	1.88	1750893.87	428503.62	39°40'26.0233"N	80°16'23.1703"W	35.58	3.022	1.47
1113.00	1.360	302.710	1111.68	32.52	38.31	-1.13	1750890.86	428506.39	39°40'26.0504"N	80°16'23.2090"W	38.32	358.312	2.42
1208.00	0.850	106.820	1206.67	33.01	38.71	-1.40	1750890.59	428506.80	39°40'26.0544"N	80°16'23.2126"W	38.74	357.925	2.31
1284.00	1.420	112.100	1282.66	31.80	38.19	0.01	1750892.00	428506.28	39°40'26.0494"N	80°16'23.1945"W	38.19	0.014	0.76
1404.00	2.580	93.820	1402.58	28.92	37.45	4.08	1750896.07	428505.54	39°40'26.0424"N	80°16'23.1423"W	37.68	6.220	1.09
1500.00	4.090	102.610	1498.42	25.14	36.56	9.58	1750901.57	428504.65	39°40'26.0341"N	80°16'23.0719"W	37.80	14.681	1.66
1596.00	6.690	113.300	1593.99	17.98	33.60	18.06	1750910.05	428501.69	39°40'26.0056"N	80°16'22.9631"W	38.15	28.253	2.89
1691.00	10.090	114.900	1687.96	6.24	27.91	30.69	1750922.68	428496.00	39°40'25.9504"N	80°16'22.8009"W	41.48	47.719	3.59
1787.00	12.700	110.370	1782.06	-9.47	20.69	48.22	1750940.20	428488.78	39°40'25.8806"N	80°16'22.5760"W	52.47	66.772	2.87
1882.00	14.610	103.620	1874.38	-26.72	14.24	69.65	1750961.64	428482.33	39°40'25.8186"N	80°16'22.3012"W	71.09	78.448	2.62
1978.00	16.180	93.640	1966.95	-43.72	10.54	94.77	1750986.76	428478.62	39°40'25.7841"N	80°16'21.9795"W	95.36	83.657	3.20
2073.00	16.770	84.670	2058.06	-58.23	10.97	121.63	1751013.62	428479.06	39°40'25.7907"N	80°16'21.6361"W	122.13	84.847	2.75
2169.00	18.850	75.430	2149.47	-69.87	16.16	150.44	1751042.42	428484.25	39°40'25.8444"N	80°16'21.2682"W	151.31	83.870	3.65
2264.00	21.430	70.100	2238.66	-79.00	25.93	181.62	1751073.60	428494.02	39°40'25.9436"N	80°16'20.8705"W	183.46	81.876	3.33
2360.00	23.400	68.100	2327.41	-87.04	39.01	215.80	1751107.78	428507.10	39°40'26.0758"N	80°16'20.4349"W	219.30	79.754	2.20
2455.00	25.630	66.590	2413.84	-94.52	54.21	252.17	1751144.14	428522.30	39°40'26.2291"N	80°16'19.9715"W	257.93	77.867	2.44
2550.00	27.670	65.540	2498.74	-101.68	71.51	291.11	1751183.08	428539.59	39°40'26.4034"N	80°16'19.4754"W	299.76	76.199	2.20
2755.00	30.220	58.590	2678.17	-111.27	118.13	378.50	1751270.47	428586.21	39°40'26.8715"N	80°16'18.3629"W	396.51	72.668	2.06
2851.00	30.610	57.400	2760.96	-112.64	143.89	419.71	1751311.68	428611.97	39°40'27.1296"N	80°16'17.8387"W	443.69	71.077	0.75
2946.00	30.480	58.840	2842.78	-114.12	169.38	460.71	1751352.67	428637.46	39°40'27.3850"N	80°16'17.3172"W	490.86	69.814	0.78
3041.00	29.960	61.240	2924.87	-117.17	193.26	502.12	1751394.08	428661.34	39°40'27.6245"N	80°16'16.7902"W	538.03	68.948	1.38

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Actual Wellpath Report

ERP 17H awp Proj: 25637'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 17H
Field	Monongalia	API	47-061-01964-00-00
Facility	ERP Pad	Wellbore	ERP 17H AWB
Slot	17H		

