

08/28/2026



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WV Department of
Environmental Protection

Actual Wellpath Report

ERP 7H AWP PROJ: 30471'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 7H
Field	Monongalia	UWI	47061020120000
Facility	ERP Pad	Wellbore	ERP 7H AWB
Slot	7H		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet [26853]	Software System	WellArchitect® 7.0.1
North Reference	Grid	Report Generated By	Tranlam on 2026-02-16 at 7:04:59 PM
Scale	0.999941	Last Updated	2026-02-16
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	-61.94	-25.53	1750786.43	428376.13	39°40'24.7541"N	80°16'24.5303"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 571 (KB) to Facility Vertical Datum	1363.00ft
Horizontal Reference Pt	Slot	Patterson 571 (KB) to Mean Sea Level	1363.00ft
Vertical Reference Pt	Patterson 571 (KB)	Patterson 571 (KB) to Ground Level at Slot (7H)	25.00ft
MD Reference Pt	Patterson 571 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	326.120°

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WELLPATH DATA (334 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	99.560	0.00	0.00	0.00	0.00	1750786.43	428376.13	39°40'24.7541"N	80°16'24.5303"W	0.00	0.000	0.00
25.00	0.000	99.560	25.00	0.00	0.00	0.00	1750786.43	428376.13	39°40'24.7541"N	80°16'24.5303"W	0.00	0.000	0.00
50.00	0.220	99.560	50.00	-0.03	-0.01	0.05	1750786.48	428376.12	39°40'24.7540"N	80°16'24.5297"W	0.05	99.560	0.88
100.00	0.020	47.890	100.00	-0.10	-0.02	0.15	1750786.58	428376.11	39°40'24.7540"N	80°16'24.5284"W	0.15	96.937	0.42
150.00	0.210	148.410	150.00	-0.19	-0.09	0.20	1750786.63	428376.04	39°40'24.7532"N	80°16'24.5277"W	0.22	113.979	0.43
200.00	0.120	44.760	200.00	-0.27	-0.13	0.29	1750786.72	428376.00	39°40'24.7528"N	80°16'24.5266"W	0.32	114.496	0.53
250.00	0.200	146.980	250.00	-0.35	-0.17	0.37	1750786.80	428375.96	39°40'24.7525"N	80°16'24.5255"W	0.41	114.180	0.51
300.00	0.010	71.170	300.00	-0.43	-0.24	0.42	1750786.85	428375.89	39°40'24.7518"N	80°16'24.5248"W	0.49	119.403	0.40
350.00	0.230	171.020	350.00	-0.53	-0.34	0.44	1750786.87	428375.79	39°40'24.7508"N	80°16'24.5246"W	0.56	127.185	0.46
400.00	0.090	215.210	400.00	-0.63	-0.47	0.44	1750786.87	428375.66	39°40'24.7495"N	80°16'24.5247"W	0.64	136.969	0.35
450.00	0.280	195.900	450.00	-0.72	-0.62	0.38	1750786.81	428375.51	39°40'24.7480"N	80°16'24.5254"W	0.73	148.347	0.39
500.00	0.110	247.070	500.00	-0.79	-0.75	0.30	1750786.73	428375.38	39°40'24.7467"N	80°16'24.5263"W	0.81	158.100	0.46
550.00	0.320	224.410	550.00	-0.81	-0.87	0.16	1750786.59	428375.26	39°40'24.7455"N	80°16'24.5281"W	0.89	169.538	0.45
600.00	0.160	134.770	600.00	-0.91	-1.02	0.11	1750786.54	428375.11	39°40'24.7440"N	80°16'24.5287"W	1.03	173.691	0.71
650.00	0.160	260.370	650.00	-0.95	-1.08	0.09	1750786.52	428375.05	39°40'24.7434"N	80°16'24.5290"W	1.09	175.054	0.57
700.00	0.190	216.750	700.00	-0.95	-1.16	-0.02	1750786.41	428374.97	39°40'24.7427"N	80°16'24.5305"W	1.16	181.226	0.27
750.00	0.080	33.590	750.00	-0.96	-1.20	-0.06	1750786.37	428374.93	39°40'24.7423"N	80°16'24.5309"W	1.20	182.635	0.54
800.00	0.140	267.620	800.00	-0.92	-1.17	-0.10	1750786.33	428374.96	39°40'24.7425"N	80°16'24.5314"W	1.17	184.728	0.40
850.00	0.160	185.580	850.00	-0.94	-1.24	-0.16	1750786.27	428374.89	39°40'24.7418"N	80°16'24.5323"W	1.25	187.547	0.39
900.00	0.100	37.930	900.00	-0.98	-1.28	-0.14	1750786.29	428374.85	39°40'24.7415"N	80°16'24.5320"W	1.29	186.457	0.50
950.00	0.240	324.610	950.00	-0.86	-1.16	-0.18	1750786.25	428374.97	39°40'24.7427"N	80°16'24.5324"W	1.17	188.760	0.46
1000.00	0.170	280.460	1000.00	-0.71	-1.06	-0.31	1750786.12	428375.07	39°40'24.7436"N	80°16'24.5342"W	1.10	196.415	0.33
1050.00	0.120	358.470	1050.00	-0.61	-0.99	-0.39	1750786.04	428375.14	39°40'24.7443"N	80°16'24.5351"W	1.07	201.254	0.37
1100.00	0.190	333.590	1100.00	-0.48	-0.87	-0.42	1750786.01	428375.26	39°40'24.7455"N	80°16'24.5356"W	0.97	206.101	0.19
1150.00	0.190	300.580	1150.00	-0.33	-0.75	-0.53	1750785.90	428375.38	39°40'24.7467"N	80°16'24.5370"W	0.92	215.382	0.22
1190.00	0.130	332.940	1190.00	-0.22	-0.68	-0.61	1750785.82	428375.45	39°40'24.7474"N	80°16'24.5380"W	0.91	222.084	0.27
1383.00	0.130	50.930	1383.00	0.02	-0.34	-0.54	1750785.89	428375.79	39°40'24.7507"N	80°16'24.5372"W	0.64	237.573	0.08
1414.00	0.200	53.860	1414.00	0.02	-0.29	-0.47	1750785.96	428375.84	39°40'24.7512"N	80°16'24.5363"W	0.55	238.360	0.23
1508.00	0.190	105.890	1507.99	-0.09	-0.24	-0.19	1750786.24	428375.89	39°40'24.7518"N	80°16'24.5327"W	0.30	218.484	0.18

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WELLPATH DATA (334 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]
1601.00	0.190	135.600	1600.99	-0.36	-0.39	0.07	1750786.50	428375.74	39°40'24.7503"N	80°16'24.5294"W	0.39	169.854	0.10
1694.00	0.320	153.610	1693.99	-0.77	-0.73	0.29	1750786.72	428375.40	39°40'24.7469"N	80°16'24.5265"W	0.79	158.161	0.16
1788.00	0.640	166.590	1787.99	-1.52	-1.48	0.53	1750786.96	428374.65	39°40'24.7396"N	80°16'24.5233"W	1.57	160.212	0.36
1881.00	1.070	166.490	1880.98	-2.82	-2.83	0.85	1750787.28	428373.30	39°40'24.7263"N	80°16'24.5191"W	2.95	163.176	0.46
1975.00	0.430	198.410	1974.97	-3.86	-4.01	0.95	1750787.38	428372.12	39°40'24.7145"N	80°16'24.5177"W	4.12	166.710	0.79
2068.00	0.770	293.710	2067.97	-3.55	-4.09	0.27	1750786.70	428372.04	39°40'24.7137"N	80°16'24.5264"W	4.10	176.287	0.98
2162.00	1.310	305.420	2161.95	-2.01	-3.22	-1.19	1750785.24	428372.91	39°40'24.7222"N	80°16'24.5451"W	3.43	200.274	0.61
2255.00	1.460	309.690	2254.92	0.12	-1.84	-2.97	1750783.46	428374.29	39°40'24.7356"N	80°16'24.5680"W	3.49	238.132	0.20
2348.00	0.890	285.460	2347.91	1.81	-0.89	-4.57	1750781.86	428375.24	39°40'24.7449"N	80°16'24.5887"W	4.66	258.931	0.80
2442.00	1.080	232.760	2441.89	2.31	-1.24	-5.98	1750780.45	428374.89	39°40'24.7414"N	80°16'24.6067"W	6.11	258.325	0.95
2536.00	1.730	216.340	2535.87	1.78	-2.92	-7.53	1750778.90	428373.21	39°40'24.7247"N	80°16'24.6263"W	8.07	248.833	0.81
2612.00	2.640	211.660	2611.81	0.66	-5.33	-9.13	1750777.30	428370.80	39°40'24.7007"N	80°16'24.6464"W	10.57	239.721	1.22
2669.00	3.760	211.100	2668.72	-0.67	-8.05	-10.78	1750775.65	428368.08	39°40'24.6737"N	80°16'24.6673"W	13.45	233.265	1.97
2763.00	5.190	233.590	2762.44	-2.16	-13.21	-15.80	1750770.63	428362.92	39°40'24.6222"N	80°16'24.7308"W	20.59	230.094	2.38
2856.00	5.790	231.240	2855.01	-2.75	-18.64	-22.84	1750763.59	428357.49	39°40'24.5679"N	80°16'24.8203"W	29.48	230.775	0.69
2950.00	4.900	245.140	2948.60	-2.52	-23.30	-30.18	1750756.25	428352.83	39°40'24.5213"N	80°16'24.9137"W	38.13	232.330	1.66

