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WV Department of
Environmental Protection

Actual Wellpath Report

ERP 11H AWP PROJ: 30209'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 11H
Field	Monongalia	UWI	47-061-020130000
Facility	ERP Pad	Wellbore	ERP 11H AWB
Slot	11H		

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 2026-03-09 at 1:10:36 AM
Scale	0.999941	Last Updated	2026-03-09
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	-39.27	-45.36	1750766.60	428398.80	39°40'24.9765"N	80°16'24.7864"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 (11H)	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	326.370°



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WELLPATH DATA (335 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
0.00†	0.000	131.040	0.00	0.00	0.00	0.00	1750766.60	428398.80	39°40'24.9765"N	80°16'24.7864"W	0.00	0.000	0.00
25.00	0.000	131.040	25.00	0.00	0.00	0.00	1750766.60	428398.80	39°40'24.9765"N	80°16'24.7864"W	0.00	0.000	0.00
50.00	0.260	131.040	50.00	-0.05	-0.04	0.04	1750766.64	428398.76	39°40'24.9761"N	80°16'24.7858"W	0.06	131.040	1.04
100.00	0.370	111.790	100.00	-0.30	-0.17	0.28	1750766.88	428398.63	39°40'24.9748"N	80°16'24.7828"W	0.33	121.671	0.30
150.00	0.410	113.380	150.00	-0.58	-0.30	0.59	1750767.19	428398.50	39°40'24.9735"N	80°16'24.7788"W	0.67	117.058	0.08
200.00	0.320	112.510	200.00	-0.85	-0.43	0.89	1750767.49	428398.37	39°40'24.9723"N	80°16'24.7750"W	0.98	115.744	0.18
250.00	0.150	97.670	250.00	-1.01	-0.49	1.08	1750767.68	428398.31	39°40'24.9717"N	80°16'24.7725"W	1.19	114.381	0.36
300.00	0.190	161.870	300.00	-1.13	-0.58	1.17	1750767.77	428398.22	39°40'24.9709"N	80°16'24.7714"W	1.30	116.239	0.37
350.00	0.320	173.640	350.00	-1.33	-0.79	1.21	1750767.81	428398.01	39°40'24.9687"N	80°16'24.7708"W	1.45	123.253	0.28
400.00	0.320	138.470	400.00	-1.59	-1.04	1.32	1750767.92	428397.76	39°40'24.9663"N	80°16'24.7694"W	1.68	128.182	0.39
450.00	0.060	30.420	449.99	-1.72	-1.12	1.43	1750768.03	428397.68	39°40'24.9655"N	80°16'24.7680"W	1.81	128.150	0.69
500.00	0.260	256.950	499.99	-1.67	-1.12	1.33	1750767.93	428397.68	39°40'24.9655"N	80°16'24.7693"W	1.74	130.209	0.61
550.00	0.240	193.410	549.99	-1.70	-1.25	1.19	1750767.79	428397.55	39°40'24.9642"N	80°16'24.7710"W	1.73	136.334	0.53
600.00	0.120	34.100	599.99	-1.75	-1.31	1.20	1750767.80	428397.49	39°40'24.9637"N	80°16'24.7709"W	1.77	137.520	0.71
650.00	0.230	223.070	649.99	-1.76	-1.34	1.16	1750767.76	428397.46	39°40'24.9634"N	80°16'24.7714"W	1.77	139.110	0.70
700.00	0.160	126.950	699.99	-1.85	-1.45	1.15	1750767.75	428397.35	39°40'24.9622"N	80°16'24.7716"W	1.85	141.745	0.59
750.00	0.160	274.140	749.99	-1.87	-1.49	1.13	1750767.73	428397.31	39°40'24.9618"N	80°16'24.7717"W	1.87	142.777	0.61
800.00	0.200	142.620	799.99	-1.91	-1.56	1.12	1750767.72	428397.25	39°40'24.9612"N	80°16'24.7720"W	1.91	144.339	0.66
850.00	0.210	292.110	849.99	-1.92	-1.59	1.08	1750767.68	428397.21	39°40'24.9609"N	80°16'24.7724"W	1.92	145.716	0.79
900.00	0.210	149.520	899.99	-1.94	-1.63	1.05	1750767.65	428397.17	39°40'24.9604"N	80°16'24.7728"W	1.94	147.393	0.80
950.00	0.190	293.590	949.99	-1.96	-1.68	1.02	1750767.62	428397.12	39°40'24.9600"N	80°16'24.7732"W	1.96	148.839	0.76
1000.00	0.270	128.910	999.99	-2.00	-1.72	1.03	1750767.63	428397.08	39°40'24.9596"N	80°16'24.7730"W	2.01	149.058	0.91
1050.00	0.130	256.770	1049.99	-2.10	-1.81	1.07	1750767.67	428396.99	39°40'24.9587"N	80°16'24.7725"W	2.10	149.425	0.73
1100.00	0.200	90.550	1099.99	-2.13	-1.82	1.10	1750767.70	428396.98	39°40'24.9586"N	80°16'24.7721"W	2.13	148.872	0.66
1150.00	0.190	226.330	1149.99	-2.19	-1.88	1.13	1750767.73	428396.92	39°40'24.9580"N	80°16'24.7718"W	2.19	149.046	0.72
1175.00	0.260	134.900	1174.99	-2.25	-1.95	1.14	1750767.74	428396.85	39°40'24.9573"N	80°16'24.7716"W	2.26	149.721	1.30
1352.00	0.420	113.420	1351.99	-3.19	-2.49	2.02	1750768.62	428396.31	39°40'24.9520"N	80°16'24.7603"W	3.20	140.983	0.11
1414.00	0.920	112.470	1413.99	-3.79	-2.77	2.69	1750769.29	428396.03	39°40'24.9493"N	80°16'24.7517"W	3.86	135.887	0.81
1508.00	0.930	134.210	1507.97	-5.17	-3.59	3.93	1750770.53	428395.21	39°40'24.9413"N	80°16'24.7357"W	5.32	132.417	0.37

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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]
1601.00	1.560	207.410	1600.96	-6.52	-5.24	3.89	1750770.49	428393.56	39°40'24.9250"N	80°16'24.7361"W	6.53	143.428	1.69
1694.00	4.120	239.360	1693.84	-6.96	-8.07	0.43	1750767.03	428390.73	39°40'24.8968"N	80°16'24.7800"W	8.08	176.946	3.13
1788.00	6.290	249.910	1787.45	-5.57	-11.56	-7.31	1750759.29	428387.24	39°40'24.8616"N	80°16'24.8786"W	13.68	212.319	2.51
1881.00	8.480	255.030	1879.67	-2.19	-15.08	-18.72	1750747.88	428383.72	39°40'24.8259"N	80°16'25.0242"W	24.04	231.151	2.46
1975.00	11.240	253.780	1972.27	2.77	-19.43	-34.22	1750732.38	428379.37	39°40'24.7816"N	80°16'25.2218"W	39.35	240.411	2.94
2068.00	12.800	261.180	2063.24	9.81	-23.54	-53.10	1750713.50	428375.26	39°40'24.7393"N	80°16'25.4629"W	58.09	246.091	2.35
2162.00	13.620	268.580	2154.76	20.08	-25.41	-74.46	1750692.15	428373.39	39°40'24.7190"N	80°16'25.7358"W	78.68	251.155	2.00
2255.00	14.550	268.870	2244.96	32.19	-25.91	-97.09	1750669.52	428372.89	39°40'24.7121"N	80°16'26.0251"W	100.48	255.055	1.00
2348.00	15.870	267.200	2334.70	44.99	-26.77	-121.47	1750645.14	428372.04	39°40'24.7016"N	80°16'26.3368"W	124.38	257.573	1.50
2442.00	17.120	265.780	2424.83	58.37	-28.41	-148.10	1750618.51	428370.39	39°40'24.6831"N	80°16'26.6773"W	150.80	259.140	1.40
2535.00	17.960	263.980	2513.51	71.73	-30.92	-176.01	1750590.60	428367.88	39°40'24.6559"N	80°16'27.0339"W	178.71	260.036	1.08
2613.00	18.160	261.700	2587.66	82.51	-33.94	-200.00	1750566.61	428364.86	39°40'24.6240"N	80°16'27.3404"W	202.86	260.369	0.94
2703.00	18.230	258.320	2673.17	93.77	-38.81	-227.67	1750538.95	428359.99	39°40'24.5735"N	80°16'27.6936"W	230.95	260.325	1.18
2765.00	18.180	256.990	2732.06	100.80	-42.95	-246.59	1750520.03	428355.85	39°40'24.5310"N	80°16'27.9351"W	250.30	260.118	0.68
2858.00	15.070	254.340	2821.17	109.64	-49.49	-272.37	1750494.24	428349.32	39°40'24.4642"N	80°16'28.2642"W	276.83	259.703	3.44
2952.00	13.040	261.450	2912.35	117.91	-54.36	-294.63	1750471.99	428344.44	39°40'24.4142"N	80°16'28.5483"W	299.60	259.546	2.83