WELLPATH DATA (268 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]
3137.00	30.420	65.080	3007.86	-122.89	215.04	545.18	1751437.14	428683.12	39°40'27.8434"N	80°16'16.2419"W	586.06	68.474	2.07
3232.00	30.510	67.980	3089.75	-131.38	234.22	589.35	1751481.30	428702.29	39°40'28.0367"N	80°16'15.6792"W	634.19	68.326	1.55
3327.00	32.530	73.110	3170.74	-143.60	250.68	636.16	1751528.11	428718.76	39°40'28.2034"N	80°16'15.0823"W	683.77	68.493	3.53
3423.00	35.160	78.550	3250.48	-161.47	263.68	687.97	1751579.92	428731.75	39°40'28.3362"N	80°16'14.4212"W	736.77	69.030	4.18
3518.00	37.140	80.520	3327.19	-183.54	273.83	743.08	1751635.02	428741.90	39°40'28.4412"N	80°16'13.7176"W	791.92	69.771	2.42
3613.00	34.010	75.040	3404.47	-203.78	285.42	797.06	1751689.00	428753.49	39°40'28.5603"N	80°16'13.0285"W	846.62	70.298	4.70
3708.00	33.040	71.750	3483.67	-219.16	300.39	847.33	1751739.27	428768.46	39°40'28.7125"N	80°16'12.3873"W	899.00	70.480	2.17
3803.00	35.150	74.680	3562.35	-234.62	315.73	898.31	1751790.24	428783.80	39°40'28.8684"N	80°16'11.7370"W	952.18	70.635	2.81
3902.00	37.030	79.650	3642.36	-255.36	328.62	955.13	1751847.07	428796.69	39°40'29.0006"N	80°16'11.0116"W	1010.08	71.014	3.51
3994.00	38.110	81.540	3715.28	-278.39	337.77	1010.47	1751902.40	428805.84	39°40'29.0957"N	80°16'10.3049"W	1065.43	71.517	1.72
4093.00	37.950	81.930	3793.26	-304.52	346.54	1070.83	1751962.75	428814.61	39°40'29.1875"N	80°16'9.5340"W	1125.51	72.067	0.29
4188.00	38.150	83.310	3868.07	-330.41	354.06	1128.89	1752020.82	428822.13	39°40'29.2667"N	80°16'8.7923"W	1183.11	72.587	0.92
4283.00	37.880	81.080	3942.92	-355.90	362.00	1186.85	1752078.77	428830.07	39°40'29.3501"N	80°16'8.0519"W	1240.83	73.038	1.47
4378.00	38.470	80.820	4017.61	-380.32	371.24	1244.84	1752136.75	428839.30	39°40'29.4463"N	80°16'7.3114"W	1299.01	73.394	0.64
4475.00	38.210	81.220	4093.69	-405.42	380.63	1304.27	1752196.18	428848.70	39°40'29.5441"N	80°16'6.5523"W	1358.68	73.731	0.37
4568.00	37.440	81.790	4167.15	-429.64	389.06	1360.68	1752252.58	428857.12	39°40'29.6322"N	80°16'5.8319"W	1415.20	74.043	0.91
4663.00	36.690	83.120	4242.95	-454.81	396.58	1417.43	1752309.34	428864.65	39°40'29.7113"N	80°16'5.1069"W	1471.87	74.369	1.16
4756.00	36.260	81.760	4317.74	-479.11	403.85	1472.24	1752364.14	428871.91	39°40'29.7878"N	80°16'4.4068"W	1526.62	74.661	0.98
4852.00	36.710	82.110	4394.92	-503.74	411.86	1528.75	1752420.65	428879.92	39°40'29.8717"N	80°16'3.6849"W	1583.26	74.922	0.52
4947.00	38.140	83.830	4470.37	-529.60	418.91	1586.05	1752477.94	428886.97	39°40'29.9462"N	80°16'2.9529"W	1640.44	75.205	1.86
5042.00	37.660	85.400	4545.33	-557.21	424.39	1644.14	1752536.03	428892.45	39°40'30.0053"N	80°16'2.2105"W	1698.03	75.527	1.13
5137.00	36.710	86.050	4621.01	-585.36	428.67	1701.40	1752593.29	428896.74	39°40'30.0524"N	80°16'1.4788"W	1754.57	75.859	1.08
5233.00	37.750	87.160	4697.45	-614.61	432.10	1759.38	1752651.26	428900.17	39°40'30.0913"N	80°16'0.7377"W	1811.66	76.201	1.29
5329.00	45.720	84.430	4769.04	-645.87	436.90	1823.04	1752714.92	428904.97	39°40'30.1441"N	80°15'59.9241"W	1874.66	76.523	8.51
5423.00	48.610	80.840	4832.95	-676.31	445.79	1891.37	1752783.24	428913.85	39°40'30.2376"N	80°15'59.0512"W	1943.19	76.738	4.16
5519.00	49.800	76.950	4895.69	-704.12	459.80	1962.65	1752854.52	428927.86	39°40'30.3821"N	80°15'58.1411"W	2015.79	76.815	3.31
5614.00	47.580	75.270	4958.40	-728.24	476.91	2031.92	1752923.79	428944.97	39°40'30.5571"N	80°15'57.2571"W	2087.14	76.791	2.69
5709.00	44.310	74.830	5024.45	-750.11	494.52	2097.87	1752989.74	428962.58	39°40'30.7366"N	80°15'56.4156"W	2155.37	76.736	3.46
5804.00	43.620	71.950	5092.83	-769.42	513.35	2161.06	1753052.92	428981.41	39°40'30.9281"N	80°15'55.6095"W	2221.20	76.637	2.23
5899.00	43.320	71.830	5161.78	-786.91	533.67	2223.18	1753115.04	429001.73	39°40'31.1341"N	80°15'54.8173"W	2286.34	76.502	0.33

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Actual Wellpath Report

ERP 17H awp Proj: 25637'

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REFERENCE WELLPATH IDENTIFICATION

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Field	Monongalia	API	47-061-01964-00-00
Facility	ERP Pad	Wellbore	ERP 17H AWB
Slot	17H		

WELLPATH DATA (268 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]
5995.00	42.650	73.210	5232.00	-805.11	553.33	2285.61	1753177.46	429021.39	39°40'31.3337"N	80°15'54.0211"W	2351.63	76.391	1.20
6094.00	41.500	75.260	5305.49	-825.45	571.37	2349.44	1753241.29	429039.42	39°40'31.5173"N	80°15'53.2067"W	2417.92	76.331	1.81
6188.00	41.840	75.840	5375.71	-845.98	586.96	2409.96	1753301.80	429055.02	39°40'31.6764"N	80°15'52.4344"W	2480.41	76.312	0.55
6284.00	41.380	76.690	5447.49	-867.67	602.10	2471.88	1753363.72	429070.15	39°40'31.8313"N	80°15'51.6441"W	2544.16	76.311	0.76
6379.00	41.370	79.550	5518.78	-890.93	615.02	2533.32	1753425.15	429083.08	39°40'31.9641"N	80°15'50.8599"W	2606.91	76.354	1.99
6474.00	41.220	81.370	5590.16	-916.52	625.42	2595.14	1753486.97	429093.47	39°40'32.0720"N	80°15'50.0704"W	2669.44	76.450	1.27
6570.00	42.530	80.040	5661.64	-942.91	635.77	2658.37	1753550.20	429103.83	39°40'32.1797"N	80°15'49.2628"W	2733.34	76.550	1.65
6665.00	42.500	76.640	5731.67	-966.93	648.74	2721.23	1753613.05	429116.80	39°40'32.3132"N	80°15'48.4604"W	2797.49	76.591	2.42
6760.00	40.760	76.280	5802.68	-988.61	663.52	2782.58	1753674.40	429131.57	39°40'32.4643"N	80°15'47.6773"W	2860.60	76.588	1.85
6855.00	40.340	78.860	5874.87	-1010.93	676.81	2842.88	1753734.70	429144.86	39°40'32.6008"N	80°15'46.9076"W	2922.34	76.609	1.82
6951.00	40.700	80.630	5947.85	-1035.68	687.91	2904.25	1753796.07	429155.96	39°40'32.7156"N	80°15'46.1239"W	2984.61	76.674	1.26
7046.00	39.380	82.210	6020.58	-1061.54	697.04	2964.68	1753856.49	429165.09	39°40'32.8109"N	80°15'45.3522"W	3045.52	76.769	1.75
7142.00	40.500	81.310	6094.18	-1087.96	705.88	3025.67	1753917.48	429173.93	39°40'32.9034"N	80°15'44.5731"W	3106.92	76.868	1.31
7241.00	41.400	80.730	6168.96	-1115.02	716.01	3089.76	1753981.56	429184.06	39°40'33.0089"N	80°15'43.7546"W	3171.64	76.953	0.99
7336.00	42.130	79.430	6239.82	-1140.46	726.92	3152.08	1754043.88	429194.96	39°40'33.1218"N	80°15'42.9587"W	3234.82	77.014	1.19
7432.00	40.330	79.440	6312.01	-1165.25	738.52	3214.28	1754106.08	429206.56	39°40'33.2417"N	80°15'42.1645"W	3298.03	77.060	1.88
7527.00	40.090	78.670	6384.56	-1188.90	750.16	3274.50	1754166.29	429218.20	39°40'33.3618"N	80°15'41.3957"W	3359.33	77.097	0.58
7622.00	40.450	74.990	6457.06	-1210.35	764.15	3334.26	1754226.05	429232.20	39°40'33.5051"N	80°15'40.6328"W	3420.71	77.092	2.53
7717.00	41.150	72.730	6528.98	-1228.99	781.41	3393.88	1754285.66	429249.46	39°40'33.6807"N	80°15'39.8723"W	3482.68	77.034	1.72
7812.00	41.400	73.150	6600.37	-1246.87	799.80	3453.79	1754345.57	429267.84	39°40'33.8674"N	80°15'39.1081"W	3545.19	76.962	0.39
7908.00	41.140	75.660	6672.53	-1266.47	816.82	3514.77	1754406.55	429284.86	39°40'34.0407"N	80°15'38.3300"W	3608.44	76.917	1.75
8002.00	40.980	77.110	6743.41	-1287.60	831.36	3574.78	1754466.55	429299.40	39°40'34.1894"N	80°15'37.5642"W	3670.18	76.908	1.03
8130.00	40.470	78.020	6840.42	-1317.78	849.34	3656.33	1754548.09	429317.38	39°40'34.3740"N	80°15'36.5232"W	3753.68	76.922	0.61
8225.00	40.570	77.920	6912.64	-1340.51	862.21	3716.69	1754608.46	429330.25	39°40'34.5061"N	80°15'35.7526"W	3815.39	76.939	0.13
8321.00	41.770	77.870	6984.90	-1363.69	875.46	3778.48	1754670.24	429343.50	39°40'34.6423"N	80°15'34.9638"W	3878.58	76.955	1.25
8417.00	42.460	76.000	7056.11	-1386.30	890.02	3841.19	1754732.95	429358.06	39°40'34.7914"N	80°15'34.1634"W	3942.95	76.955	1.49
8512.00	42.320	74.740	7126.28	-1407.15	906.19	3903.16	1754794.91	429374.23	39°40'34.9564"N	80°15'33.3727"W	4006.97	76.929	0.91
8608.00	42.470	77.330	7197.18	-1428.93	921.81	3965.96	1754857.71	429389.84	39°40'35.1160"N	80°15'32.5712"W	4071.68	76.915	1.83
8703.00	42.530	77.240	7267.22	-1451.84	935.94	4028.57	1754920.31	429403.97	39°40'35.2608"N	80°15'31.7720"W	4135.86	76.921	0.09
8799.00	42.440	77.520	7338.02	-1475.09	950.10	4091.84	1754983.58	429418.13	39°40'35.4061"N	80°15'30.9644"W	4200.69	76.928	0.22