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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]
3043.00	5.060	244.650	3041.25	-1.29	-26.73	-37.49	1750748.94	428349.41	39°40'24.4868"N	80°16'25.0068"W	46.04	234.515	0.18
3137.00	5.690	258.050	3134.84	1.07	-29.47	-45.80	1750740.64	428346.67	39°40'24.4590"N	80°16'25.1127"W	54.46	237.242	1.49
3231.00	8.350	256.460	3228.13	5.18	-32.03	-56.99	1750729.44	428344.10	39°40'24.4327"N	80°16'25.2556"W	65.38	240.664	2.84
3325.00	9.520	249.030	3320.99	9.29	-36.41	-70.89	1750715.55	428339.72	39°40'24.3883"N	80°16'25.4328"W	79.69	242.814	1.75
3419.00	14.070	241.800	3412.99	12.16	-44.60	-88.23	1750698.21	428331.54	39°40'24.3059"N	80°16'25.6536"W	98.86	243.185	5.08
3512.00	16.250	237.520	3502.75	13.60	-56.93	-109.17	1750677.27	428319.21	39°40'24.1822"N	80°16'25.9201"W	123.12	242.460	2.63
3605.00	18.690	233.870	3591.45	13.33	-72.70	-132.18	1750654.25	428303.43	39°40'24.0244"N	80°16'26.2127"W	150.86	241.189	2.87
3699.00	19.150	234.560	3680.38	12.32	-90.52	-156.91	1750629.53	428285.61	39°40'23.8462"N	80°16'26.5270"W	181.15	240.019	0.54
3792.00	21.120	234.960	3767.69	11.56	-108.99	-183.06	1750603.38	428267.15	39°40'23.6614"N	80°16'26.8593"W	213.05	239.231	2.12
3886.00	23.440	237.970	3854.67	11.82	-128.63	-212.78	1750573.66	428247.50	39°40'23.4648"N	80°16'27.2372"W	248.64	238.846	2.75
3979.00	27.700	241.840	3938.54	14.58	-148.65	-247.54	1750538.91	428227.48	39°40'23.2640"N	80°16'27.6795"W	288.74	239.014	4.92
4073.00	26.570	238.190	4022.20	17.51	-170.05	-284.67	1750501.78	428206.09	39°40'23.0494"N	80°16'28.1520"W	331.59	239.148	2.14
4166.00	26.050	239.470	4105.57	19.46	-191.39	-319.93	1750466.52	428184.76	39°40'22.8355"N	80°16'28.6006"W	372.81	239.112	0.83
4259.00	23.960	240.710	4189.85	22.16	-211.00	-353.99	1750432.46	428165.14	39°40'22.6388"N	80°16'29.0341"W	412.11	239.203	2.32
4353.00	24.630	240.020	4275.52	25.02	-230.13	-387.61	1750398.85	428146.02	39°40'22.4469"N	80°16'29.4618"W	450.78	239.302	0.77
4447.00	25.040	241.290	4360.83	28.15	-249.47	-422.02	1750364.43	428126.68	39°40'22.2528"N	80°16'29.8998"W	490.24	239.411	0.72
4540.00	25.650	242.190	4444.88	32.05	-268.32	-457.09	1750329.37	428107.83	39°40'22.0636"N	80°16'30.3461"W	530.02	239.587	0.78
4633.00	26.110	244.340	4528.55	37.10	-286.57	-493.34	1750293.12	428089.58	39°40'21.8801"N	80°16'30.8077"W	570.53	239.849	1.12
4726.00	27.120	241.850	4611.70	42.15	-305.43	-530.48	1750255.98	428070.72	39°40'21.6905"N	80°16'31.2806"W	612.12	240.068	1.62
4819.00	26.690	236.620	4694.65	44.45	-326.93	-566.61	1750219.85	428049.22	39°40'21.4750"N	80°16'31.7403"W	654.17	240.016	2.59
4913.00	25.780	236.100	4778.96	44.62	-349.94	-601.21	1750185.26	428026.21	39°40'21.2446"N	80°16'32.1802"W	695.64	239.798	1.00
5008.00	25.280	233.920	4864.69	43.84	-373.41	-634.75	1750151.72	428002.74	39°40'21.0098"N	80°16'32.6065"W	736.44	239.533	1.12
5102.00	26.030	231.420	4949.42	41.38	-398.10	-667.10	1750119.37	427978.06	39°40'20.7631"N	80°16'33.0175"W	776.85	239.173	1.40
5195.00	24.800	243.660	5033.48	42.26	-419.49	-700.55	1750085.92	427956.67	39°40'20.5488"N	80°16'33.4430"W	816.55	239.087	5.79
5288.00	23.180	248.750	5118.45	48.83	-434.78	-735.10	1750051.38	427941.38	39°40'20.3947"N	80°16'33.8830"W	854.05	239.397	2.82
5382.00	21.010	243.570	5205.55	55.06	-448.99	-767.44	1750019.04	427927.17	39°40'20.2516"N	80°16'34.2950"W	889.13	239.670	3.10
5475.00	23.820	242.670	5291.52	59.36	-465.04	-799.06	1749987.42	427911.12	39°40'20.0903"N	80°16'34.6976"W	924.53	239.801	3.04
5568.00	24.590	244.520	5376.34	64.33	-481.98	-833.21	1749953.27	427894.18	39°40'19.9199"N	80°16'35.1325"W	962.57	239.952	1.16
5662.00	24.830	242.830	5461.74	69.49	-499.41	-868.42	1749918.06	427876.75	39°40'19.7447"N	80°16'35.5809"W	1001.78	240.098	0.79

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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]
5756.00	25.750	240.910	5546.73	73.51	-518.35	-903.83	1749882.66	427857.81	39°40'19.5545"N	80°16'36.0315"W	1041.92	240.166	1.31
5849.00	26.450	243.890	5630.25	77.99	-537.29	-940.08	1749846.41	427838.88	39°40'19.3642"N	80°16'36.4931"W	1082.79	240.251	1.60
5942.00	25.120	241.030	5713.99	82.48	-555.96	-975.95	1749810.54	427820.20	39°40'19.1766"N	80°16'36.9497"W	1123.20	240.331	1.96
6036.00	24.330	243.370	5799.37	86.64	-574.31	-1010.72	1749775.77	427801.86	39°40'18.9923"N	80°16'37.3923"W	1162.49	240.394	1.34
6129.00	22.850	242.790	5884.60	91.15	-591.15	-1043.90	1749742.59	427785.01	39°40'18.8230"N	80°16'37.8148"W	1199.67	240.478	1.61
6222.00	24.020	241.380	5969.93	94.98	-608.48	-1076.58	1749709.92	427767.69	39°40'18.6490"N	80°16'38.2308"W	1236.64	240.525	1.40
6316.00	22.500	239.240	6056.29	97.72	-626.84	-1108.83	1749677.67	427749.33	39°40'18.4648"N	80°16'38.6412"W	1273.75	240.520	1.85
6411.00	22.660	238.260	6144.00	99.39	-645.77	-1140.02	1749646.48	427730.40	39°40'18.2751"N	80°16'39.0379"W	1310.21	240.470	0.43
6505.00	21.930	238.110	6230.98	100.67	-664.56	-1170.32	1749616.18	427711.61	39°40'18.0867"N	80°16'39.4233"W	1345.84	240.410	0.78
6598.00	22.990	236.790	6316.92	101.49	-683.69	-1200.26	1749586.24	427692.48	39°40'17.8952"N	80°16'39.8041"W	1381.32	240.333	1.26
6691.00	23.620	236.450	6402.33	101.81	-703.93	-1230.98	1749555.52	427672.24	39°40'17.6925"N	80°16'40.1947"W	1418.04	240.237	0.69
6785.00	23.620	234.460	6488.46	101.37	-725.28	-1262.00	1749524.51	427650.89	39°40'17.4788"N	80°16'40.5890"W	1455.57	240.114	0.85
6878.00	22.140	235.150	6574.14	100.54	-746.13	-1291.54	1749494.96	427630.05	39°40'17.2703"N	80°16'40.9645"W	1491.58	239.985	1.62
6942.00	19.510	231.610	6633.96	99.49	-759.66	-1309.82	1749476.69	427616.52	39°40'17.1350"N	80°16'41.1967"W	1514.17	239.887	4.55
7037.00	21.580	234.530	6722.91	97.76	-779.65	-1336.49	1749450.02	427596.52	39°40'16.9351"N	80°16'41.5355"W	1547.27	239.742	2.43
7132.00	23.840	237.110	6810.54	97.61	-800.22	-1366.84	1749419.67	427575.96	39°40'16.7293"N	80°16'41.9214"W	1583.86	239.653	2.60

23-08-39



Actual Wellpath Report

ERP 7H AWP PROJ: 30471'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 7H
Field	Monongalia	UWI	47061020120000
Facility	ERP Pad	Wellbore	ERP 7H AWB
Slot	7H		