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3045.00	11.470	273.030	3003.25	127.88	-55.43	-314.24	1750452.38	428343.37	39°40'24.4019"N	80°16'28.7990"W	319.09	259.996	3.13
3139.00	10.830	271.740	3095.47	138.57	-54.67	-332.40	1750434.22	428344.13	39°40'24.4079"N	80°16'29.0313"W	336.87	260.660	0.73
3232.00	10.360	269.230	3186.89	148.17	-54.52	-349.50	1750417.12	428344.29	39°40'24.4079"N	80°16'29.2499"W	353.72	261.134	0.71
3327.00	9.600	267.070	3280.45	156.85	-55.04	-365.95	1750400.67	428343.77	39°40'24.4014"N	80°16'29.4603"W	370.07	261.447	0.89
3421.00	10.540	276.040	3373.00	166.34	-54.53	-382.33	1750384.29	428344.27	39°40'24.4050"N	80°16'29.6698"W	386.20	261.882	1.94
3515.00	11.750	277.190	3465.23	178.08	-52.43	-400.38	1750366.25	428346.37	39°40'24.4242"N	80°16'29.9008"W	403.79	262.539	1.31
3608.00	13.650	282.160	3555.95	192.14	-48.93	-420.50	1750346.13	428349.87	39°40'24.4571"N	80°16'30.1585"W	423.34	263.362	2.35
3701.00	16.520	287.780	3645.74	210.35	-42.58	-443.82	1750322.80	428356.22	39°40'24.5178"N	80°16'30.4575"W	445.86	264.519	3.46
3795.00	19.720	286.310	3735.07	232.94	-34.05	-471.78	1750294.85	428364.76	39°40'24.5998"N	80°16'30.8160"W	473.01	265.872	3.44
3888.00	23.010	283.090	3821.67	258.19	-25.52	-504.55	1750262.08	428373.28	39°40'24.6813"N	80°16'31.2360"W	505.20	267.104	3.75
3982.00	24.990	274.700	3907.57	283.88	-19.73	-542.25	1750224.38	428379.07	39°40'24.7353"N	80°16'31.7188"W	542.61	267.916	4.19
4075.00	27.400	266.000	3991.04	306.66	-19.61	-583.20	1750183.44	428379.19	39°40'24.7330"N	80°16'32.2424"W	583.53	268.074	4.87
4168.00	28.240	262.910	4073.29	327.07	-23.82	-626.38	1750140.26	428374.98	39°40'24.6877"N	80°16'32.7942"W	626.83	267.822	1.79
4262.00	28.460	261.050	4156.02	346.36	-30.05	-670.58	1750096.07	428368.75	39°40'24.6223"N	80°16'33.3587"W	671.25	267.434	0.97
4355.00	29.470	260.830	4237.39	365.09	-37.15	-715.05	1750051.59	428361.66	39°40'24.5484"N	80°16'33.9267"W	716.01	267.026	1.09
4451.00	31.640	259.470	4320.05	384.75	-45.51	-763.12	1750003.52	428353.29	39°40'24.4617"N	80°16'34.5406"W	764.48	266.587	2.37
4544.00	32.280	259.500	4398.96	404.07	-54.49	-811.53	1749955.12	428344.31	39°40'24.3688"N	80°16'35.1585"W	813.35	266.158	0.69
4638.00	32.790	261.070	4478.20	424.57	-63.02	-861.35	1749905.30	428335.78	39°40'24.2802"N	80°16'35.7948"W	863.65	265.815	1.05
4731.00	33.670	263.720	4556.00	446.94	-69.75	-911.86	1749854.80	428329.05	39°40'24.2094"N	80°16'36.4400"W	914.52	265.626	1.83
4824.00	36.010	264.170	4632.32	471.53	-75.35	-964.69	1749801.97	428323.46	39°40'24.1496"N	80°16'37.1150"W	967.63	265.534	2.53
4917.00	38.880	263.190	4706.15	497.46	-81.59	-1020.88	1749745.78	428317.22	39°40'24.0831"N	80°16'37.8329"W	1024.13	265.431	3.15
5011.00	39.890	262.090	4778.81	523.85	-89.23	-1080.03	1749686.64	428309.57	39°40'24.0025"N	80°16'38.5885"W	1083.71	265.277	1.31
5104.00	37.250	263.640	4851.51	549.69	-96.46	-1137.55	1749629.12	428302.35	39°40'23.9262"N	80°16'39.3233"W	1141.63	265.153	3.02
5197.00	35.380	265.400	4926.45	575.66	-101.73	-1192.37	1749574.30	428297.07	39°40'23.8693"N	80°16'40.0237"W	1196.70	265.123	2.30
5291.00	37.090	267.310	5002.27	603.44	-105.25	-1247.81	1749518.86	428293.56	39°40'23.8299"N	80°16'40.7323"W	1252.24	265.179	2.18
5384.00	39.760	268.940	5075.12	633.87	-107.11	-1305.57	1749461.11	428291.69	39°40'23.8065"N	80°16'41.4708"W	1309.96	265.310	3.07
5477.00	40.500	268.950	5146.23	666.15	-108.22	-1365.50	1749401.18	428290.59	39°40'23.7905"N	80°16'42.2371"W	1369.78	265.469	0.80
5571.00	40.250	266.330	5217.84	697.75	-110.72	-1426.33	1749340.36	428288.09	39°40'23.7605"N	80°16'43.0147"W	1430.62	265.561	1.82
5664.00	40.540	264.540	5288.68	727.02	-115.52	-1486.40	1749280.29	428283.29	39°40'23.7079"N	80°16'43.7824"W	1490.88	265.556	1.29

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WELLPATH DATA (335 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
5758.00	40.570	262.340	5360.10	754.83	-122.50	-1547.11	1749219.58	428276.31	39°40'23.6337"N	80°16'44.5580"W	1551.95	265.473	1.52
5853.00	37.110	260.860	5434.08	780.25	-131.17	-1606.04	1749160.66	428267.63	39°40'23.5430"N	80°16'45.3107"W	1611.39	265.331	3.77
5947.00	36.060	259.020	5509.57	802.66	-140.95	-1661.20	1749105.50	428257.86	39°40'23.4416"N	80°16'46.0150"W	1667.17	265.150	1.62
6040.00	37.930	261.250	5583.84	825.23	-150.51	-1716.33	1749050.37	428248.30	39°40'23.3424"N	80°16'46.7189"W	1722.92	264.988	2.47
6134.00	38.100	260.680	5657.90	849.32	-159.60	-1773.50	1748993.20	428239.21	39°40'23.2477"N	80°16'47.4491"W	1780.67	264.858	0.41
6227.00	38.470	260.200	5730.90	872.82	-169.17	-1830.32	1748936.39	428229.64	39°40'23.1482"N	80°16'48.1746"W	1838.12	264.719	0.51
6320.00	38.640	258.630	5803.63	895.51	-179.82	-1887.30	1748879.42	428218.99	39°40'23.0381"N	80°16'48.9020"W	1895.84	264.557	1.07
6414.00	38.190	260.020	5877.28	918.29	-190.64	-1944.69	1748822.03	428208.17	39°40'22.9262"N	80°16'49.6348"W	1954.01	264.401	1.04
6445.00	38.170	260.510	5901.65	926.05	-193.88	-1963.57	1748803.15	428204.93	39°40'22.8926"N	80°16'49.8760"W	1973.12	264.361	0.98
6561.00	38.030	258.930	5992.94	954.42	-206.66	-2034.00	1748732.73	428192.16	39°40'22.7603"N	80°16'50.7751"W	2044.47	264.199	0.85
6656.00	38.420	261.180	6067.57	978.03	-216.80	-2091.89	1748674.84	428182.01	39°40'22.6551"N	80°16'51.5143"W	2103.09	264.083	1.52
6750.00	39.150	264.990	6140.86	1004.50	-223.87	-2150.32	1748616.41	428174.94	39°40'22.5802"N	80°16'52.2608"W	2161.94	264.056	2.65
6845.00	40.330	267.800	6213.91	1034.90	-227.67	-2210.92	1748555.82	428171.14	39°40'22.5374"N	80°16'53.0353"W	2222.61	264.121	2.26
6941.00	40.580	273.020	6286.98	1069.75	-227.22	-2273.16	1748493.58	428171.60	39°40'22.5365"N	80°16'53.8314"W	2284.49	264.292	3.54
7036.00	40.720	272.860	6359.06	1106.62	-224.04	-2334.97	1748431.78	428174.77	39°40'22.5626"N	80°16'54.6221"W	2345.69	264.519	0.18
7130.00	41.460	272.780	6429.90	1143.33	-221.01	-2396.67	1748370.08	428177.81	39°40'22.5873"N	80°16'55.4115"W	2406.84	264.731	0.79

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Environmental Protection

Actual Wellpath Report

ERP 11H AWP PROJ: 30209'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 11H
Field	Monongalia	UWI	47-061-020130000
Facility	ERP Pad	Wellbore	ERP 11H AWB
Slot	11H		

