

NORTHEAST NATURAL ENERGY, LLC

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

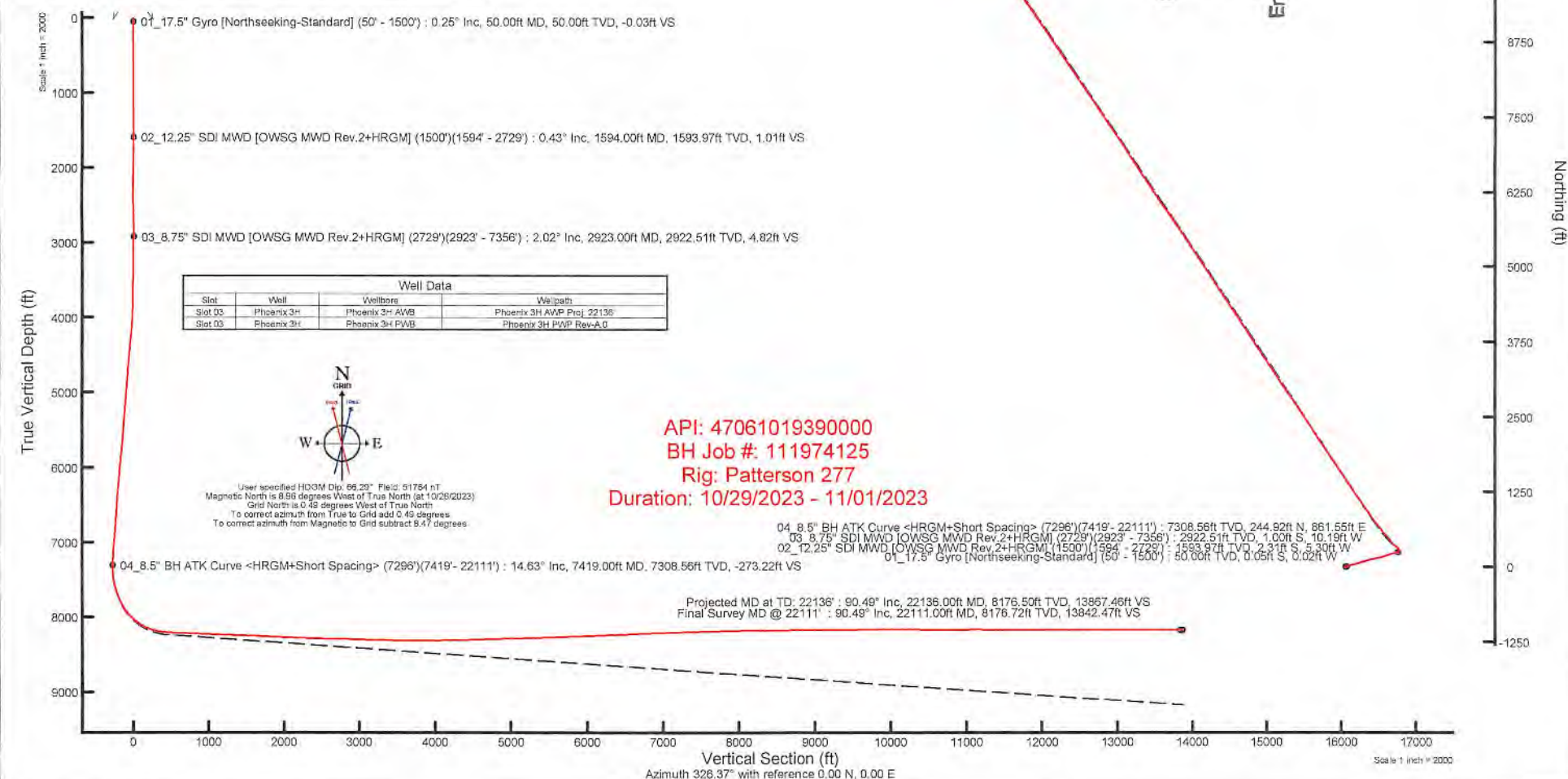
Slot: Slot 03
Well: Phoenix 3H
Wellbore: Phoenix 3H PWB



Well Name: Phoenix 3H	Wellbore: Phoenix 3H PWB
Well Type: Horizontal	Well Status: Active
Well Depth: 13,867.46 ft	Well Completion: Open Hole
Well Completion: Open Hole	Well Completion: Open Hole
Well Completion: Open Hole	Well Completion: Open Hole
Well Completion: Open Hole	Well Completion: Open Hole

Location Information					
Property Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Phoenix Pad	1751051.588	416616.940	39°22'26.5583"N	80°16'19.8414"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot 03	2.14	4.52	1751056.800	416619.080	39°28'28.5804"N
Patterson 277 (RKB) to Ground level (At Slot: Slot 03)					288
Mean Sea Level to Ground level (At Slot: Slot 03)					-15039
Patterson 277 (RKB) to Mean Sea Level					15318

Well Profile Data							
Design Component	MD (ft)	Int. (ft)	As. (ft)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (ft/1000)
Te On	7298.00	13.870	71.420	7180.34	223.99	833.24	9.57
Projection	7298.00	13.870	71.420	7247.59	228.57	849.96	9.55
Buckin-Turn	7298.47	27.925	307.773	7643.14	355.23	801.06	9.02
Landing PI	8721.61	88.000	326.371	8235.00	814.58	421.60	8.00
BHL	22177.65	88.000	326.371	8173.65	11901.33	-7512.20	0.00



Actual Wellpath Report

Phoenix 3H AWP Proj: 22136'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 3H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 3H AWB
Slot	Slot 03		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Manajohj
Scale	0.999941	Report Generated	11/2/2023 at 11:00:35 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	2.14	4.52	1751056.50	416619.08	39°38'28.5804"N	80°16'19.7839"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 03)	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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Slot	Slot 03		