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Actual Wellpath Report

ERP 17H awp Proj: 25637'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 17H
Field	Monongalia	API	47-061-01964-00-00
Facility	ERP Pad	Wellbore	ERP 17H AWB
Slot	17H		

WELLPATH DATA (268 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]
8894.00	43.350	70.970	7407.65	-1494.88	967.67	4153.99	1755045.73	429435.70	39°40'35.5849"N	80°15'30.1714"W	4265.21	76.887	4.79
8990.00	44.210	53.810	7477.21	-1501.72	998.29	4212.36	1755104.10	429466.32	39°40'35.8923"N	80°15'29.4282"W	4329.04	76.667	12.38
9085.00	40.100	45.180	7547.68	-1494.29	1039.46	4260.86	1755152.59	429507.49	39°40'36.3033"N	80°15'28.8124"W	4385.82	76.290	7.47
9180.00	41.380	35.360	7619.74	-1477.08	1086.69	4300.78	1755192.50	429554.71	39°40'36.7733"N	80°15'28.3070"W	4435.94	75.820	6.87
9276.00	44.850	31.180	7689.82	-1451.28	1141.56	4336.68	1755228.41	429609.58	39°40'37.3185"N	80°15'27.8537"W	4484.41	75.252	4.68
9371.00	47.320	20.450	7755.80	-1416.48	1203.04	4366.28	1755258.00	429671.05	39°40'37.9286"N	80°15'27.4819"W	4528.98	74.596	8.53
9466.00	50.070	7.160	7818.66	-1368.28	1272.08	4383.06	1755274.79	429740.10	39°40'38.6124"N	80°15'27.2746"W	4563.93	73.816	10.89
9562.00	53.750	0.840	7877.91	-1308.45	1347.38	4388.22	1755279.95	429815.39	39°40'39.3569"N	80°15'27.2167"W	4590.42	72.931	6.44
9657.00	58.530	355.010	7930.86	-1241.23	1426.14	4385.26	1755276.98	429894.14	39°40'40.1350"N	80°15'27.2632"W	4611.33	71.985	7.16
9752.00	63.320	349.390	7977.04	-1166.52	1508.31	4373.90	1755265.63	429976.31	39°40'40.9461"N	80°15'27.4172"W	4626.67	70.974	7.22
9847.00	68.940	344.340	8015.49	-1085.18	1592.82	4354.10	1755245.82	430060.82	39°40'41.7797"N	80°15'27.6796"W	4636.30	69.906	7.65
9943.00	73.970	341.860	8046.02	-998.05	1679.86	4327.62	1755219.35	430147.85	39°40'42.6376"N	80°15'28.0276"W	4642.23	68.785	5.78
10038.00	81.970	334.900	8065.82	-907.29	1766.08	4293.36	1755185.09	430234.07	39°40'43.4868"N	80°15'28.4751"W	4642.41	67.640	11.05
10134.00	85.070	328.290	8076.67	-812.36	1849.92	4248.00	1755139.73	430317.90	39°40'44.3116"N	80°15'29.0643"W	4633.33	66.468	7.56
10229.00	86.330	326.990	8083.79	-717.65	1929.94	4197.30	1755089.03	430397.91	39°40'45.0981"N	80°15'29.7214"W	4619.74	65.307	1.90
10324.00	86.210	326.400	8089.97	-622.86	2009.17	4145.25	1755036.98	430477.13	39°40'45.8768"N	80°15'30.3957"W	4606.50	64.141	0.63
10419.00	88.650	325.470	8094.23	-527.96	2087.78	4092.09	1754983.83	430555.74	39°40'46.6492"N	80°15'31.0840"W	4593.91	62.969	2.75
10515.00	89.010	325.390	8096.19	-432.00	2166.81	4037.63	1754929.38	430634.77	39°40'47.4257"N	80°15'31.7891"W	4582.31	61.780	0.38
10610.00	88.830	325.620	8097.98	-337.03	2245.09	3983.84	1754875.59	430713.05	39°40'48.1948"N	80°15'32.4855"W	4572.90	60.597	0.31
10705.00	88.920	325.180	8099.85	-242.06	2323.28	3929.90	1754821.65	430791.22	39°40'48.9630"N	80°15'33.1838"W	4565.28	59.409	0.47
10800.00	88.950	325.330	8101.61	-147.09	2401.32	3875.77	1754767.52	430869.27	39°40'49.7298"N	80°15'33.8846"W	4559.38	58.219	0.16
10896.00	88.980	325.550	8103.35	-51.12	2480.37	3821.32	1754713.08	430948.31	39°40'50.5064"N	80°15'34.5895"W	4555.74	57.013	0.23
10991.00	88.150	325.290	8105.73	43.84	2558.56	3767.42	1754659.18	431026.50	39°40'51.2746"N	80°15'35.2873"W	4554.09	55.818	0.92
11086.00	88.090	325.100	8108.84	138.77	2636.52	3713.23	1754604.99	431104.45	39°40'52.0406"N	80°15'35.9889"W	4554.04	54.624	0.21
11181.00	88.250	325.270	8111.88	233.70	2714.48	3659.02	1754550.78	431182.40	39°40'52.8064"N	80°15'36.6907"W	4555.96	53.430	0.25
11276.00	88.180	325.350	8114.83	328.63	2792.55	3604.97	1754496.74	431260.47	39°40'53.5735"N	80°15'37.3903"W	4560.06	52.237	0.11
11372.00	87.720	325.840	8118.27	424.56	2871.71	3550.77	1754442.54	431339.62	39°40'54.3512"N	80°15'38.0922"W	4566.69	51.036	0.70
11466.00	88.250	325.750	8121.57	518.50	2949.40	3497.96	1754389.73	431417.31	39°40'55.1146"N	80°15'38.7761"W	4575.44	49.863	0.57
11561.00	87.850	325.930	8124.81	613.44	3027.97	3444.64	1754336.42	431495.87	39°40'55.8865"N	80°15'39.4665"W	4586.30	48.683	0.46
11654.00	88.920	325.910	8127.43	706.40	3104.96	3392.55	1754284.34	431572.86	39°40'56.6431"N	80°15'40.1411"W	4598.93	47.534	1.15