WELLPATH DATA (335 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
7225.00	41.320	272.640	6501.17	1180.55	-218.04	-2459.41	1748307.34	428180.78	39°40'22.6113"N	80°16'56.2142"W	2469.06	264.934	0.18
7320.00	41.360	272.800	6572.50	1217.74	-215.06	-2522.09	1748244.66	428183.76	39°40'22.6353"N	80°16'57.0161"W	2531.24	265.126	0.12
7415.00	41.450	272.640	6643.75	1254.98	-212.08	-2584.85	1748181.91	428186.74	39°40'22.6594"N	80°16'57.8191"W	2593.54	265.310	0.15
7512.00	41.420	272.750	6716.48	1293.01	-209.06	-2648.97	1748117.79	428189.75	39°40'22.6837"N	80°16'58.6394"W	2657.21	265.488	0.08
7607.00	41.280	272.700	6787.79	1330.21	-206.07	-2711.66	1748055.10	428192.74	39°40'22.7078"N	80°16'59.4414"W	2719.48	265.654	0.15
7703.00	41.510	272.940	6859.81	1367.93	-202.95	-2775.07	1747991.70	428195.86	39°40'22.7332"N	80°17'0.2526"W	2782.48	265.817	0.29
7797.00	41.480	272.930	6930.22	1405.03	-199.76	-2837.27	1747929.51	428199.05	39°40'22.7593"N	80°17'1.0484"W	2844.29	265.973	0.03
7891.00	41.460	272.980	7000.65	1442.13	-196.55	-2899.43	1747867.34	428202.26	39°40'22.7857"N	80°17'1.8437"W	2906.09	266.122	0.04
7985.00	40.990	272.590	7071.35	1478.90	-193.54	-2961.31	1747805.47	428205.27	39°40'22.8101"N	80°17'2.6354"W	2967.62	266.261	0.57
8079.00	41.200	273.960	7142.19	1516.01	-190.01	-3022.99	1747743.80	428208.80	39°40'22.8397"N	80°17'3.4246"W	3028.95	266.403	0.98
8174.00	41.450	274.000	7213.53	1554.29	-185.66	-3085.57	1747681.22	428213.15	39°40'22.8773"N	80°17'4.2254"W	3091.15	266.557	0.26
8269.00	41.480	274.030	7284.72	1592.71	-181.25	-3148.32	1747618.47	428217.56	39°40'22.9154"N	80°17'5.0283"W	3153.53	266.705	0.04
8364.00	41.500	273.840	7355.88	1631.08	-176.93	-3211.11	1747555.69	428221.88	39°40'22.9527"N	80°17'5.8318"W	3215.98	266.846	0.13
8459.00	41.430	273.790	7427.07	1669.33	-172.75	-3273.87	1747492.93	428226.06	39°40'22.9886"N	80°17'6.6349"W	3278.43	266.980	0.08
8553.00	41.470	273.680	7497.53	1707.09	-168.69	-3335.97	1747430.84	428230.12	39°40'23.0233"N	80°17'7.4294"W	3340.23	267.105	0.09
8649.00	41.520	273.610	7569.44	1745.61	-164.65	-3399.44	1747367.36	428234.16	39°40'23.0578"N	80°17'8.2416"W	3403.43	267.227	0.07
8743.00	43.360	277.360	7638.81	1785.64	-158.55	-3462.56	1747304.26	428240.26	39°40'23.1126"N	80°17'9.0494"W	3466.18	267.378	3.33
8838.00	46.200	286.770	7706.32	1833.51	-144.47	-3527.81	1747239.00	428254.34	39°40'23.2462"N	80°17'9.8855"W	3530.77	267.655	7.58
8933.00	52.010	292.220	7768.51	1890.98	-120.39	-3595.38	1747171.44	428278.42	39°40'23.4783"N	80°17'10.7523"W	3597.39	268.082	7.49
9028.00	57.620	298.420	7823.26	1957.50	-87.09	-3665.42	1747101.41	428311.72	39°40'23.8013"N	80°17'11.6517"W	3666.45	268.639	7.95
9123.00	64.050	302.630	7869.55	2032.13	-44.91	-3736.77	1747030.06	428353.89	39°40'24.2120"N	80°17'12.5689"W	3737.04	269.311	7.79
9217.00	66.170	308.580	7909.14	2111.82	4.73	-3806.03	1746960.81	428403.53	39°40'24.6965"N	80°17'13.4601"W	3806.03	270.071	6.17
9312.00	71.690	315.200	7943.31	2197.59	63.93	-3871.88	1746894.95	428462.73	39°40'25.2759"N	80°17'14.3090"W	3872.41	270.946	8.72
9407.00	77.810	321.620	7968.31	2288.27	132.46	-3932.60	1746834.24	428531.25	39°40'25.9478"N	80°17'15.0932"W	3934.83	271.929	9.16
9502.00	83.430	326.860	7983.80	2381.86	208.48	-3987.31	1746779.54	428607.26	39°40'26.6943"N	80°17'15.8013"W	3992.75	272.993	8.04
9596.00	88.490	326.810	7990.42	2475.60	286.94	-4038.58	1746728.26	428685.73	39°40'27.4653"N	80°17'16.4659"W	4048.77	274.064	5.38
9692.00	88.400	326.740	7993.03	2571.56	367.22	-4091.17	1746675.68	428766.00	39°40'28.2541"N	80°17'17.1473"W	4107.61	275.129	0.12
9786.00	89.940	325.700	7994.39	2665.55	445.34	-4143.42	1746623.43	428844.11	39°40'29.0216"N	80°17'17.8244"W	4167.29	276.135	1.98
9880.00	89.880	326.040	7994.54	2759.54	523.15	-4196.16	1746570.69	428921.92	39°40'29.7860"N	80°17'18.5076"W	4228.65	277.107	0.37

15-JAN-20

WELLPATH DATA (335 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
9975.00	90.000	325.880	7994.64	2854.54	601.87	-4249.34	1746517.52	429000.63	39°40'30.5593"N	80°17'19.1965"W	4291.75	278.062	0.21
10070.00	90.120	326.400	7994.54	2949.54	680.76	-4302.27	1746464.59	429079.52	39°40'31.3344"N	80°17'19.8823"W	4355.80	278.991	0.56
10165.00	90.000	326.210	7994.44	3044.54	759.80	-4354.98	1746411.89	429158.55	39°40'32.1109"N	80°17'20.5652"W	4420.76	279.897	0.24
10260.00	90.030	326.220	7994.41	3139.54	838.76	-4407.80	1746359.07	429237.50	39°40'32.8866"N	80°17'21.2496"W	4486.90	280.774	0.03
10355.00	90.370	325.580	7994.08	3234.53	917.42	-4461.06	1746305.81	429316.16	39°40'33.6594"N	80°17'21.9396"W	4554.42	281.621	0.76
10449.00	90.400	325.940	7993.45	3328.53	995.13	-4513.95	1746252.92	429393.87	39°40'34.4227"N	80°17'22.6247"W	4622.34	282.432	0.38
10544.00	90.250	325.940	7992.91	3423.52	1073.83	-4567.16	1746199.72	429472.56	39°40'35.1959"N	80°17'23.3140"W	4691.70	283.231	0.16
10639.00	90.460	326.550	7992.32	3518.52	1152.81	-4619.94	1746146.94	429551.54	39°40'35.9718"N	80°17'23.9980"W	4761.60	284.011	0.68
10734.00	90.310	325.950	7991.68	3613.52	1231.80	-4672.72	1746094.17	429630.52	39°40'36.7478"N	80°17'24.6818"W	4832.35	284.768	0.65
10829.00	90.120	325.370	7991.33	3708.51	1310.24	-4726.31	1746040.58	429708.96	39°40'37.5184"N	80°17'25.3760"W	4904.56	285.495	0.64
10923.00	90.120	325.330	7991.13	3802.49	1387.57	-4779.75	1745987.14	429786.28	39°40'38.2779"N	80°17'26.0682"W	4977.09	286.188	0.04
11018.00	90.120	326.210	7990.93	3897.49	1466.11	-4833.19	1745933.70	429864.82	39°40'39.0495"N	80°17'26.7605"W	5050.67	286.875	0.93
11113.00	90.120	326.090	7990.73	3992.49	1545.01	-4886.11	1745880.79	429943.72	39°40'39.8246"N	80°17'27.4462"W	5124.56	287.547	0.13
11207.00	89.940	325.850	7990.68	4086.48	1622.91	-4938.71	1745828.19	430021.61	39°40'40.5899"N	80°17'28.1277"W	5198.53	288.191	0.32
11302.00	89.970	326.040	7990.76	4181.48	1701.62	-4991.91	1745774.99	430100.32	39°40'41.3631"N	80°17'28.8169"W	5273.96	288.823	0.20
11397.00	89.820	325.840	7990.93	4276.48	1780.32	-5045.12	1745721.79	430179.01	39°40'42.1362"N	80°17'29.5063"W	5350.02	289.437	0.26

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Actual Wellpath Report

ERP 11H AWP PROJ: 30209'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 11H
Field	Monongalia	UWI	47-061-020130000
Facility	ERP Pad	Wellbore	ERP 11H AWB
Slot	11H		

