

NORTHEAST NATURAL ENERGY, LLC

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

Slot: Slot 01
Well: Phoenix 1H
Wellbore: Phoenix 1H PWB



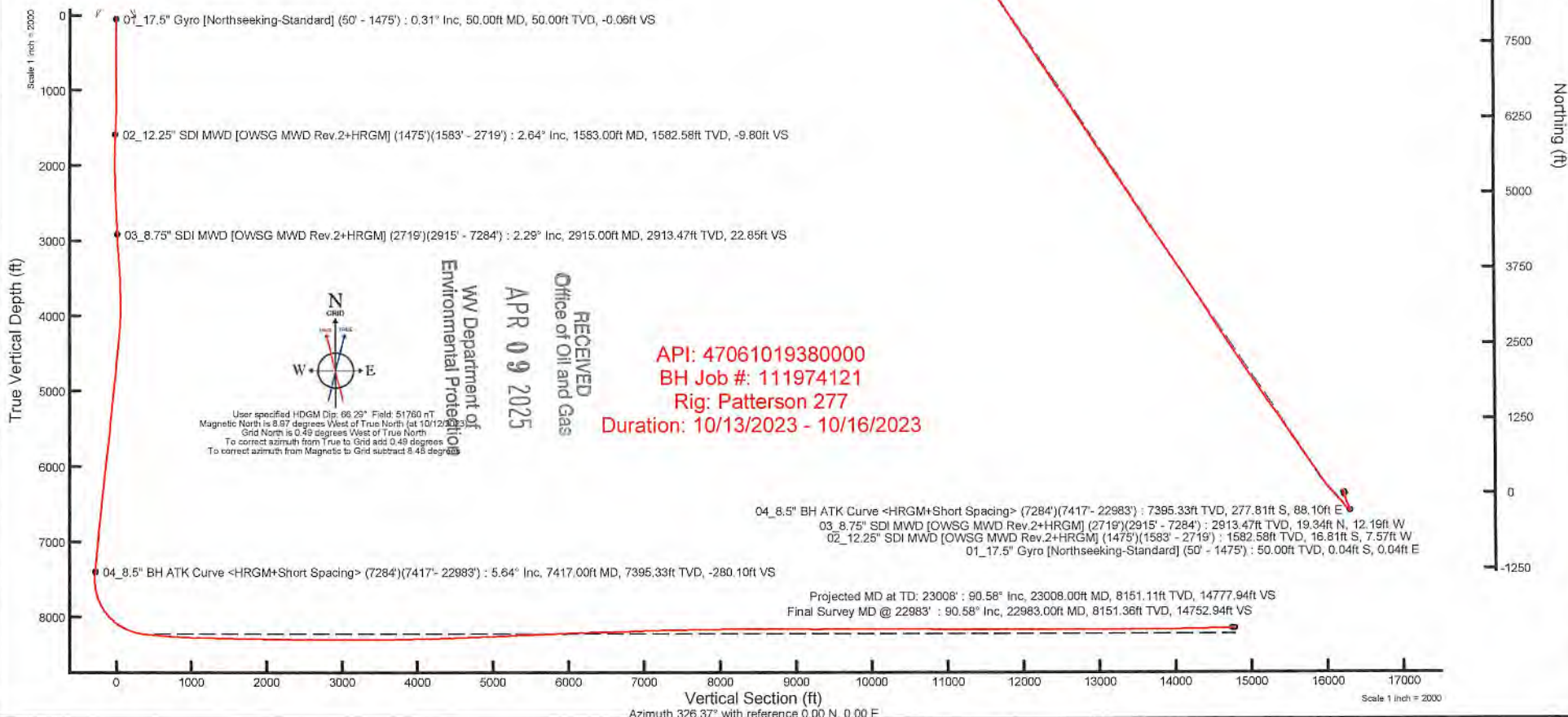
Scale 1 inch = 2500
Easting (ft)
-11250 -10000 -8750 -7500 -6250 -5000 -3750 -2500 -1250 0 1250

Full Wellbore Name (to be filled)	Wellbore Name (to be filled)
Wellbore Name (to be filled)	Wellbore Name (to be filled)
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Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Phoenix Pad	1751001.940	416616.940	39°28'28.5589"N	83°18'19.8414"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot 01	-4.28	-0.04	1751042.940	416612.660	39°28'28.5158"N
Patterson 277 (RKB) to Ground level (N Slot Slot 01)					288
Mean Sea Level to Ground level (N Slot Slot 01)					-1503R
Patterson 277 (RKB) to Mean Sea Level					1531R

Well Profile Data							
Design Comment	MD (ft)	Inc. (°)	Ac. (°)	TVD (ft)	Local N (ft)	Local E (ft)	Q15 (°/1000)
Tw On	7384.00	8.80	164.860	7269.98	-205.29	84.24	0.47
Projection	1458.00	4.570	192.660	7436.24	-280.61	88.76	0.48
Built Turn	8636.11	79.608	300.695	8216.66	189.49	-307.69	7.80
Landing Pt	9058.00	90.000	326.373	8228.00	274.94	-300.69	9.00
BH	23004.37	90.000	326.373	8228.00	12212.26	-832.45	0.00

Well Data			
Slot	Well	Wellbore	Wellpath
Slot 01	Phoenix 1H	Phoenix 1H AWB	Phoenix 1H AWP Proj. 23008'
Slot 01	Phoenix 1H	Phoenix 1H PWB	Phoenix 1H Rev-B.0



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Actual Wellpath Report

Phoenix 1H AWP Proj: 23008'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 1H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 1H AWB
Slot	Slot 01		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Manajohj
Scale	0.999941	Report Generated	10/18/2023 at 3:53:06 PM
Convergence at slot	0.49° West	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-4.28	-9.04	1751042.94	416612.66	39°38'28.5158"N	80°16'19.9565"W
Facility Reference Pt			1751051.98	416616.94	39°38'28.5589"N	80°16'19.8414"W
Field Reference Pt			1777685.71	440640.65	39°42'28.1140"N	80°10'41.6900"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 277 (RKB) to Facility Vertical Datum	1531.00ft
Horizontal Reference Pt	Slot	Patterson 277 (RKB) to Mean Sea Level	1531.00ft
Vertical Reference Pt	Patterson 277 (RKB)	Patterson 277 (RKB) to Ground Level at Slot (Slot 01)	28.00ft
MD Reference Pt	Patterson 277 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	326.37°

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Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 1H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 1H AWB
Slot	Slot 01		