WELLPATH DATA (334 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]
7226.00	25.250	240.770	6896.05	99.56	-820.33	-1400.29	1749386.22	427555.85	39°40'16.5277"N	80°16'42.3470"W	1622.89	239.637	2.21
7321.00	27.410	244.560	6981.20	104.41	-839.62	-1437.73	1749348.79	427536.56	39°40'16.3338"N	80°16'42.8236"W	1664.94	239.716	2.88
7416.00	26.800	251.460	7065.78	113.29	-855.83	-1477.79	1749308.73	427520.36	39°40'16.1702"N	80°16'43.3341"W	1707.72	239.924	3.37
7514.00	27.350	251.520	7153.04	125.11	-869.99	-1520.09	1749266.43	427506.20	39°40'16.0267"N	80°16'43.8734"W	1751.44	240.216	0.56
7609.00	27.360	251.240	7237.42	136.60	-883.92	-1561.46	1749225.07	427492.26	39°40'15.8854"N	80°16'44.4009"W	1794.29	240.486	0.14
7704.00	27.450	251.060	7321.76	147.94	-898.05	-1602.84	1749183.69	427478.13	39°40'15.7422"N	80°16'44.9285"W	1837.28	240.739	0.13
7799.00	26.750	252.000	7406.33	159.44	-911.77	-1643.88	1749142.65	427464.42	39°40'15.6032"N	80°16'45.4519"W	1879.80	240.985	0.86
7892.00	28.450	263.900	7488.81	175.50	-920.59	-1685.85	1749100.68	427455.59	39°40'15.5123"N	80°16'45.9876"W	1920.83	241.362	6.19
7987.00	32.970	273.920	7570.52	201.92	-921.23	-1734.20	1749052.34	427454.95	39°40'15.5019"N	80°16'46.6057"W	1963.70	242.022	7.17
8081.00	37.340	281.030	7647.38	237.76	-914.02	-1787.74	1748998.80	427462.16	39°40'15.5685"N	80°16'47.2913"W	2007.85	242.921	6.36
8176.00	41.540	289.650	7720.79	283.48	-897.90	-1845.76	1748940.79	427478.28	39°40'15.7229"N	80°16'48.0350"W	2052.57	244.059	7.26
8270.00	46.840	300.360	7788.26	339.54	-870.03	-1904.82	1748881.73	427506.15	39°40'15.9932"N	80°16'48.7933"W	2094.11	245.451	9.73
8365.00	54.030	304.160	7848.75	406.51	-830.87	-1966.62	1748819.93	427545.31	39°40'16.3749"N	80°16'49.5880"W	2134.93	247.097	8.17
8460.00	61.830	307.700	7899.16	482.02	-783.60	-2031.68	1748754.88	427592.58	39°40'16.8365"N	80°16'50.4252"W	2177.55	248.909	8.79
8555.00	67.320	313.270	7939.96	564.60	-727.87	-2096.81	1748689.75	427648.30	39°40'17.3817"N	80°16'51.2644"W	2219.55	250.856	7.84
8650.00	74.190	319.570	7971.28	652.91	-662.90	-2158.49	1748628.07	427713.27	39°40'18.0184"N	80°16'52.0604"W	2257.99	252.928	9.56
8745.00	81.500	324.110	7991.28	745.44	-589.92	-2215.78	1748570.79	427786.24	39°40'18.7347"N	80°16'52.8011"W	2292.96	255.092	9.00
8840.00	87.880	328.630	8000.07	839.96	-511.21	-2268.11	1748518.46	427864.95	39°40'19.5081"N	80°16'53.4790"W	2325.01	257.298	8.22
8935.00	88.980	329.020	8002.67	934.82	-429.96	-2317.27	1748469.30	427946.19	39°40'20.3068"N	80°16'54.1167"W	2356.82	259.488	1.23
9030.00	89.940	328.730	8003.57	1029.70	-348.64	-2366.37	1748420.20	428027.51	39°40'21.1062"N	80°16'54.7537"W	2391.92	261.619	1.06
9219.00	91.390	326.440	8001.38	1218.61	-189.12	-2467.67	1748318.91	428187.02	39°40'22.6740"N	80°16'56.0669"W	2474.90	265.618	1.43
9314.00	90.220	326.600	8000.04	1313.59	-109.89	-2520.07	1748266.52	428266.25	39°40'23.4525"N	80°16'56.7458"W	2522.46	267.503	1.24
9409.00	90.150	326.560	7999.73	1408.59	-30.60	-2572.39	1748214.20	428345.54	39°40'24.2316"N	80°16'57.4238"W	2572.57	269.319	0.08
9503.00	90.370	327.030	7999.31	1502.58	48.05	-2623.87	1748162.72	428424.18	39°40'25.0044"N	80°16'58.0908"W	2624.31	271.049	0.55
9598.00	90.340	327.030	7998.72	1597.57	127.75	-2675.56	1748111.03	428503.88	39°40'25.7876"N	80°16'58.7609"W	2678.61	272.734	0.03
9693.00	90.370	326.630	7998.13	1692.56	207.27	-2727.54	1748059.06	428583.39	39°40'26.5689"N	80°16'59.4344"W	2735.40	274.346	0.42
9788.00	90.250	325.890	7997.62	1787.56	286.27	-2780.30	1748006.29	428662.38	39°40'27.3451"N	80°17'0.1180"W	2795.00	275.879	0.79
9882.00	90.280	325.900	7997.18	1881.56	364.10	-2833.01	1747953.59	428740.21	39°40'28.1097"N	80°17'0.8007"W	2856.31	277.324	0.03
9977.00	90.310	326.160	7996.69	1976.55	442.89	-2886.09	1747900.51	428818.99	39°40'28.8837"N	80°17'1.4884"W	2919.88	278.724	0.28

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WELLPATH DATA (334 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]
10072.00	90.310	325.970	7996.18	2071.55	521.70	-2939.13	1747847.48	428897.80	39°40'29.6581"N	80°17'2.1754"W	2985.07	280.065	0.20
10167.00	90.280	325.880	7995.69	2166.55	600.39	-2992.35	1747794.26	428976.48	39°40'30.4311"N	80°17'2.8649"W	3051.99	281.345	0.10
10262.00	90.340	326.060	7995.18	2261.55	679.12	-3045.51	1747741.10	429055.21	39°40'31.2046"N	80°17'3.5535"W	3120.31	282.571	0.20
10357.00	90.280	326.130	7994.66	2356.55	757.97	-3098.51	1747688.11	429134.05	39°40'31.9792"N	80°17'4.2400"W	3189.87	283.746	0.10
10451.00	90.430	325.800	7994.08	2450.55	835.86	-3151.12	1747635.50	429211.94	39°40'32.7445"N	80°17'4.9216"W	3260.09	284.856	0.39
10546.00	90.830	326.060	7993.03	2545.54	914.55	-3204.33	1747582.29	429290.62	39°40'33.5175"N	80°17'5.6109"W	3332.29	285.929	0.50
10641.00	90.280	326.490	7992.11	2640.53	993.56	-3257.08	1747529.55	429369.63	39°40'34.2938"N	80°17'6.2943"W	3405.25	286.964	0.73
10736.00	90.000	325.870	7991.88	2735.53	1072.48	-3309.95	1747476.68	429448.55	39°40'35.0692"N	80°17'6.9793"W	3479.37	287.953	0.72
10830.00	90.090	326.080	7991.81	2829.53	1150.39	-3362.55	1747424.09	429526.45	39°40'35.8345"N	80°17'7.6607"W	3553.89	288.887	0.24
11020.00	90.250	325.820	7991.24	3019.53	1307.81	-3468.93	1747317.71	429683.86	39°40'37.3811"N	80°17'9.0389"W	3707.27	290.657	0.16
11114.00	90.120	326.100	7990.94	3113.53	1385.71	-3521.55	1747265.09	429761.75	39°40'38.1463"N	80°17'9.7205"W	3784.38	291.479	0.33
11209.00	89.750	325.870	7991.05	3208.53	1464.45	-3574.69	1747211.95	429840.49	39°40'38.9199"N	80°17'10.4090"W	3863.04	292.278	0.46
11304.00	89.690	324.800	7991.51	3303.52	1542.58	-3628.73	1747157.92	429918.62	39°40'39.6874"N	80°17'11.1088"W	3943.00	293.031	1.13
11399.00	89.780	325.660	7991.95	3398.50	1620.62	-3682.90	1747103.75	429996.65	39°40'40.4539"N	80°17'11.8104"W	4023.70	293.751	0.91
11494.00	89.970	325.870	7992.16	3493.50	1699.16	-3736.35	1747050.31	430075.19	39°40'41.2254"N	80°17'12.5027"W	4104.56	294.454	0.30
11588.00	90.030	325.980	7992.16	3587.50	1777.02	-3789.01	1746997.65	430153.04	39°40'41.9903"N	80°17'13.1850"W	4185.02	295.126	0.13

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Actual Wellpath Report

ERP 7H AWP PROJ: 30471'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 7H
Field	Monongalia	UWI	47061020120000
Facility	ERP Pad	Wellbore	ERP 7H AWB
Slot	7H		