WELLPATH DATA (335 stations)													
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
11492.00	89.940	325.940	7991.13	4371.47	1858.98	-5098.39	1745668.52	430257.66	39°40'42.9089"N	80°17'30.1965"W	5426.73	290.033	0.16
11587.00	89.940	325.980	7991.23	4466.47	1937.70	-5151.57	1745615.34	430336.38	39°40'43.6822"N	80°17'30.8855"W	5503.94	290.613	0.04
11681.00	90.250	326.420	7991.07	4560.47	2015.81	-5203.86	1745563.06	430414.49	39°40'44.4496"N	80°17'31.5631"W	5580.65	291.175	0.57
11776.00	89.910	327.040	7990.94	4655.47	2095.24	-5255.98	1745510.94	430493.91	39°40'45.2300"N	80°17'32.2385"W	5658.21	291.734	0.74
11871.00	89.630	326.090	7991.32	4750.47	2174.52	-5308.32	1745458.60	430573.18	39°40'46.0089"N	80°17'32.9169"W	5736.44	292.276	1.04
11966.00	90.250	326.960	7991.42	4845.46	2253.76	-5360.72	1745406.21	430652.42	39°40'46.7874"N	80°17'33.5960"W	5815.22	292.803	1.12
12061.00	90.550	326.360	7990.76	4940.46	2333.12	-5412.93	1745354.00	430731.78	39°40'47.5672"N	80°17'34.2727"W	5894.34	293.317	0.71
12156.00	90.220	325.870	7990.12	5035.46	2411.98	-5465.89	1745301.04	430810.64	39°40'48.3419"N	80°17'34.9590"W	5974.42	293.811	0.62
12251.00	90.090	323.280	7989.86	5130.40	2489.39	-5520.95	1745245.98	430888.04	39°40'49.1021"N	80°17'35.6720"W	6056.24	294.271	2.73
12346.00	90.490	326.410	7989.38	5225.35	2567.05	-5575.65	1745191.29	430965.69	39°40'49.8648"N	80°17'36.3802"W	6138.21	294.722	3.32
12440.00	90.340	326.010	7988.70	5319.35	2645.17	-5627.92	1745139.02	431043.81	39°40'50.6322"N	80°17'37.0577"W	6218.56	295.174	0.45
12535.00	89.690	325.490	7988.68	5414.34	2723.70	-5681.39	1745085.56	431122.33	39°40'51.4036"N	80°17'37.7504"W	6300.53	295.613	0.88
12629.00	90.860	325.880	7988.23	5508.33	2801.33	-5734.38	1745032.57	431199.96	39°40'52.1662"N	80°17'38.4369"W	6382.05	296.036	1.31
12723.00	89.320	325.070	7988.08	5602.32	2878.77	-5787.65	1744979.30	431277.40	39°40'52.9269"N	80°17'39.1270"W	6464.08	296.446	1.85
12818.00	89.940	325.650	7988.69	5697.30	2956.93	-5841.65	1744925.30	431355.55	39°40'53.6945"N	80°17'39.8265"W	6547.39	296.848	0.89
12913.00	90.120	327.280	7988.64	5792.30	3036.12	-5894.13	1744872.83	431434.73	39°40'54.4725"N	80°17'40.5067"W	6630.14	297.253	1.73
13007.00	90.150	327.300	7988.42	5886.29	3115.21	-5944.93	1744822.03	431513.82	39°40'55.2497"N	80°17'41.1653"W	6711.68	297.655	0.04
13102.00	90.090	327.180	7988.22	5981.28	3195.10	-5996.33	1744770.63	431593.70	39°40'56.0347"N	80°17'41.8318"W	6794.46	298.051	0.14
13197.00	90.250	327.650	7987.94	6076.26	3275.14	-6047.50	1744719.47	431673.75	39°40'56.8213"N	80°17'42.4952"W	6877.41	298.439	0.52
13292.00	90.280	327.950	7987.50	6171.23	3355.53	-6098.12	1744668.85	431754.13	39°40'57.6113"N	80°17'43.1518"W	6960.36	298.822	0.32
13387.00	90.430	327.790	7986.91	6266.19	3435.98	-6148.64	1744618.33	431834.57	39°40'58.4019"N	80°17'43.8071"W	7043.56	299.197	0.23
13482.00	90.580	327.040	7986.07	6361.17	3516.02	-6199.80	1744567.17	431914.61	39°40'59.1884"N	80°17'44.4705"W	7127.41	299.558	0.81
13576.00	90.860	328.160	7984.89	6455.14	3595.38	-6250.17	1744516.81	431993.96	39°40'59.9683"N	80°17'45.1237"W	7210.50	299.909	1.23
13671.00	90.710	327.330	7983.59	6550.11	3675.71	-6300.86	1744466.12	432074.29	39°41'0.7577"N	80°17'45.7812"W	7294.64	300.258	0.89
13765.00	90.620	327.230	7982.50	6644.09	3754.79	-6351.67	1744415.32	432153.36	39°41'1.5348"N	80°17'46.4400"W	7378.49	300.589	0.14
13860.00	90.340	327.420	7981.70	6739.07	3834.76	-6402.95	1744364.04	432233.32	39°41'2.3205"N	80°17'47.1050"W	7463.46	300.918	0.36
13955.00	90.460	327.280	7981.04	6834.05	3914.74	-6454.21	1744312.79	432313.30	39°41'3.1065"N	80°17'47.7696"W	7548.64	301.239	0.19
14050.00	90.430	327.340	7980.30	6929.04	3994.69	-6505.51	1744261.48	432393.25	39°41'3.8921"N	80°17'48.4349"W	7634.09	301.552	0.07
14145.00	90.370	326.900	7979.64	7024.03	4074.47	-6557.09	1744209.91	432473.02	39°41'4.6760"N	80°17'49.1036"W	7719.89	301.856	0.47

WELLPATH DATA (335 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
14239.00	90.650	327.760	7978.80	7118.01	4153.60	-6607.82	1744159.18	432552.14	39°41'5.4535"N	80°17'49.7616"W	7804.85	302.153	0.96
14333.00	90.650	327.680	7977.74	7211.98	4233.06	-6658.02	1744108.98	432631.61	39°41'6.2344"N	80°17'50.4127"W	7889.75	302.448	0.09
14428.00	90.370	327.100	7976.89	7306.96	4313.08	-6709.22	1744057.79	432711.62	39°41'7.0207"N	80°17'51.0766"W	7975.98	302.735	0.68
14523.00	90.460	327.500	7976.20	7401.94	4393.03	-6760.54	1744006.47	432791.56	39°41'7.8062"N	80°17'51.7421"W	8062.48	303.016	0.43
14618.00	90.400	327.540	7975.49	7496.92	4473.16	-6811.55	1743955.46	432871.69	39°41'8.5937"N	80°17'52.4037"W	8149.01	303.293	0.08
14713.00	90.490	326.230	7974.75	7591.91	4552.73	-6863.45	1743903.57	432951.25	39°41'9.3755"N	80°17'53.0765"W	8236.16	303.557	1.38
14807.00	90.370	325.940	7974.05	7685.91	4630.73	-6915.90	1743851.12	433029.25	39°41'10.1417"N	80°17'53.7562"W	8323.06	303.805	0.33
14901.00	90.370	325.950	7973.44	7779.90	4708.61	-6968.54	1743798.49	433107.12	39°41'10.9067"N	80°17'54.4383"W	8410.20	304.047	0.01
14996.00	90.430	323.590	7972.78	7874.86	4786.20	-7023.33	1743743.70	433184.71	39°41'11.6687"N	80°17'55.1481"W	8499.11	304.273	2.48
15091.00	90.000	324.250	7972.42	7969.77	4862.98	-7079.28	1743687.75	433261.48	39°41'12.4226"N	80°17'55.8724"W	8588.64	304.486	0.83
15186.00	90.030	325.030	7972.40	8064.73	4940.46	-7134.25	1743632.78	433338.96	39°41'13.1834"N	80°17'56.5844"W	8677.89	304.703	0.82
15280.00	90.120	324.950	7972.27	8158.70	5017.45	-7188.18	1743578.85	433415.94	39°41'13.9395"N	80°17'57.2830"W	8766.11	304.916	0.13
15375.00	90.250	325.460	7971.97	8253.68	5095.46	-7242.39	1743524.65	433493.95	39°41'14.7057"N	80°17'57.9853"W	8855.28	305.129	0.55
15470.00	90.150	324.970	7971.63	8348.66	5173.48	-7296.59	1743470.45	433571.97	39°41'15.4720"N	80°17'58.6874"W	8944.56	305.338	0.53
15565.00	89.880	325.190	7971.61	8443.63	5251.38	-7350.97	1743416.08	433649.86	39°41'16.2370"N	80°17'59.3918"W	9034.03	305.541	0.37
15659.00	90.280	324.980	7971.48	8537.61	5328.46	-7404.77	1743362.28	433726.93	39°41'16.9940"N	80°18'0.0888"W	9122.67	305.739	0.48

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Environmental Protection

Actual Wellpath Report

ERP 11H AWP PROJ: 30209'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 11H
Field	Monongalia	UWI	47-061-020130000
Facility	ERP Pad	Wellbore	ERP 11H AWB
Slot	11H		