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Actual Wellpath Report

ERP 17H awp Proj: 25637'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 17H
Field	Monongalia	API	47-061-01964-00-00
Facility	ERP Pad	Wellbore	ERP 17H AWB
Slot	17H		

WELLPATH DATA (268 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]
11750.00	88.710	325.890	8129.41	802.38	3184.44	3338.74	1754230.53	431652.33	39°40'57.4240"N	80°15'40.8379"W	4613.88	46.355	0.22
11845.00	88.680	325.970	8131.58	897.35	3263.11	3285.54	1754177.33	431731.00	39°40'58.1970"N	80°15'41.5269"W	4630.62	45.196	0.09
11940.00	89.600	326.030	8133.00	992.33	3341.86	3232.42	1754124.21	431809.75	39°40'58.9708"N	80°15'42.2149"W	4649.36	44.046	0.97
12035.00	89.290	324.850	8133.92	1087.32	3420.09	3178.53	1754070.33	431887.97	39°40'59.7394"N	80°15'42.9126"W	4669.06	42.903	1.28
12131.00	89.540	325.680	8134.90	1183.29	3498.98	3123.84	1754015.64	431966.86	39°41'0.5144"N	80°15'43.6207"W	4690.54	41.758	0.90
12226.00	88.620	325.070	8136.43	1278.26	3577.14	3069.87	1753961.67	432045.01	39°41'1.2823"N	80°15'44.3195"W	4713.81	40.636	1.16
12321.00	89.080	325.750	8138.33	1373.23	3655.33	3015.95	1753907.75	432123.20	39°41'2.0505"N	80°15'45.0176"W	4738.92	39.525	0.86
12416.00	88.890	326.880	8140.02	1468.21	3734.37	2963.27	1753855.07	432202.23	39°41'2.8272"N	80°15'45.7000"W	4767.23	38.432	1.21
12511.00	88.890	326.500	8141.86	1563.19	3813.75	2911.10	1753802.92	432281.60	39°41'3.6073"N	80°15'46.3758"W	4797.83	37.355	0.40
12607.00	89.260	326.770	8143.41	1659.18	3893.91	2858.31	1753750.13	432361.77	39°41'4.3951"N	80°15'47.0597"W	4830.37	36.280	0.48
12702.00	89.630	326.910	8144.33	1754.17	3973.44	2806.35	1753698.17	432441.29	39°41'5.1766"N	80°15'47.7330"W	4864.55	35.233	0.42
12797.00	89.570	326.480	8144.99	1849.17	4052.83	2754.19	1753646.01	432520.68	39°41'5.9569"N	80°15'48.4088"W	4900.10	34.199	0.46
12892.00	89.750	326.960	8145.55	1944.17	4132.25	2702.06	1753593.89	432600.09	39°41'6.7373"N	80°15'49.0842"W	4937.27	33.181	0.54
12988.00	89.540	326.980	8146.15	2040.16	4212.73	2649.74	1753541.56	432680.57	39°41'7.5283"N	80°15'49.7622"W	4976.77	32.169	0.22
13082.00	89.320	326.640	8147.08	2134.15	4291.40	2598.28	1753490.11	432759.22	39°41'8.3014"N	80°15'50.4289"W	5016.69	31.193	0.43
13178.00	89.750	325.540	8147.86	2230.14	4371.06	2544.73	1753436.56	432838.89	39°41'9.0842"N	80°15'51.1226"W	5057.85	30.207	1.23
13273.00	90.060	327.000	8148.02	2325.14	4450.07	2491.98	1753383.81	432917.89	39°41'9.8605"N	80°15'51.8059"W	5100.30	29.248	1.57
13368.00	90.030	326.500	8147.95	2420.14	4529.52	2439.89	1753331.73	432997.33	39°41'10.6413"N	80°15'52.4808"W	5144.86	28.310	0.53
13463.00	90.650	326.550	8147.38	2515.14	4608.76	2387.49	1753279.34	433076.57	39°41'11.4200"N	80°15'53.1596"W	5190.45	27.386	0.65
13558.00	90.890	326.970	8146.11	2610.13	4688.20	2335.42	1753227.27	433156.01	39°41'12.2007"N	80°15'53.8343"W	5237.70	26.480	0.51
13654.00	91.420	326.580	8144.17	2706.10	4768.49	2282.83	1753174.68	433236.29	39°41'12.9898"N	80°15'54.5157"W	5286.76	25.582	0.69
13749.00	91.390	326.750	8141.84	2801.07	4847.84	2230.64	1753122.50	433315.64	39°41'13.7695"N	80°15'55.1919"W	5336.41	24.709	0.18
13844.00	92.400	326.670	8138.70	2896.02	4927.21	2178.53	1753070.38	433395.00	39°41'14.5495"N	80°15'55.8672"W	5387.33	23.852	1.07
13939.00	92.250	326.710	8134.85	2990.94	5006.53	2126.40	1753018.26	433474.32	39°41'15.3290"N	80°15'56.5426"W	5439.39	23.012	0.16
14035.00	91.570	326.430	8131.65	3086.88	5086.61	2073.54	1752965.40	433554.39	39°41'16.1159"N	80°15'57.2274"W	5493.01	22.178	0.77
14129.00	90.980	326.080	8129.56	3180.86	5164.75	2021.34	1752913.20	433632.52	39°41'16.8837"N	80°15'57.9037"W	5546.21	21.374	0.73
14223.00	91.690	326.940	8127.37	3274.83	5243.12	1969.48	1752861.35	433710.89	39°41'17.6539"N	80°15'58.5755"W	5600.82	20.588	1.19
14318.00	91.880	326.750	8124.41	3369.78	5322.62	1917.55	1752809.43	433790.38	39°41'18.4351"N	80°15'59.2485"W	5657.50	19.812	0.28
14413.00	92.520	326.320	8120.76	3464.71	5401.81	1865.21	1752757.08	433869.57	39°41'19.2133"N	80°15'59.9267"W	5714.76	19.049	0.81
14508.00	92.590	326.910	8116.52	3559.62	5481.05	1812.98	1752704.86	433948.81	39°41'19.9920"N	80°16'0.6033"W	5773.11	18.303	0.62

