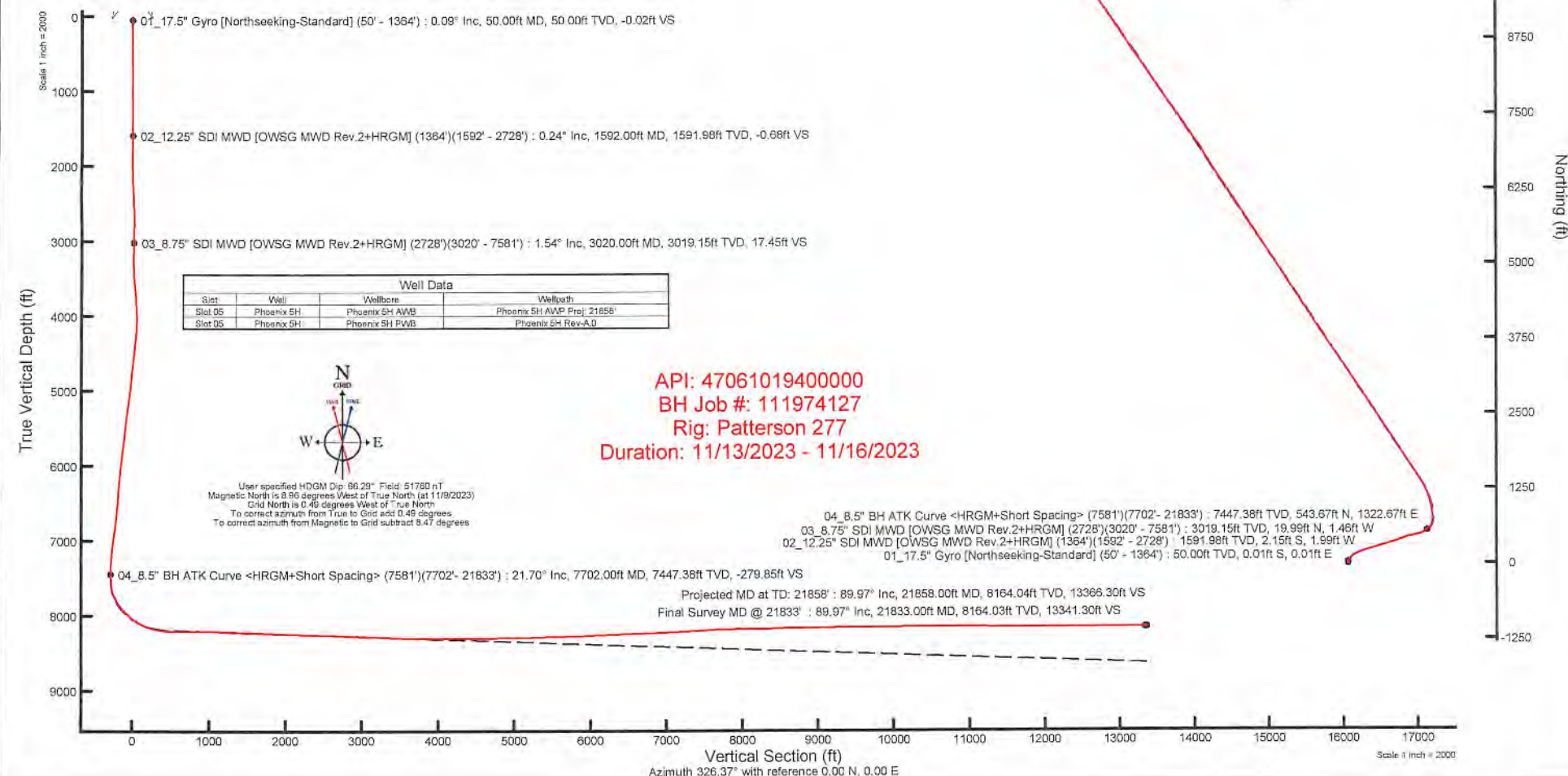


Baker Hughes

Slot: Slot 05
Well: Phoenix 5H
Wellbore: Phoenix 5H PWB

Well Profile Data							
Discontin. Comment	MD (ft)	Inc (°)	R _c (ft)	True (ft)	Local N (ft)	Local E (ft)	DLS ("1000")
Tie On	7381.00	23.70	59.550	7305.75	817.90	1363.73	4.22
Pre-driller	7754.00	23.70	59.550	7494.14	553.25	1343.72	0.00
Driller-Turn	8726.00	74.940	33.444	8156.76	171.79	1327.73	7.52
Driller Pl.	8907.27	89.000	326.373	8165.90	1354.23	1229.31	8.00
Landfill	7494.87	99.000	326.373	8165.92	1254.87	1229.31	9.00