WELLPATH DATA (335 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
15754.00	90.430	326.090	7970.89	8632.60	5406.78	-7458.53	1743308.52	433805.25	39°41'17.7633"N	80°18'0.7854"W	9212.11	305.939	1.18
15848.00	90.280	325.810	7970.31	8726.59	5484.66	-7511.16	1743255.89	433883.13	39°41'18.5283"N	80°18'1.4675"W	9300.49	306.137	0.34
15943.00	90.060	325.260	7970.03	8821.58	5562.99	-7564.92	1743202.14	433961.45	39°41'19.2976"N	80°18'2.1640"W	9390.15	306.329	0.62
16038.00	90.310	326.040	7969.72	8916.57	5641.42	-7618.53	1743148.54	434039.87	39°41'20.0680"N	80°18'2.8586"W	9479.85	306.519	0.86
16132.00	90.090	325.630	7969.39	9010.57	5719.19	-7671.32	1743095.75	434117.65	39°41'20.8320"N	80°18'3.5427"W	9568.61	306.706	0.49
16227.00	90.340	326.540	7969.03	9105.56	5798.03	-7724.32	1743042.75	434196.48	39°41'21.6064"N	80°18'4.2297"W	9658.28	306.893	0.99
16321.00	89.820	326.000	7968.90	9199.56	5876.21	-7776.52	1742990.56	434274.65	39°41'22.3744"N	80°18'4.9063"W	9747.00	307.076	0.80
16416.00	90.090	327.030	7968.98	9294.56	5955.44	-7828.93	1742938.15	434353.88	39°41'23.1527"N	80°18'5.5858"W	9836.63	307.260	1.12
16511.00	89.750	326.600	7969.11	9389.56	6034.94	-7880.93	1742886.15	434433.38	39°41'23.9339"N	80°18'6.2600"W	9926.21	307.444	0.58
16605.00	90.000	326.420	7969.32	9483.56	6113.34	-7932.79	1742834.29	434511.77	39°41'24.7040"N	80°18'6.9324"W	10015.10	307.619	0.33
16700.00	89.720	325.950	7969.55	9578.56	6192.27	-7985.66	1742781.42	434590.69	39°41'25.4794"N	80°18'7.6177"W	10105.20	307.791	0.58
16794.00	89.720	325.940	7970.01	9672.55	6270.15	-8038.30	1742728.79	434668.56	39°41'26.2444"N	80°18'8.2999"W	10194.56	307.955	0.01
16889.00	89.820	325.700	7970.39	9767.55	6348.74	-8091.67	1742675.42	434747.15	39°41'27.0163"N	80°18'8.9916"W	10285.02	308.118	0.27
16983.00	89.750	326.050	7970.74	9861.54	6426.55	-8144.40	1742622.69	434824.96	39°41'27.7806"N	80°18'9.6750"W	10374.58	308.276	0.38
17078.00	89.780	326.060	7971.13	9956.54	6505.36	-8197.45	1742569.65	434903.76	39°41'28.5548"N	80°18'10.3626"W	10465.08	308.435	0.03
17174.00	89.750	326.220	7971.52	10052.54	6585.08	-8250.94	1742516.16	434983.48	39°41'29.3379"N	80°18'11.0559"W	10556.57	308.593	0.17
17268.00	89.850	326.450	7971.85	10146.54	6663.31	-8303.05	1742464.06	435061.71	39°41'30.1064"N	80°18'11.7314"W	10646.14	308.748	0.27
17362.00	89.750	325.920	7972.18	10240.54	6741.41	-8355.36	1742411.75	435139.80	39°41'30.8736"N	80°18'12.4095"W	10735.86	308.898	0.57
17457.00	89.780	326.220	7972.57	10335.54	6820.23	-8408.39	1742358.73	435218.62	39°41'31.6479"N	80°18'13.0968"W	10826.66	309.046	0.32
17552.00	90.280	326.300	7972.52	10430.53	6899.23	-8461.15	1742305.96	435297.61	39°41'32.4239"N	80°18'13.7808"W	10917.44	309.194	0.53
17646.00	90.340	326.290	7972.01	10524.53	6977.43	-8513.31	1742253.81	435375.80	39°41'33.1921"N	80°18'14.4570"W	11007.32	309.338	0.06
17740.00	90.060	326.040	7971.68	10618.53	7055.51	-8565.65	1742201.47	435453.88	39°41'33.9591"N	80°18'15.1355"W	11097.32	309.478	0.40
17836.00	90.310	326.000	7971.37	10714.53	7135.11	-8619.31	1742147.82	435533.48	39°41'34.7410"N	80°18'15.8309"W	11189.38	309.618	0.26
17931.00	90.340	326.190	7970.83	10809.53	7213.96	-8672.30	1742094.83	435612.32	39°41'35.5155"N	80°18'16.5178"W	11280.51	309.755	0.20
18026.00	89.660	326.240	7970.83	10904.53	7292.92	-8725.12	1742042.01	435691.27	39°41'36.2911"N	80°18'17.2026"W	11371.65	309.891	0.72
18121.00	89.600	326.800	7971.45	10999.52	7372.15	-8777.53	1741989.61	435770.50	39°41'37.0695"N	80°18'17.8821"W	11462.71	310.027	0.59
18216.00	89.720	327.430	7972.01	11094.51	7451.93	-8829.11	1741938.03	435850.27	39°41'37.8533"N	80°18'18.5510"W	11553.54	310.165	0.68
18311.00	89.690	327.550	7972.50	11189.49	7532.04	-8880.17	1741886.98	435930.38	39°41'38.6405"N	80°18'19.2134"W	11644.27	310.304	0.13
18405.00	89.690	327.130	7973.01	11283.48	7611.18	-8930.89	1741836.25	436009.51	39°41'39.4181"N	80°18'19.8713"W	11734.17	310.439	0.45

WELLPATH DATA (335 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
18498.00	89.720	327.020	7973.49	11376.47	7689.24	-8981.44	1741785.71	436087.57	39°41'40.1850"N	80°18'20.5269"W	11823.31	310.568	0.12
18592.00	89.630	326.560	7974.02	11470.47	7767.88	-9032.92	1741734.23	436166.21	39°41'40.9577"N	80°18'21.1945"W	11913.59	310.694	0.50
18686.00	89.080	325.650	7975.08	11564.46	7845.90	-9085.34	1741681.81	436244.23	39°41'41.7241"N	80°18'21.8740"W	12004.23	310.813	1.13
18781.00	90.370	326.790	7975.54	11659.45	7924.86	-9138.16	1741629.00	436323.18	39°41'42.4997"N	80°18'22.5588"W	12095.84	310.933	1.81
18876.00	90.400	327.220	7974.90	11754.44	8004.54	-9189.89	1741577.27	436402.85	39°41'43.2825"N	80°18'23.2297"W	12187.15	311.056	0.45
18971.00	90.460	327.470	7974.18	11849.43	8084.52	-9241.15	1741526.01	436482.83	39°41'44.0684"N	80°18'23.8946"W	12278.37	311.181	0.27
19066.00	90.370	327.130	7973.50	11944.41	8164.46	-9292.47	1741474.69	436562.76	39°41'44.8538"N	80°18'24.5603"W	12369.66	311.303	0.37
19161.00	90.280	326.520	7972.96	12039.41	8243.97	-9344.45	1741422.71	436642.27	39°41'45.6350"N	80°18'25.2345"W	12461.22	311.420	0.65
19255.00	89.420	327.550	7973.20	12133.40	8322.84	-9395.60	1741371.57	436721.13	39°41'46.4098"N	80°18'25.8978"W	12551.77	311.535	1.43
19350.00	89.230	327.020	7974.32	12228.38	8402.76	-9446.94	1741320.23	436801.05	39°41'47.1951"N	80°18'26.5638"W	12643.22	311.652	0.59
19445.00	89.140	327.030	7975.67	12323.36	8482.45	-9498.64	1741268.54	436880.73	39°41'47.9780"N	80°18'27.2343"W	12734.84	311.765	0.10
19540.00	88.550	327.170	7977.59	12418.34	8562.20	-9550.23	1741216.95	436960.48	39°41'48.7615"N	80°18'27.9035"W	12826.46	311.878	0.64
19634.00	88.770	327.020	7979.79	12512.30	8641.10	-9601.28	1741165.90	437039.37	39°41'49.5367"N	80°18'28.5657"W	12917.17	311.987	0.28
19729.00	89.110	327.300	7981.54	12607.28	8720.90	-9652.79	1741114.40	437119.17	39°41'50.3208"N	80°18'29.2338"W	13008.86	312.097	0.46
19824.00	89.140	326.940	7983.00	12702.26	8800.67	-9704.36	1741062.83	437198.94	39°41'51.1045"N	80°18'29.9027"W	13100.63	312.204	0.38
19919.00	88.980	327.130	7984.55	12797.24	8880.37	-9756.05	1741011.15	437278.63	39°41'51.8875"N	80°18'30.5730"W	13192.47	312.310	0.26

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 Office of Oil and Gas
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Actual Wellpath Report