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Actual Wellpath Report

ERP 17H awp Proj: 25637'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 17H
Field	Monongalia	API	47-061-01964-00-00
Facility	ERP Pad	Wellbore	ERP 17H AWB
Slot	17H		

WELLPATH DATA (268 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]
14604.00	92.250	326.530	8112.47	3655.53	5561.24	1760.35	1752652.24	434028.99	39°41'20.7800"N	80°16'1.2853"W	5833.20	17.565	0.53
14699.00	91.570	325.800	8109.30	3750.47	5640.10	1707.49	1752599.37	434107.85	39°41'21.5549"N	80°16'1.9701"W	5892.90	16.843	1.05
14794.00	92.310	324.780	8106.09	3845.40	5718.15	1653.42	1752545.31	434185.89	39°41'22.3217"N	80°16'2.6702"W	5952.40	16.127	1.33
14889.00	91.690	326.770	8102.77	3940.33	5796.65	1600.03	1752491.92	434264.39	39°41'23.0929"N	80°16'3.3618"W	6013.42	15.431	2.19
14984.00	92.090	326.410	8099.64	4035.28	5875.91	1547.75	1752439.64	434343.64	39°41'23.8718"N	80°16'4.0392"W	6076.33	14.757	0.57
15078.00	93.790	326.840	8094.82	4129.15	5954.30	1496.11	1752388.00	434422.03	39°41'24.6421"N	80°16'4.7084"W	6139.38	14.104	1.87
15174.00	93.660	326.780	8088.58	4224.95	6034.47	1443.66	1752335.57	434502.19	39°41'25.4300"N	80°16'5.3879"W	6204.75	13.454	0.15
15269.00	94.500	326.510	8081.82	4319.70	6113.62	1391.56	1752283.47	434581.33	39°41'26.2078"N	80°16'6.0630"W	6269.99	12.823	0.93
15365.00	93.940	326.510	8074.76	4415.44	6193.46	1338.74	1752230.64	434661.17	39°41'26.9924"N	80°16'6.7475"W	6336.50	12.197	0.58
15460.00	93.760	326.560	8068.38	4510.23	6272.53	1286.47	1752178.38	434740.24	39°41'27.7694"N	80°16'7.4248"W	6403.10	11.590	0.20
15555.00	93.970	326.700	8061.98	4605.01	6351.69	1234.33	1752126.25	434819.39	39°41'28.5472"N	80°16'8.1003"W	6470.52	10.997	0.27
15649.00	93.910	326.140	8055.52	4698.79	6429.82	1182.46	1752074.38	434897.52	39°41'29.3149"N	80°16'8.7724"W	6537.64	10.420	0.60
15744.00	93.760	326.220	8049.16	4793.57	6508.57	1129.71	1752021.63	434976.26	39°41'30.0887"N	80°16'9.4559"W	6605.88	9.847	0.18
15840.00	94.090	326.480	8042.59	4889.35	6588.29	1076.64	1751968.56	435055.98	39°41'30.8721"N	80°16'10.1435"W	6675.68	9.281	0.44
15936.00	93.630	325.860	8036.13	4985.13	6667.86	1023.31	1751915.24	435135.54	39°41'31.6539"N	80°16'10.8343"W	6745.93	8.725	0.80
16031.00	93.970	326.550	8029.83	5079.92	6746.63	970.59	1751862.52	435214.31	39°41'32.4279"N	80°16'11.5174"W	6816.09	8.187	0.81
16125.00	92.180	325.290	8024.79	5173.78	6824.37	917.99	1751809.93	435292.05	39°41'33.1917"N	80°16'12.1987"W	6885.84	7.661	2.33
16221.00	90.580	325.890	8022.48	5269.74	6903.55	863.76	1751755.70	435371.22	39°41'33.9696"N	80°16'12.9011"W	6957.37	7.132	1.78
16317.00	89.660	326.520	8022.28	5365.73	6983.32	810.36	1751702.30	435450.99	39°41'34.7534"N	80°16'13.5929"W	7030.19	6.619	1.16
16412.00	89.970	326.630	8022.58	5460.73	7062.61	758.03	1751649.98	435530.27	39°41'35.5326"N	80°16'14.2710"W	7103.18	6.126	0.35
16507.00	90.400	326.010	8022.28	5555.73	7141.67	705.35	1751597.30	435609.32	39°41'36.3093"N	80°16'14.9536"W	7176.41	5.641	0.79
16602.00	90.580	326.800	8021.47	5650.73	7220.79	652.79	1751544.74	435688.44	39°41'37.0869"N	80°16'15.6347"W	7250.24	5.166	0.85
16697.00	90.090	326.320	8020.91	5745.72	7300.07	600.44	1751492.39	435767.71	39°41'37.8658"N	80°16'16.3131"W	7324.72	4.702	0.72
16792.00	90.090	326.270	8020.76	5840.72	7379.10	547.72	1751439.68	435846.74	39°41'38.6424"N	80°16'16.9961"W	7399.40	4.245	0.05
16888.00	90.180	326.410	8020.53	5936.72	7459.00	494.51	1751386.47	435926.64	39°41'39.4275"N	80°16'17.6856"W	7475.38	3.793	0.17
16983.00	89.850	326.270	8020.51	6031.72	7538.07	441.86	1751333.82	436005.70	39°41'40.2045"N	80°16'18.3678"W	7551.01	3.355	0.38
17078.00	89.970	326.350	8020.66	6126.72	7617.12	389.16	1751281.13	436084.74	39°41'40.9812"N	80°16'19.0506"W	7627.05	2.925	0.15
17174.00	90.150	326.480	8020.56	6222.72	7697.09	336.06	1751228.03	436164.71	39°41'41.7670"N	80°16'19.7388"W	7704.43	2.500	0.23
17269.00	89.880	326.340	8020.53	6317.72	7776.23	283.50	1751175.47	436243.85	39°41'42.5446"N	80°16'20.4198"W	7781.40	2.088	0.32
17365.00	89.690	326.090	8020.89	6413.72	7856.02	230.12	1751122.09	436323.63	39°41'43.3286"N	80°16'21.1115"W	7859.39	1.678	0.33

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Actual Wellpath Report

ERP 17H awp Proj: 25637'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 17H
Field	Monongalia	API	47-061-01964-00-00
Facility	ERP Pad	Wellbore	ERP 17H AWB
Slot	17H		