WELLPATH DATA (258 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0.00†	0.000	133.300	0.00	-1531.00	0.00	0.00	0.00	1751042.94	416612.66	39°38'28.5158"N	80°16'19.9565"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	133.300	28.00	-1503.00	0.00	0.00	0.00	1751042.94	416612.66	39°38'28.5158"N	80°16'19.9565"W	0.00	0.000	0.00	0.00	0.00
50.00	0.310	133.300	50.00	-1481.00	-0.06	-0.04	0.04	1751042.98	416612.62	39°38'28.5154"N	80°16'19.9559"W	0.06	133.300	1.41	1.41	0.00
100.00	0.330	151.770	100.00	-1431.00	-0.33	-0.26	0.21	1751043.15	416612.40	39°38'28.5133"N	80°16'19.9538"W	0.33	141.139	0.21	0.04	36.94
150.00	0.040	129.630	150.00	-1381.00	-0.49	-0.40	0.29	1751043.23	416612.26	39°38'28.5119"N	80°16'19.9527"W	0.49	143.819	0.59	-0.58	-44.28
200.00	0.380	140.800	200.00	-1331.00	-0.67	-0.54	0.41	1751043.35	416612.12	39°38'28.5106"N	80°16'19.9512"W	0.68	142.716	0.68	0.68	22.34
250.00	0.120	48.710	250.00	-1281.00	-0.83	-0.63	0.55	1751043.49	416612.03	39°38'28.5096"N	80°16'19.9494"W	0.84	138.774	0.81	-0.52	-184.18
300.00	0.300	130.420	300.00	-1231.00	-0.95	-0.68	0.69	1751043.63	416611.98	39°38'28.5092"N	80°16'19.9476"W	0.97	134.564	0.61	0.36	163.42
350.00	0.150	335.690	350.00	-1181.00	-1.01	-0.71	0.77	1751043.71	416611.95	39°38'28.5089"N	80°16'19.9466"W	1.04	132.747	0.88	-0.30	-309.46
400.00	0.200	124.180	400.00	-1131.00	-1.03	-0.70	0.81	1751043.75	416611.96	39°38'28.5090"N	80°16'19.9461"W	1.07	130.683	0.67	0.10	296.98
450.00	0.170	298.970	450.00	-1081.00	-1.04	-0.71	0.82	1751043.76	416611.95	39°38'28.5089"N	80°16'19.9460"W	1.08	130.957	0.74	-0.06	349.58
500.00	0.160	137.040	500.00	-1031.00	-1.05	-0.73	0.80	1751043.74	416611.93	39°38'28.5087"N	80°16'19.9462"W	1.08	132.166	0.65	-0.02	-323.86
550.00	0.230	235.940	550.00	-981.00	-1.12	-0.83	0.77	1751043.71	416611.83	39°38'28.5077"N	80°16'19.9466"W	1.13	137.413	0.60	0.14	197.80
600.00	0.120	129.500	600.00	-931.00	-1.17	-0.92	0.72	1751043.66	416611.74	39°38'28.5068"N	80°16'19.9472"W	1.17	141.920	0.58	-0.22	-212.88
650.00	0.310	171.030	650.00	-881.00	-1.34	-1.09	0.78	1751043.72	416611.57	39°38'28.5051"N	80°16'19.9464"W	1.34	144.250	0.47	0.38	83.06
700.00	0.130	56.070	700.00	-831.00	-1.46	-1.19	0.85	1751043.79	416611.47	39°38'28.5041"N	80°16'19.9455"W	1.46	144.416	0.77	-0.36	-229.92
750.00	0.200	124.480	750.00	-781.00	-1.54	-1.21	0.97	1751043.91	416611.45	39°38'28.5040"N	80°16'19.9440"W	1.55	141.219	0.39	0.14	136.82
800.00	0.210	284.540	800.00	-731.00	-1.56	-1.24	0.95	1751043.89	416611.43	39°38'28.5037"N	80°16'19.9442"W	1.56	142.306	0.81	0.02	320.12
850.00	0.290	344.940	850.00	-681.00	-1.37	-1.09	0.83	1751043.77	416611.57	39°38'28.5051"N	80°16'19.9457"W	1.37	142.616	0.52	0.16	120.80
900.00	0.110	208.890	900.00	-631.00	-1.27	-1.01	0.78	1751043.72	416611.65	39°38'28.5059"N	80°16'19.9465"W	1.27	142.431	0.75	-0.86	-272.10
950.00	0.240	250.030	950.00	-581.00	-1.27	-1.09	0.66	1751043.60	416611.57	39°38'28.5052"N	80°16'19.9480"W	1.27	148.936	0.35	0.26	82.28
1000.00	0.080	251.640	1000.00	-531.00	-1.23	-1.13	0.52	1751043.46	416611.53	39°38'28.5047"N	80°16'19.9497"W	1.25	155.228	0.32	-0.32	3.22
1050.00	0.250	218.420	1049.99	-481.01	-1.26	-1.23	0.42	1751043.36	416611.43	39°38'28.5037"N	80°16'19.9510"W	1.30	161.048	0.38	0.34	-66.44
1100.00	0.310	283.700	1099.99	-431.01	-1.19	-1.28	0.22	1751043.16	416611.38	39°38'28.5032"N	80°16'19.9535"W	1.30	170.131	0.61	0.12	130.56
1150.00	0.260	283.150	1149.99	-381.01	-1.01	-1.23	-0.02	1751042.92	416611.43	39°38'28.5037"N	80°16'19.9566"W	1.23	180.864	0.10	-0.10	-1.10
1200.00	0.500	216.720	1199.99	-331.01	-1.00	-1.38	-0.26	1751042.88	416611.28	39°38'28.5022"N	80°16'19.9597"W	1.40	190.682	0.92	0.48	-132.86
1250.00	1.430	211.670	1249.99	-281.01	-0.34	-2.08	-0.72	1751042.22	416610.58	39°38'28.4952"N	80°16'19.9654"W	2.20	199.020	1.87	1.86	-10.10
1300.00	2.670	204.860	1299.95	-231.05	-0.20	-3.67	-1.53	1751041.41	416608.99	39°38'28.4795"N	80°16'19.9757"W	3.98	202.698	2.52	2.48	-13.62
1350.00	3.110	206.570	1349.89	-181.11	-0.49	-5.94	-2.63	1751040.31	416606.72	39°38'28.4569"N	80°16'19.9895"W	6.50	203.894	0.90	0.88	3.42
1400.00	3.030	201.770	1399.82	-131.18	-0.97	-8.38	-3.73	1751039.21	416604.28	39°38'28.4327"N	80°16'20.0032"W	9.17	203.983	0.54	-0.16	-9.60

2025
Environmental
Function

2025/10/08/29

Actual Wellpath Report

Phoenix 1H AWP Proj: 23008'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 1H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 1H AWB
Slot	Slot 01		

WELLPATH DATA (258 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
1450.00	2.900	202.450	1449.75	-81.25	-6.37	-10.78	-4.70	1751038.24	416601.89	39°38'28.4090"N	80°16'20.0154"W	11.76	203.570	0.27	-0.26	1.36
1475.00	3.070	204.440	1474.72	-56.28	-7.08	-11.97	-5.22	1751037.72	416600.69	39°38'28.3971"N	80°16'20.0219"W	13.06	203.560	0.80	0.68	7.96
1583.00	2.640	207.540	1582.58	51.58	-9.80	-16.81	-7.57	1751035.37	416595.85	39°38'28.3491"N	80°16'20.0514"W	18.43	204.235	0.42	-0.40	2.87
1771.00	0.970	218.840	1770.48	239.48	-12.37	-21.89	-10.57	1751032.37	416590.77	39°38'28.2987"N	80°16'20.0892"W	24.30	205.770	0.90	-0.89	6.01
1886.00	0.290	297.990	1885.48	334.48	-12.40	-22.40	-11.28	1751031.66	416590.26	39°38'28.2935"N	80°16'20.0983"W	25.08	206.734	1.01	-0.72	83.32
1961.00	0.900	358.940	1960.47	429.47	-11.56	-21.54	-11.51	1751031.43	416591.12	39°38'28.3020"N	80°16'20.1012"W	24.42	208.114	0.84	0.64	64.16
2056.00	0.840	7.530	2055.46	524.46	-10.41	-20.10	-11.43	1751031.51	416592.56	39°38'28.3162"N	80°16'20.1004"W	23.13	209.622	0.15	-0.06	9.04
2150.00	1.520	0.180	2149.44	618.44	-8.85	-18.17	-11.34	1751031.60	416594.49	39°38'28.3353"N	80°16'20.0994"W	21.42	211.955	0.74	0.72	-7.82
2245.00	2.240	1.810	2244.39	713.39	-6.29	-15.06	-11.28	1751031.66	416597.60	39°38'28.3661"N	80°16'20.0990"W	18.82	216.837	0.76	0.76	1.51
2340.00	2.900	0.510	2339.29	808.29	-2.79	-10.80	-11.21	1751031.73	416601.86	39°38'28.4082"N	80°16'20.0986"W	15.56	226.060	0.70	0.69	-1.16
2434.00	3.510	0.800	2433.15	902.15	1.56	-5.55	-11.15	1751031.79	416607.12	39°38'28.4601"N	80°16'20.0984"W	12.45	243.550	0.65	0.65	0.31
2529.00	3.960	357.670	2527.94	996.94	6.76	0.64	-11.24	1751031.70	416613.30	39°38'28.5212"N	80°16'20.1002"W	11.26	273.261	0.52	0.47	-3.29
2624.00	3.380	354.930	2622.75	1091.75	12.02	6.71	-11.62	1751031.32	416619.37	39°38'28.5811"N	80°16'20.1058"W	13.42	299.996	0.64	-0.61	-2.88
2719.00	2.340	356.030	2717.63	1186.63	16.17	11.43	-12.00	1751030.94	416624.09	39°38'28.6278"N	80°16'20.1112"W	16.57	313.608	1.10	-1.09	1.16
2915.00	2.290	1.260	2913.47	1382.47	32.85	19.34	-12.19	1751030.75	416632.00	39°38'28.7059"N	80°16'20.1145"W	22.86	327.770	0.11	-0.03	2.67
3010.00	2.900	340.440	3008.37	1477.37	26.74	23.50	-12.96	1751029.99	416636.16	39°38'28.7470"N	80°16'20.1247"W	26.84	331.134	1.17	0.64	-21.92
3104.00	4.160	322.040	3102.20	1571.20	32.45	28.43	-15.85	1751027.09	416641.09	39°38'28.7955"N	80°16'20.1622"W	32.55	330.862	1.79	1.34	-19.57
3199.00	4.800	314.510	3196.91	1665.91	39.77	33.93	-20.80	1751022.14	416646.59	39°38'28.8494"N	80°16'20.2261"W	39.80	328.490	0.91	0.67	-7.93
3294.00	3.420	313.720	3291.66	1760.66	46.43	38.68	-25.69	1751017.26	416651.34	39°38'28.8959"N	80°16'20.2891"W	46.43	326.413	1.45	-1.45	-0.83
3389.00	3.300	313.000	3386.50	1855.50	51.85	42.50	-29.73	1751013.21	416655.16	39°38'28.9333"N	80°16'20.3412"W	51.87	325.024	0.13	-0.13	-0.76
3484.00	3.240	313.810	3481.34	1950.34	57.14	46.22	-33.67	1751009.27	416658.88	39°38'28.9698"N	80°16'20.3920"W	57.19	323.930	0.08	-0.06	0.85
3579.00	1.590	310.630	3576.25	2045.25	61.02	48.94	-36.61	1751006.33	416661.60	39°38'28.9964"N	80°16'20.4298"W	61.12	323.204	1.74	-1.74	-3.35
3673.00	1.330	288.550	3670.22	2139.22	63.14	50.14	-38.63	1751004.31	416662.79	39°38'29.0081"N	80°16'20.4558"W	63.29	322.385	0.65	-0.28	-23.49
3768.00	1.160	286.540	3765.20	2234.20	64.75	50.76	-40.60	1751002.34	416663.42	39°38'29.0141"N	80°16'20.4810"W	65.00	321.348	0.18	-0.18	-2.12
3866.00	0.700	271.280	3863.19	2332.19	65.86	51.06	-42.15	1751000.79	416663.71	39°38'29.0168"N	80°16'20.5009"W	66.21	320.480	0.53	-0.47	-15.57
3961.00	0.540	182.780	3958.18	2427.18	65.83	50.62	-42.75	1751000.19	416663.28	39°38'29.0125"N	80°16'20.5085"W	66.26	319.820	0.92	-0.17	-93.16
4056.00	2.480	143.650	4053.15	2522.15	63.41	48.52	-41.55	1751001.39	416661.18	39°38'28.9918"N	80°16'20.4930"W	63.88	319.423	2.20	2.04	-41.19
4151.00	3.950	152.610	4148.00	2617.00	58.11	43.96	-38.83	1751004.11	416656.62	39°38'28.9470"N	80°16'20.4577"W	58.65	318.546	1.63	1.55	9.43
4245.00	5.630	155.340	4241.67	2710.67	50.33	36.89	-35.42	1751007.53	416649.55	39°38'28.8774"N	80°16'20.4133"W	51.14	316.171	1.80	1.79	2.90
4340.00	6.030	154.650	4336.17	2805.17	40.79	28.15	-31.84	1751011.61	416640.81	39°38'28.7914"N	80°16'20.3601"W	42.12	311.935	0.43	0.42	-0.73