WELLPATH DATA (250 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	199.800	0.00	-1531.00	0.00	0.00	0.00	1751056.50	416619.08	39°38'28.5804"N	80°16'19.7839"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	199.800	28.00	-1503.00	0.00	0.00	0.00	1751056.50	416619.08	39°38'28.5804"N	80°16'19.7839"W	0.00	0.000	0.00	0.00	0.00
50.00	0.250	199.800	50.00	-1481.00	-0.03	-0.05	-0.02	1751056.48	416619.03	39°38'28.5800"N	80°16'19.7841"W	0.05	199.800	1.14	1.14	0.00
100.00	0.280	195.570	100.00	-1431.00	-0.17	-0.27	-0.09	1751056.41	416618.81	39°38'28.5778"N	80°16'19.7849"W	0.28	197.949	0.07	0.06	-8.46
150.00	0.300	237.760	150.00	-1381.00	-0.25	-0.45	-0.23	1751056.27	416618.63	39°38'28.5759"N	80°16'19.7868"W	0.51	206.869	0.42	0.04	84.38
200.00	0.130	287.130	200.00	-1331.00	-0.20	-0.51	-0.39	1751056.11	416618.57	39°38'28.5754"N	80°16'19.7889"W	0.64	217.930	0.47	-0.34	98.74
250.00	0.060	195.580	250.00	-1281.00	-0.18	-0.51	-0.46	1751056.04	416618.57	39°38'28.5753"N	80°16'19.7896"W	0.69	221.523	0.29	-0.14	-183.10
300.00	0.200	194.270	300.00	-1231.00	-0.25	-0.62	-0.48	1751056.02	416618.46	39°38'28.5742"N	80°16'19.7900"W	0.79	217.792	0.28	0.28	-2.62
350.00	0.240	249.680	350.00	-1181.00	-0.29	-0.75	-0.60	1751055.90	416618.33	39°38'28.5730"N	80°16'19.7915"W	0.96	219.016	0.42	0.08	110.82
400.00	0.170	283.380	400.00	-1131.00	-0.21	-0.76	-0.77	1751055.73	416618.32	39°38'28.5728"N	80°16'19.7937"W	1.09	225.362	0.27	-0.14	67.40
450.00	0.140	222.290	450.00	-1081.00	-0.17	-0.79	-0.89	1751055.61	416618.29	39°38'28.5725"N	80°16'19.7951"W	1.19	226.235	0.32	-0.06	-122.18
500.00	0.290	218.350	500.00	-1031.00	-0.22	-0.94	-1.01	1751055.49	416618.14	39°38'28.5711"N	80°16'19.7966"W	1.38	227.067	0.30	0.30	-7.88
550.00	0.350	247.840	550.00	-981.00	-0.23	-1.09	-1.23	1751055.27	416617.99	39°38'28.5695"N	80°16'19.7994"W	1.64	228.286	0.35	0.12	58.98
600.00	0.290	264.810	600.00	-931.00	-0.14	-1.16	-1.49	1751055.01	416617.92	39°38'28.5688"N	80°16'19.8028"W	1.89	232.114	0.22	-0.12	33.94
650.00	0.210	313.200	650.00	-881.00	0.01	-1.11	-1.69	1751054.81	416617.97	39°38'28.5692"N	80°16'19.8053"W	2.02	236.624	0.44	-0.16	98.78
700.00	0.100	107.150	700.00	-831.00	0.06	-1.06	-1.71	1751054.79	416618.02	39°38'28.5698"N	80°16'19.8055"W	2.01	238.201	0.61	-0.22	307.90
750.00	0.000	0.000	750.00	-781.00	0.03	-1.07	-1.67	1751054.83	416618.01	39°38'28.5697"N	80°16'19.8051"W	1.99	237.252	0.20	-0.20	0.00
800.00	0.080	341.460	800.00	-731.00	0.06	-1.04	-1.68	1751054.82	416618.04	39°38'28.5700"N	80°16'19.8053"W	1.98	238.232	0.16	0.16	0.00
850.00	0.140	22.880	849.99	-681.01	0.13	-0.95	-1.67	1751054.83	416618.13	39°38'28.5709"N	80°16'19.8051"W	1.92	240.299	0.19	0.12	82.84
900.00	0.180	40.920	899.99	-631.01	0.19	-0.84	-1.59	1751054.91	416618.24	39°38'28.5720"N	80°16'19.8042"W	1.80	242.310	0.13	0.08	36.08
950.00	0.210	6.050	949.99	-581.01	0.28	-0.69	-1.53	1751054.97	416618.39	39°38'28.5735"N	80°16'19.8034"W	1.68	245.889	0.24	0.06	-69.74
1000.00	0.030	5.510	999.99	-531.01	0.36	-0.58	-1.52	1751054.98	416618.50	39°38'28.5746"N	80°16'19.8033"W	1.63	249.077	0.36	-0.36	-1.08
1050.00	0.090	252.310	1049.99	-481.01	0.38	-0.58	-1.56	1751054.94	416618.50	39°38'28.5746"N	80°16'19.8037"W	1.66	249.557	0.21	0.12	-226.40
1100.00	0.170	287.840	1099.99	-431.01	0.45	-0.57	-1.67	1751054.83	416618.51	39°38'28.5747"N	80°16'19.8051"W	1.76	251.114	0.22	0.16	71.06
1150.00	0.180	307.560	1149.99	-381.01	0.58	-0.50	-1.80	1751054.70	416618.58	39°38'28.5754"N	80°16'19.8068"W	1.87	254.485	0.12	0.02	39.44
1200.00	0.180	297.280	1199.99	-331.01	0.72	-0.42	-1.93	1751054.57	416618.66	39°38'28.5762"N	80°16'19.8085"W	1.98	257.856	0.06	0.00	-20.56
1250.00	0.440	280.040	1249.99	-281.01	0.87	-0.41	-2.19	1751054.31	416618.67	39°38'28.5762"N	80°16'19.8118"W	2.23	259.327	0.63	0.52	-74.48
1300.00	0.520	242.370	1299.99	-231.01	0.97	-0.55	-2.58	1751053.92	416618.53	39°38'28.5748"N	80°16'19.8168"W	2.64	257.941	0.33	0.16	-35.34
1350.00	0.770	244.420	1349.99	-181.01	1.04	-0.80	-3.08	1751053.42	416618.28	39°38'28.5723"N	80°16'19.8232"W	3.19	255.433	0.50	0.50	4.10
1400.00	0.740	243.390	1399.98	-131.02	1.13	-1.09	-3.66	1751052.82	416617.99	39°38'28.5693"N	80°16'19.8307"W	3.83	253.467	0.07	-0.06	-2.06

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Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 3H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 3H AWB
Slot	Slot 03		

WELLPATH DATA (250 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	0.660	244.770	1449.98	-81.02	1.21	-1.36	-4.23	1751052.28	416617.72	39°38'28.5667"N	80°16'19.8377"W	4.44	252.175	0.16	-0.16	2.76
1500.00	0.660	217.480	1499.98	-31.02	1.16	-1.71	-4.66	1751051.84	416617.37	39°38'28.5632"N	80°16'19.8433"W	4.96	249.855	0.62	0.00	-54.58
1594.00	0.430	240.620	1593.97	62.97	1.01	-2.31	-5.30	1751051.20	416616.77	39°38'28.5571"N	80°16'19.8513"W	5.78	246.418	0.33	-0.24	24.62
1688.00	0.520	87.760	1687.97	156.97	0.81	-2.47	-5.18	1751051.32	416616.61	39°38'28.5556"N	80°16'19.8498"W	5.74	244.512	0.98	0.10	-162.62
1783.00	1.390	81.300	1782.96	251.96	0.10	-2.28	-3.61	1751052.89	416616.80	39°38'28.5578"N	80°16'19.8297"W	4.27	237.743	0.92	0.92	-6.80
1878.00	1.910	83.070	1877.92	346.92	-1.09	-1.91	-0.90	1751055.60	416617.17	39°38'28.5615"N	80°16'19.7951"W	2.11	205.162	0.55	0.55	1.86
1973.00	1.350	72.170	1972.88	441.88	-2.11	-1.38	1.74	1751058.24	416617.70	39°38'28.5670"N	80°16'19.7615"W	2.22	128.415	0.67	-0.59	-11.47
2067.00	0.760	48.910	2066.86	535.86	-2.33	-0.63	3.26	1751059.76	416618.45	39°38'28.5745"N	80°16'19.7421"W	3.32	100.928	0.76	-0.63	-24.74
2162.00	0.860	38.030	2161.85	630.85	-2.03	0.35	4.18	1751060.68	416619.43	39°38'28.5842"N	80°16'19.7305"W	4.19	85.268	0.19	0.11	-11.45
2257.00	0.990	5.210	2256.84	725.84	-1.16	1.72	4.69	1751061.19	416620.80	39°38'28.5979"N	80°16'19.7241"W	5.00	69.812	0.57	0.14	-34.55
2351.00	1.390	320.920	2350.82	819.82	0.61	3.42	4.05	1751060.55	416622.50	39°38'28.6146"N	80°16'19.7325"W	5.30	49.802	1.03	0.43	-47.12
2446.00	2.160	301.700	2445.78	914.78	3.38	5.25	1.80	1751058.30	416624.33	39°38'28.6325"N	80°16'19.7615"W	5.55	18.871	1.01	0.81	-20.23
2541.00	2.140	280.640	2540.71	1009.71	6.24	6.52	-1.47	1751055.03	416625.60	39°38'28.6448"N	80°16'19.8034"W	6.69	347.292	0.83	-0.02	-22.17
2635.00	1.760	244.430	2634.66	1103.66	7.67	6.22	-4.50	1751052.00	416625.30	39°38'28.6416"N	80°16'19.8420"W	7.68	324.141	1.35	-0.40	-38.52
2729.00	1.830	221.170	2728.62	1197.62	7.48	4.47	-6.79	1751049.71	416623.55	39°38'28.6240"N	80°16'19.8711"W	8.13	303.366	0.77	0.07	-24.74
2923.00	2.020	203.550	2922.51	1391.51	4.82	-1.00	-10.19	1751046.31	416618.08	39°38'28.5697"N	80°16'19.9141"W	10.24	264.419	0.32	0.10	-9.08
3018.00	1.660	193.510	3017.46	1486.46	2.97	-3.87	-11.18	1751045.32	416615.21	39°38'28.5413"N	80°16'19.9264"W	11.83	250.917	0.51	-0.38	-10.57
3113.00	0.960	129.410	3112.44	1581.44	1.28	-5.71	-10.89	1751045.61	416613.37	39°38'28.5231"N	80°16'19.9224"W	12.30	242.322	1.59	-0.74	-67.47
3210.00	1.110	112.080	3209.42	1678.42	-0.28	-6.58	-9.39	1751047.11	416612.50	39°38'28.5146"N	80°16'19.9032"W	11.47	234.979	0.36	0.15	-17.87
3304.00	1.240	86.400	3303.40	1772.40	-1.54	-6.86	-7.53	1751048.97	416612.22	39°38'28.5120"N	80°16'19.8794"W	10.19	227.679	0.57	0.14	-27.32
3399.00	2.110	58.480	3398.36	1867.36	-2.12	-5.88	-5.02	1751051.48	416613.20	39°38'28.5219"N	80°16'19.8473"W	7.73	220.464	1.23	0.92	-29.39
3494.00	3.170	58.070	3493.26	1962.26	-2.26	-3.58	-1.30	1751055.20	416615.50	39°38'28.5450"N	80°16'19.8000"W	3.80	199.915	1.12	1.12	-0.43
3588.00	3.690	63.560	3587.09	2056.09	-2.72	-0.86	3.62	1751060.12	416618.22	39°38'28.5723"N	80°16'19.7375"W	3.72	103.306	0.65	0.55	5.84
3683.00	5.110	66.990	3681.81	2150.81	-3.88	2.16	10.25	1751066.75	416621.24	39°38'28.6027"N	80°16'19.6531"W	10.48	78.103	1.52	1.49	3.61
3778.00	6.790	63.070	3776.30	2245.30	-5.31	6.36	19.15	1751075.65	416625.44	39°38'28.6449"N	80°16'19.5398"W	20.18	71.638	1.82	1.77	-4.13
3877.00	8.380	69.180	3874.43	2343.43	-7.60	11.57	31.11	1751087.61	416630.65	39°38'28.6974"N	80°16'19.3874"W	33.20	69.598	1.80	1.61	6.17
3972.00	10.010	71.990	3968.20	2437.20	-11.35	16.59	45.44	1751101.93	416635.66	39°38'28.7482"N	80°16'19.2049"W	48.37	69.947	1.78	1.72	2.96
4067.00	12.160	73.590	4061.43	2530.43	-16.54	21.97	62.89	1751119.39	416641.04	39°38'28.8029"N	80°16'18.9824"W	66.61	70.747	2.29	2.26	1.68
4161.00	14.450	73.480	4152.90	2621.90	-22.92	28.10	83.63	1751140.13	416647.18	39°38'28.8652"N	80°16'18.7179"W	88.23	71.429	2.44	2.44	-0.12
4256.00	15.950	77.280	4244.57	2713.57	-31.07	34.34	107.73	1751164.22	416653.42	39°38'28.9290"N	80°16'18.4106"W	113.07	72.318	1.89	1.58	4.00