ERP 11H AWP PROJ: 30209'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 11H
Field	Monongalia	UWI	47-061-020130000
Facility	ERP Pad	Wellbore	ERP 11H AWB
Slot	11H		

WELLPATH DATA (335 stations)													
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
20014.00	89.660	327.130	7985.68	12892.22	8960.15	-9807.60	1740959.60	437358.41	39°41'52.6714"N	80°18'31.2418"W	13284.33	312.415	0.72
20109.00	89.690	326.880	7986.22	12987.22	9039.83	-9859.33	1740907.87	437438.08	39°41'53.4542"N	80°18'31.9128"W	13376.28	312.517	0.27
20203.00	89.820	327.150	7986.62	13081.21	9118.68	-9910.51	1740856.69	437516.92	39°41'54.2289"N	80°18'32.5765"W	13467.31	312.617	0.32
20297.00	88.860	326.900	7987.71	13175.20	9197.53	-9961.67	1740805.54	437595.77	39°41'55.0035"N	80°18'33.2401"W	13558.37	312.716	1.06
20392.00	88.860	327.230	7989.60	13270.17	9277.24	-10013.31	1740753.90	437675.48	39°41'55.7867"N	80°18'33.9099"W	13650.41	312.815	0.35
20487.00	89.540	327.050	7990.92	13365.15	9357.04	-10064.85	1740702.37	437755.27	39°41'56.5707"N	80°18'34.5784"W	13742.46	312.913	0.74
20581.00	89.020	326.200	7992.10	13459.14	9435.53	-10116.55	1740650.66	437833.75	39°41'57.3418"N	80°18'35.2490"W	13833.79	313.005	1.06
20676.00	88.650	326.110	7994.03	13554.12	9514.41	-10169.45	1740597.77	437912.63	39°41'58.1166"N	80°18'35.9348"W	13926.30	313.094	0.40
20772.00	88.240	325.940	7996.64	13650.08	9593.99	-10223.08	1740544.14	437992.21	39°41'58.8983"N	80°18'36.6301"W	14019.85	313.182	0.46
20867.00	88.490	326.080	7999.35	13745.04	9672.73	-10276.17	1740491.06	438070.94	39°41'59.6717"N	80°18'37.3183"W	14112.45	313.267	0.30
20961.00	88.150	325.740	8002.11	13839.00	9750.54	-10328.83	1740438.40	438148.75	39°42'0.4360"N	80°18'38.0011"W	14204.15	313.350	0.51
21056.00	88.060	326.100	8005.25	13933.94	9829.18	-10382.04	1740385.20	438227.38	39°42'1.2084"N	80°18'38.6908"W	14296.84	313.433	0.39
21152.00	87.230	325.660	8009.19	14029.86	9908.59	-10435.84	1740331.40	438306.79	39°42'1.9883"N	80°18'39.3883"W	14390.51	313.515	0.98
21246.00	88.800	326.810	8012.45	14123.80	9986.68	-10488.05	1740279.19	438384.88	39°42'2.7554"N	80°18'40.0652"W	14482.16	313.597	2.07
21341.00	86.520	324.960	8016.33	14218.70	10065.26	-10541.28	1740225.96	438463.45	39°42'3.5272"N	80°18'40.7553"W	14574.91	313.677	3.09
21436.00	87.510	326.420	8021.27	14313.57	10143.62	-10594.75	1740172.49	438541.81	39°42'4.2968"N	80°18'41.4485"W	14667.72	313.754	1.86
21530.00	87.450	325.910	8025.41	14407.47	10221.63	-10647.04	1740120.21	438619.81	39°42'5.0630"N	80°18'42.1265"W	14759.44	313.832	0.55
21624.00	87.510	326.010	8029.54	14501.38	10299.45	-10699.61	1740067.64	438697.62	39°42'5.8274"N	80°18'42.8080"W	14851.27	313.908	0.12
21720.00	87.110	325.750	8034.05	14597.27	10378.83	-10753.40	1740013.86	438777.00	39°42'6.6071"N	80°18'43.5053"W	14945.09	313.985	0.50
21814.00	87.230	325.860	8038.69	14691.15	10456.49	-10806.16	1739961.10	438854.65	39°42'7.3698"N	80°18'44.1894"W	15037.00	314.058	0.17
21908.00	87.320	325.910	8043.16	14785.04	10534.22	-10858.82	1739908.44	438932.38	39°42'8.1333"N	80°18'44.8721"W	15128.91	314.131	0.11
22003.00	88.550	326.050	8046.58	14879.98	10612.91	-10911.94	1739855.33	439011.07	39°42'8.9062"N	80°18'45.5607"W	15221.84	314.204	1.30
22098.00	88.950	326.240	8048.65	14974.95	10691.79	-10964.85	1739802.42	439089.93	39°42'9.6809"N	80°18'46.2468"W	15314.77	314.278	0.47
22193.00	88.800	325.850	8050.52	15069.93	10770.57	-11017.90	1739749.37	439168.71	39°42'10.4548"N	80°18'46.9346"W	15407.77	314.350	0.44
22288.00	88.250	324.950	8052.96	15164.89	10848.74	-11071.83	1739695.45	439246.88	39°42'11.2225"N	80°18'47.6336"W	15500.99	314.417	1.11
22382.00	88.860	325.420	8055.33	15258.84	10925.89	-11125.48	1739641.80	439324.02	39°42'11.9801"N	80°18'48.3289"W	15593.31	314.481	0.82
22477.00	89.720	326.230	8056.51	15353.82	11004.48	-11178.84	1739588.45	439402.61	39°42'12.7520"N	80°18'49.0207"W	15686.46	314.550	1.24
22571.00	88.280	325.510	8058.15	15447.80	11082.27	-11231.57	1739535.72	439480.40	39°42'13.5161"N	80°18'49.7044"W	15778.62	314.617	1.71
22665.00	89.260	325.900	8060.17	15541.77	11159.91	-11284.52	1739482.77	439558.03	39°42'14.2786"N	80°18'50.3908"W	15870.85	314.682	1.12

WELLPATH DATA (335 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
22759.00	88.580	325.210	8061.94	15635.74	11237.42	-11337.68	1739429.61	439635.53	39°42'15.0397"N	80°18'51.0799"W	15963.16	314.746	1.03
22854.00	90.030	325.730	8063.09	15730.72	11315.67	-11391.52	1739375.77	439713.78	39°42'15.8083"N	80°18'51.7779"W	16056.50	314.809	1.62
22949.00	89.970	325.780	8063.09	15825.72	11394.20	-11444.98	1739322.32	439792.31	39°42'16.5796"N	80°18'52.4710"W	16149.78	314.873	0.08
23043.00	91.940	326.320	8061.53	15919.70	11472.16	-11497.47	1739269.83	439870.27	39°42'17.3453"N	80°18'53.1515"W	16241.99	314.937	2.17
23138.00	90.430	326.320	8059.56	16014.67	11551.20	-11550.14	1739217.17	439949.30	39°42'18.1216"N	80°18'53.8346"W	16335.11	315.003	1.59
23233.00	90.650	326.340	8058.67	16109.67	11630.26	-11602.80	1739164.50	440028.35	39°42'18.8982"N	80°18'54.5176"W	16428.27	315.068	0.23
23328.00	90.430	326.150	8057.77	16204.67	11709.24	-11655.59	1739111.72	440107.33	39°42'19.6740"N	80°18'55.2021"W	16521.47	315.132	0.31
23422.00	90.000	326.610	8057.42	16298.66	11787.52	-11707.63	1739059.68	440185.60	39°42'20.4429"N	80°18'55.8770"W	16613.67	315.195	0.67
23517.00	89.970	327.100	8057.44	16393.66	11867.06	-11759.57	1739007.74	440265.14	39°42'21.2243"N	80°18'56.5508"W	16706.72	315.261	0.52
23612.00	89.850	326.510	8057.59	16488.66	11946.55	-11811.58	1738955.73	440344.63	39°42'22.0052"N	80°18'57.2255"W	16799.81	315.325	0.63
23707.00	90.000	327.260	8057.72	16583.65	12026.12	-11863.48	1738903.84	440424.19	39°42'22.7869"N	80°18'57.8988"W	16892.90	315.390	0.81
23801.00	90.800	326.100	8057.06	16677.65	12104.67	-11915.12	1738852.21	440502.73	39°42'23.5585"N	80°18'58.5686"W	16985.08	315.452	1.50
23896.00	90.710	326.070	8055.81	16772.64	12183.50	-11968.12	1738799.21	440581.56	39°42'24.3328"N	80°18'59.2559"W	17078.45	315.511	0.10
23991.00	90.830	326.340	8054.53	16867.63	12262.44	-12020.96	1738746.38	440660.49	39°42'25.1081"N	80°18'59.9411"W	17171.80	315.570	0.31
24086.00	91.230	326.190	8052.82	16962.61	12341.43	-12073.71	1738693.63	440739.48	39°42'25.8840"N	80°19'0.6252"W	17265.15	315.628	0.45
24180.00	91.450	326.050	8050.62	17056.59	12419.45	-12126.09	1738641.25	440817.49	39°42'26.6503"N	80°19'1.3045"W	17357.56	315.685	0.28