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Phoenix 1H AWP Proj: 23008'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 1H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 1H AWB
Slot	Slot 01		

WELLPATH DATA (258 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
4435.00	5.800	155.540	4430.67	2899.67	31.12	19.27	-27.21	1751015.73	418631.93	39°38'28.7040"N	80°16'20.3065"W	33.34	305.306	0.26	-0.24	0.94
4529.00	5.490	162.010	4524.21	2993.21	22.10	10.67	-23.86	1751019.09	418623.33	39°38'28.6193"N	80°16'20.2626"W	26.13	294.100	0.75	-0.33	6.88
4623.00	6.060	161.930	4617.74	3086.74	12.99	1.68	-20.93	1751022.01	418614.34	39°38'28.5306"N	80°16'20.2242"W	21.00	274.582	0.61	0.61	-0.09
4718.00	6.110	160.380	4712.20	3181.20	3.25	-7.85	-17.68	1751025.27	418604.81	39°38'28.4367"N	80°16'20.1816"W	19.34	246.047	0.18	0.05	-1.63
4816.00	6.170	155.480	4809.64	3278.64	-7.01	-17.56	-13.74	1751029.20	418595.10	39°38'28.3412"N	80°16'20.1302"W	22.28	218.045	0.54	0.06	-5.00
4911.00	5.590	149.450	4904.14	3373.14	-16.67	-26.19	-9.27	1751033.67	418586.48	39°38'28.2563"N	80°16'20.0721"W	27.78	199.490	0.89	-0.61	-6.35
5005.00	6.280	153.430	4997.64	3466.64	-26.34	-34.73	-4.64	1751038.30	418577.94	39°38'28.1723"N	80°16'20.0120"W	35.04	187.612	0.85	0.73	4.23
5100.00	6.260	154.710	5092.07	3561.07	-36.63	-44.06	-0.10	1751042.84	418568.61	39°38'28.0804"N	80°16'19.9530"W	44.06	180.136	0.15	-0.02	1.35
5195.00	5.180	147.430	5186.59	3655.59	-46.04	-52.35	4.42	1751047.36	418560.31	39°38'27.9988"N	80°16'19.8943"W	52.54	175.177	1.37	-1.14	-7.66
5289.00	5.940	150.460	5280.15	3749.15	-55.13	-60.16	9.10	1751052.04	418552.50	39°38'27.9221"N	80°16'19.8336"W	60.85	171.399	0.87	0.81	3.22
5384.00	6.110	153.230	5374.63	3843.63	-65.06	-68.95	13.80	1751056.74	418543.71	39°38'27.8356"N	80°16'19.7725"W	70.32	168.682	0.35	0.18	2.92
5479.00	6.100	153.610	5469.09	3938.09	-75.08	-77.99	18.32	1751061.26	418534.68	39°38'27.7467"N	80°16'19.7137"W	80.11	166.780	0.04	-0.01	0.40
5574.00	6.390	166.840	5563.53	4032.53	-85.04	-87.66	21.77	1751064.71	418525.01	39°38'27.6514"N	80°16'19.6686"W	90.32	166.054	1.54	0.31	13.93
5668.00	7.370	170.750	5656.85	4125.85	-95.44	-98.70	23.93	1751066.87	418513.96	39°38'27.5424"N	80°16'19.6398"W	101.56	166.373	1.15	1.04	4.16
5763.00	7.260	165.610	5751.08	4220.08	-106.65	-110.53	26.40	1751069.34	418502.14	39°38'27.4258"N	80°16'19.6069"W	113.64	166.567	0.70	-0.12	-5.41
5861.00	6.650	162.250	5848.36	4317.36	-117.96	-121.93	29.67	1751072.61	418490.73	39°38'27.3133"N	80°16'19.5639"W	125.49	166.325	0.75	-0.62	-3.43
5956.00	7.040	162.340	5942.68	4411.68	-128.84	-132.72	33.11	1751076.05	418479.95	39°38'27.2070"N	80°16'19.5187"W	136.79	165.992	0.41	0.41	0.09
6051.00	6.790	159.990	6036.99	4505.99	-139.90	-143.54	36.80	1751079.74	418469.12	39°38'27.1004"N	80°16'19.4703"W	148.19	165.621	0.40	-0.26	-2.47
6145.00	6.610	156.570	6130.35	4599.35	-150.63	-153.73	40.85	1751083.79	418458.94	39°38'27.0001"N	80°16'19.4174"W	159.07	165.118	0.47	-0.19	-3.64
6240.00	6.280	151.420	6224.75	4693.75	-161.18	-163.31	45.51	1751088.45	418449.36	39°38'26.9058"N	80°16'19.3588"W	169.53	164.428	0.70	-0.35	-5.42
6335.00	6.500	158.630	6319.16	4788.16	-171.61	-172.88	49.96	1751092.89	418439.79	39°38'26.8116"N	80°16'19.2989"W	179.95	163.882	0.88	0.23	7.59
6430.00	6.140	155.220	6413.58	4882.58	-181.89	-182.50	54.05	1751096.98	418430.17	39°38'26.7169"N	80°16'19.2456"W	190.33	163.504	0.55	-0.38	-3.59
6524.00	5.280	151.450	6507.12	4976.12	-191.16	-190.86	58.22	1751101.16	418421.81	39°38'26.6346"N	80°16'19.1913"W	199.55	163.036	1.00	-0.91	-4.01
6619.00	6.010	150.970	6601.65	5070.65	-200.47	-199.05	62.72	1751105.66	418413.62	39°38'26.5540"N	80°16'19.1329"W	208.70	162.510	0.77	0.77	-0.51
6713.00	6.590	162.290	6695.09	5164.09	-210.57	-208.49	66.75	1751109.69	418404.18	39°38'26.4611"N	80°16'19.0803"W	218.92	162.247	1.46	0.62	12.04
6808.00	6.390	161.520	6789.48	5258.48	-220.91	-218.70	70.09	1751113.02	418393.97	39°38'26.3605"N	80°16'19.0366"W	229.66	162.231	0.23	-0.21	-0.81
6906.00	6.120	161.190	6886.90	5355.90	-231.23	-228.82	73.50	1751116.43	418383.86	39°38'26.2608"N	80°16'18.9919"W	240.33	162.192	0.28	-0.28	-0.34
7000.00	5.250	162.120	6980.43	5449.43	-240.21	-237.65	76.43	1751119.37	418375.02	39°38'26.1737"N	80°16'18.9534"W	249.64	162.171	0.93	-0.93	0.99
7095.00	5.880	162.660	7074.99	5543.99	-249.06	-246.44	79.22	1751122.15	418366.24	39°38'26.0872"N	80°16'18.9168"W	258.86	162.179	0.67	0.66	0.57
7190.00	6.080	166.350	7169.47	5638.47	-258.46	-255.97	81.86	1751124.79	418356.71	39°38'25.9932"N	80°16'18.8821"W	268.74	162.266	0.46	0.21	3.88