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Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 3H AWB
Slot	Slot 03		

WELLPATH DATA (250 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]
4351.00	15.200	75.210	4336.09	2805.09	-39.75	40.40	132.51	1751189.00	416659.47	39°38'28.9909"N	80°16'18.0946"W	138.53	73.045	0.98	-0.79	-2.18
4445.00	14.800	74.000	4426.88	2895.88	-47.37	46.85	155.96	1751212.45	416665.93	39°38'29.0567"N	80°16'17.7954"W	162.85	73.279	0.54	-0.43	-1.29
4539.00	15.260	75.800	4517.67	2986.67	-55.12	53.20	179.49	1751235.98	416672.27	39°38'29.1214"N	80°16'17.4953"W	187.21	73.492	0.70	0.49	1.91
4634.00	15.420	75.380	4609.28	3078.28	-63.39	59.45	203.84	1751260.32	416678.53	39°38'29.1853"N	80°16'17.1849"W	212.33	73.740	0.21	0.17	-0.44
4728.00	15.500	72.600	4699.88	3168.88	-70.97	66.36	227.91	1751284.40	416685.44	39°38'29.2566"N	80°16'16.8778"W	237.38	73.766	0.79	0.09	-2.96
4827.00	14.970	70.600	4795.40	3264.40	-77.81	74.56	252.60	1751309.08	416693.64	39°38'29.3388"N	80°16'16.5632"W	263.37	73.554	0.75	-0.54	-2.02
4921.00	14.240	71.730	4886.37	3355.37	-83.86	82.22	275.03	1751331.51	416701.30	39°38'29.4163"N	80°16'16.2773"W	287.05	73.356	0.83	-0.78	1.20
5016.00	14.470	74.800	4978.40	3447.40	-90.71	89.00	297.58	1751354.06	416708.07	39°38'29.4852"N	80°16'15.9898"W	310.60	73.350	0.84	0.24	3.23
5111.00	14.900	75.050	5070.30	3539.30	-98.37	95.26	320.83	1751377.31	416714.33	39°38'29.5491"N	80°16'15.6933"W	334.67	73.463	0.46	0.45	0.26
5205.00	14.400	76.000	5161.24	3630.24	-106.17	101.20	343.85	1751400.33	416720.28	39°38'29.6098"N	80°16'15.3997"W	358.43	73.599	0.59	-0.53	1.01
5300.00	13.930	74.960	5253.35	3722.35	-113.78	107.03	366.35	1751422.83	416726.10	39°38'29.6693"N	80°16'15.1127"W	381.67	73.714	0.56	-0.49	-1.09
5395.00	13.170	73.440	5345.71	3814.71	-120.60	113.08	387.77	1751444.25	416732.15	39°38'29.7309"N	80°16'14.8396"W	403.92	73.742	0.88	-0.80	-1.60
5490.00	13.790	75.050	5438.09	3907.09	-127.41	119.09	409.08	1751465.58	416738.16	39°38'29.7920"N	80°16'14.5678"W	426.07	73.769	0.76	0.65	1.69
5585.00	13.650	73.470	5530.38	3999.38	-134.33	125.20	430.77	1751487.24	416744.27	39°38'29.8543"N	80°16'14.2913"W	448.59	73.794	0.42	-0.15	-1.66
5679.00	13.680	73.850	5621.72	4090.72	-140.93	131.44	452.08	1751508.55	416750.52	39°38'29.9178"N	80°16'14.0196"W	470.80	73.788	0.10	0.03	0.40
5778.00	13.620	76.360	5717.92	4186.92	-148.43	137.45	474.65	1751531.12	416756.52	39°38'29.9791"N	80°16'13.7317"W	494.15	73.850	0.60	-0.06	2.54
5872.00	14.740	78.690	5809.06	4278.06	-156.76	142.41	497.13	1751553.60	416761.48	39°38'30.0300"N	80°16'13.4448"W	517.13	74.016	1.34	1.19	2.48
5967.00	15.870	78.280	5900.69	4369.69	-166.19	147.41	521.70	1751578.17	416766.49	39°38'30.0815"N	80°16'13.1313"W	542.13	74.222	1.19	1.19	-0.43
6062.00	16.300	77.270	5991.97	4460.97	-175.80	152.99	547.43	1751603.89	416772.06	39°38'30.1388"N	80°16'12.8031"W	568.40	74.386	0.54	0.45	-1.06
6156.00	15.550	77.620	6082.36	4551.36	-185.07	158.60	572.60	1751629.07	416777.67	39°38'30.1964"N	80°16'12.4820"W	594.16	74.518	0.80	-0.80	0.37
6251.00	15.490	75.340	6173.90	4642.90	-193.81	164.54	597.31	1751653.78	416783.61	39°38'30.2572"N	80°16'12.1667"W	619.56	74.599	0.65	-0.06	-2.40
6346.00	15.590	73.380	6265.43	4734.43	-201.67	171.40	621.82	1751678.28	416790.47	39°38'30.3271"N	80°16'11.8542"W	645.01	74.589	0.56	0.11	-2.06
6441.00	14.510	71.440	6357.17	4826.17	-208.49	178.84	645.33	1751701.79	416797.91	39°38'30.4026"N	80°16'11.5545"W	669.66	74.510	1.25	-1.14	-2.04
6535.00	13.720	71.230	6448.33	4917.33	-214.42	186.18	667.05	1751723.51	416805.24	39°38'30.4769"N	80°16'11.2777"W	692.54	74.405	0.84	-0.84	-0.22
6629.00	12.990	71.360	6539.73	5008.73	-220.01	193.14	687.62	1751744.07	416812.21	39°38'30.5475"N	80°16'11.0155"W	714.23	74.311	0.78	-0.78	0.14
6727.00	12.750	73.750	6635.32	5104.32	-226.09	199.69	708.43	1751764.89	416818.75	39°38'30.6139"N	80°16'10.7501"W	736.04	74.258	0.60	-0.24	2.44
6822.00	12.650	73.380	6728.00	5197.00	-232.26	205.59	728.47	1751784.92	416824.86	39°38'30.6740"N	80°16'10.4947"W	756.92	74.239	0.14	-0.11	-0.39
6917.00	12.240	73.790	6820.77	5289.77	-238.32	211.38	748.10	1751804.56	416830.45	39°38'30.7329"N	80°16'10.2443"W	777.39	74.222	0.44	-0.43	0.43
7012.00	13.170	76.090	6913.44	5382.44	-244.98	216.79	768.28	1751824.73	416835.86	39°38'30.7881"N	80°16'9.9870"W	798.28	74.242	1.11	0.98	2.42
7107.00	13.500	77.270	7005.88	5474.88	-252.69	221.84	789.60	1751846.05	416840.91	39°38'30.8397"N	80°16'9.7150"W	820.17	74.307	0.45	0.35	1.24