Actual Wellpath Report

Phoenix 5H AWP Proj: 21858'
Page 1 of 12

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 5H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 5H AWB
Slot	Slot 05		

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	11/20/2023 at 10:51:45 AM
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	8.55	18.07	1751070.05	416625.49	39°38'28.6449"N	80°16'19.6114"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 05)	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°

RECEIVED
Office of Oil and Gas
APR 09 2025
WV Department of
Environmental Protection

150628

Actual Wellpath Report

Phoenix 5H AWP Proj: 21858'
Page 2 of 12

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 5H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 5H AWB
Slot	Slot 05		

WELLPATH DATA (245 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	134.720	0.00	-1531.00	0.00	0.00	0.00	1751070.05	416625.49	39°38'28.6449"N	80°16'19.6114"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	134.720	28.00	-1503.00	0.00	0.00	0.00	1751070.05	416625.49	39°38'28.6449"N	80°16'19.6114"W	0.00	0.000	0.00	0.00	0.00
50.00	0.090	134.720	50.00	-1481.00	-0.02	-0.01	0.01	1751070.06	416625.48	39°38'28.6448"N	80°16'19.6112"W	0.02	134.720	0.41	0.41	0.00
100.00	0.090	325.060	100.00	-1431.00	-0.02	-0.01	0.02	1751070.07	416625.48	39°38'28.6449"N	80°16'19.6111"W	0.02	113.245	0.36	0.00	-339.32
150.00	0.310	330.920	150.00	-1381.00	0.16	0.14	-0.07	1751069.98	416625.63	39°38'28.6464"N	80°16'19.6123"W	0.16	336.712	0.44	0.44	11.72
200.00	0.100	308.920	200.00	-1331.00	0.33	0.29	-0.17	1751069.88	416625.78	39°38'28.6478"N	80°16'19.6136"W	0.33	329.451	0.44	-0.42	-44.00
250.00	0.120	321.990	250.00	-1281.00	0.43	0.36	-0.24	1751069.81	416625.85	39°38'28.6485"N	80°16'19.6144"W	0.43	326.493	0.06	0.04	26.14
300.00	0.100	322.290	300.00	-1231.00	0.52	0.43	-0.30	1751069.75	416625.92	39°38'28.6492"N	80°16'19.6152"W	0.52	325.694	0.04	-0.04	0.60
350.00	0.130	201.330	350.00	-1181.00	0.53	0.41	-0.34	1751069.71	416625.90	39°38'28.6490"N	80°16'19.6158"W	0.54	320.422	0.40	0.06	-241.92
400.00	0.090	113.930	400.00	-1131.00	0.47	0.35	-0.33	1751069.72	416625.84	39°38'28.6483"N	80°16'19.6156"W	0.48	316.563	0.31	-0.08	-174.80
450.00	0.090	24.250	450.00	-1081.00	0.46	0.37	-0.28	1751069.77	416625.86	39°38'28.6485"N	80°16'19.6149"W	0.46	323.015	0.25	0.00	-179.36
500.00	0.190	155.160	500.00	-1031.00	0.40	0.33	-0.22	1751069.83	416625.82	39°38'28.6482"N	80°16'19.6143"W	0.40	325.473	0.52	0.20	261.82
550.00	0.170	169.850	550.00	-981.00	0.25	0.18	-0.18	1751069.87	416625.67	39°38'28.6467"N	80°16'19.6136"W	0.25	315.234	0.10	-0.04	29.38
600.00	0.130	164.160	600.00	-931.00	0.12	0.05	-0.15	1751069.90	416625.54	39°38'28.6454"N	80°16'19.6133"W	0.16	288.807	0.09	-0.08	-11.38
650.00	0.080	28.830	650.00	-881.00	0.09	0.03	-0.12	1751069.93	416625.52	39°38'28.6452"N	80°16'19.6129"W	0.12	283.011	0.39	-0.10	-274.66
700.00	0.150	181.330	700.00	-831.00	0.05	-0.01	-0.10	1751069.95	416625.48	39°38'28.6449"N	80°16'19.6127"W	0.10	265.923	0.45	0.14	309.00
750.00	0.110	132.280	750.00	-781.00	-0.05	-0.11	-0.07	1751069.98	416625.38	39°38'28.6439"N	80°16'19.6122"W	0.13	213.119	0.23	-0.08	-98.10
800.00	0.090	51.700	800.00	-731.00	-0.09	-0.11	0.00	1751070.05	416625.38	39°38'28.6438"N	80°16'19.6114"W	0.11	181.110	0.26	-0.04	-161.16
850.00	0.080	28.260	850.00	-681.00	-0.07	-0.06	0.05	1751070.10	416625.43	39°38'28.6444"N	80°16'19.6108"W	0.07	142.046	0.07	-0.02	-46.88
900.00	0.110	347.940	900.00	-631.00	-0.01	0.02	0.05	1751070.10	416625.51	39°38'28.6451"N	80°16'19.6107"W	0.06	69.039	0.14	0.06	-80.64
950.00	0.090	355.390	950.00	-581.00	0.07	0.11	0.04	1751070.09	416625.60	39°38'28.6460"N	80°16'19.6109"W	0.11	19.971	0.05	-0.04	14.90
1000.00	0.110	273.470	1000.00	-531.00	0.13	0.15	-0.01	1751070.04	416625.64	39°38'28.6464"N	80°16'19.6115"W	0.15	355.134	0.26	0.04	-163.84
1050.00	0.070	53.240	1050.00	-481.00	0.16	0.17	-0.04	1751070.01	416625.66	39°38'28.6466"N	80°16'19.6118"W	0.17	347.971	0.34	-0.08	279.54
1100.00	0.300	197.310	1100.00	-431.00	0.08	0.06	-0.05	1751070.00	416625.55	39°38'28.6456"N	80°16'19.6120"W	0.08	321.015	0.72	0.46	288.14
1150.00	0.160	246.020	1150.00	-381.00	0.01	-0.09	-0.15	1751069.90	416625.40	39°38'28.6440"N	80°16'19.6133"W	0.18	239.315	0.46	-0.28	-97.42
1200.00	0.650	225.040	1200.00	-331.00	-0.03	-0.32	-0.42	1751069.63	416625.17	39°38'28.6418"N	80°16'19.6167"W	0.53	232.570	1.01	0.98	-41.96
1250.00	0.630	219.630	1249.99	-281.01	-0.17	-0.73	-0.79	1751069.26	416624.76	39°38'28.6376"N	80°16'19.6214"W	1.08	227.324	0.13	-0.04	-10.82
1300.00	0.710	208.710	1299.99	-231.01	-0.39	-1.22	-1.12	1751068.93	416624.27	39°38'28.6328"N	80°16'19.6255"W	1.65	222.610	0.30	0.16	-21.84
1350.00	0.570	218.900	1349.99	-181.01	-0.63	-1.68	-1.42	1751068.63	416623.81	39°38'28.6282"N	80°16'19.6294"W	2.20	220.254	0.36	-0.28	20.38
1364.00	0.180	187.870	1363.99	-187.01	-0.65	-1.76	-1.42	1751068.58	416623.73	39°38'28.6275"N	80°16'19.6300"W	2.29	219.919	3.04	-2.79	-221.64