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Actual Wellpath Report

Phoenix 1H AWP Proj: 23008'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 1H
Field	Monangalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 1H AWB
Slot	Slot 01		

WELLPATH DATA (258 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
7284.00	5.670	164.860	7262.98	5731.98	-267.54	-265.29	84.24	1751127.18	416347.39	39°38'25.9013"N	80°16'18.8505"W	278.34	162.382	0.47	-0.44	-1.59
7417.00	5.640	160.900	7395.33	5864.33	-280.10	-277.81	88.10	1751131.03	416334.87	39°38'25.7779"N	80°16'18.7999"W	291.44	162.405	0.29	-0.02	-2.98
7511.00	4.270	229.700	7489.05	5958.05	-284.98	-284.44	86.94	1751129.88	416328.24	39°38'25.7122"N	80°16'18.8139"W	297.43	163.004	6.07	-1.46	73.19
7605.00	7.690	290.090	7582.60	6051.60	-280.32	-284.54	78.36	1751121.29	416328.13	39°38'25.7105"N	80°16'18.9237"W	295.13	164.604	7.12	3.64	64.24
7700.00	14.290	325.480	7675.90	6144.90	-263.43	-272.67	65.72	1751108.65	416340.00	39°38'25.8267"N	80°16'19.0865"W	280.48	165.450	9.63	6.95	37.25
7794.00	22.190	319.460	7765.12	6234.12	-234.16	-249.59	47.57	1751090.51	416363.09	39°38'26.0533"N	80°16'19.3210"W	254.08	169.209	8.63	8.40	-6.40
7888.00	28.230	322.190	7850.13	6319.13	-194.33	-218.50	22.38	1751065.32	416394.17	39°38'26.3584"N	80°16'19.6464"W	219.65	174.151	6.54	6.43	2.90
7982.00	36.120	322.680	7929.63	6398.63	-144.43	-178.84	-8.09	1751034.85	416433.83	39°38'26.7477"N	80°16'20.0403"W	179.03	182.591	8.40	8.39	0.52
8075.00	43.940	318.900	8000.80	6469.80	-84.98	-132.65	-45.99	1750996.96	416480.02	39°38'27.2010"N	80°16'20.5297"W	140.40	199.120	8.80	8.41	-4.06
8169.00	51.280	319.100	8064.12	6533.12	-16.18	-80.29	-91.50	1750951.45	416532.38	39°38'27.7146"N	80°16'21.1172"W	121.73	228.734	7.81	7.81	0.21
8263.00	59.600	319.230	8117.40	6586.40	60.56	-21.77	-142.07	1750900.88	416590.90	39°38'28.2887"N	80°16'21.7701"W	143.73	261.289	8.85	8.85	0.14
8357.00	65.910	318.820	8160.41	6629.41	143.40	41.29	-196.85	1750846.11	416653.95	39°38'28.9072"N	80°16'22.4772"W	201.13	281.847	6.72	6.71	-0.44
8451.00	72.630	319.380	8193.67	6662.67	230.56	107.71	-254.37	1750788.59	416720.36	39°38'29.5587"N	80°16'23.2198"W	276.23	292.950	7.17	7.15	0.60
8545.00	80.080	323.530	8215.83	6684.83	321.49	179.12	-311.19	1750731.77	416791.77	39°38'30.2595"N	80°16'23.9540"W	359.06	299.924	9.01	7.93	4.41
8639.00	83.800	325.650	8229.01	6698.01	414.49	254.96	-365.10	1750677.86	416867.61	39°38'31.0045"N	80°16'24.6515"W	445.31	304.928	4.54	3.96	2.26
8733.00	86.710	325.820	8236.79	6705.79	508.15	332.37	-417.84	1750625.13	416945.01	39°38'31.7650"N	80°16'25.3341"W	533.91	308.501	3.10	3.10	0.18
8828.00	84.760	325.550	8243.85	6712.85	602.88	410.62	-471.24	1750571.73	417023.25	39°38'32.5337"N	80°16'26.0254"W	625.04	311.067	2.07	-2.05	-0.28
8923.00	84.950	325.310	8252.37	6721.37	697.48	488.53	-524.93	1750518.04	417101.16	39°38'33.2991"N	80°16'26.7202"W	717.09	312.843	0.32	0.20	-0.25
9018.00	86.830	325.630	8259.18	6728.18	792.22	566.59	-578.64	1750464.34	417179.21	39°38'34.0660"N	80°16'27.4154"W	809.84	314.397	2.01	1.98	0.34
9113.00	86.980	326.030	8264.31	6733.31	887.08	645.07	-631.92	1750411.06	417257.69	39°38'34.8371"N	80°16'28.1051"W	903.02	315.590	0.45	0.16	0.42
9208.00	88.220	325.980	8268.29	6737.29	981.99	723.77	-684.99	1750358.00	417336.38	39°38'35.6102"N	80°16'28.7921"W	996.52	316.577	1.31	1.31	-0.05
9302.00	89.630	326.680	8270.05	6739.05	1075.97	801.98	-737.09	1750305.90	417414.59	39°38'36.3787"N	80°16'29.4668"W	1089.25	317.414	1.67	1.50	0.74
9397.00	88.770	325.370	8271.38	6740.38	1170.96	880.75	-790.17	1750252.82	417493.36	39°38'37.1527"N	80°16'30.1540"W	1183.26	318.103	1.65	-0.91	-1.38
9491.00	88.120	325.100	8273.93	6742.93	1264.91	957.94	-843.75	1750199.24	417570.55	39°38'37.9110"N	80°16'30.8474"W	1276.55	318.627	0.75	-0.69	-0.29
9586.00	87.940	325.660	8277.19	6746.19	1359.84	1036.08	-897.69	1750145.30	417648.67	39°38'38.6786"N	80°16'31.5456"W	1370.88	319.093	0.82	-0.19	0.59
9681.00	88.920	325.050	8279.80	6748.80	1454.78	1114.20	-951.68	1750091.32	417726.79	39°38'39.4460"N	80°16'32.2443"W	1465.31	319.498	1.21	1.03	-0.64
9775.00	88.920	326.580	8281.57	6750.57	1548.76	1191.94	-1004.48	1750038.52	417804.53	39°38'40.2098"N	80°16'32.9279"W	1558.75	319.878	1.63	0.00	1.63
9870.00	89.420	325.600	8282.95	6751.95	1643.75	1270.78	-1057.47	1749985.53	417883.36	39°38'40.9843"N	80°16'33.6140"W	1653.22	320.235	1.16	0.53	-1.03
9965.00	89.350	325.530	8283.97	6752.97	1738.73	1349.13	-1111.19	1749931.82	417961.70	39°38'41.7540"N	80°16'34.3093"W	1747.82	320.524	0.10	-0.07	-0.07
10059.00	88.920	325.340	8285.38	6754.38	1832.71	1426.52	-1164.52	1749878.50	418039.10	39°38'42.5144"N	80°16'34.9995"W	1841.48	320.774	0.50	-0.46	-0.20

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Actual Wellpath Report

Phoenix 1H AWP Proj: 23008'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 1H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 1H AWB
Slot	Slot 01		