WELLPATH DATA (268 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]
17460.00	90.060	326.880	8021.10	6508.72	7935.22	177.66	1751069.64	436402.83	39°41'44.1068"N	80°16'21.7912"W	7937.21	1.283	0.92
17555.00	89.910	326.730	8021.13	6603.72	8014.72	125.65	1751017.63	436482.32	39°41'44.8880"N	80°16'22.4653"W	8015.70	0.898	0.22
17651.00	89.820	326.730	8021.35	6699.72	8094.98	72.99	1750964.97	436562.58	39°41'45.6768"N	80°16'23.1479"W	8095.31	0.517	0.09
17746.00	89.660	326.430	8021.78	6794.71	8174.27	20.66	1750912.65	436641.87	39°41'46.4559"N	80°16'23.8260"W	8174.30	0.145	0.36
17841.00	89.850	326.370	8022.19	6889.71	8253.40	-31.91	1750860.08	436720.99	39°41'47.2334"N	80°16'24.5072"W	8253.46	359.778	0.21
17936.00	89.750	326.380	8022.52	6984.71	8332.51	-84.51	1750807.48	436800.09	39°41'48.0107"N	80°16'25.1889"W	8332.93	359.419	0.11
18031.00	89.450	326.790	8023.18	7079.71	8411.80	-136.83	1750755.17	436879.38	39°41'48.7899"N	80°16'25.8669"W	8412.91	359.068	0.53
18127.00	88.740	325.480	8024.70	7175.69	8491.50	-190.32	1750701.69	436959.07	39°41'49.5729"N	80°16'26.5599"W	8493.63	358.716	1.55
18222.00	89.110	326.050	8026.48	7270.67	8570.03	-243.75	1750648.25	437037.60	39°41'50.3444"N	80°16'27.2522"W	8573.49	358.371	0.72
18317.00	89.320	326.360	8027.78	7365.66	8648.97	-296.59	1750595.42	437116.53	39°41'51.1201"N	80°16'27.9368"W	8654.05	358.036	0.39
18412.00	89.140	325.470	8029.06	7460.65	8727.64	-349.82	1750542.19	437195.20	39°41'51.8930"N	80°16'28.6265"W	8734.65	357.705	0.96
18508.00	89.690	326.870	8030.04	7556.64	8807.38	-403.27	1750488.75	437274.93	39°41'52.6765"N	80°16'29.3190"W	8816.61	357.378	1.57
18603.00	90.030	326.130	8030.27	7651.64	8886.60	-455.70	1750436.32	437354.15	39°41'53.4549"N	80°16'29.9985"W	8898.27	357.064	0.86
18699.00	89.970	326.470	8030.27	7747.64	8966.47	-508.96	1750383.06	437434.01	39°41'54.2396"N	80°16'30.6887"W	8980.90	356.751	0.36
18794.00	89.690	326.110	8030.55	7842.64	9045.49	-561.69	1750330.34	437513.03	39°41'55.0161"N	80°16'31.3720"W	9062.91	356.447	0.48
18889.00	88.950	324.960	8031.68	7937.62	9123.81	-615.44	1750276.58	437591.34	39°41'55.7855"N	80°16'32.0683"W	9144.54	356.141	1.44
18984.00	90.000	326.790	8032.55	8032.61	9202.44	-668.73	1750223.30	437669.97	39°41'56.5580"N	80°16'32.7587"W	9226.71	355.844	2.22
19080.00	89.630	325.650	8032.86	8128.60	9282.24	-722.11	1750169.93	437749.76	39°41'57.3420"N	80°16'33.4504"W	9310.28	355.552	1.25
19175.00	89.540	326.640	8033.55	8223.60	9361.13	-775.03	1750117.01	437828.64	39°41'58.1171"N	80°16'34.1362"W	9393.15	355.267	1.05
19271.00	89.660	326.580	8034.22	8319.60	9441.28	-827.86	1750064.18	437908.79	39°41'58.9047"N	80°16'34.8209"W	9477.50	354.989	0.14
19366.00	90.090	326.790	8034.43	8414.59	9520.67	-880.04	1750012.01	437988.18	39°41'59.6848"N	80°16'35.4972"W	9561.25	354.719	0.50
19461.00	89.690	326.420	8034.61	8509.59	9599.98	-932.33	1749959.72	438067.49	39°42'0.4642"N	80°16'36.1749"W	9645.15	354.453	0.57
19556.00	90.250	326.950	8034.66	8604.59	9679.37	-984.50	1749907.55	438146.87	39°42'1.2442"N	80°16'36.8512"W	9729.31	354.192	0.81
19652.00	90.150	326.460	8034.33	8700.59	9759.61	-1037.20	1749854.85	438227.10	39°42'2.0327"N	80°16'37.5343"W	9814.57	353.934	0.52
19747.00	90.120	326.650	8034.10	8795.59	9838.88	-1089.56	1749802.50	438306.37	39°42'2.8116"N	80°16'38.2129"W	9899.02	353.681	0.20
19843.00	89.940	326.560	8034.05	8891.59	9919.03	-1142.40	1749749.66	438386.51	39°42'3.5992"N	80°16'38.8978"W	9984.60	353.430	0.21
19938.00	89.820	325.870	8034.25	8986.59	9997.98	-1195.23	1749696.84	438465.47	39°42'4.3749"N	80°16'39.5824"W	10069.17	353.183	0.74
20033.00	90.310	326.730	8034.14	9081.58	10077.02	-1247.94	1749644.13	438544.50	39°42'5.1515"N	80°16'40.2655"W	10154.00	352.940	1.04
20128.00	89.230	326.030	8034.52	9176.58	10156.13	-1300.53	1749591.53	438623.60	39°42'5.9288"N	80°16'40.9472"W	10239.06	352.703	1.35
20224.00	89.380	325.250	8035.69	9272.57	10235.37	-1354.71	1749537.36	438702.84	39°42'6.7072"N	80°16'41.6491"W	10324.63	352.460	0.83

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Actual Wellpath Report

ERP 17H awp Proj: 25637'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 17H
Field	Monongalia	API	47-061-01964-00-00
Facility	ERP Pad	Wellbore	ERP 17H AWB
Slot	17H		