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 3H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 3H AWB
Slot	Slot 03		

WELLPATH DATA (250 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]
7202.00	14.130	74.620	7098.13	5567.13	-260.18	227.36	811.60	1751868.05	416846.42	39°38'30.8961"N	80°16'9.4345"W	842.84	74.350	0.94	0.66	-2.79
7296.00	13.870	71.420	7189.34	5658.34	-266.70	233.99	833.34	1751889.79	416853.06	39°38'30.9635"N	80°16'9.1573"W	865.57	74.316	0.87	-0.28	-3.40
7419.00	14.630	66.370	7308.56	5777.56	-273.22	244.92	861.55	1751918.00	416863.98	39°38'31.0739"N	80°16'8.7979"W	895.68	74.131	1.18	0.62	-4.11
7510.00	10.950	40.890	7397.36	5886.36	-272.91	256.07	877.75	1751934.20	416875.13	39°38'31.1855"N	80°16'8.5920"W	914.34	73.736	7.31	-4.04	-28.00
7604.00	10.860	350.930	7489.86	5958.86	-262.45	271.60	882.21	1751938.66	416890.66	39°38'31.3393"N	80°16'8.5367"W	923.07	72.889	9.75	-0.10	-53.15
7699.00	13.160	329.910	7582.82	6051.82	-243.51	289.80	875.37	1751931.82	416908.86	39°38'31.5186"N	80°16'8.6261"W	922.10	71.682	5.16	2.42	-22.13
7793.00	18.660	321.410	7673.19	6142.19	-217.82	310.83	860.62	1751917.06	416929.89	39°38'31.7252"N	80°16'8.8170"W	915.03	70.142	6.34	5.85	-9.04
7887.00	23.810	310.410	7760.81	6229.81	-184.56	334.91	836.76	1751893.21	416953.97	39°38'31.9612"N	80°16'9.1246"W	901.30	68.186	6.91	5.48	-11.70
7980.00	29.320	306.540	7843.97	6312.97	-145.06	360.66	804.15	1751860.60	416979.72	39°38'32.2129"N	80°16'9.5443"W	881.32	65.844	6.21	5.92	-4.16
8074.00	35.870	319.800	7923.22	6392.22	-95.94	395.48	767.79	1751824.25	417014.54	39°38'32.5539"N	80°16'10.0128"W	863.66	62.748	10.28	6.97	14.11
8168.00	44.210	324.530	7995.14	6464.14	-35.70	443.30	730.93	1751787.38	417062.35	39°38'33.0234"N	80°16'10.4893"W	854.85	58.764	9.44	8.87	5.03
8262.00	52.810	318.070	8057.40	6526.40	34.28	497.98	686.78	1751743.24	417117.03	39°38'33.5600"N	80°16'11.0596"W	848.33	54.054	10.49	9.15	-6.87
8356.00	57.210	318.490	8111.29	6580.29	110.50	555.45	635.55	1751692.01	417174.50	39°38'34.1237"N	80°16'11.7208"W	844.07	48.847	4.70	4.68	0.45
8450.00	67.470	322.160	8154.88	6623.88	193.18	619.51	582.58	1751639.04	417238.56	39°38'34.7523"N	80°16'12.4049"W	850.41	43.240	11.45	10.91	3.90
8544.00	77.440	321.980	8183.18	6652.18	282.44	690.12	527.55	1751584.02	417309.15	39°38'35.4453"N	80°16'13.1161"W	868.66	37.396	10.61	10.61	-0.19
8637.00	83.120	322.270	8198.87	6667.87	373.82	762.44	471.30	1751527.77	417381.48	39°38'36.1553"N	80°16'13.8431"W	896.35	31.722	6.12	6.11	0.31
8732.00	85.660	325.580	8208.16	6677.16	468.26	838.85	415.64	1751472.12	417457.87	39°38'36.9057"N	80°16'14.5629"W	936.17	26.358	4.38	2.67	3.48
8827.00	87.660	325.080	8213.70	6682.70	563.07	916.84	361.70	1751418.17	417535.87	39°38'37.6719"N	80°16'15.2610"W	985.61	21.529	2.17	2.11	-0.53
8922.00	88.640	325.100	8216.76	6685.76	658.00	994.70	307.36	1751363.84	417613.72	39°38'38.4368"N	80°16'15.9642"W	1041.11	17.171	1.03	1.03	0.02
9017.00	88.370	325.700	8219.24	6688.24	752.95	1072.88	253.43	1751309.92	417691.89	39°38'39.2047"N	80°16'16.6621"W	1102.40	13.291	0.69	-0.28	0.63
9111.00	86.640	325.180	8223.33	6692.33	846.85	1150.21	200.16	1751256.65	417769.22	39°38'39.9645"N	80°16'17.3516"W	1167.50	9.872	1.92	-1.84	-0.55
9206.00	87.410	325.150	8228.26	6697.26	941.70	1228.08	145.97	1751202.46	417847.09	39°38'40.7294"N	80°16'18.0529"W	1236.73	6.778	0.81	0.81	-0.03
9301.00	87.170	326.780	8232.76	6701.76	1036.59	1306.72	92.86	1751149.35	417925.72	39°38'41.5020"N	80°16'18.7404"W	1310.01	4.065	1.73	-0.25	1.72
9395.00	87.690	326.540	8236.97	6705.97	1130.49	1385.17	41.25	1751097.75	418004.16	39°38'42.2730"N	80°16'19.4088"W	1385.78	1.706	0.61	0.55	-0.26
9490.00	87.260	326.240	8241.16	6710.16	1225.40	1464.21	-11.29	1751045.21	418083.20	39°38'43.0496"N	80°16'20.0890"W	1464.25	359.568	0.55	-0.45	-0.32
9585.00	87.320	326.230	8245.65	6714.65	1320.29	1543.10	-64.03	1750992.48	418162.08	39°38'43.8248"N	80°16'20.7719"W	1544.42	357.624	0.06	0.06	-0.01
9680.00	88.280	326.620	8249.29	6718.29	1415.22	1622.19	-116.53	1750939.98	418241.17	39°38'44.6019"N	80°16'21.4517"W	1626.37	355.891	1.09	1.01	0.41
9774.00	87.720	326.140	8252.57	6721.57	1509.16	1700.42	-168.54	1750887.97	418319.39	39°38'45.3706"N	80°16'22.1252"W	1708.75	354.340	0.78	-0.60	-0.51
9869.00	88.150	326.410	8256.00	6725.00	1604.10	1779.38	-221.25	1750835.26	418398.35	39°38'46.1464"N	80°16'22.8077"W	1793.08	352.912	0.53	0.45	0.28
9963.00	87.010	326.610	8259.97	6728.97	1698.01	1857.24	-273.75	1750782.77	418476.21	39°38'46.9115"N	80°16'23.4874"W	1877.31	351.615	1.48	-1.21	-0.85

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Phoenix 3H AWP Proj: 22136'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 3H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 3H AWB
Slot	Slot 03		