WELLPATH DATA (258 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
10154.00	88.000	323.750	8287.94	6756.94	1927.62	1503.88	-1219.60	1749823.42	418116.45	39°38'43.2741"N	80°16'35.7122"W	1936.25	320.959	1.93	-0.97	-1.67
10249.00	88.950	325.090	8290.47	6759.47	2022.53	1581.11	-1274.85	1749768.17	418193.67	39°38'44.0327"N	80°16'36.4271"W	2031.05	321.121	1.73	1.00	1.41
10344.00	88.650	326.370	8292.46	6761.46	2117.50	1659.60	-1328.33	1749714.69	418272.16	39°38'44.8038"N	80°16'37.1194"W	2125.73	321.326	1.38	-0.32	1.35
10439.00	89.570	327.260	8293.93	6762.93	2212.49	1739.09	-1380.32	1749662.70	418351.65	39°38'45.5849"N	80°16'37.7928"W	2220.30	321.561	1.35	0.97	0.94
10533.00	88.830	327.110	8295.24	6764.24	2306.47	1818.09	-1431.26	1749611.77	418430.64	39°38'46.3612"N	80°16'38.4527"W	2313.86	321.789	0.80	-0.79	-0.16
10628.00	90.180	325.640	8296.06	6765.06	2401.46	1897.18	-1483.86	1749559.17	418509.73	39°38'47.1384"N	80°16'39.1339"W	2408.56	321.970	2.10	1.42	-1.55
10723.00	90.150	325.650	8295.79	6764.79	2496.45	1975.61	-1537.47	1749505.56	418588.15	39°38'47.9089"N	80°16'39.8279"W	2503.37	322.109	0.03	-0.03	0.01
10818.00	88.610	325.980	8296.82	6765.82	2591.44	2054.19	-1590.84	1749452.19	418666.73	39°38'48.6809"N	80°16'40.5189"W	2598.17	322.244	1.66	-1.62	0.35
10913.00	89.320	326.560	8298.53	6767.53	2686.42	2133.18	-1643.59	1749399.45	418745.71	39°38'49.4570"N	80°16'41.2018"W	2692.93	322.386	0.96	0.75	0.61
11007.00	88.830	326.390	8300.05	6769.05	2780.41	2211.54	-1695.50	1749347.55	418824.06	39°38'50.2269"N	80°16'41.8741"W	2786.68	322.524	0.55	-0.52	-0.18
11102.00	90.180	326.240	8300.87	6769.87	2875.40	2290.58	-1748.18	1749294.87	418903.10	39°38'51.0036"N	80°16'42.5564"W	2881.48	322.649	1.43	1.42	-0.16
11197.00	89.510	327.220	8301.13	6770.13	2970.40	2370.01	-1800.30	1749242.75	418982.52	39°38'51.7840"N	80°16'43.2314"W	2976.24	322.779	1.25	-0.71	1.03
11292.00	90.000	327.220	8301.54	6770.54	3065.39	2449.88	-1851.73	1749191.32	419062.39	39°38'52.5690"N	80°16'43.8978"W	3070.96	322.916	0.52	0.52	0.00
11386.00	90.220	326.990	8301.36	6770.36	3159.38	2528.81	-1902.78	1749140.28	419141.31	39°38'53.3446"N	80°16'44.5591"W	3164.72	323.041	0.34	0.23	-0.24
11481.00	90.650	327.410	8300.63	6769.63	3254.37	2608.66	-1954.24	1749088.82	419221.16	39°38'54.1293"N	80°16'45.2259"W	3259.47	323.162	0.63	0.45	0.44
11576.00	90.430	327.580	8299.74	6768.74	3349.34	2688.77	-2005.29	1749037.77	419301.27	39°38'54.9167"N	80°16'45.8873"W	3354.21	323.284	0.29	-0.23	0.18
11670.00	90.340	326.470	8299.11	6768.11	3443.33	2767.63	-2056.45	1748986.62	419380.12	39°38'55.6916"N	80°16'46.5501"W	3448.01	323.386	1.18	-0.10	-1.18
11765.00	90.620	326.660	8298.31	6767.31	3538.33	2846.90	-2108.79	1748934.28	419459.39	39°38'56.4705"N	80°16'47.2280"W	3542.86	323.471	0.36	0.29	0.20
11859.00	90.520	327.440	8297.38	6766.38	3632.32	2925.78	-2159.92	1748883.16	419538.26	39°38'57.2456"N	80°16'47.8904"W	3636.68	323.564	0.84	-0.11	0.83
11954.00	92.120	327.510	8295.19	6764.19	3727.27	3005.86	-2210.98	1748832.10	419618.33	39°38'58.0326"N	80°16'48.5520"W	3731.43	323.683	1.69	1.68	0.07
12048.00	91.880	327.930	8291.91	6760.91	3821.19	3085.28	-2261.15	1748781.93	419697.75	39°38'58.8132"N	80°16'49.2022"W	3825.15	323.763	0.51	-0.26	0.45
12143.00	91.080	328.420	8289.45	6758.45	3916.11	3165.97	-2311.23	1748731.85	419778.44	39°38'59.6063"N	80°16'49.8514"W	3919.84	323.870	0.99	-0.84	0.52
12237.00	90.920	326.740	8287.81	6756.81	4010.07	3245.30	-2361.61	1748681.47	419857.76	39°39'0.3860"N	80°16'50.5044"W	4013.63	323.957	1.80	-0.17	-1.79
12332.00	90.580	326.990	8286.57	6755.57	4105.06	3324.85	-2413.54	1748629.55	419937.30	39°39'1.1677"N	80°16'51.1770"W	4108.50	324.024	0.44	-0.36	0.26
12427.00	91.350	326.650	8284.97	6753.97	4200.04	3404.35	-2465.52	1748577.57	420016.80	39°39'1.9488"N	80°16'51.8504"W	4203.88	324.087	0.89	0.81	-0.36
12522.00	91.660	326.290	8282.47	6751.47	4295.01	3483.51	-2517.98	1748525.12	420095.96	39°39'2.7267"N	80°16'52.5298"W	4298.26	324.140	0.50	0.33	-0.38
12617.00	91.910	326.270	8279.52	6748.52	4389.96	3562.49	-2570.69	1748472.41	420174.93	39°39'3.5027"N	80°16'53.2125"W	4393.15	324.186	0.26	0.26	-0.02
12712.00	91.780	326.450	8276.46	6745.46	4484.91	3641.54	-2623.29	1748419.81	420253.98	39°39'4.2794"N	80°16'53.8938"W	4488.04	324.232	0.23	-0.14	0.19
12806.00	92.400	326.390	8273.03	6742.03	4578.85	3719.80	-2675.25	1748367.86	420332.23	39°39'5.0483"N	80°16'54.5667"W	4581.91	324.277	0.66	0.66	-0.06
12901.00	92.220	326.670	8269.20	6738.20	4673.77	3798.98	-2727.60	1748315.51	420411.41	39°39'5.8263"N	80°16'55.2448"W	4676.76	324.322	0.35	-0.19	0.29

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Actual Wellpath Report

Phoenix 1H AWP Proj: 23008'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 1H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 1H AWB
Slot	Slot 01		