WELLPATH DATA (334 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]
11683.00	89.970	325.910	7992.16	3682.50	1855.73	-3842.21	1746944.45	430231.75	39°40'42.7635"N	80°17'13.8742"W	4266.89	295.780	0.10
11778.00	89.910	325.570	7992.26	3777.50	1934.25	-3895.69	1746890.97	430310.26	39°40'43.5348"N	80°17'14.5670"W	4349.45	296.405	0.36
11873.00	90.000	325.750	7992.33	3872.50	2012.69	-3949.28	1746837.39	430388.69	39°40'44.3054"N	80°17'15.2611"W	4432.58	297.005	0.21
11967.00	89.940	325.770	7992.38	3966.49	2090.40	-4002.17	1746784.50	430466.40	39°40'45.0688"N	80°17'15.9463"W	4515.21	297.579	0.07
12063.00	90.000	325.870	7992.43	4062.49	2169.81	-4056.11	1746730.57	430545.81	39°40'45.8490"N	80°17'16.6450"W	4600.01	298.145	0.12
12158.00	90.400	325.790	7992.10	4157.49	2248.41	-4109.46	1746677.22	430624.41	39°40'46.6211"N	80°17'17.3362"W	4684.34	298.684	0.43
12253.00	90.400	325.990	7991.44	4252.49	2327.07	-4162.73	1746623.95	430703.06	39°40'47.3938"N	80°17'18.0264"W	4769.03	299.206	0.21
12347.00	90.280	325.920	7990.88	4346.49	2404.96	-4215.36	1746571.33	430780.94	39°40'48.1589"N	80°17'18.7082"W	4853.15	299.706	0.15
12442.00	90.060	324.520	7990.60	4441.47	2482.98	-4269.55	1746517.14	430858.96	39°40'48.9253"N	80°17'19.4100"W	4939.05	300.180	1.49
12536.00	90.030	325.430	7990.52	4535.45	2559.96	-4323.50	1746463.20	430935.93	39°40'49.6813"N	80°17'20.1086"W	5024.54	300.630	0.97
12630.00	90.250	326.000	7990.30	4629.45	2637.62	-4376.45	1746410.25	431013.59	39°40'50.4443"N	80°17'20.7946"W	5109.83	301.077	0.65
12725.00	90.180	325.970	7989.94	4724.45	2716.37	-4429.59	1746357.11	431092.33	39°40'51.2179"N	80°17'21.4831"W	5196.15	301.518	0.08
12819.00	90.150	325.780	7989.67	4818.45	2794.18	-4482.33	1746304.38	431170.14	39°40'51.9823"N	80°17'22.1663"W	5281.92	301.939	0.20
12915.00	90.000	325.390	7989.54	4914.44	2873.38	-4536.58	1746250.12	431249.33	39°40'52.7602"N	80°17'22.8692"W	5370.00	302.349	0.44
13009.00	90.340	326.180	7989.26	5008.44	2951.11	-4589.44	1746197.27	431327.06	39°40'53.5238"N	80°17'23.5539"W	5456.37	302.742	0.91
13104.00	89.970	325.450	7989.01	5103.44	3029.70	-4642.81	1746143.90	431405.64	39°40'54.2958"N	80°17'24.2454"W	5543.90	303.127	0.86
13198.00	90.220	325.990	7988.85	5197.43	3107.37	-4695.76	1746090.96	431483.31	39°40'55.0588"N	80°17'24.9313"W	5630.80	303.494	0.63
13293.00	90.430	326.130	7988.31	5292.43	3186.18	-4748.80	1746037.92	431562.12	39°40'55.8330"N	80°17'25.6186"W	5718.64	303.859	0.27
13388.00	90.120	325.730	7987.86	5387.43	3264.87	-4802.02	1745984.71	431640.80	39°40'56.6061"N	80°17'26.3081"W	5806.79	304.212	0.53
13483.00	90.280	325.790	7987.52	5482.43	3343.41	-4855.47	1745931.26	431719.33	39°40'57.3775"N	80°17'27.0006"W	5895.25	304.551	0.18
13578.00	90.310	325.750	7987.03	5577.42	3421.95	-4908.91	1745877.82	431797.87	39°40'58.1491"N	80°17'27.6929"W	5983.91	304.880	0.05
13673.00	90.150	325.730	7986.65	5672.42	3500.47	-4962.39	1745824.34	431876.38	39°40'58.9204"N	80°17'28.3858"W	6072.77	305.199	0.17
13767.00	90.150	325.770	7986.41	5766.42	3578.17	-5015.29	1745771.44	431954.08	39°40'59.6836"N	80°17'29.0712"W	6160.88	305.506	0.04
13862.00	90.340	326.300	7986.00	5861.42	3656.96	-5068.37	1745718.37	432032.86	39°41'0.4577"N	80°17'29.7589"W	6249.93	305.811	0.59
13957.00	90.060	325.770	7985.67	5956.42	3735.75	-5121.44	1745665.30	432111.65	39°41'1.2317"N	80°17'30.4466"W	6339.16	306.108	0.63
14051.00	90.180	326.330	7985.47	6050.42	3813.72	-5173.94	1745612.81	432189.62	39°41'1.9977"N	80°17'31.1269"W	6427.60	306.394	0.61
14146.00	90.280	326.330	7985.09	6145.41	3892.78	-5226.60	1745560.14	432268.68	39°41'2.7744"N	80°17'31.8094"W	6516.99	306.679	0.11
14240.00	90.000	324.590	7984.86	6239.40	3970.21	-5279.90	1745506.85	432346.10	39°41'3.5350"N	80°17'32.4998"W	6606.05	306.941	1.87
14335.00	90.250	325.870	7984.65	6334.39	4048.25	-5334.07	1745452.68	432424.13	39°41'4.3014"N	80°17'33.2015"W	6696.32	307.196	1.37

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WELLPATH DATA (334 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]
14430.00	90.250	326.140	7984.24	6429.39	4127.01	-5387.19	1745399.57	432502.89	39°41'5.0752"N	80°17'33.8898"W	6786.31	307.455	0.28
14525.00	90.120	325.650	7983.93	6524.39	4205.67	-5440.46	1745346.30	432581.54	39°41'5.8479"N	80°17'34.5800"W	6876.50	307.705	0.53
14620.00	90.400	325.840	7983.50	6619.38	4284.19	-5493.93	1745292.83	432660.06	39°41'6.6192"N	80°17'35.2728"W	6966.89	307.947	0.36
14714.00	90.400	326.080	7982.85	6713.38	4362.08	-5546.55	1745240.22	432737.94	39°41'7.3843"N	80°17'35.9546"W	7056.34	308.183	0.26
14808.00	90.430	325.960	7982.17	6807.38	4440.03	-5599.08	1745187.69	432815.89	39°41'8.1501"N	80°17'36.6354"W	7145.88	308.414	0.13
14903.00	90.430	325.840	7981.45	6902.38	4518.69	-5652.34	1745134.43	432894.54	39°41'8.9228"N	80°17'37.3255"W	7236.54	308.640	0.13
14998.00	90.550	325.970	7980.64	6997.37	4597.36	-5705.59	1745081.18	432973.21	39°41'9.6956"N	80°17'38.0155"W	7327.31	308.861	0.19
15093.00	90.280	327.010	7979.95	7092.37	4676.56	-5758.04	1745028.74	433052.41	39°41'10.4738"N	80°17'38.6953"W	7417.90	309.083	1.13
15188.00	90.490	327.100	7979.31	7187.35	4756.29	-5809.70	1744977.08	433132.13	39°41'11.2571"N	80°17'39.3651"W	7508.32	309.306	0.24
15282.00	90.920	327.490	7978.16	7281.32	4835.38	-5860.49	1744926.30	433211.21	39°41'12.0343"N	80°17'40.0237"W	7597.77	309.525	0.62
15377.00	90.620	326.590	7976.88	7376.30	4915.08	-5912.17	1744874.62	433290.91	39°41'12.8174"N	80°17'40.6937"W	7688.41	309.738	1.00
15472.00	90.550	324.490	7975.91	7471.29	4993.40	-5965.92	1744820.88	433369.22	39°41'13.5867"N	80°17'41.3900"W	7779.86	309.929	2.21
15566.00	90.400	327.130	7975.13	7565.27	5071.14	-6018.73	1744768.06	433446.97	39°41'14.3504"N	80°17'42.0744"W	7870.30	310.116	2.81
15661.00	90.280	327.290	7974.57	7660.25	5151.01	-6070.18	1744716.62	433526.82	39°41'15.1351"N	80°17'42.7415"W	7961.15	310.317	0.21
15756.00	90.710	327.750	7973.75	7755.22	5231.14	-6121.19	1744665.61	433606.95	39°41'15.9226"N	80°17'43.4031"W	8051.95	310.517	0.66
15850.00	90.370	327.410	7972.86	7849.19	5310.49	-6171.59	1744615.22	433686.29	39°41'16.7023"N	80°17'44.0567"W	8141.85	310.711	0.51

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Actual Wellpath Report

ERP 7H AWP PROJ: 30471'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 7H
Field	Monongalia	UWI	47061020120000
Facility	ERP Pad	Wellbore	ERP 7H AWB
Slot	7H		