WELLPATH DATA (250 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]
10058.00	86.980	325.750	8264.95	6733.95	1792.87	1935.60	-327.24	1750729.28	418554.56	39°38'47.6813"N	80°16'24.1798"W	1963.06	350.404	0.15	-0.03	0.15
10153.00	87.690	326.190	8269.36	6738.36	1887.77	2014.24	-380.35	1750676.18	418633.20	39°38'48.4540"N	80°16'24.8674"W	2049.84	349.307	0.88	0.75	0.46
10248.00	87.780	325.750	8273.12	6742.12	1982.69	2092.91	-433.47	1750623.06	418711.86	39°38'49.2269"N	80°16'25.5551"W	2137.33	348.299	0.47	0.09	-0.46
10342.00	87.570	326.140	8276.93	6745.93	2076.61	2170.73	-486.07	1750570.46	418789.67	39°38'49.9914"N	80°16'26.2361"W	2224.48	347.379	0.47	-0.22	0.41
10437.00	87.940	326.240	8280.65	6749.65	2171.54	2249.60	-538.89	1750517.65	418868.54	39°38'50.7664"N	80°16'26.9200"W	2313.24	346.529	0.40	0.39	0.11
10532.00	87.910	326.550	8284.09	6753.09	2266.47	2328.67	-591.43	1750465.11	418947.61	39°38'51.5434"N	80°16'27.6004"W	2402.60	345.749	0.33	-0.03	0.33
10627.00	88.090	326.850	8287.41	6756.41	2361.41	2408.02	-643.56	1750412.98	419026.96	39°38'52.3231"N	80°16'28.2755"W	2492.54	345.037	0.37	0.19	0.32
10722.00	88.210	326.400	8290.48	6759.48	2456.36	2487.31	-695.79	1750360.75	419106.24	39°38'53.1023"N	80°16'28.9520"W	2582.80	344.372	0.49	0.13	-0.47
10817.00	88.580	325.550	8293.14	6762.14	2551.32	2566.02	-748.93	1750307.62	419184.94	39°38'53.8756"N	80°16'29.6400"W	2673.08	343.729	0.98	0.39	-0.89
10911.00	89.140	326.030	8295.01	6764.01	2645.30	2643.74	-801.76	1750254.78	419262.66	39°38'54.6391"N	80°16'30.3240"W	2762.64	343.129	0.78	0.80	0.51
11006.00	89.510	326.260	8296.13	6765.13	2740.29	2722.63	-854.68	1750201.87	419341.54	39°38'55.4142"N	80°16'31.0092"W	2853.63	342.572	0.46	0.39	0.24
11101.00	88.860	325.440	8297.48	6766.48	2835.28	2801.24	-908.01	1750148.55	419420.14	39°38'56.1865"N	80°16'31.6996"W	2944.72	342.040	1.10	-0.68	-0.86
11196.00	87.750	324.640	8300.29	6769.29	2930.21	2879.06	-962.42	1750094.14	419497.96	39°38'56.9510"N	80°16'32.4038"W	3035.66	341.516	1.44	-1.17	-0.84
11290.00	88.430	325.160	8303.42	6772.42	3024.12	2955.92	-1016.44	1750040.12	419574.82	39°38'57.7060"N	80°16'33.1028"W	3125.80	341.024	0.91	0.72	0.55
11385.00	88.400	326.480	8306.05	6775.05	3119.08	3034.48	-1069.79	1749986.78	419653.37	39°38'58.4778"N	80°16'33.7935"W	3217.53	340.580	1.39	-0.03	1.39
11479.00	88.950	326.690	8308.22	6777.22	3213.05	3112.92	-1121.54	1749935.03	419731.81	39°38'59.2486"N	80°16'34.4638"W	3308.79	340.187	0.63	0.59	0.22
11574.00	88.710	325.570	8310.16	6779.16	3308.03	3191.78	-1174.47	1749882.10	419810.67	39°39'0.0234"N	80°16'35.1492"W	3401.01	339.798	1.21	-0.25	-1.18
11669.00	89.660	326.500	8311.51	6780.51	3403.02	3270.56	-1227.54	1749829.04	419889.44	39°39'0.7974"N	80°16'35.8363"W	3493.34	339.427	1.40	1.00	0.98
11763.00	89.360	326.530	8312.32	6781.32	3497.01	3348.96	-1279.40	1749777.18	419967.83	39°39'1.5677"N	80°16'36.5080"W	3585.02	339.092	0.33	-0.33	0.03
11858.00	90.030	326.500	8312.84	6781.84	3592.01	3428.19	-1331.81	1749724.77	420047.06	39°39'2.3463"N	80°16'37.1868"W	3677.80	338.769	0.72	0.72	-0.03
11953.00	89.910	326.620	8312.89	6781.89	3687.01	3507.46	-1384.16	1749672.42	420126.33	39°39'3.1252"N	80°16'37.8648"W	3770.70	338.464	0.18	-0.13	0.13
12047.00	89.750	325.970	8313.17	6782.17	3781.01	3585.66	-1436.32	1749620.26	420204.52	39°39'3.8935"N	80°16'38.5403"W	3862.64	338.170	0.71	-0.17	-0.69
12142.00	90.310	326.390	8313.12	6782.12	3876.01	3664.59	-1489.20	1749567.39	420283.44	39°39'4.6690"N	80°16'39.2250"W	3955.62	337.884	0.74	0.59	0.44
12236.00	89.940	326.420	8312.91	6781.91	3970.01	3742.89	-1541.21	1749515.38	420361.74	39°39'5.4383"N	80°16'39.8986"W	4047.78	337.620	0.39	-0.39	0.03
12331.00	90.890	326.250	8312.22	6781.22	4065.01	3821.95	-1593.87	1749462.73	420440.80	39°39'6.2152"N	80°16'40.5806"W	4140.98	337.362	1.02	1.00	-0.18
12426.00	91.260	326.330	8310.44	6779.44	4159.99	3900.96	-1646.59	1749410.02	420519.80	39°39'6.9915"N	80°16'41.2633"W	4234.24	337.116	0.40	0.39	0.08
12521.00	90.860	326.760	8308.68	6777.68	4254.97	3980.21	-1698.95	1749357.66	420599.05	39°39'7.7702"N	80°16'41.9415"W	4327.64	336.885	0.62	-0.42	0.45
12616.00	90.800	326.550	8307.31	6776.31	4349.96	4059.56	-1751.16	1749305.45	420678.39	39°39'8.5499"N	80°16'42.6178"W	4421.16	336.666	0.23	-0.06	-0.22
12711.00	91.720	325.920	8305.82	6774.22	4444.94	4138.52	-1803.95	1749252.66	420757.34	39°39'9.3257"N	80°16'43.3014"W	4514.59	336.448	1.17	0.97	-0.66
12805.00	91.450	326.110	8302.62	6771.62	4538.90	4216.43	-1856.47	1749200.14	420835.25	39°39'10.0912"N	80°16'43.9815"W	4607.04	336.236	0.35	-0.29	0.20

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Actual Wellpath Report

Phoenix 3H AWP Proj: 22136'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 3H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 3H AWB
Slot	Slot 03		