WELLPATH DATA (258 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
12996.00	92.150	327.710	8265.58	6734.58	4768.69	3878.77	-2779.04	1748264.07	420491.19	39°39'6.6104"N	80°16'55.9112"W	4771.57	324.379	1.10	-0.07	1.09
13090.00	92.250	326.850	8261.97	6730.97	4862.61	3957.79	-2829.81	1748213.31	420570.21	39°39'7.3870"N	80°16'56.5691"W	4865.38	324.435	0.92	0.11	-0.91
13185.00	91.320	323.760	8259.01	6728.01	4957.53	4035.85	-2883.85	1748159.27	420648.27	39°39'8.1538"N	80°16'57.2687"W	4960.31	324.452	3.40	-0.98	-3.25
13279.00	92.890	326.180	8255.56	6724.56	5051.43	4112.76	-2937.76	1748105.36	420725.17	39°39'8.9092"N	80°16'57.9666"W	5054.23	324.462	3.07	1.67	2.57
13374.00	91.780	326.300	8251.68	6720.68	5146.35	4191.68	-2990.51	1748052.61	420804.08	39°39'9.6845"N	80°16'58.6497"W	5149.11	324.494	1.18	-1.17	0.13
13469.00	94.340	325.820	8246.61	6715.61	5241.21	4270.37	-3043.47	1747999.65	420882.77	39°39'10.4577"N	80°16'59.3356"W	5243.93	324.523	2.74	2.69	-0.51
13564.00	91.570	326.310	8241.72	6710.72	5336.07	4349.08	-3096.43	1747946.70	420961.47	39°39'11.2309"N	80°17'0.0214"W	5338.76	324.550	2.96	-2.92	0.52
13658.00	92.030	323.650	8238.76	6707.76	5429.99	4426.02	-3150.34	1747892.79	421038.40	39°39'11.9866"N	80°17'0.7192"W	5432.70	324.558	2.87	0.49	-2.83
13753.00	91.750	326.420	8235.63	6704.63	5524.90	4503.82	-3204.75	1747838.39	421116.20	39°39'12.7508"N	80°17'1.4235"W	5527.64	324.566	2.93	-0.29	2.92
13848.00	92.150	326.330	8232.40	6701.40	5619.84	4582.88	-3257.33	1747785.81	421195.26	39°39'13.5278"N	80°17'2.1045"W	5622.54	324.596	0.43	0.42	-0.09
13942.00	93.200	326.630	8228.01	6697.01	5713.74	4661.16	-3309.18	1747733.96	421273.53	39°39'14.2967"N	80°17'2.7761"W	5716.38	324.627	1.16	1.12	0.32
14037.00	92.340	326.360	8223.42	6692.42	5808.63	4740.28	-3361.56	1747681.59	421352.65	39°39'15.0741"N	80°17'3.4546"W	5811.22	324.658	0.95	-0.91	-0.28
14131.00	91.910	325.930	8219.93	6688.93	5902.56	4818.29	-3413.89	1747629.26	421430.65	39°39'15.8405"N	80°17'4.1324"W	5905.13	324.681	0.65	-0.46	-0.46
14226.00	93.670	326.210	8215.31	6684.31	5997.44	4897.01	-3466.85	1747576.30	421509.37	39°39'16.6140"N	80°17'4.8183"W	5999.98	324.703	1.88	1.85	0.29
14321.00	93.050	327.510	8209.74	6678.74	6092.27	4976.42	-3518.69	1747524.45	421588.78	39°39'17.3942"N	80°17'5.4900"W	6094.75	324.737	1.51	-0.65	1.37
14415.00	92.400	326.740	8205.27	6674.27	6186.16	5055.28	-3569.66	1747473.50	421667.63	39°39'18.1691"N	80°17'6.1504"W	6188.56	324.773	1.07	-0.69	-0.82
14510.00	91.140	326.190	8202.34	6671.34	6281.11	5134.43	-3622.12	1747421.05	421746.77	39°39'18.9468"N	80°17'6.8299"W	6283.47	324.799	1.45	-1.33	-0.58
14605.00	91.260	324.620	8200.35	6669.35	6376.07	5212.61	-3676.04	1747367.12	421824.95	39°39'19.7148"N	80°17'7.5281"W	6378.45	324.808	1.66	0.13	-1.65
14700.00	91.020	326.070	8198.46	6667.46	6471.04	5290.74	-3730.05	1747313.12	421903.07	39°39'20.4822"N	80°17'8.2273"W	6473.42	324.816	1.55	-0.25	1.53
14794.00	91.350	325.220	8196.52	6665.52	6565.01	5368.32	-3783.08	1747260.09	421980.65	39°39'21.2444"N	80°17'8.9140"W	6567.39	324.827	0.97	0.35	-0.90
14888.00	91.940	326.340	8193.82	6662.82	6658.96	5446.02	-3835.92	1747207.25	422058.34	39°39'22.0076"N	80°17'9.5983"W	6661.34	324.841	1.35	0.63	1.19
14983.00	91.630	326.420	8190.86	6659.86	6753.92	5525.09	-3888.50	1747154.68	422137.41	39°39'22.7845"N	80°17'10.2793"W	6756.26	324.863	0.34	-0.33	0.08
15078.00	91.940	325.940	8187.90	6656.90	6848.87	5603.97	-3941.35	1747101.83	422216.29	39°39'23.5595"N	80°17'10.9638"W	6851.18	324.881	0.60	0.33	-0.51
15173.00	92.400	325.880	8184.30	6653.30	6943.80	5682.59	-3994.56	1747048.63	422294.90	39°39'24.3318"N	80°17'11.6529"W	6946.10	324.895	0.49	0.48	-0.06
15267.00	91.720	326.180	8180.92	6649.92	7037.74	5760.50	-4047.04	1746996.14	422372.80	39°39'25.0972"N	80°17'12.3327"W	7040.02	324.910	0.79	-0.72	0.32
15362.00	91.890	327.020	8178.10	6647.10	7132.69	5839.77	-4099.32	1746943.87	422452.07	39°39'25.8761"N	80°17'13.0099"W	7134.94	324.932	0.88	-0.03	0.88
15457.00	91.350	326.430	8175.58	6644.58	7227.66	5919.17	-4151.42	1746891.77	422531.47	39°39'26.6562"N	80°17'13.6850"W	7229.86	324.956	0.72	-0.36	-0.62
15552.00	90.620	326.090	8173.94	6642.94	7322.64	5998.15	-4204.18	1746839.02	422610.45	39°39'27.4323"N	80°17'14.3684"W	7324.82	324.973	0.85	-0.77	-0.36
15646.00	91.230	326.550	8172.43	6641.43	7416.63	6076.37	-4256.30	1746786.90	422688.65	39°39'28.2007"N	80°17'15.0435"W	7418.78	324.990	0.81	0.65	0.49
15740.00	91.320	326.810	8170.33	6639.33	7510.60	6154.44	-4308.60	1746734.60	422766.72	39°39'28.9677"N	80°17'15.7210"W	7512.74	325.005	0.79	-0.10	-0.79

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 1H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 1H AWB
Slot	Slot 01		

WELLPATH DATA (258 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
15835.00	91.230	326.100	8168.22	6637.22	7605.58	6233.14	-4361.78	1746681.43	422845.42	39°39'29.7408"N	80°17'16.4097"W	7607.70	325.017	0.32	-0.09	0.31
15930.00	90.980	326.370	8166.39	6635.39	7700.56	6312.10	-4414.57	1746628.64	422924.37	39°39'30.5166"N	80°17'17.0935"W	7702.66	325.032	0.39	-0.26	0.28
16024.00	90.280	326.410	8165.35	6634.35	7794.55	6390.38	-4466.59	1746576.62	423002.65	39°39'31.2857"N	80°17'17.7675"W	7796.63	325.048	0.75	-0.74	0.04
16119.00	91.140	326.750	8164.18	6633.18	7889.54	6469.66	-4518.91	1746524.30	423081.93	39°39'32.0647"N	80°17'18.4453"W	7891.59	325.067	0.97	0.91	0.36
16214.00	90.740	326.380	8162.62	6631.62	7984.53	6548.93	-4571.25	1746471.97	423161.19	39°39'32.8435"N	80°17'19.1234"W	7986.54	325.084	0.57	-0.42	-0.39
16308.00	90.620	326.440	8161.50	6630.50	8078.52	6627.23	-4623.25	1746419.97	423239.48	39°39'33.6128"N	80°17'19.7971"W	8080.51	325.100	0.14	-0.13	0.06
16403.00	90.580	325.530	8160.51	6629.51	8173.52	6705.97	-4676.39	1746366.83	423318.22	39°39'34.3863"N	80°17'20.4854"W	8175.49	325.110	0.96	-0.04	-0.96
16497.00	90.180	326.290	8159.88	6628.88	8267.51	6783.81	-4729.08	1746314.15	423396.06	39°39'35.1510"N	80°17'21.1677"W	8269.48	325.119	0.91	-0.43	0.81
16592.00	90.000	326.900	8159.74	6628.74	8362.51	6863.12	-4781.38	1746261.85	423475.36	39°39'35.9302"N	80°17'21.8454"W	8364.45	325.136	0.67	-0.19	-0.64
16686.00	89.690	327.440	8159.99	6628.99	8456.50	6942.10	-4832.34	1746210.89	423554.34	39°39'36.7064"N	80°17'22.5058"W	8458.39	325.159	0.66	-0.33	0.57
16780.00	90.220	326.840	8160.06	6629.06	8550.49	7021.06	-4883.34	1746159.89	423633.29	39°39'37.4823"N	80°17'23.1668"W	8552.33	325.180	0.85	0.56	-0.64
16875.00	89.320	326.670	8160.45	6629.45	8645.48	7100.51	-4935.42	1746107.82	423712.74	39°39'38.2629"N	80°17'23.8417"W	8647.30	325.198	0.96	-0.95	-0.18
16970.00	90.310	324.660	8160.75	6629.75	8740.47	7178.96	-4989.00	1746054.24	423791.18	39°39'39.0335"N	80°17'24.5356"W	8742.29	325.203	2.36	1.04	-2.12
17064.00	90.180	327.890	8160.35	6629.35	8834.46	7257.13	-5041.19	1746002.06	423869.34	39°39'39.8014"N	80°17'25.2116"W	8836.26	325.214	3.44	-0.14	3.44
17159.00	89.940	327.160	8160.25	6629.25	8929.44	7337.27	-5092.19	1745951.06	423949.48	39°39'40.5890"N	80°17'25.8728"W	8931.18	325.239	0.81	-0.25	-0.77
17254.00	89.570	326.600	8160.66	6629.66	9024.43	7416.83	-5144.10	1745899.15	424029.04	39°39'41.3708"N	80°17'26.5454"W	9026.14	325.256	0.71	-0.39	-0.59
17349.00	89.480	326.170	8161.44	6630.44	9119.43	7495.94	-5196.69	1745846.57	424108.14	39°39'42.1480"N	80°17'27.2268"W	9121.12	325.268	0.46	-0.09	-0.45
17444.00	89.630	325.090	8162.18	6631.18	9214.42	7574.35	-5250.32	1745792.94	424186.55	39°39'42.9183"N	80°17'27.9213"W	9216.11	325.271	1.15	0.16	-1.14
17538.00	90.400	327.980	8162.16	6631.16	9308.41	7652.76	-5302.15	1745741.12	424264.95	39°39'43.6886"N	80°17'28.5928"W	9310.08	325.284	3.18	0.82	3.07
17633.00	90.150	327.430	8161.70	6630.70	9403.38	7733.07	-5352.90	1745690.36	424345.25	39°39'44.4778"N	80°17'29.2508"W	9404.99	325.309	0.64	-0.26	-0.58
17728.00	90.030	327.370	8161.55	6630.55	9498.36	7813.10	-5404.09	1745639.18	424425.28	39°39'45.2643"N	80°17'29.9143"W	9499.93	325.330	0.14	-0.13	-0.06
17823.00	90.280	328.590	8161.30	6630.30	9593.32	7893.64	-5454.46	1745588.82	424505.82	39°39'46.0559"N	80°17'30.5674"W	9594.83	325.356	1.31	0.28	1.28
17918.00	90.250	327.910	8160.86	6629.86	9688.27	7974.43	-5504.45	1745538.83	424586.60	39°39'46.8498"N	80°17'31.2157"W	9689.70	325.384	0.72	-0.03	-0.72
18012.00	89.690	326.210	8160.91	6629.91	9782.26	8053.31	-5555.56	1745487.72	424665.48	39°39'47.6250"N	80°17'31.8782"W	9783.66	325.400	1.90	-0.60	-1.81
18107.00	90.280	327.010	8160.93	6629.93	9877.26	8132.63	-5607.84	1745435.45	424744.79	39°39'48.4043"N	80°17'32.5556"W	9878.64	325.412	1.05	0.62	0.84
18202.00	90.090	327.060	8160.62	6629.62	9972.25	8212.33	-5659.53	1745383.76	424824.49	39°39'49.1875"N	80°17'33.2255"W	9973.60	325.427	0.21	-0.20	0.05
18296.00	89.820	327.290	8160.70	6629.70	10066.24	8291.33	-5710.48	1745332.81	424903.48	39°39'49.9636"N	80°17'33.8860"W	10067.56	325.444	0.38	-0.29	0.24
18391.00	90.220	327.260	8160.66	6629.66	10161.23	8371.25	-5761.84	1745281.45	424983.39	39°39'50.7490"N	80°17'34.5517"W	10162.51	325.461	0.42	0.42	-0.03
18486.00	90.120	327.650	8160.38	6629.38	10256.21	8451.33	-5812.95	1745230.35	425063.47	39°39'51.5359"N	80°17'35.2142"W	10257.45	325.479	0.42	-0.11	0.41
18581.00	90.340	326.600	8160.00	6629.00	10351.20	8531.11	-5864.51	1745178.79	425143.25	39°39'52.3199"N	80°17'35.8826"W	10352.41	325.494	1.13	0.23	-1.11