WELLPATH DATA (268 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]
20319.00	89.510	325.920	8036.61	9367.55	10313.74	-1408.40	1749483.67	438781.20	39°42'7.4771"N	80°16'42.3446"W	10409.45	352.224	0.72
20414.00	89.660	326.600	8037.30	9462.55	10392.73	-1461.16	1749430.91	438860.19	39°42'8.2533"N	80°16'43.0284"W	10494.95	351.997	0.73
20510.00	90.340	327.240	8037.30	9558.54	10473.17	-1513.56	1749378.52	438940.62	39°42'9.0437"N	80°16'43.7077"W	10581.97	351.777	0.97
20605.00	90.460	326.840	8036.63	9653.53	10552.88	-1565.25	1749326.84	439020.33	39°42'9.8270"N	80°16'44.3778"W	10668.33	351.563	0.44
20700.00	90.030	326.710	8036.23	9748.53	10632.35	-1617.30	1749274.79	439099.79	39°42'10.6079"N	80°16'45.0526"W	10754.65	351.351	0.47
20795.00	90.340	327.300	8035.92	9843.52	10712.02	-1669.03	1749223.06	439179.46	39°42'11.3908"N	80°16'45.7233"W	10841.27	351.144	0.70
20891.00	90.400	327.610	8035.30	9939.50	10792.95	-1720.67	1749171.42	439260.38	39°42'12.1861"N	80°16'46.3930"W	10929.25	350.942	0.33
20986.00	90.830	327.110	8034.28	10034.48	10872.94	-1771.91	1749120.19	439340.37	39°42'12.9722"N	80°16'47.0574"W	11016.37	350.744	0.69
21081.00	90.550	326.580	8033.14	10129.47	10952.47	-1823.86	1749068.24	439419.89	39°42'13.7537"N	80°16'47.7309"W	11103.29	350.546	0.63
21177.00	90.430	326.420	8032.32	10225.47	11032.52	-1876.85	1749015.26	439499.94	39°42'14.5403"N	80°16'48.4176"W	11191.02	350.345	0.21
21272.00	90.340	325.510	8031.68	10320.46	11111.24	-1930.02	1748962.09	439578.65	39°42'15.3137"N	80°16'49.1067"W	11277.62	350.146	0.96
21367.00	90.250	326.440	8031.19	10415.46	11189.97	-1983.17	1748908.94	439657.38	39°42'16.0872"N	80°16'49.7955"W	11364.35	349.950	0.98
21462.00	90.430	326.710	8030.62	10510.46	11269.26	-2035.50	1748856.61	439736.66	39°42'16.8662"N	80°16'50.4738"W	11451.62	349.761	0.34
21558.00	89.970	326.110	8030.29	10606.46	11349.23	-2088.61	1748803.50	439816.63	39°42'17.6520"N	80°16'51.1622"W	11539.81	349.572	0.79
21653.00	89.780	326.740	8030.50	10701.46	11428.38	-2141.15	1748750.97	439895.77	39°42'18.4296"N	80°16'51.8432"W	11627.23	349.388	0.69
21749.00	90.370	326.200	8030.37	10797.45	11508.40	-2194.18	1748697.95	439975.79	39°42'19.2159"N	80°16'52.5306"W	11715.71	349.206	0.83
21844.00	90.430	325.990	8029.71	10892.45	11587.25	-2247.17	1748644.96	440054.63	39°42'19.9905"N	80°16'53.2173"W	11803.14	349.025	0.23
21940.00	90.280	325.700	8029.11	10988.44	11666.69	-2301.07	1748591.06	440134.07	39°42'20.7710"N	80°16'53.9157"W	11891.45	348.843	0.34
22034.00	90.460	326.260	8028.51	11082.44	11744.60	-2353.66	1748538.48	440211.97	39°42'21.5364"N	80°16'54.5973"W	11978.12	348.668	0.63
22130.00	90.580	326.360	8027.63	11178.44	11824.47	-2406.90	1748485.23	440291.84	39°42'22.3212"N	80°16'55.2874"W	12066.95	348.494	0.16
22225.00	90.370	326.020	8026.85	11273.43	11903.40	-2459.76	1748432.38	440370.77	39°42'23.0966"N	80°16'55.9726"W	12154.89	348.325	0.42
22321.00	89.970	325.200	8026.56	11369.42	11982.62	-2513.99	1748378.16	440449.98	39°42'23.8749"N	80°16'56.6751"W	12243.50	348.151	0.95
22417.00	90.430	325.930	8026.23	11465.41	12061.80	-2568.27	1748323.88	440529.15	39°42'24.6526"N	80°16'57.3785"W	12332.19	347.980	0.90
22512.00	90.400	326.010	8025.54	11560.41	12140.53	-2621.43	1748270.72	440607.88	39°42'25.4261"N	80°16'58.0675"W	12420.32	347.816	0.09
22608.00	90.340	326.580	8024.92	11656.40	12220.39	-2674.70	1748217.45	440687.73	39°42'26.2107"N	80°16'58.7580"W	12509.67	347.654	0.60
22702.00	90.430	326.390	8024.29	11750.40	12298.76	-2726.61	1748165.55	440766.10	39°42'26.9807"N	80°16'59.4308"W	12597.37	347.500	0.22
22798.00	90.550	326.730	8023.47	11846.40	12378.86	-2779.51	1748112.65	440846.20	39°42'27.7678"N	80°17'0.1165"W	12687.08	347.345	0.38
22893.00	90.400	326.220	8022.68	11941.39	12458.06	-2831.97	1748060.19	440925.39	39°42'28.5459"N	80°17'0.7967"W	12775.89	347.193	0.56
22989.00	90.460	326.380	8021.96	12037.39	12537.92	-2885.24	1748006.93	441005.25	39°42'29.3306"N	80°17'1.4871"W	12865.62	347.041	0.18
23084.00	90.620	326.640	8021.06	12132.39	12617.15	-2937.65	1747954.51	441084.47	39°42'30.1090"N	80°17'2.1666"W	12954.62	346.893	0.32

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Actual Wellpath Report

ERP 17H awp Proj: 25637'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 17H
Field	Monongalia	API	47-061-01964-00-00
Facility	ERP Pad	Wellbore	ERP 17H AWB
Slot	17H		