WELLPATH DATA (250 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]
12899.00	92.120	326.810	8299.69	6768.69	4632.85	4294.74	-1908.38	1749148.23	420913.56	39°39'10.8606"N	80°16'44.6539"W	4699.65	336.042	1.03	0.71	0.74
12994.00	91.390	326.400	8296.78	6765.78	4727.80	4374.02	-1960.65	1749095.97	420992.83	39°39'11.6396"N	80°16'45.3309"W	4793.35	335.856	0.88	-0.77	-0.43
13089.00	92.160	325.960	8293.84	6762.84	4822.76	4452.90	-2013.50	1749043.13	421071.71	39°39'12.4147"N	80°16'46.0153"W	4886.98	335.669	0.93	0.81	-0.46
13183.00	91.600	326.150	8290.76	6759.76	4916.71	4530.84	-2065.96	1748990.67	421149.64	39°39'13.1804"N	80°16'46.6946"W	4979.63	335.488	0.63	-0.60	0.20
13278.00	91.230	326.700	8288.41	6757.41	5011.68	4609.97	-2118.48	1748938.15	421228.77	39°39'13.9579"N	80°16'47.3749"W	5073.44	335.319	0.70	-0.39	0.58
13373.00	90.950	325.930	8286.60	6755.60	5106.66	4689.00	-2171.16	1748885.47	421307.80	39°39'14.7344"N	80°16'48.0571"W	5167.27	335.154	0.86	-0.29	-0.81
13468.00	91.880	326.890	8284.26	6753.26	5201.63	4768.11	-2223.70	1748832.94	421386.90	39°39'15.5117"N	80°16'48.7377"W	5261.15	334.997	1.41	0.98	1.01
13562.00	91.720	326.840	8281.30	6750.30	5295.58	4846.70	-2275.19	1748781.45	421465.48	39°39'16.2839"N	80°16'49.4047"W	5354.16	334.853	0.32	-0.17	-0.27
13657.00	91.350	326.850	8278.76	6747.76	5390.54	4926.11	-2327.27	1748729.37	421544.89	39°39'17.0643"N	80°16'50.0793"W	5448.19	334.712	0.45	-0.39	0.22
13752.00	92.310	325.880	8275.73	6744.73	5485.49	5005.17	-2379.86	1748676.78	421623.94	39°39'17.8410"N	80°16'50.7605"W	5542.15	334.570	1.44	1.01	-1.02
13846.00	92.030	326.490	8272.17	6741.17	5579.42	5083.21	-2432.14	1748624.51	421701.98	39°39'18.6078"N	80°16'51.4375"W	5635.09	334.431	0.71	-0.30	0.65
13940.00	92.340	326.440	8268.58	6737.58	5673.35	5161.50	-2484.03	1748572.62	421780.27	39°39'19.3771"N	80°16'52.1097"W	5728.13	334.300	0.33	0.33	-0.05
14035.00	92.400	326.490	8264.65	6733.65	5768.27	5240.62	-2536.47	1748520.19	421859.38	39°39'20.1545"N	80°16'52.7889"W	5822.18	334.173	0.08	0.06	0.05
14130.00	91.850	327.150	8261.13	6730.13	5863.20	5320.08	-2588.42	1748468.24	421938.83	39°39'20.9352"N	80°16'53.4620"W	5916.35	334.055	0.90	-0.58	0.69
14225.00	92.150	326.760	8257.82	6726.82	5958.14	5399.66	-2640.19	1748416.47	422018.41	39°39'21.7173"N	80°16'54.1327"W	6010.57	333.943	0.52	0.32	-0.41
14319.00	92.370	326.250	8254.11	6723.11	6052.07	5477.99	-2692.03	1748364.64	422096.74	39°39'22.4869"N	80°16'54.8042"W	6103.72	333.829	0.59	0.23	-0.54
14414.00	92.030	326.320	8250.46	6719.46	6147.00	5556.96	-2744.72	1748311.95	422175.70	39°39'23.2627"N	80°16'55.4866"W	6197.84	333.714	0.37	-0.36	0.07
14509.00	92.650	326.340	8246.58	6715.58	6241.92	5635.95	-2797.34	1748259.33	422254.69	39°39'24.0389"N	80°16'56.1683"W	6291.99	333.603	0.65	0.65	0.02
14603.00	92.800	326.230	8242.11	6711.11	6335.81	5714.05	-2849.46	1748207.22	422332.78	39°39'24.8062"N	80°16'56.8433"W	6385.13	333.496	0.20	0.16	-0.12
14698.00	92.710	326.300	8237.55	6706.55	6430.70	5792.97	-2902.16	1748154.52	422411.69	39°39'25.5815"N	80°16'57.5258"W	6479.27	333.390	0.12	-0.09	0.07
14792.00	92.710	325.780	8233.10	6702.10	6524.59	5870.85	-2954.61	1748102.07	422489.57	39°39'26.3467"N	80°16'58.2051"W	6572.41	333.285	0.55	0.00	-0.55
14887.00	93.140	326.460	8228.26	6697.26	6619.47	5949.61	-3007.50	1748049.19	422568.33	39°39'27.1205"N	80°16'58.8901"W	6666.55	333.184	0.85	0.45	0.72
14982.00	92.430	324.750	8223.64	6692.64	6714.34	6027.91	-3061.10	1747995.59	422646.62	39°39'27.8896"N	80°16'59.5841"W	6760.62	333.078	1.95	-0.75	-1.80
15077.00	92.250	326.520	8219.76	6688.76	6809.25	6106.26	-3114.67	1747942.02	422724.96	39°39'28.6593"N	80°17'0.2779"W	6854.75	332.975	1.87	-0.19	1.86
15171.00	91.690	326.870	8216.53	6685.53	6903.19	6184.77	-3166.26	1747890.44	422803.47	39°39'29.4308"N	80°17'0.9462"W	6948.13	332.890	0.70	-0.60	0.37
15266.00	92.150	326.490	8213.35	6682.35	6998.14	6264.11	-3218.41	1747838.28	422882.81	39°39'30.2104"N	80°17'1.6219"W	7042.53	332.807	0.63	0.48	-0.40
15361.00	91.820	326.140	8210.06	6679.06	7093.08	6343.11	-3271.07	1747785.63	422961.80	39°39'30.9866"N	80°17'2.3039"W	7136.87	332.720	0.51	-0.35	-0.37
15456.00	91.720	326.300	8207.12	6676.12	7188.04	6422.03	-3323.87	1747732.84	423040.72	39°39'31.7620"N	80°17'2.9878"W	7231.22	332.635	0.20	-0.11	0.17
15550.00	91.480	326.410	8204.50	6673.50	7282.00	6500.26	-3375.93	1747680.78	423118.94	39°39'32.5305"N	80°17'3.6621"W	7324.63	332.555	0.28	-0.26	0.12
15645.00	91.750	326.890	8201.82	6670.82	7376.96	6579.58	-3428.13	1747628.58	423198.26	39°39'33.3100"N	80°17'4.3385"W	7419.10	332.479	0.58	0.28	0.51

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Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 3H AWB
Slot	Slot 03		