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WV Department of Environmental Protection

Actual Wellpath Report

ERP 11H AWP PROJ: 30209'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 11H
Field	Monongalia	UWI	47-061-020130000
Facility	ERP Pad	Wellbore	ERP 11H AWP
Slot	11H		

WELLPATH DATA (335 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
24275.00	91.630	326.290	8048.07	17151.55	12498.34	-12178.96	1738588.38	440896.37	39°42'27.4252"N	80°19'1.9901"W	17450.95	315.741	0.32
24370.00	91.630	326.440	8045.37	17246.51	12577.40	-12231.56	1738535.78	440975.43	39°42'28.2018"N	80°19'2.6723"W	17544.29	315.799	0.16
24464.00	91.660	326.450	8042.67	17340.47	12655.70	-12283.50	1738483.85	441053.73	39°42'28.9709"N	80°19'3.3460"W	17636.64	315.855	0.03
24559.00	92.370	326.170	8039.33	17435.41	12734.70	-12336.16	1738431.19	441132.72	39°42'29.7468"N	80°19'4.0290"W	17730.01	315.911	0.80
24653.00	92.370	326.250	8035.44	17529.33	12812.75	-12388.39	1738378.96	441210.77	39°42'30.5135"N	80°19'4.7064"W	17822.43	315.965	0.09
24748.00	92.370	326.230	8031.52	17624.25	12891.66	-12441.14	1738326.22	441289.68	39°42'31.2886"N	80°19'5.3905"W	17915.83	316.019	0.02
24843.00	92.430	326.230	8027.54	17719.17	12970.57	-12493.90	1738273.46	441368.58	39°42'32.0636"N	80°19'6.0747"W	18009.25	316.072	0.06
24938.00	92.400	326.250	8023.53	17814.08	13049.48	-12546.65	1738220.72	441447.48	39°42'32.8387"N	80°19'6.7588"W	18102.69	316.125	0.04
25033.00	92.250	326.110	8019.68	17909.01	13128.34	-12599.48	1738167.89	441526.34	39°42'33.6132"N	80°19'7.4440"W	18196.16	316.178	0.22
25128.00	92.460	326.420	8015.78	18003.92	13207.27	-12652.19	1738115.18	441605.27	39°42'34.3886"N	80°19'8.1277"W	18289.62	316.230	0.39
25222.00	92.680	326.780	8011.56	18097.83	13285.67	-12703.89	1738063.49	441683.66	39°42'35.1587"N	80°19'8.7982"W	18382.00	316.282	0.45
25316.00	92.710	326.030	8007.14	18191.72	13363.88	-12755.84	1738011.54	441761.87	39°42'35.9269"N	80°19'9.4721"W	18474.44	316.334	0.80
25412.00	92.710	326.620	8002.60	18287.62	13443.68	-12809.01	1737958.37	441841.66	39°42'36.7107"N	80°19'10.1618"W	18568.88	316.385	0.61
25506.00	92.830	326.620	7998.06	18381.51	13522.09	-12860.67	1737906.71	441920.06	39°42'37.4809"N	80°19'10.8319"W	18661.29	316.436	0.13
25601.00	93.360	325.300	7992.93	18476.36	13600.69	-12913.77	1737853.62	441998.66	39°42'38.2529"N	80°19'11.5205"W	18754.84	316.484	1.50
25696.00	93.880	326.320	7986.93	18571.17	13679.11	-12967.05	1737800.34	442077.08	39°42'39.0231"N	80°19'12.2113"W	18848.41	316.531	1.20
25791.00	92.460	326.250	7981.68	18666.02	13758.01	-13019.69	1737747.70	442155.97	39°42'39.7981"N	80°19'12.8942"W	18941.89	316.579	1.50
25886.00	92.370	326.100	7977.68	18760.93	13836.86	-13072.53	1737694.87	442234.82	39°42'40.5725"N	80°19'13.5795"W	19035.49	316.627	0.18
25981.00	92.800	326.290	7973.39	18855.84	13915.72	-13125.33	1737642.07	442313.67	39°42'41.3471"N	80°19'14.2643"W	19129.08	316.674	0.49
26075.00	91.570	326.200	7969.81	18949.77	13993.82	-13177.52	1737589.88	442391.76	39°42'42.1141"N	80°19'14.9412"W	19221.71	316.721	1.31
26170.00	91.660	326.390	7967.13	19044.73	14072.82	-13230.22	1737537.19	442470.76	39°42'42.8901"N	80°19'15.6247"W	19315.35	316.768	0.22
26265.00	91.660	326.470	7964.38	19139.69	14151.94	-13282.73	1737484.68	442549.88	39°42'43.6672"N	80°19'16.3059"W	19408.97	316.815	0.08
26360.00	91.230	326.330	7961.98	19234.66	14231.04	-13335.28	1737432.13	442628.97	39°42'44.4442"N	80°19'16.9876"W	19502.62	316.861	0.48
26455.00	91.450	326.490	7959.76	19329.63	14310.15	-13387.83	1737379.59	442708.08	39°42'45.2213"N	80°19'17.6692"W	19596.29	316.907	0.29
26549.00	90.710	325.950	7957.99	19423.61	14388.27	-13440.08	1737327.34	442786.19	39°42'45.9886"N	80°19'18.3470"W	19689.04	316.951	0.97
26644.00	90.890	326.390	7956.66	19518.60	14467.18	-13492.97	1737274.46	442865.10	39°42'46.7636"N	80°19'19.0329"W	19782.81	316.996	0.50
26739.00	90.890	326.260	7955.19	19613.59	14546.23	-13545.63	1737221.79	442944.14	39°42'47.5400"N	80°19'19.7161"W	19876.54	317.040	0.14
26834.00	90.950	325.770	7953.66	19708.58	14624.99	-13598.73	1737168.70	443022.90	39°42'48.3136"N	80°19'20.4047"W	19970.37	317.082	0.52
26929.00	91.230	326.340	7951.85	19803.56	14703.78	-13651.77	1737115.66	443101.69	39°42'49.0875"N	80°19'21.0926"W	20064.20	317.125	0.67

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WELLPATH DATA (335 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
27024.00	91.020	326.110	7949.99	19898.54	14782.74	-13704.57	1737062.86	443180.64	39°42'49.8629"N	80°19'21.7775"W	20157.99	317.167	0.33
27118.00	90.890	326.020	7948.42	19992.53	14860.71	-13757.04	1737010.40	443258.61	39°42'50.6288"N	80°19'22.4580"W	20250.85	317.209	0.17
27212.00	91.230	327.260	7946.68	20086.51	14939.21	-13808.72	1736958.72	443337.10	39°42'51.3998"N	80°19'23.1285"W	20343.57	317.252	1.37
27307.00	90.800	327.160	7945.00	20181.48	15019.06	-13860.16	1736907.28	443416.95	39°42'52.1843"N	80°19'23.7961"W	20437.13	317.298	0.46
27401.00	90.490	327.180	7943.94	20275.47	15098.04	-13911.12	1736856.33	443495.92	39°42'52.9602"N	80°19'24.4574"W	20529.74	317.343	0.33
27496.00	90.650	327.150	7943.00	20370.45	15177.86	-13962.63	1736804.82	443575.74	39°42'53.7443"N	80°19'25.1259"W	20623.35	317.388	0.17
27591.00	90.740	327.370	7941.84	20465.43	15257.76	-14014.00	1736753.45	443655.63	39°42'54.5293"N	80°19'25.7927"W	20716.94	317.433	0.25
27686.00	90.650	327.130	7940.69	20560.42	15337.66	-14065.39	1736702.07	443735.52	39°42'55.3141"N	80°19'26.4596"W	20810.55	317.478	0.27
27781.00	90.680	327.400	7939.59	20655.40	15417.56	-14116.76	1736650.70	443815.42	39°42'56.0992"N	80°19'27.1263"W	20904.17	317.522	0.29
27876.00	90.650	327.010	7938.49	20750.38	15497.42	-14168.21	1736599.25	443895.27	39°42'56.8836"N	80°19'27.7941"W	20997.81	317.565	0.41
27971.00	90.550	327.280	7937.49	20845.37	15577.21	-14219.75	1736547.72	443975.07	39°42'57.6676"N	80°19'28.4629"W	21091.49	317.608	0.30
28064.00	90.620	327.270	7936.54	20938.35	15655.45	-14270.02	1736497.45	444053.30	39°42'58.4361"N	80°19'29.1154"W	21183.17	317.651	0.08
28159.00	90.740	327.260	7935.42	21033.33	15735.36	-14321.39	1736446.08	444133.20	39°42'59.2212"N	80°19'29.7821"W	21276.83	317.693	0.13
28254.00	90.650	327.350	7934.26	21128.31	15815.30	-14372.70	1736394.77	444213.13	39°43'0.0065"N	80°19'30.4481"W	21370.50	317.736	0.13
28349.00	90.710	327.380	7933.14	21223.29	15895.29	-14423.93	1736343.55	444293.13	39°43'0.7924"N	80°19'31.1131"W	21464.16	317.778	0.07
28443.00	90.550	327.140	7932.10	21317.27	15974.36	-14474.76	1736292.72	444372.18	39°43'1.5691"N	80°19'31.7729"W	21556.87	317.819	0.31