WELLPATH DATA (334 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]
15945.00	90.000	327.250	7972.55	7944.17	5390.46	-6222.87	1744563.94	433766.26	39°41'17.4881"N	80°17'44.7217"W	8232.93	310.900	0.42
16039.00	90.060	327.030	7972.50	8038.15	5469.42	-6273.87	1744512.94	433845.21	39°41'18.2640"N	80°17'45.3830"W	8323.22	311.081	0.24
16134.00	90.000	327.010	7972.45	8133.14	5549.11	-6325.58	1744461.23	433924.90	39°41'19.0470"N	80°17'46.0535"W	8414.61	311.259	0.07
16228.00	90.180	326.940	7972.31	8227.13	5627.92	-6376.81	1744410.01	434003.71	39°41'19.8214"N	80°17'46.7177"W	8505.13	311.430	0.21
16322.00	90.280	327.530	7971.93	8321.11	5706.97	-6427.68	1744359.14	434082.75	39°41'20.5981"N	80°17'47.3774"W	8595.61	311.601	0.64
16418.00	90.370	327.010	7971.38	8417.09	5787.72	-6479.59	1744307.24	434163.50	39°41'21.3916"N	80°17'48.0505"W	8688.08	311.772	0.55
16512.00	90.180	327.170	7970.93	8511.07	5866.64	-6530.66	1744256.17	434242.41	39°41'22.1670"N	80°17'48.7127"W	8778.78	311.934	0.26
16607.00	90.310	326.930	7970.53	8606.06	5946.35	-6582.33	1744204.50	434322.12	39°41'22.9503"N	80°17'49.3827"W	8870.52	312.094	0.29
16702.00	90.490	325.770	7969.86	8701.05	6025.43	-6634.97	1744151.86	434401.19	39°41'23.7271"N	80°17'50.0650"W	8962.63	312.244	1.24
16891.00	90.580	325.960	7968.10	8890.04	6181.86	-6741.02	1744045.82	434557.62	39°41'25.2638"N	80°17'51.4393"W	9146.41	312.522	0.11
16985.00	90.460	325.990	7967.25	8984.04	6259.77	-6793.62	1743993.23	434635.52	39°41'26.0290"N	80°17'52.1210"W	9237.85	312.658	0.13
17080.00	90.460	323.970	7966.48	9079.01	6337.56	-6848.13	1743938.72	434713.30	39°41'26.7930"N	80°17'52.8271"W	9330.68	312.783	2.13
17175.00	90.220	325.960	7965.92	9173.99	6415.34	-6902.66	1743884.19	434791.08	39°41'27.5569"N	80°17'53.5335"W	9423.55	312.904	2.11
17270.00	90.180	326.400	7965.59	9268.99	6494.27	-6955.54	1743831.32	434870.00	39°41'28.3322"N	80°17'54.2189"W	9516.04	313.036	0.47
17364.00	90.180	326.540	7965.29	9362.98	6572.62	-7007.46	1743779.40	434948.35	39°41'29.1020"N	80°17'54.8920"W	9607.49	313.166	0.15
17459.00	90.460	326.660	7964.76	9457.98	6651.93	-7059.76	1743727.10	435027.66	39°41'29.8812"N	80°17'55.5699"W	9699.92	313.296	0.32
17553.00	89.630	326.030	7964.69	9551.98	6730.18	-7111.85	1743675.01	435105.90	39°41'30.6499"N	80°17'56.2452"W	9791.51	313.421	1.11
17648.00	89.660	325.350	7965.28	9646.97	6808.64	-7165.40	1743621.47	435184.36	39°41'31.4206"N	80°17'56.9391"W	9884.36	313.538	0.72
17742.00	89.820	325.820	7965.70	9740.97	6886.19	-7218.52	1743568.35	435261.90	39°41'32.1823"N	80°17'57.6275"W	9976.31	313.650	0.53
17837.00	90.030	326.490	7965.83	9835.97	6965.09	-7271.43	1743515.44	435340.80	39°41'32.9574"N	80°17'58.3133"W	10069.07	313.767	0.74
17932.00	89.880	326.050	7965.90	9930.97	7044.10	-7324.18	1743462.69	435419.80	39°41'33.7335"N	80°17'58.9971"W	10161.84	313.883	0.49
18028.00	89.690	325.910	7966.26	10026.96	7123.67	-7377.89	1743408.99	435499.36	39°41'34.5151"N	80°17'59.6932"W	10255.73	313.996	0.25
18123.00	89.750	325.590	7966.73	10121.96	7202.19	-7431.36	1743355.52	435577.88	39°41'35.2865"N	80°18'0.3861"W	10348.75	314.103	0.34
18218.00	89.850	326.140	7967.06	10216.96	7280.83	-7484.67	1743302.22	435656.51	39°41'36.0588"N	80°18'1.0770"W	10441.78	314.209	0.59
18312.00	89.750	326.140	7967.39	10310.96	7358.88	-7537.04	1743249.85	435734.56	39°41'36.8256"N	80°18'1.7558"W	10533.76	314.315	0.11
18406.00	89.630	325.420	7967.90	10404.96	7436.61	-7589.90	1743196.99	435812.28	39°41'37.5891"N	80°18'2.4409"W	10625.90	314.416	0.78
18500.00	89.780	326.060	7968.38	10498.95	7514.30	-7642.82	1743144.08	435889.97	39°41'38.3522"N	80°18'3.1267"W	10718.08	314.514	0.70
18594.00	89.660	325.320	7968.84	10592.95	7591.94	-7695.80	1743091.10	435967.61	39°41'39.1148"N	80°18'3.8133"W	10810.32	314.611	0.80
18688.00	89.750	325.860	7969.32	10686.94	7669.49	-7748.92	1743037.98	436045.15	39°41'39.8765"N	80°18'4.5017"W	10902.61	314.705	0.58

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WELLPATH DATA (334 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]
18783.00	89.820	325.840	7969.68	10781.94	7748.11	-7802.25	1742984.65	436123.77	39°41'40.6488"N	80°18'5.1928"W	10995.83	314.801	0.08
18878.00	89.850	326.380	7969.95	10876.94	7826.97	-7855.22	1742931.69	436202.62	39°41'41.4234"N	80°18'5.8795"W	11089.00	314.897	0.57
18973.00	89.750	325.930	7970.28	10971.94	7905.87	-7908.13	1742878.78	436281.52	39°41'42.1985"N	80°18'6.5653"W	11182.19	314.992	0.49
19067.00	89.780	326.060	7970.67	11065.94	7983.79	-7960.70	1742826.21	436359.44	39°41'42.9639"N	80°18'7.2467"W	11274.47	315.083	0.14
19162.00	89.750	325.980	7971.06	11160.94	8062.57	-8013.80	1742773.12	436438.21	39°41'43.7378"N	80°18'7.9349"W	11367.76	315.174	0.09
19257.00	90.150	326.230	7971.14	11255.94	8141.43	-8066.78	1742720.14	436517.06	39°41'44.5124"N	80°18'8.6217"W	11461.05	315.264	0.50
19352.00	90.150	325.590	7970.89	11350.93	8220.10	-8120.02	1742666.90	436595.73	39°41'45.2852"N	80°18'9.3118"W	11554.43	315.351	0.67
19447.00	90.120	324.270	7970.67	11445.91	8297.85	-8174.61	1742612.32	436673.48	39°41'46.0487"N	80°18'10.0190"W	11648.11	315.429	1.39
19542.00	90.430	326.580	7970.21	11540.90	8376.07	-8228.51	1742558.42	436751.69	39°41'46.8169"N	80°18'10.7175"W	11741.67	315.509	2.45
19636.00	90.090	325.810	7969.79	11634.90	8454.17	-8280.81	1742506.12	436829.79	39°41'47.5842"N	80°18'11.3955"W	11834.06	315.594	0.90
19731.00	90.060	326.030	7969.66	11729.89	8532.86	-8334.05	1742452.89	436908.47	39°41'48.3571"N	80°18'12.0855"W	11927.53	315.675	0.23
19826.00	89.940	323.050	7969.66	11824.85	8610.23	-8389.15	1742397.79	436985.83	39°41'49.1168"N	80°18'12.7993"W	12021.39	315.745	3.14
19921.00	90.180	325.820	7969.56	11919.80	8687.50	-8444.40	1742342.54	437063.10	39°41'49.8755"N	80°18'13.5149"W	12115.30	315.813	2.93
20016.00	89.260	326.200	7970.03	12014.79	8766.26	-8497.51	1742289.44	437141.86	39°41'50.6492"N	80°18'14.2033"W	12208.81	315.892	1.05
20110.00	89.940	326.250	7970.68	12108.79	8844.40	-8549.77	1742237.19	437219.99	39°41'51.4168"N	80°18'14.8808"W	12301.29	315.970	0.73
20205.00	90.000	325.930	7970.73	12203.79	8923.24	-8602.76	1742184.19	437298.82	39°41'52.1912"N	80°18'15.5678"W	12394.83	316.048	0.34

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Actual Wellpath Report

ERP 7H AWP PROJ: 30471'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 7H
Field	Monongalia	UWI	47061020120000
Facility	ERP Pad	Wellbore	ERP 7H AWB
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WELLPATH DATA (334 stations)