WELLPATH DATA (250 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]
15739.00	91.780	326.580	8198.92	8667.92	7470.91	6658.14	-3479.67	1747577.05	423276.81	39°39'34.0819"N	80°17'5.0062"W	7512.59	332.408	0.33	0.03	-0.33
15833.00	91.380	326.430	8196.33	8665.33	7564.88	6736.50	-3531.52	1747525.19	423355.17	39°39'34.8518"N	80°17'5.6779"W	7606.06	332.335	0.45	-0.43	-0.16
15928.00	91.600	326.490	8193.86	8662.86	7659.85	6815.66	-3583.99	1747472.73	423434.32	39°39'35.6295"N	80°17'6.3577"W	7700.53	332.262	0.24	0.23	0.06
16023.00	91.540	326.220	8191.26	8660.26	7754.81	6894.71	-3636.61	1747420.11	423513.37	39°39'36.4062"N	80°17'7.0392"W	7795.00	332.191	0.29	-0.06	-0.28
16118.00	91.390	326.580	8188.83	8657.83	7849.78	6973.82	-3689.16	1747367.56	423592.47	39°39'37.1834"N	80°17'7.7200"W	7889.49	332.121	0.41	-0.16	0.38
16212.00	91.290	326.670	8186.63	8655.63	7943.75	7052.29	-3740.86	1747315.87	423670.94	39°39'37.9545"N	80°17'8.3898"W	7983.04	332.056	0.14	-0.11	0.10
16306.00	91.050	326.550	8184.71	8653.71	8037.73	7130.78	-3792.58	1747264.15	423749.40	39°39'38.7255"N	80°17'9.0599"W	8076.60	331.993	0.29	-0.26	-0.13
16401.00	90.740	326.620	8183.23	8652.23	8132.72	7210.05	-3844.89	1747211.84	423828.69	39°39'39.5045"N	80°17'9.7376"W	8171.17	331.930	0.33	-0.33	0.07
16496.00	90.620	326.600	8182.10	8651.10	8227.71	7289.36	-3897.17	1747159.57	423908.00	39°39'40.2838"N	80°17'10.4149"W	8265.76	331.869	0.13	-0.13	-0.02
16590.00	90.520	326.520	8181.17	8650.17	8321.71	7367.80	-3948.97	1747107.78	423986.43	39°39'41.0545"N	80°17'11.0860"W	8359.35	331.810	0.14	-0.11	-0.09
16685.00	90.310	326.580	8180.48	8649.48	8416.70	7447.06	-4001.33	1747055.42	424065.68	39°39'41.8333"N	80°17'11.7644"W	8453.95	331.751	0.23	-0.22	0.06
16779.00	90.520	326.640	8179.80	8648.80	8510.70	7525.54	-4053.06	1747003.69	424144.16	39°39'42.6044"N	80°17'12.4346"W	8547.58	331.694	0.23	0.22	0.06
16874.00	90.490	326.280	8178.96	8647.96	8605.70	7604.72	-4105.55	1746951.20	424223.34	39°39'43.3824"N	80°17'13.1146"W	8642.18	331.637	0.38	-0.03	-0.38
16969.00	91.200	326.560	8177.56	8646.56	8700.68	7683.86	-4158.09	1746898.67	424302.47	39°39'44.1599"N	80°17'13.7952"W	8736.78	331.580	0.80	0.75	0.29
17063.00	91.050	327.210	8175.71	8644.71	8794.66	7762.58	-4209.43	1746847.33	424381.18	39°39'44.9334"N	80°17'14.4606"W	8830.45	331.530	0.71	-0.16	0.69
17158.00	90.180	326.190	8174.69	8643.69	8889.65	7841.97	-4261.58	1746795.18	424460.57	39°39'45.7135"N	80°17'15.1363"W	8925.11	331.479	1.41	-0.92	-1.07
17252.00	90.150	325.830	8174.42	8643.42	8983.65	7919.91	-4314.13	1746742.63	424538.50	39°39'46.4791"N	80°17'15.8170"W	9018.69	331.422	0.38	-0.03	-0.38
17347.00	90.090	325.340	8174.22	8643.22	9078.64	7998.28	-4367.82	1746688.94	424616.87	39°39'47.2490"N	80°17'16.5123"W	9113.20	331.361	0.52	-0.06	-0.52
17442.00	89.940	325.290	8174.20	8643.20	9173.62	8076.40	-4421.89	1746634.88	424694.98	39°39'48.0163"N	80°17'17.2123"W	9207.68	331.299	0.17	-0.16	-0.05
17537.00	90.520	326.350	8173.82	8642.82	9268.62	8154.99	-4475.25	1746581.52	424773.57	39°39'48.7883"N	80°17'17.9036"W	9302.24	331.243	1.27	0.61	1.12
17632.00	90.580	326.670	8172.91	8641.91	9363.61	8234.21	-4527.67	1746529.10	424852.79	39°39'49.5667"N	80°17'18.5827"W	9396.92	331.195	0.34	0.06	0.34
17727.00	90.180	325.730	8172.28	8641.28	9458.61	8313.15	-4580.52	1746476.26	424931.72	39°39'50.3423"N	80°17'19.2673"W	9491.56	331.145	1.08	-0.42	-0.99
17821.00	90.490	326.190	8171.73	8640.73	9552.60	8391.04	-4633.14	1746423.65	425009.61	39°39'51.1075"N	80°17'19.9488"W	9585.17	331.095	0.59	0.33	0.49
17916.00	90.120	326.450	8171.22	8640.22	9647.60	8470.10	-4685.82	1746370.97	425088.66	39°39'51.8841"N	80°17'20.6313"W	9679.85	331.048	0.48	-0.39	0.27
18011.00	90.370	327.110	8170.81	8639.81	9742.60	8549.57	-4737.86	1746318.93	425168.13	39°39'52.6650"N	80°17'21.3058"W	9774.58	331.006	0.74	0.26	0.69
18106.00	90.490	326.760	8170.10	8639.10	9837.59	8629.18	-4789.69	1746267.10	425247.73	39°39'53.4473"N	80°17'21.9774"W	9869.34	330.967	0.39	0.13	-0.37
18200.00	89.780	326.560	8169.88	8638.88	9931.59	8707.71	-4841.36	1746215.44	425326.26	39°39'54.2189"N	80°17'22.6469"W	9963.08	330.927	0.78	-0.76	-0.21
18295.00	89.780	327.240	8170.24	8639.24	10026.58	8787.29	-4893.23	1746163.57	425405.84	39°39'55.0008"N	80°17'23.3192"W	10057.85	330.889	0.72	0.00	0.72
18390.00	89.600	326.290	8170.76	8639.76	10121.58	8866.75	-4945.30	1746111.50	425485.29	39°39'55.7816"N	80°17'23.9939"W	10152.60	330.850	1.02	-0.19	-1.00
18485.00	89.850	326.410	8171.21	8640.21	10216.58	8945.83	-4997.94	1746058.87	425564.37	39°39'56.5585"N	80°17'24.6759"W	10247.31	330.808	0.29	0.26	0.13

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Slot	Slot 03		

WELLPATH DATA (250 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]
18579.00	89.880	326.100	8171.44	6640.44	10310.58	9024.00	-5050.16	1746006.65	425642.52	39°39'57.3264"N	80°17'25.3524"W	10341.01	330.767	0.33	0.03	-0.33
18674.00	89.880	325.970	8171.63	6640.63	10405.58	9102.79	-5103.23	1745953.58	425721.31	39°39'58.1004"N	80°17'26.0399"W	10435.69	330.724	0.14	0.00	-0.14
18768.00	89.910	326.270	8171.81	6640.81	10499.57	9180.83	-5155.63	1745901.18	425799.34	39°39'58.8671"N	80°17'26.7187"W	10529.39	330.683	0.32	0.03	0.32
18863.00	89.540	325.620	8172.26	6641.26	10594.57	9259.53	-5208.83	1745847.99	425878.04	39°39'59.6403"N	80°17'27.4078"W	10624.07	330.641	0.79	-0.39	-0.68
18958.00	89.940	326.300	8172.69	6641.69	10689.57	9338.25	-5262.01	1745794.81	425956.76	39°40'0.4136"N	80°17'28.0967"W	10718.75	330.599	0.83	0.42	0.72
19053.00	89.880	326.690	8172.84	6641.84	10784.57	9417.47	-5314.45	1745742.38	426035.97	39°40'1.1919"N	80°17'28.7762"W	10813.51	330.563	0.42	-0.06	0.41
19147.00	90.310	326.570	8172.69	6641.69	10878.56	9495.97	-5366.15	1745690.68	426114.47	39°40'1.9632"N	80°17'29.4462"W	10907.29	330.529	0.47	0.46	-0.13
19242.00	90.400	326.540	8172.10	6641.10	10973.56	9575.24	-5418.51	1745638.32	426193.73	39°40'2.7420"N	80°17'30.1246"W	11002.06	330.495	0.10	0.09	-0.03
19336.00	90.400	326.160	8171.44	6640.44	11067.56	9653.48	-5470.60	1745586.24	426271.97	39°40'3.5107"N	80°17'30.7995"W	11095.82	330.460	0.40	0.00	-0.40
19431.00	89.690	326.410	8171.37	6640.37	11162.56	9732.50	-5523.33	1745533.51	426350.99	39°40'4.2871"N	80°17'31.4827"W	11190.57	330.425	0.79	-0.75	0.26
19526.00	89.780	325.970	8171.81	6640.81	11257.56	9811.44	-5576.19	1745480.65	426429.92	39°40'5.0625"N	80°17'32.1675"W	11285.31	330.389	0.47	0.09	-0.46
19621.00	90.250	327.080	8171.78	6640.78	11352.56	9890.68	-5628.59	1745428.26	426509.15	39°40'5.8410"N	80°17'32.8465"W	11380.09	330.357	1.27	0.49	1.17
19715.00	89.110	326.520	8172.31	6641.31	11446.55	9969.33	-5680.05	1745376.79	426587.80	39°40'6.6138"N	80°17'33.5135"W	11473.91	330.328	1.35	-1.21	-0.60
19810.00	89.660	326.860	8173.33	6642.33	11541.54	10048.72	-5732.22	1745324.63	426667.18	39°40'7.3938"N	80°17'34.1896"W	11568.71	330.298	0.68	0.58	0.36
19905.00	89.510	326.750	8174.02	6643.02	11636.54	10128.21	-5784.23	1745272.62	426746.87	39°40'8.1749"N	80°17'34.8687"W	11663.54	330.269	0.20	-0.18	-0.12
19999.00	89.480	326.830	8174.84	6643.84	11730.53	10206.86	-5835.72	1745221.14	426825.31	39°40'8.9476"N	80°17'35.5309"W	11757.36	330.241	0.09	-0.03	0.09
20094.00	89.780	326.540	8175.46	6644.46	11825.53	10286.24	-5887.89	1745168.97	426904.69	39°40'9.7276"N	80°17'36.2071"W	11852.18	330.213	0.44	0.32	-0.31
20189.00	90.060	326.260	8175.59	6644.59	11920.53	10365.37	-5940.46	1745116.40	426983.82	39°40'10.5050"N	80°17'36.8883"W	11946.97	330.183	0.42	0.29	-0.29
20283.00	90.060	326.400	8175.49	6644.49	12014.53	10443.60	-5992.58	1745064.29	427062.04	39°40'11.2735"N	80°17'37.5635"W	12040.76	330.153	0.15	0.00	0.15
20378.00	90.090	326.470	8175.37	6644.37	12109.53	10522.76	-6045.10	1745011.77	427141.20	39°40'12.0513"N	80°17'38.2441"W	12135.56	330.124	0.08	0.03	0.07
20473.00	90.030	326.720	8175.27	6644.27	12204.53	10602.07	-6097.40	1744959.47	427220.50	39°40'12.8304"N	80°17'38.9219"W	12230.38	330.096	0.27	-0.06	0.26
20567.00	90.030	327.040	8175.22	6644.22	12298.52	10680.80	-6148.77	1744908.11	427299.22	39°40'13.6040"N	80°17'39.5876"W	12324.23	330.072	0.34	0.00	0.34
20662.00	90.000	326.740	8175.19	6644.19	12393.52	10760.37	-6200.66	1744856.22	427378.79	39°40'14.3858"N	80°17'40.2602"W	12419.09	330.047	0.32	-0.03	-0.32
20757.00	89.970	326.500	8175.22	6644.22	12488.52	10839.70	-6252.93	1744803.96	427458.11	39°40'15.1652"N	80°17'40.9376"W	12513.92	330.021	0.25	-0.03	-0.25
20851.00	90.000	326.560	8175.24	6644.24	12582.52	10918.11	-6304.77	1744752.12	427536.52	39°40'15.9356"N	80°17'41.6094"W	12607.75	329.995	0.07	0.03	0.06
20946.00	89.910	326.510	8175.32	6644.32	12677.52	10997.36	-6357.15	1744699.74	427615.77	39°40'16.7142"N	80°17'42.2883"W	12702.57	329.969	0.11	-0.09	-0.05
21041.00	90.060	326.990	8175.34	6644.34	12772.51	11076.81	-6409.24	1744647.65	427695.21	39°40'17.4948"N	80°17'42.9634"W	12797.42	329.946	0.53	0.16	0.51
21135.00	89.910	326.270	8175.67	6644.67	12866.51	11155.31	-6460.95	1744595.95	427773.71	39°40'18.2661"N	80°17'43.6335"W	12891.27	329.921	0.78	-0.16	-0.77
21230.00	89.720	326.260	8175.67	6644.67	12961.51	11234.31	-6513.70	1744543.20	427852.71	39°40'19.0422"N	80°17'44.3171"W	12986.07	329.895	0.20	-0.20	-0.01
21324.00	89.660	326.480	8176.18	6645.18	13055.51	11312.58	-6565.76	1744491.14	427930.97	39°40'19.8111"N	80°17'44.9917"W	13079.90	329.869	0.24	-0.06	0.23