WELLPATH DATA (268 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]
23179.00	90.520	326.690	8020.12	12227.38	12696.51	-2989.86	1747902.31	441163.83	39°42'30.8888"N	80°17'2.8434"W	13043.80	346.749	0.12
23274.00	91.050	326.460	8018.82	12322.37	12775.79	-3042.18	1747849.99	441243.10	39°42'31.6678"N	80°17'3.5218"W	13133.00	346.606	0.61
23370.00	90.710	327.420	8017.34	12418.35	12856.24	-3094.54	1747797.63	441323.55	39°42'32.4583"N	80°17'4.2007"W	13223.43	346.466	1.06
23465.00	90.740	327.340	8016.14	12513.33	12936.25	-3145.75	1747746.43	441403.55	39°42'33.2446"N	80°17'4.8649"W	13313.24	346.332	0.09
23560.00	90.680	326.280	8014.96	12608.32	13015.74	-3197.75	1747694.43	441483.04	39°42'34.0257"N	80°17'5.5391"W	13402.80	346.197	1.12
23655.00	90.800	326.100	8013.74	12703.31	13094.67	-3250.61	1747641.58	441561.96	39°42'34.8011"N	80°17'6.2242"W	13492.10	346.059	0.23
23751.00	90.580	326.470	8012.58	12799.30	13174.52	-3303.89	1747588.30	441641.81	39°42'35.5856"N	80°17'6.9149"W	13582.47	345.922	0.45
23846.00	90.830	326.270	8011.41	12894.30	13253.61	-3356.50	1747535.69	441720.89	39°42'36.3627"N	80°17'7.5969"W	13672.03	345.789	0.34
23942.00	90.620	326.370	8010.20	12990.29	13333.49	-3409.73	1747482.46	441800.77	39°42'37.1475"N	80°17'8.2870"W	13762.57	345.655	0.24
24037.00	90.580	326.330	8009.20	13085.28	13412.57	-3462.37	1747429.83	441879.84	39°42'37.9244"N	80°17'8.9693"W	13852.26	345.525	0.06
24133.00	90.680	326.410	8008.15	13181.28	13492.50	-3515.54	1747376.67	441959.77	39°42'38.7097"N	80°17'9.6585"W	13942.97	345.396	0.13
24228.00	91.020	326.230	8006.74	13276.27	13571.54	-3568.21	1747323.99	442038.81	39°42'39.4863"N	80°17'10.3414"W	14032.78	345.269	0.40
24323.00	90.890	325.980	8005.15	13371.25	13650.39	-3621.18	1747271.03	442117.65	39°42'40.2609"N	80°17'11.0280"W	14122.54	345.143	0.30
24419.00	90.620	325.990	8003.89	13467.24	13729.95	-3674.88	1747217.33	442197.21	39°42'41.0426"N	80°17'11.7240"W	14213.25	345.016	0.28
24514.00	90.770	326.660	8002.74	13562.23	13809.01	-3727.55	1747164.66	442276.25	39°42'41.8192"N	80°17'12.4068"W	14303.26	344.894	0.72
24609.00	90.920	326.470	8001.33	13657.22	13888.28	-3779.89	1747112.33	442355.52	39°42'42.5981"N	80°17'13.0854"W	14393.46	344.775	0.25
24704.00	90.650	326.230	8000.03	13752.21	13967.35	-3832.53	1747059.69	442434.59	39°42'43.3750"N	80°17'13.7678"W	14483.62	344.656	0.38
24799.00	90.620	326.140	7998.98	13847.21	14046.27	-3885.39	1747006.83	442513.51	39°42'44.1504"N	80°17'14.4531"W	14573.75	344.538	0.10
24894.00	90.800	326.280	7997.80	13942.20	14125.22	-3938.23	1746954.00	442592.45	39°42'44.9260"N	80°17'15.1379"W	14663.95	344.421	0.24
24989.00	90.830	326.660	7996.45	14037.19	14204.40	-3990.70	1746901.54	442671.63	39°42'45.7039"N	80°17'15.8182"W	14754.35	344.307	0.40
25085.00	90.830	326.030	7995.06	14133.18	14284.31	-4043.89	1746848.34	442751.53	39°42'46.4889"N	80°17'16.5079"W	14845.69	344.193	0.66
25180.00	89.480	326.340	7994.80	14228.18	14363.23	-4096.76	1746795.48	442830.45	39°42'47.2644"N	80°17'17.1932"W	14936.06	344.081	1.46
25275.00	89.290	326.000	7995.82	14323.17	14442.14	-4149.65	1746742.60	442909.35	39°42'48.0396"N	80°17'17.8788"W	15026.48	343.969	0.41
25370.00	89.320	325.740	7996.98	14418.16	14520.78	-4202.94	1746689.30	442987.98	39°42'48.8121"N	80°17'18.5696"W	15116.80	343.857	0.28
25466.00	89.660	326.030	7997.83	14514.15	14600.25	-4256.78	1746635.47	443067.45	39°42'49.5928"N	80°17'19.2675"W	15208.14	343.746	0.47
25561.00	89.450	326.170	7998.57	14609.15	14679.10	-4309.77	1746582.49	443146.30	39°42'50.3674"N	80°17'19.9543"W	15298.70	343.638	0.27
25612.00	89.320	326.060	7999.12	14660.14	14721.44	-4338.20	1746554.05	443188.63	39°42'50.7833"N	80°17'20.3229"W	15347.33	343.580	0.33
25637.00†	89.320	326.060	7999.41	14685.14	14742.18	-4352.16	1746540.10	443209.37	39°42'50.9871"N	80°17'20.5038"W	15371.17	343.552	0.00

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Actual Wellpath Report

ERP 17H awp Proj: 25637'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 17H
Field	Monongalia	API	47-061-01964-00-00
Facility	ERP Pad	Wellbore	ERP 17H AWB
Slot	17H		

HOLE & CASING SECTIONS - Ref Wellbore: ERP 17H AWB Ref Wellpath: ERP 17H awp Proj: 25637'

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]
5.5in Casing	28.50	25637.00	25608.50	28.50	7999.41	0.00	0.00	14742.18	-4352.16

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
ERP 17H BHL Rev-1	8062.00	14746.07	-4347.70	1746544.56	443213.26	39°42'51.0259"N	80°17'20.4472"W	point
ERP 17H LP Rev-1	8062.00	1852.75	4227.25	1755118.99	430320.73	39°40'44.3378"N	80°15'29.3300"W	point
ERP Hardline #1 (11.26.2024)	9528.50	11454.27	-7551.83	1743340.62	439921.66	39°42'18.2149"N	80°18'1.0717"W	polygon
2D Polygon: dimensions not calculated								
ERP Hardline #2 (11.26.2024)	9528.50	11858.93	-6535.25	1744357.14	440326.29	39°42'22.3032"N	80°17'48.1113"W	polygon
2D Polygon: dimensions not calculated								
ERP Hardline #3 (11.26.2024)	9528.50	11689.54	-6433.03	1744459.35	440156.92	39°42'20.6382"N	80°17'46.7842"W	polygon
2D Polygon: dimensions not calculated								
ERP Hardline #4 (11.26.2024)	9528.50	11509.33	-6521.02	1744371.36	439976.72	39°42'18.8496"N	80°17'47.8896"W	polygon
2D Polygon: dimensions not calculated								
ERP Hardline #5 (11.26.2024)	9528.50	10945.74	-7190.43	1743701.99	439413.16	39°42'13.2212"N	80°17'56.3901"W	polygon
2D Polygon: dimensions not calculated								
ERP Unit Lines NE (11.26.2024)	10028.50	12241.06	-8275.07	1742617.43	440708.40	39°42'25.9265"N	80°18'10.4150"W	polygon
2D Polygon: dimensions not calculated								

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
ERP Unit Lines NW (2.27.2025)	10028.50	12241.06	-8275.07	1742617.43	440708.40	39°42'25.9265"N	80°18'10.4150"W	polygon

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TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
2D Polygon: dimensions not calculated								

WELLPATH COMPOSITION - Ref Wellbore: ERP 17H AWB Ref Wellpath: ERP 17H awp Proj: 25637'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.50	8002.00	OWSG MWD rev2 + HRGM	1 Imported MWD Scientific 357' - 8002'	ERP 17H AWB	4/20/2025
8002.00	10134.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	2 BH MWD ATC HRGM Short spacing 8.5" 8130' - 10134'	ERP 17H AWB	4/20/2025
10134.00	25637.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	3 BH MWD ATC HRGM Short spacing 8.5" 10229' - 25612'	ERP 17H AWB	4/20/2025

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