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20299.00	89.510	325.180	7971.14	12297.79	9000.76	-8655.93	1742131.03	437376.34	39°41'52.9526"N	80°18'16.2569"W	12487.54	316.119	0.95
20393.00	89.630	326.080	7971.84	12391.78	9078.34	-8709.00	1742077.97	437453.92	39°41'53.7146"N	80°18'16.9446"W	12580.26	316.190	0.97
20488.00	89.720	326.440	7972.38	12486.78	9157.34	-8761.76	1742025.20	437532.91	39°41'54.4906"N	80°18'17.6287"W	12673.80	316.265	0.39
20583.00	89.380	325.760	7973.13	12581.77	9236.19	-8814.74	1741972.22	437611.75	39°41'55.2652"N	80°18'18.3156"W	12767.41	316.337	0.80
20678.00	89.720	325.920	7973.87	12676.77	9314.79	-8868.08	1741918.89	437690.36	39°41'56.0373"N	80°18'19.0070"W	12861.12	316.407	0.40
20773.00	89.480	325.640	7974.54	12771.76	9393.35	-8921.51	1741865.46	437768.90	39°41'56.8088"N	80°18'19.6994"W	12954.86	316.476	0.39
20868.00	89.230	325.610	7975.60	12866.75	9471.75	-8975.14	1741811.83	437847.30	39°41'57.5789"N	80°18'20.3946"W	13048.65	316.542	0.27
20963.00	89.600	325.890	7976.57	12961.75	9550.27	-9028.61	1741758.37	437925.82	39°41'58.3501"N	80°18'21.0876"W	13142.43	316.608	0.49
21058.00	89.660	326.050	7977.19	13056.74	9629.00	-9081.77	1741705.21	438004.54	39°41'59.1234"N	80°18'21.7767"W	13236.17	316.675	0.18
21153.00	89.450	325.840	7977.93	13151.74	9707.71	-9134.97	1741652.02	438083.25	39°41'59.8965"N	80°18'22.4663"W	13329.94	316.741	0.31
21248.00	89.480	325.350	7978.81	13246.73	9786.08	-9188.64	1741598.35	438161.62	39°42'0.6663"N	80°18'23.1620"W	13423.81	316.803	0.52
21342.00	89.420	325.960	7979.72	13340.73	9863.69	-9241.67	1741545.32	438239.22	39°42'1.4286"N	80°18'23.8494"W	13516.69	316.865	0.65
21437.00	90.250	327.090	7979.99	13435.72	9942.93	-9294.07	1741492.92	438318.46	39°42'2.2070"N	80°18'24.5288"W	13610.35	316.932	1.48
21531.00	88.460	325.680	7981.05	13529.71	10021.20	-9346.10	1741440.90	438396.72	39°42'2.9759"N	80°18'25.2035"W	13703.07	316.996	2.42
21626.00	88.920	325.980	7983.22	13624.68	10099.78	-9399.45	1741387.56	438475.30	39°42'3.7477"N	80°18'25.8950"W	13796.93	317.057	0.58
21721.00	88.740	326.740	7985.16	13719.66	10178.86	-9452.06	1741334.94	438554.37	39°42'4.5245"N	80°18'26.5772"W	13890.67	317.120	0.82
21816.00	87.910	325.280	7987.94	13814.61	10257.59	-9505.15	1741281.86	438633.09	39°42'5.2978"N	80°18'27.2654"W	13984.49	317.180	1.77
21910.00	87.840	325.240	7991.42	13908.54	10334.78	-9558.68	1741228.34	438710.28	39°42'6.0559"N	80°18'27.9591"W	14077.50	317.234	0.09
22005.00	87.970	326.630	7994.89	14003.47	10413.42	-9611.85	1741175.16	438788.92	39°42'6.8284"N	80°18'28.6485"W	14171.35	317.292	1.47
22099.00	88.180	326.650	7998.05	14097.42	10491.89	-9663.51	1741123.51	438867.38	39°42'7.5992"N	80°18'29.3184"W	14264.05	317.354	0.22
22194.00	89.230	326.830	8000.20	14192.39	10571.31	-9715.60	1741071.42	438946.79	39°42'8.3794"N	80°18'29.9940"W	14357.76	317.415	1.12
22289.00	89.140	326.800	8001.55	14287.37	10650.80	-9767.59	1741019.43	439026.29	39°42'9.1604"N	80°18'30.6683"W	14451.49	317.477	0.10
22384.00	88.800	326.970	8003.26	14382.34	10730.36	-9819.49	1740967.54	439105.84	39°42'9.9420"N	80°18'31.3413"W	14545.20	317.538	0.40
22479.00	88.860	327.250	8005.20	14477.31	10810.12	-9871.06	1740915.97	439185.59	39°42'10.7256"N	80°18'32.0104"W	14638.87	317.600	0.30
22573.00	88.740	326.620	8007.17	14571.28	10888.88	-9922.34	1740864.70	439264.34	39°42'11.4994"N	80°18'32.6755"W	14731.61	317.659	0.68
22667.00	88.310	327.250	8009.59	14665.24	10967.63	-9973.60	1740813.43	439343.09	39°42'12.2731"N	80°18'33.3405"W	14824.36	317.718	0.81
22761.00	88.210	326.990	8012.44	14759.18	11046.53	-10024.61	1740762.43	439421.99	39°42'13.0483"N	80°18'34.0021"W	14917.06	317.777	0.30
22856.00	88.180	326.840	8015.43	14854.12	11126.09	-10076.44	1740710.60	439501.54	39°42'13.8299"N	80°18'34.6745"W	15010.82	317.834	0.16
22950.00	88.150	326.590	8018.44	14948.07	11204.63	-10128.01	1740659.04	439580.08	39°42'14.6015"N	80°18'35.3432"W	15103.65	317.889	0.27

WELLPATH DATA (334 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]
23045.00	88.210	326.490	8021.46	15043.02	11283.84	-10180.36	1740606.69	439659.29	39°42'15.3797"N	80°18'36.0221"W	15197.53	317.943	0.12
23140.00	88.310	326.730	8024.34	15137.97	11363.13	-10232.62	1740554.44	439738.57	39°42'16.1585"N	80°18'36.6999"W	15291.41	317.997	0.27
23234.00	88.250	326.680	8027.17	15231.93	11441.66	-10284.19	1740502.86	439817.10	39°42'16.9300"N	80°18'37.3688"W	15384.29	318.050	0.08
23329.00	88.180	326.750	8030.12	15326.87	11521.04	-10336.30	1740450.75	439896.47	39°42'17.7098"N	80°18'38.0447"W	15478.16	318.103	0.10
23424.00	88.250	326.770	8033.08	15421.82	11600.46	-10388.35	1740398.71	439975.88	39°42'18.4900"N	80°18'38.7198"W	15572.04	318.155	0.08
23519.00	88.280	327.020	8035.96	15516.77	11680.00	-10440.22	1740346.85	440055.42	39°42'19.2715"N	80°18'39.3925"W	15665.90	318.208	0.26
23613.00	88.740	326.830	8038.40	15610.73	11758.74	-10491.50	1740295.57	440134.15	39°42'20.0450"N	80°18'40.0577"W	15758.79	318.260	0.53
23708.00	88.710	326.880	8040.52	15705.70	11838.26	-10543.43	1740243.64	440213.67	39°42'20.8263"N	80°18'40.7313"W	15852.71	318.311	0.06
23802.00	88.860	326.960	8042.51	15799.67	11917.01	-10594.72	1740192.35	440292.41	39°42'21.5999"N	80°18'41.3967"W	15945.63	318.362	0.18
23897.00	89.200	326.770	8044.12	15894.65	11996.55	-10646.64	1740140.44	440371.95	39°42'22.3813"N	80°18'42.0702"W	16039.58	318.412	0.41
23992.00	89.260	326.960	8045.40	15989.63	12076.09	-10698.57	1740088.52	440451.49	39°42'23.1628"N	80°18'42.7437"W	16133.55	318.461	0.21
24087.00	89.260	326.750	8046.62	16084.61	12155.63	-10750.50	1740036.58	440531.02	39°42'23.9441"N	80°18'43.4175"W	16227.53	318.510	0.22
24181.00	89.050	326.160	8048.01	16178.60	12233.96	-10802.44	1739984.65	440609.35	39°42'24.7136"N	80°18'44.0910"W	16320.62	318.556	0.67
24276.00	88.950	325.520	8049.67	16273.58	12312.56	-10855.78	1739931.31	440687.94	39°42'25.4856"N	80°18'44.7825"W	16414.84	318.598	0.68
24371.00	88.920	325.770	8051.43	16368.56	12390.98	-10909.38	1739877.72	440766.35	39°42'26.2557"N	80°18'45.4774"W	16509.11	318.638	0.27
24466.00	89.050	326.090	8053.12	16463.55	12469.66	-10962.59	1739824.51	440845.03	39°42'27.0285"N	80°18'46.1673"W	16603.33	318.680	0.36

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Actual Wellpath Report

ERP 7H AWP PROJ: 30471'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 7H
Field	Monongalia	UWI	47061020120000
Facility	ERP Pad	Wellbore	ERP 7H AWB
Slot	7H		