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Actual Wellpath Report

Phoenix 3H AWP Proj: 22136'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 3H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 3H AWB
Slot	Slot 03		

WELLPATH DATA (250 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]
21419.00	89.910	326.580	8176.54	6645.54	13150.51	11391.83	-6618.15	1744438.75	428010.21	39°40'20.5897"N	80°17'45.6707"W	13174.74	329.845	0.28	0.26	0.11
21514.00	89.880	326.510	8176.71	6645.71	13245.51	11471.09	-6670.53	1744386.38	428089.46	39°40'21.3684"N	80°17'46.3494"W	13269.58	329.822	0.08	-0.03	-0.07
21608.00	90.000	326.780	8176.81	6645.81	13339.51	11549.60	-6722.21	1744334.70	428167.98	39°40'22.1398"N	80°17'47.0193"W	13363.44	329.799	0.31	0.13	0.29
21703.00	89.970	326.650	8176.84	6645.84	13434.50	11629.02	-6774.35	1744282.57	428247.39	39°40'22.9200"N	80°17'47.6950"W	13458.30	329.778	0.14	-0.03	-0.14
21797.00	90.030	327.290	8176.84	6645.84	13528.50	11707.83	-6825.58	1744231.33	428326.19	39°40'23.6943"N	80°17'48.3592"W	13552.19	329.758	0.68	0.06	0.68
21892.00	89.940	327.420	8176.86	6645.86	13623.48	11787.82	-6876.83	1744180.09	428406.18	39°40'24.4804"N	80°17'49.0236"W	13647.10	329.741	0.17	-0.09	0.14
21987.00	90.000	326.770	8176.91	6645.91	13718.48	11867.58	-6928.44	1744128.49	428485.93	39°40'25.2641"N	80°17'49.6926"W	13742.00	329.723	0.69	0.06	-0.68
22081.00	90.060	327.120	8176.86	6645.86	13812.47	11946.36	-6979.71	1744077.22	428564.71	39°40'26.0382"N	80°17'50.3573"W	13835.89	329.704	0.38	0.06	0.37
22111.00	90.490	327.440	8176.72	6645.72	13842.47	11971.60	-6995.92	1744061.00	428589.95	39°40'26.2862"N	80°17'50.5675"W	13865.87	329.699	1.79	1.43	1.07
22136.00‡	90.490	327.440	8176.50	6645.50	13867.46	11992.67	-7009.38	1744047.55	428611.02	39°40'26.4932"N	80°17'50.7420"W	13890.84	329.695	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Phoenix 3H AWB Ref Wellpath: Phoenix 3H AWP Proj: 22136'

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	1555.00	1527.00	28.00	1554.97	0.00	0.00	-2.12	-5.04
13.375in Casing Surface	28.00	1525.00	1497.00	28.00	1524.98	0.00	0.00	-1.92	-4.83
12.25in Open Hole	1555.00	2845.00	1290.00	1554.97	2844.55	-2.12	-5.04	1.39	-8.99
9.625in Casing Intermediate	28.00	2815.00	2787.00	28.00	2814.57	0.00	0.00	2.24	-8.46
8.75in Open Hole	2845.00	7356.00	4511.00	2844.55	7247.55	1.39	-8.99	238.94	847.04
8.5in Open Hole	7356.00	22136.00	14780.00	7247.55	8176.50	238.94	847.04	11992.67	-7009.38
5.5in Casing Production	28.00	22106.00	22078.00	28.00	8176.76	0.00	0.00	11967.39	-6993.23

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 3H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 3H AWB
Slot	Slot 03		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Phoenix 3H LP Rev-5	8235.00	814.58	421.80	1751478.27	417433.61	39°38'36.6664"N	80°16'14.4815"W	point
Phoenix Hardline #1 (04.25.2023)	9000.00	12502.38	-7021.64	1744035.29	429120.70	39°40'31.5293"N	80°17'50.9566"W	polygon
2D Polygon: dimensions not calculated								
Phoenix 3H BHL Rev-6	9173.65	11991.33	-7012.20	1744044.73	428609.67	39°40'26.4797"N	80°17'50.7779"W	point

WELLPATH COMPOSITION - Ref Wellbore: Phoenix 3H AWB Ref Wellpath: Phoenix 3H AWP Proj: 22136'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1500.00	BH Generic gyro - northseeking (Standard)	01 17.5" Gyro [Northseeking-Standard] (50' - 1500')	Phoenix 3H AWB	10/26/2023
1500.00	2729.00	OWSG MWD rev2 + HRGM	02 12.25" SDI MWD [OWSG MWD Rev.2+HRGM] (1500')(1594' - 2729')	Phoenix 3H AWB	10/26/2023
2729.00	7296.00	OWSG MWD rev2 + HRGM	03 8.75" SDI MWD [OWSG MWD Rev.2+HRGM] (2729')(2923' - 7356')	Phoenix 3H AWB	10/26/2023
7296.00	22136.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 8.5" BH ATK Curve <HRGM+Short Spacing> (7296')(7419' - 22111')	Phoenix 3H AWB	10/26/2023

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 3H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 3H AWB
Slot	Slot 03		

COMMENTS

Wellpath general comments

API: 47061019390000

BH Job #: 111974125

Rig: Patterson 277

Duration: 10/29/2023 - 11/01/2023

01_17.5" Gyro [Northseeking-Standard] (50' - 1500')

02_12.25" SDI MWD [OWSG MWD Rev.2+HRGM] (1500')(1594' - 2729')

03_8.75" SDI MWD [OWSG MWD Rev.2+HRGM] (2729')(2923' - 7356')

04_8.5" BH ATK Curve <HRGM+Short Spacing> (7296')(7419' - 22111')

Final Survey MD @ 22111'

Projected MD at TD: 22136'

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