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Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 1H
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Facility	Phoenix Pad	Wellbore	Phoenix 1H AWB
Slot	Slot 01		

WELLPATH DATA (258 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
18675.00	90.090	326.060	8159.65	6628.65	10445.20	8609.34	-5916.63	1745126.67	425221.48	39°39'53.0885"N	80°17'36.5578"W	10446.40	325.502	0.63	-0.27	-0.57
18770.00	89.510	325.960	8159.98	6628.98	10540.20	8688.11	-5969.74	1745073.57	425300.24	39°39'53.8622"N	80°17'37.2458"W	10541.39	325.506	0.62	-0.61	-0.11
18865.00	89.390	326.030	8160.89	6629.89	10635.19	8766.86	-6022.86	1745020.44	425378.98	39°39'54.6359"N	80°17'37.9340"W	10636.39	325.511	0.15	-0.13	0.07
18959.00	89.690	326.160	8161.65	6630.65	10729.19	8844.87	-6075.30	1744968.01	425456.99	39°39'55.4023"N	80°17'38.6133"W	10730.38	325.516	0.35	0.32	0.14
19054.00	89.290	325.920	8162.49	6631.49	10824.18	8923.67	-6128.36	1744914.95	425535.78	39°39'56.1763"N	80°17'39.3008"W	10825.37	325.521	0.49	-0.42	-0.25
19149.00	89.720	325.780	8163.31	6632.31	10919.17	9002.28	-6181.69	1744861.63	425614.39	39°39'56.9485"N	80°17'39.9915"W	10920.37	325.523	0.48	0.45	-0.15
19243.00	89.630	325.560	8163.85	6632.85	11013.16	9079.91	-6234.70	1744808.62	425692.01	39°39'57.7110"N	80°17'40.6782"W	11014.38	325.525	0.25	-0.10	-0.23
19338.00	90.120	326.290	8164.05	6633.05	11108.16	9158.59	-6287.93	1744755.40	425770.69	39°39'58.4840"N	80°17'41.3677"W	11109.36	325.528	0.93	0.52	0.77
19433.00	90.340	326.410	8163.67	6632.67	11203.16	9237.68	-6340.57	1744702.76	425849.77	39°39'59.2609"N	80°17'42.0498"W	11204.35	325.535	0.26	0.23	0.13
19527.00	90.180	326.030	8163.24	6632.24	11297.16	9315.80	-6392.83	1744650.50	425927.89	39°40'0.0285"N	80°17'42.7269"W	11298.34	325.541	0.44	-0.17	-0.40
19622.00	90.280	326.180	8162.86	6631.86	11392.16	9394.66	-6445.81	1744597.52	426006.74	39°40'0.8031"N	80°17'43.4133"W	11393.34	325.545	0.19	0.11	0.16
19717.00	89.600	325.770	8162.96	6631.96	11487.15	9473.39	-6498.97	1744544.37	426085.47	39°40'1.5766"N	80°17'44.1019"W	11488.33	325.549	0.84	-0.72	-0.43
19812.00	89.940	326.000	8163.34	6632.34	11582.15	9552.05	-6552.25	1744491.09	426164.12	39°40'2.3492"N	80°17'44.7921"W	11583.33	325.552	0.43	0.36	0.24
19906.00	89.660	326.190	8163.67	6632.67	11676.15	9630.06	-6604.68	1744438.66	426242.13	39°40'3.1156"N	80°17'45.4715"W	11677.33	325.556	0.36	-0.30	0.20
20001.00	90.310	326.100	8163.70	6632.70	11771.15	9708.95	-6657.61	1744385.74	426321.02	39°40'3.8906"N	80°17'46.1572"W	11772.32	325.561	0.69	0.68	-0.09
20096.00	90.000	326.490	8163.44	6632.44	11866.15	9787.98	-6710.32	1744333.03	426400.05	39°40'4.6870"N	80°17'46.8402"W	11867.31	325.567	0.52	-0.33	0.41
20190.00	89.880	326.150	8163.54	6632.54	11960.15	9866.21	-6762.45	1744280.90	426478.26	39°40'5.4355"N	80°17'47.5157"W	11961.30	325.573	0.38	-0.13	-0.36
20285.00	89.690	326.110	8163.90	6632.90	12055.14	9945.08	-6815.40	1744227.96	426557.14	39°40'6.2103"N	80°17'48.2017"W	12056.30	325.577	0.20	-0.20	-0.04
20379.00	90.150	326.280	8164.03	6633.03	12149.14	10023.18	-6867.71	1744175.65	426635.23	39°40'6.9776"N	80°17'48.8795"W	12150.29	325.582	0.51	0.49	0.16
20474.00	89.780	325.710	8164.08	6633.08	12244.14	10101.93	-6920.85	1744122.51	426713.97	39°40'7.7511"N	80°17'49.5680"W	12245.29	325.585	0.70	-0.39	-0.58
20569.00	90.000	325.990	8164.27	6633.27	12339.14	10180.55	-6974.18	1744069.19	426792.58	39°40'8.5234"N	80°17'50.2588"W	12340.29	325.587	0.37	0.23	0.29
20664.00	90.030	326.200	8164.24	6633.24	12434.13	10259.39	-7027.17	1744016.20	426871.42	39°40'9.2979"N	80°17'50.9454"W	12435.28	325.591	0.22	0.03	0.22
20758.00	89.910	326.030	8164.29	6633.29	12528.13	10337.43	-7079.58	1743963.79	426949.45	39°40'10.0645"N	80°17'51.6245"W	12529.28	325.595	0.22	-0.13	-0.18
20853.00	89.910	326.240	8164.44	6633.44	12623.13	10416.31	-7132.52	1743910.86	427028.33	39°40'10.8394"N	80°17'52.3104"W	12624.28	325.599	0.22	0.00	0.22
20947.00	90.250	326.090	8164.31	6633.31	12717.13	10494.39	-7184.86	1743858.52	427106.41	39°40'11.6064"N	80°17'52.9885"W	12718.27	325.603	0.40	0.36	-0.16
21042.00	89.690	326.150	8164.36	6633.36	12812.13	10573.26	-7237.82	1743805.57	427185.27	39°40'12.3812"N	80°17'53.6747"W	12813.27	325.607	0.59	-0.59	0.06
21137.00	90.120	326.100	8164.52	6633.52	12907.13	10652.13	-7290.77	1743752.62	427264.14	39°40'13.1560"N	80°17'54.3608"W	12908.26	325.611	0.46	0.45	-0.05
21231.00	90.120	326.440	8164.32	6633.32	13001.13	10730.31	-7342.96	1743700.43	427342.31	39°40'13.9240"N	80°17'55.0372"W	13002.26	325.615	0.36	0.00	0.36
21326.00	90.000	326.220	8164.22	6633.22	13096.13	10809.37	-7395.63	1743647.76	427421.37	39°40'14.7007"N	80°17'55.7197"W	13097.25	325.621	0.26	-0.13	-0.23
21421.00	90.120	326.210	8164.12	6633.12	13191.13	10888.33	-7448.46	1743594.94	427500.32	39°40'15.4764"N	80°17'56.4042"W	13192.24	325.625	0.13	0.13	-0.01