WELLPATH DATA (334 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]
24561.00	88.980	324.900	8054.75	16558.53	12547.93	-11016.39	1739770.71	440923.30	39°42'27.7973"N	80°18'46.8648"W	16697.65	318.719	1.25
24655.00	88.980	325.880	8056.42	16652.50	12625.28	-11069.78	1739717.33	441000.64	39°42'28.5569"N	80°18'47.5568"W	16791.00	318.756	1.04
24750.00	89.050	325.760	8058.06	16747.49	12703.86	-11123.14	1739663.97	441079.22	39°42'29.3287"N	80°18'48.2486"W	16885.27	318.796	0.15
24845.00	88.920	325.920	8059.74	16842.47	12782.46	-11176.47	1739610.64	441157.81	39°42'30.1007"N	80°18'48.9402"W	16979.54	318.835	0.22
24940.00	89.600	325.970	8060.97	16937.46	12861.16	-11229.67	1739557.45	441236.51	39°42'30.8736"N	80°18'49.6299"W	17073.81	318.874	0.72
25034.00	89.720	326.020	8061.52	17031.46	12939.09	-11282.24	1739504.88	441314.43	39°42'31.6390"N	80°18'50.3116"W	17167.09	318.913	0.14
25129.00	89.600	326.090	8062.09	17126.46	13017.89	-11335.28	1739451.84	441393.23	39°42'32.4131"N	80°18'50.9994"W	17261.35	318.952	0.15
25224.00	90.030	325.860	8062.39	17221.46	13096.63	-11388.44	1739398.68	441471.96	39°42'33.1864"N	80°18'51.6887"W	17355.64	318.991	0.51
25318.00	90.000	326.020	8062.37	17315.46	13174.50	-11441.09	1739346.04	441549.83	39°42'33.9513"N	80°18'52.3713"W	17448.95	319.028	0.17
25413.00	90.030	326.070	8062.34	17410.46	13253.30	-11494.15	1739292.98	441628.63	39°42'34.7253"N	80°18'53.0594"W	17543.25	319.066	0.06
25508.00	90.000	325.910	8062.32	17505.46	13332.05	-11547.29	1739239.85	441707.37	39°42'35.4987"N	80°18'53.7484"W	17637.56	319.103	0.17
25603.00	90.550	326.140	8061.86	17600.46	13410.83	-11600.37	1739186.76	441786.15	39°42'36.2725"N	80°18'54.4368"W	17731.87	319.140	0.63
25698.00	91.320	326.080	8060.31	17695.44	13489.68	-11653.34	1739133.80	441864.99	39°42'37.0470"N	80°18'55.1237"W	17826.16	319.177	0.81
25793.00	91.260	326.340	8058.17	17790.42	13568.61	-11706.16	1739080.98	441943.92	39°42'37.8223"N	80°18'55.8087"W	17920.42	319.214	0.28
25888.00	91.720	326.330	8055.70	17885.39	13647.66	-11758.80	1739028.34	442022.95	39°42'38.5987"N	80°18'56.4915"W	18014.66	319.252	0.48
25983.00	91.720	325.720	8052.85	17980.34	13726.40	-11811.87	1738975.28	442101.70	39°42'39.3721"N	80°18'57.1796"W	18108.96	319.287	0.64
26077.00	91.720	326.250	8050.03	18074.30	13804.28	-11864.43	1738922.72	442179.57	39°42'40.1370"N	80°18'57.8612"W	18202.28	319.322	0.56
26171.00	91.820	326.060	8047.13	18168.25	13882.32	-11916.76	1738870.40	442257.60	39°42'40.9035"N	80°18'58.5398"W	18295.57	319.357	0.23
26267.00	92.650	326.490	8043.38	18264.18	13962.10	-11970.02	1738817.14	442337.38	39°42'41.6872"N	80°18'59.2306"W	18390.80	319.393	0.97
26362.00	92.280	326.240	8039.30	18359.09	14041.12	-12022.59	1738764.57	442416.40	39°42'42.4634"N	80°18'59.9124"W	18485.01	319.428	0.47
26456.00	92.960	326.130	8035.00	18452.99	14119.14	-12074.85	1738712.32	442494.41	39°42'43.2297"N	80°19'0.5902"W	18578.26	319.463	0.73
26551.00	92.710	326.310	8030.30	18547.88	14198.00	-12127.60	1738659.57	442573.27	39°42'44.0043"N	80°19'1.2744"W	18672.49	319.497	0.32
26645.00	92.770	326.570	8025.81	18641.77	14276.24	-12179.51	1738607.67	442651.50	39°42'44.7728"N	80°19'1.9476"W	18765.70	319.531	0.28
26741.00	92.280	326.170	8021.58	18737.67	14356.10	-12232.62	1738554.55	442731.35	39°42'45.5572"N	80°19'2.6366"W	18860.93	319.566	0.66
26835.00	92.520	326.360	8017.64	18831.59	14434.20	-12284.78	1738502.40	442809.45	39°42'46.3244"N	80°19'3.3131"W	18954.21	319.599	0.33
26930.00	92.520	326.180	8013.47	18926.50	14513.13	-12337.48	1738449.70	442888.38	39°42'47.0997"N	80°19'3.9966"W	19048.48	319.632	0.19
27025.00	92.800	326.240	8009.06	19021.39	14592.00	-12390.26	1738396.93	442967.24	39°42'47.8743"N	80°19'4.6811"W	19142.75	319.665	0.30
27120.00	92.710	326.110	8004.49	19116.28	14670.83	-12443.08	1738344.11	443046.07	39°42'48.6486"N	80°19'5.3662"W	19237.03	319.697	0.17
27214.00	92.830	326.300	7999.95	19210.17	14748.86	-12495.30	1738291.89	443124.09	39°42'49.4150"N	80°19'6.0435"W	19330.32	319.729	0.24

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WELLPATH DATA (334 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]
27308.00	92.800	326.190	7995.33	19304.06	14826.91	-12547.47	1738239.73	443202.14	39°42'50.1817"N	80°19'6.7202"W	19423.60	319.760	0.12
27403.00	92.710	325.920	7990.77	19398.95	14905.63	-12600.46	1738186.74	443280.86	39°42'50.9548"N	80°19'7.4073"W	19517.92	319.791	0.30
27498.00	92.180	326.140	7986.71	19493.86	14984.35	-12653.49	1738133.71	443359.56	39°42'51.7280"N	80°19'8.0951"W	19612.28	319.821	0.60
27592.00	92.220	325.920	7983.11	19587.79	15062.25	-12705.97	1738081.23	443437.46	39°42'52.4931"N	80°19'8.7758"W	19705.66	319.850	0.24
27687.00	92.190	325.960	7979.45	19682.72	15140.89	-12759.14	1738028.07	443516.10	39°42'53.2655"N	80°19'9.4653"W	19800.06	319.879	0.05
27782.00	92.220	325.990	7975.80	19777.65	15219.57	-12812.26	1737974.95	443594.77	39°42'54.0382"N	80°19'10.1542"W	19894.45	319.908	0.04
27878.00	92.250	326.020	7972.05	19873.58	15299.10	-12865.89	1737921.32	443674.30	39°42'54.8193"N	80°19'10.8498"W	19989.84	319.938	0.04
27972.00	91.850	326.370	7968.69	19967.52	15377.16	-12918.16	1737869.06	443752.35	39°42'55.5860"N	80°19'11.5277"W	20083.22	319.967	0.57
28066.00	91.760	326.080	7965.73	20061.47	15455.25	-12970.39	1737816.83	443830.44	39°42'56.3531"N	80°19'12.2052"W	20176.62	319.996	0.32
28161.00	91.570	326.040	7962.97	20156.43	15534.04	-13023.41	1737763.82	443909.22	39°42'57.1268"N	80°19'12.8928"W	20271.05	320.024	0.20
28256.00	91.350	326.090	7960.55	20251.40	15612.83	-13076.42	1737710.80	443988.01	39°42'57.9007"N	80°19'13.5804"W	20365.49	320.052	0.24
28351.00	91.170	326.170	7958.46	20346.38	15691.69	-13129.36	1737657.87	444066.86	39°42'58.6753"N	80°19'14.2670"W	20459.94	320.081	0.21
28445.00	91.110	324.620	7956.59	20440.35	15769.04	-13182.73	1737604.50	444144.21	39°42'59.4349"N	80°19'14.9590"W	20553.51	320.105	1.65
28538.00	91.200	324.880	7954.71	20533.30	15844.97	-13236.39	1737550.84	444220.14	39°43'0.1804"N	80°19'15.6546"W	20646.19	320.126	0.30
28633.00	91.260	324.910	7952.67	20628.26	15922.67	-13291.01	1737496.23	444297.83	39°43'0.9434"N	80°19'16.3626"W	20740.84	320.147	0.07
28727.00	91.260	326.030	7950.61	20722.23	16000.09	-13344.28	1737442.96	444375.25	39°43'1.7036"N	80°19'17.0533"W	20834.41	320.171	1.19

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WV Department of
Environmental Protection

Actual Wellpath Report

ERP 7H AWP PROJ: 30471'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 7H
Field	Monongalia	UWI	47061020120000
Facility	ERP Pad	Wellbore	ERP 7H AWB
Slot	7H		