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Actual Wellpath Report

ERP 11H AWP PROJ: 30209'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 11H
Field	Monongalia	UWI	47-061-020130000
Facility	ERP Pad	Wellbore	ERP 11H AWB
Slot	11H		

WELLPATH DATA (335 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
28537.00	90.460	326.200	7931.27	21411.27	16052.89	-14526.41	1736241.07	444450.71	39°43'2.3405"N	80°19'32.4430"W	21649.76	317.858	1.00
28632.00	89.970	325.910	7930.92	21506.27	16131.70	-14579.46	1736188.03	444529.52	39°43'3.1145"N	80°19'33.1311"W	21743.79	317.893	0.60
28726.00	89.970	326.130	7930.97	21600.26	16209.65	-14632.00	1736135.50	444607.46	39°43'3.8801"N	80°19'33.8126"W	21836.85	317.928	0.23
28820.00	90.180	326.260	7930.84	21694.26	16287.76	-14684.29	1736083.20	444685.56	39°43'4.6472"N	80°19'34.4910"W	21929.88	317.964	0.26
28915.00	90.120	326.070	7930.59	21789.26	16366.67	-14737.19	1736030.31	444764.47	39°43'5.4222"N	80°19'35.1772"W	22023.91	317.999	0.21
29009.00	90.030	326.110	7930.47	21883.26	16444.68	-14789.63	1735977.87	444842.48	39°43'6.1884"N	80°19'35.8574"W	22116.98	318.033	0.10
29105.00	90.120	326.240	7930.35	21979.26	16524.43	-14843.07	1735924.43	444922.22	39°43'6.9717"N	80°19'36.5507"W	22212.01	318.068	0.16
29199.00	90.370	326.290	7929.94	22073.26	16602.60	-14895.27	1735872.23	445000.39	39°43'7.7394"N	80°19'37.2279"W	22305.06	318.103	0.27
29294.00	91.140	326.040	7928.69	22168.25	16681.50	-14948.16	1735819.35	445079.29	39°43'8.5144"N	80°19'37.9140"W	22399.11	318.137	0.85
29390.00	90.030	326.100	7927.71	22264.24	16761.15	-15001.75	1735765.77	445158.93	39°43'9.2966"N	80°19'38.6091"W	22494.19	318.170	1.16
29488.00	90.370	326.080	7927.37	22362.24	16842.48	-15056.42	1735711.10	445240.26	39°43'10.0954"N	80°19'39.3183"W	22591.26	318.205	0.35
29585.00	89.480	325.710	7927.50	22459.23	16922.80	-15110.81	1735656.71	445320.57	39°43'10.8841"N	80°19'40.0238"W	22687.39	318.238	0.99
29683.00	88.710	325.890	7929.04	22557.22	17003.84	-15165.88	1735601.64	445401.61	39°43'11.6800"N	80°19'40.7382"W	22784.53	318.270	0.81
29776.00	87.910	326.060	7931.79	22650.17	17080.89	-15217.90	1735549.63	445478.64	39°43'12.4367"N	80°19'41.4129"W	22876.65	318.301	0.88
29871.00	88.030	326.180	7935.15	22745.11	17159.71	-15270.82	1735496.71	445557.46	39°43'13.2108"N	80°19'42.0995"W	22970.71	318.333	0.18
29964.00	87.910	325.890	7938.45	22838.05	17236.79	-15322.75	1735444.78	445634.54	39°43'13.9678"N	80°19'42.7731"W	23062.82	318.364	0.34
30057.00	87.780	325.820	7941.94	22930.98	17313.70	-15374.91	1735392.62	445711.45	39°43'14.7232"N	80°19'43.4497"W	23154.96	318.394	0.16
30150.00	87.850	325.710	7945.49	23023.91	17390.53	-15427.20	1735340.34	445788.27	39°43'15.4777"N	80°19'44.1278"W	23247.13	318.424	0.14
30184.00	87.910	325.680	7946.75	23057.88	17418.60	-15446.34	1735321.20	445816.34	39°43'15.7533"N	80°19'44.3762"W	23280.83	318.434	0.20
30209.00‡	87.910	325.680	7947.66	23082.87	17439.23	-15460.43	1735307.11	445836.97	39°43'15.9559"N	80°19'44.5589"W	23305.62	318.442	0.00

Actual Wellpath Report

ERP 11H AWP PROJ: 30209'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 11H
Field	Monongalia	UWI	47-061-020130000
Facility	ERP Pad	Wellbore	ERP 11H AWB
Slot	11H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
ERP 11H BHL Rev-0	7975.00	14478.53	-13942.08	1736825.37	442876.45	39°42'46.8351"N	80°19'24.7810"W	point
ERP 11H LP Rev-0	7975.00	-1867.44	-3088.90	1747677.89	426531.48	39°40'6.2568"N	80°17'4.0801"W	point
ERP 11H LP Rev-1	7975.00	-324.84	-3641.21	1747125.61	428073.98	39°40'21.4538"N	80°17'11.3156"W	point
ERP 11H LP Rev-2	7975.00	-125.00	-3774.12	1746992.71	428273.80	39°40'23.4172"N	80°17'13.0376"W	point
ERP 11H BHL Rev 4	7990.00	17441.97	-15457.38	1735310.16	445839.71	39°43'15.9833"N	80°19'44.5202"W	point
ERP 11H LP Rev 5	7990.00	122.64	-3938.67	1746828.17	428521.43	39°40'25.8502"N	80°17'15.1697"W	point
ERP 11H BHL Rev 3	8062.00	17441.97	-15457.38	1735310.16	445839.71	39°43'15.9833"N	80°19'44.5202"W	point
ERP 11H LP Rev 4	8062.00	122.64	-3938.67	1746828.17	428521.43	39°40'25.8502"N	80°17'15.1697"W	point
ERP 11H BHL Rev-1	8087.00	18880.69	-16414.23	1734353.37	447278.34	39°43'30.1137"N	80°19'56.9357"W	point
ERP 11H LP Rev-3	8087.00	286.22	-4047.62	1746719.23	428685.00	39°40'27.4574"N	80°17'16.5813"W	point
ERP Pad Hardline #1 (9.9.21)	8525.00	1006.34	125.46	1750892.05	429405.08	39°40'34.9323"N	80°16'23.2927"W	polygon
	2D Polygon:: dimensions not calculated							
ERP Pad Hardline #2 (9.9.21)	8525.00	1358.66	1225.17	1751991.69	429757.38	39°40'38.5074"N	80°16'9.2672"W	polygon
	2D Polygon:: dimensions not calculated							

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TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
ERP Pad Hardline #3 (9.9.21)	8525.00	1383.59	1496.04	1752262.55	429782.30	39°40'38.7767"N	80°16'5.8056"W	polygon
2D Polygon:: dimensions not calculated								

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Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 11H
Field	Monongalia	UWI	47-061-020130000
Facility	ERP Pad	Wellbore	ERP 11H AWB
Slot	11H		

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
ERP Pad Hardline #4 (9.9.21)	8525.00	-4824.47	132.35	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	-10401.50	6473.43	1757239.64	417997.93	39°38'42.7257"N	80°15'0.8900"W	polygon
	2D Polygon:: dimensions not calculated							
ERP Pad Hardline #6 (9.9.21)	8525.00	-11105.17	6795.60	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	-12592.20	6355.85	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	-10852.55	5845.56	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	1006.34	125.46	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	11523.56	-7426.43	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	11928.22	-6409.85	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	11758.84	-6307.63	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	11578.63	-6395.63	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	11015.04	-7065.04	1743701.99	439413.16	39°42'13.2212"N	80°17'56.3901"W	polygon
	2D Polygon:: dimensions not calculated							
ERP Hardline #6 (2.27.2025)	9525.00	8482.45	-2100.51	1748666.22	436880.73	39°41'48.6246"N	80°16'52.5921"W	polygon
	2D Polygon:: dimensions not calculated							

TARGETS	
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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)	10025.00	12310.35	-8149.67	1742617.43	440708.40	39°42'25.9265"N	80°18'10.4150"W	polygon
2D Polygon:: dimensions not calculated								

3708 41

38241



Actual Wellpath Report

ERP 11H AWP PROJ: 30209'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	ERP 11H
Field	Monongalia	UWI	47-061-020130000
Facility	ERP Pad	Wellbore	ERP 11H AWB
Slot	11H		

WELLPATH COMPOSITION - Ref Wellbore: ERP 11H AWB Ref Wellpath: ERP 11H AWP PROJ: 30209'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	1175.00	OWSG XYZ Accel with XY Static and Continuous Gyro rev1.1	1 Imported Gyro 50' - 1175'-	ERP 11H AWB	2026-01-15
1175.00	6445.00	OWSG MWD rev2 + HRGM	2 Imported AEP MWD HRGM 1352' - 6445'	ERP 11H AWB	2026-01-15
6445.00	30209.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	3 BH ATC Short spacing HRGM 8.5" 6561' - 30184'	ERP 11H AWB	2026-01-15