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Phoenix 1H AWP Proj: 23008'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 1H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 1H AWB
Slot	Slot 01		

WELLPATH DATA (258 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
21515.00	89.880	325.930	8164.12	6633.12	13285.13	10966.32	-7500.93	1743542.47	427578.31	39°40'16.2426"N	80°17'57.0841"W	13286.24	325.628	0.39	-0.26	-0.30
21610.00	89.630	326.040	8164.53	6633.53	13380.12	11045.07	-7554.07	1743489.33	427657.05	39°40'17.0161"N	80°17'57.7726"W	13381.24	325.631	0.29	-0.26	0.12
21704.00	90.030	325.730	8164.81	6633.81	13474.12	11122.89	-7606.79	1743436.61	427734.87	39°40'17.7805"N	80°17'58.4557"W	13475.24	325.632	0.54	0.43	-0.33
21799.00	89.780	326.020	8164.96	6633.96	13569.12	11201.53	-7660.09	1743383.32	427813.51	39°40'18.5530"N	80°17'59.1462"W	13570.24	325.634	0.40	-0.26	0.31
21893.00	90.030	325.410	8165.12	6634.12	13663.11	11279.20	-7713.04	1743330.38	427891.17	39°40'19.3159"N	80°17'59.8321"W	13664.23	325.635	0.70	0.27	-0.65
21988.00	90.460	325.890	8164.71	6633.71	13758.10	11357.63	-7766.64	1743276.78	427969.60	39°40'20.0863"N	80°18'0.5266"W	13759.23	325.635	0.68	0.45	0.51
22083.00	90.400	326.890	8164.00	6633.00	13853.10	11436.75	-7819.22	1743224.20	428048.71	39°40'20.8635"N	80°18'1.2080"W	13854.22	325.640	1.05	-0.06	1.05
22177.00	90.180	327.130	8163.52	6632.52	13947.09	11515.59	-7870.40	1743173.02	428127.55	39°40'21.6382"N	80°18'1.8715"W	13948.19	325.649	0.35	-0.23	0.26
22272.00	90.800	326.860	8162.71	6631.71	14042.08	11595.26	-7922.15	1743121.27	428207.21	39°40'22.4209"N	80°18'2.5423"W	14043.16	325.658	0.71	0.65	-0.28
22366.00	90.950	327.200	8161.28	6630.28	14136.06	11674.11	-7973.30	1743070.13	428286.05	39°40'23.1956"N	80°18'3.2054"W	14137.13	325.667	0.40	0.16	0.36
22460.00	90.800	326.980	8159.84	6628.84	14230.04	11753.01	-8024.37	1743019.07	428364.95	39°40'23.9709"N	80°18'3.8675"W	14231.09	325.677	0.28	-0.16	-0.23
22554.00	91.290	326.810	8158.13	6627.13	14324.02	11831.74	-8075.70	1742967.74	428443.68	39°40'24.7444"N	80°18'4.5329"W	14325.05	325.685	0.55	0.52	-0.18
22649.00	91.350	327.200	8155.94	6624.94	14418.99	11911.40	-8127.42	1742916.02	428523.33	39°40'25.5271"N	80°18'5.2034"W	14420.00	325.693	0.42	0.06	0.41
22744.00	91.050	326.610	8153.95	6622.95	14513.97	11990.97	-8179.28	1742864.16	428602.89	39°40'26.3089"N	80°18'5.8757"W	14514.96	325.701	0.70	-0.32	-0.62
22838.00	90.800	327.000	8152.43	6621.43	14607.95	12069.62	-8230.74	1742812.71	428681.54	39°40'27.0816"N	80°18'6.5428"W	14608.93	325.708	0.49	-0.27	0.41
22932.00	90.120	326.150	8151.68	6620.68	14701.95	12148.07	-8282.51	1742760.93	428759.98	39°40'27.8523"N	80°18'7.2139"W	14702.91	325.714	1.16	-0.72	-0.90
22983.00	90.580	326.930	8151.36	6620.36	14752.94	12190.61	-8310.63	1742732.82	428802.53	39°40'28.2703"N	80°18'7.5783"W	14753.90	325.717	1.78	0.90	1.53
23008.00†	90.580	326.930	8151.11	6620.11	14777.94	12211.56	-8324.27	1742719.18	428823.48	39°40'28.4761"N	80°18'7.7552"W	14778.90	325.719	0.00	0.00	0.00

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 1H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 1H AWB
Slot	Slot 01		

HOLE & CASING SECTIONS - Ref Wellbore: Phoenix 1H AWB Ref Wellpath: Phoenix 1H AWP Proj: 23008'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
17.5in Open Hole	28.00	1533.00	1505.00	28.00	1532.64	0.00	0.00	-14.67	-6.49
13.375in Casing Surface	28.00	1503.00	1475.00	28.00	1502.68	0.00	0.00	-13.31	-5.84
12.25in Open Hole	1533.00	2852.00	1319.00	1532.64	2850.52	-14.67	-6.49	16.81	-12.21
9.625in Casing Intermediate	28.00	2822.00	2794.00	28.00	2820.54	0.00	0.00	15.61	-12.19
8.75in Open Hole	2852.00	7458.00	4606.00	2850.52	7436.18	16.81	-12.21	-281.22	88.62
8.5in Open Hole	7458.00	23008.00	15550.00	7436.18	8151.11	-281.22	88.62	12211.56	-8324.27
5.5in Casing Production	28.00	22978.00	22950.00	28.00	8151.41	0.00	0.00	12186.43	-8307.90

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Phoenix 1H BHL Rev-5	8228.00	12212.26	-8324.85	1742718.60	428824.17	39°40'28.4829"N	80°18'7.7626"W	point
Phoenix 1H LP Rev-6	8228.00	274.94	-385.69	1750657.27	416887.59	39°38'31.2002"N	80°16'24.9169"W	point
Phoenix Pad Hardline (2.12.21)	8528.00	602.44	4985.36	1756027.99	417215.07	39°38'34.8882"N	80°15'16.2957"W	polygon
2D Polygon: dimensions not calculated								

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Phoenix 1H AWP Proj: 23008'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 1H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 1H AWB
Slot	Slot 01		

WELLPATH COMPOSITION - Ref Wellbore: Phoenix 1H AWB Ref Wellpath: Phoenix 1H AWP Proj: 23008'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1475.00	BH Generic gyro - northseeking (Standard)	01_17.5" Gyro [Northseeking-Standard] (50' - 1475')	Phoenix 1H AWB	10/12/2023
1475.00	2719.00	OWSG MWD rev2 + HRGM	02_12.25" SDI MWD [OWSG MWD Rev.2+HRGM] (1475')(1583' - 2719')	Phoenix 1H AWB	10/12/2023
2719.00	7284.00	OWSG MWD rev2 + HRGM	03_8.75" SDI MWD [OWSG MWD Rev.2+HRGM] (2719')(2915' - 7284')	Phoenix 1H AWB	10/12/2023
7284.00	23008.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_8.5" BH ATK Curve <HRGM+Short Spacing> (7284')(7417' - 22983')	Phoenix 1H AWB	10/12/2023

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Phoenix 1H AWP Proj: 23008'

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REFERENCE WELLPATH IDENTIFICATION

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Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 1H AWB
Slot	Slot 01		

COMMENTS

Wellpath general comments

API: 47061019380000

BH Job #: 111974121

Rig: Patterson 277

Duration: 10/13/2023 - 10/16/2023

01_17.5" Gyro [Northseeking-Standard] (50' - 1475')

02_12.25" SDI MWD [OWSG MWD Rev.2+HRGM] (1475')(1583' - 2719')

03_8.75" SDI MWD [OWSG MWD Rev.2+HRGM] (2719')(2915' - 7284')

04_8.5" BH ATK Curve <HRGM+Short Spacing> (7284')(7417' - 22983')

Final Survey MD @ 22983'

Projected MD at TD: 23008'

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