WELLPATH DATA (334 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]
28822.00	90.740	324.860	7948.95	20817.21	16078.32	-13398.15	1737389.09	444453.47	39°43'2.4718"N	80°19'17.7519"W	20929.00	320.195	1.35
28917.00	90.710	324.570	7947.75	20912.17	16155.86	-13453.03	1737334.22	444531.01	39°43'3.2332"N	80°19'18.4631"W	21023.70	320.216	0.31
29011.00	90.710	325.940	7946.58	21006.15	16233.09	-13506.59	1737280.66	444608.24	39°43'3.9916"N	80°19'19.1576"W	21117.33	320.238	1.46
29106.00	90.830	325.900	7945.31	21101.14	16311.77	-13559.82	1737227.43	444686.91	39°43'4.7643"N	80°19'19.8480"W	21211.85	320.264	0.13
29201.00	90.740	326.020	7944.00	21196.13	16390.49	-13613.00	1737174.26	444765.62	39°43'5.5373"N	80°19'20.5376"W	21306.38	320.289	0.16
29295.00	90.770	325.910	7942.77	21290.12	16468.38	-13665.60	1737121.66	444843.50	39°43'6.3023"N	80°19'21.2200"W	21399.91	320.314	0.12
29392.00	90.710	326.000	7941.51	21387.11	16548.74	-13719.90	1737067.36	444923.87	39°43'7.0916"N	80°19'21.9242"W	21496.43	320.339	0.11
29490.00	91.170	325.870	7939.90	21485.10	16629.92	-13774.79	1737012.48	445005.03	39°43'7.8888"N	80°19'22.6361"W	21593.96	320.365	0.49
29587.00	91.050	325.850	7938.03	21582.08	16710.18	-13829.22	1736958.06	445085.30	39°43'8.6771"N	80°19'23.3420"W	21690.49	320.389	0.13
29685.00	90.710	326.190	7936.52	21680.07	16791.44	-13883.98	1736903.29	445166.55	39°43'9.4752"N	80°19'24.0524"W	21788.01	320.414	0.49
29778.00	90.520	326.050	7935.52	21773.06	16868.64	-13935.82	1736851.46	445243.75	39°43'10.2334"N	80°19'24.7248"W	21880.55	320.439	0.25
29872.00	90.220	324.630	7934.92	21867.05	16945.96	-13989.28	1736798.00	445321.06	39°43'10.9927"N	80°19'25.4180"W	21974.20	320.460	1.54
29965.00	90.120	325.880	7934.64	21960.04	17022.38	-14042.28	1736745.00	445397.47	39°43'11.7430"N	80°19'26.1052"W	22066.87	320.480	1.35
30059.00	89.600	325.890	7934.87	22054.04	17100.20	-14095.00	1736692.29	445475.29	39°43'12.5073"N	80°19'26.7890"W	22160.46	320.503	0.55
30152.00	89.510	325.730	7935.59	22147.03	17177.12	-14147.26	1736640.03	445552.21	39°43'13.2628"N	80°19'27.4668"W	22253.06	320.525	0.20
30246.00	89.630	326.000	7936.30	22241.03	17254.93	-14200.01	1736587.29	445630.01	39°43'14.0269"N	80°19'28.1509"W	22346.65	320.547	0.31
30339.00	89.600	325.760	7936.92	22334.03	17331.92	-14252.17	1736535.13	445706.99	39°43'14.7830"N	80°19'28.8275"W	22439.24	320.569	0.26
30432.00	89.450	325.810	7937.69	22427.02	17408.82	-14304.46	1736482.84	445783.89	39°43'15.5382"N	80°19'29.5057"W	22531.86	320.591	0.17
30471.00†	89.450	325.810	7938.07	22466.02	17441.08	-14326.38	1736460.93	445816.15	39°43'15.8550"N	80°19'29.7900"W	22570.69	320.600	0.00

HOLE & CASING SECTIONS - Ref Wellbore: ERP 7H AWB

Ref Wellpath: ERP 7H AWP PROJ: 30471'

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]
505in Casing	25.00	30471.00	30446.00	25.00	7938.07	0.00	0.00	17441.08	-14326.38

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TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
ERP 7H BHL Rev-0	7975.00	15055.02	-13129.20	1737658.03	443430.23	39°42'52.3834"N	80°19'14.1906"W	point
ERP 7H LP Rev-0	7975.00	-1282.67	-2263.50	1748523.06	427093.54	39°40'11.8845"N	80°16'53.3343"W	point
ERP 7H LP Rev-1	7975.00	-693.33	-2259.91	1748526.66	427682.84	39°40'17.7089"N	80°16'53.3539"W	point
ERP 7H LP Rev-2	7975.00	-623.08	-2246.73	1748539.84	427753.09	39°40'18.4044"N	80°16'53.1932"W	point
ERP 7H LP Rev-3	7975.00	-590.94	-2208.43	1748578.14	427785.22	39°40'18.7253"N	80°16'52.7069"W	point
	Moved 50' on a 50° Azi (North East)							
ERP 7H BHL Rev 4	8000.00	17447.11	-14318.72	1736468.58	445822.18	39°43'15.9153"N	80°19'29.6927"W	point
ERP 7H LP Rev 6	8000.00	-486.20	-2278.94	1748507.63	427889.96	39°40'19.7543"N	80°16'53.6203"W	point
	Moved 50' on a 50° Azi (North East)							
ERP 7H BHL Rev 3	8062.00	17447.11	-14318.72	1736468.58	445822.18	39°43'15.9153"N	80°19'29.6927"W	point
ERP 7H LP Rev 5	8062.00	-486.20	-2278.94	1748507.63	427889.96	39°40'19.7543"N	80°16'53.6203"W	point
	Moved 50' on a 50° Azi (North East)							
ERP 7H BHL Rev-1	8087.00	19334.97	-15580.12	1735207.26	447709.92	39°43'34.4571"N	80°19'46.0581"W	point
ERP 7H BHL Rev-2	8087.00	17447.11	-14318.72	1736468.58	445822.18	39°43'15.9153"N	80°19'29.6927"W	point
ERP 7H LP Rev-4	8087.00	-334.40	-2380.58	1748405.99	428041.75	39°40'21.2457"N	80°16'54.9370"W	point
	Moved 50' on a 50° Azi (North East)							
ERP Pad Hardline #1 (9.9.21)	8525.00	1029.01	105.63	1750892.05	429405.08	39°40'34.9323"N	80°16'23.2927"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 Pad Hardline #2 (9.9.21)	8525.00	1381.33	1205.34	1751991.69	429757.38	39°40'38.5074"N	80°16'9.2672"W	polygon
	2D Polygon:: dimensions not calculated							
ERP Pad Hardline #3 (9.9.21)	8525.00	1406.26	1476.21	1752262.55	429782.30	39°40'38.7767"N	80°16'5.8056"W	polygon
	2D Polygon:: dimensions not calculated							
ERP Pad Hardline #4 (9.9.21)	8525.00	-4801.80	112.52	1750898.94	423574.63	39°39'37.3098"N	80°16'22.5630"W	polygon
	2D Polygon:: dimensions not calculated							
ERP Pad Hardline #5 (9.9.21)	8525.00	-10378.83	6453.60	1757239.64	417997.93	39°38'42.7257"N	80°15'0.8900"W	polygon

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
	2D Polygon:: dimensions not calculated							
ERP Pad Hardline #6 (9.9.21)	8525.00	-11082.50	6775.77	1757561.79	417294.31	39°38'35.7982"N	80°14'56.6966"W	polygon
	2D Polygon:: dimensions not calculated							
ERP Pad Hardline #7 (9.9.21)	8525.00	-12569.53	6336.02	1757122.07	415807.37	39°38'21.0662"N	80°15'2.1590"W	polygon
	2D Polygon:: dimensions not calculated							
ERP Pad Hardline #8 (9.9.21)	8525.00	-10829.88	5825.72	1756611.80	417546.91	39°38'38.2162"N	80°15'8.8680"W	polygon
	2D Polygon:: dimensions not calculated							
ERP Pad Hardline #9 (02.28.2024)	8525.00	1029.01	105.63	1750892.05	429405.08	39°40'34.9323"N	80°16'23.2927"W	polygon
	2D Polygon:: dimensions not calculated							
ERP Hardline #1 (11.26.2024)	9525.00	11546.23	-7446.26	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)	9525.00	11950.89	-6429.68	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)	9525.00	11781.51	-6327.46	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)	9525.00	11601.30	-6415.46	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)	9525.00	11037.71	-7084.87	1743701.99	439413.16	39°42'13.2212"N	80°17'56.3901"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 Hardline #6 (12.18.2024)	9525.00	8505.12	-2120.34	1748666.22	436880.73	39°41'48.6246"N	80°16'52.5921"W	polygon
	2D Polygon:: dimensions not calculated							
ERP Hardline #6 (2.27.2025)	9525.00	8505.12	-2120.34	1748666.22	436880.73	39°41'48.6246"N	80°16'52.5921"W	polygon
	2D Polygon:: dimensions not calculated							
ERP Unit Lines NW (2.27.2025)	10025.00	12333.02	-8169.50	1742617.43	440708.40	39°42'25.9265"N	80°18'10.4150"W	polygon
	2D Polygon:: dimensions not calculated							

3606-39



Actual Wellpath Report

ERP 7H AWP PROJ: 30471'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 7H
Field	Monongalia	UWI	47061020120000
Facility	ERP Pad	Wellbore	ERP 7H AWB
Slot	7H		

WELLPATH COMPOSITION - Ref Wellbore: ERP 7H AWB Ref Wellpath: ERP 7H AWP PROJ: 30471'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	1190.00	OWSG XYZ Accel with XY Static and Continuous Gyro rev1.1	1 Imported Gyro 50' - 1190'	ERP 7H AWB	2026-01-15
1190.00	6878.00	OWSG MWD rev2 + HRGM	2 Imported AEP MWD HRGM 1383' - 6878'	ERP 7H AWB	2026-01-15
6878.00	30471.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	3 BH ATC Short spacing HRGM 8.5" 6942' - 30432'	ERP 7H AWB	2026-01-15