16 06 28

RECEIVED
Department of
Oil and Gas
Division of
Natural Resources
09 09 2025

Actual Wellpath Report

Phoenix 5H AWP Proj: 21858'
Page 3 of 12

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 5H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 5H AWB
Slot	Slot 05		

WELLPATH DATA (245 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]
1592.00	0.240	265.530	1591.98	60.98	-0.68	-2.15	-1.99	1751068.06	416623.34	39°38'28.6235"N	80°16'19.6366"W	2.93	222.875	0.12	0.03	34.06
1686.00	0.140	25.090	1685.98	154.98	-0.53	-2.06	-2.14	1751067.91	416623.43	39°38'28.6244"N	80°16'19.6385"W	2.97	226.125	0.35	-0.11	127.19
1781.00	0.340	39.270	1780.98	249.98	-0.39	-1.74	-1.91	1751068.14	416623.75	39°38'28.6276"N	80°16'19.6356"W	2.58	227.794	0.22	0.21	14.93
1876.00	1.110	49.440	1875.98	344.98	-0.19	-0.92	-1.04	1751069.01	416624.57	39°38'28.6358"N	80°16'19.6245"W	1.39	228.428	0.82	0.81	10.71
1971.00	2.050	52.030	1970.94	439.94	0.05	0.72	1.00	1751071.05	416626.21	39°38'28.6522"N	80°16'19.5986"W	1.24	54.140	0.99	0.99	2.73
2065.00	3.170	30.320	2064.84	533.84	1.32	4.00	3.64	1751073.69	416629.49	39°38'28.6848"N	80°16'19.5653"W	5.41	42.281	1.57	1.19	-23.10
2160.00	3.290	14.550	2159.69	628.69	4.29	8.91	5.65	1751075.70	416634.40	39°38'28.7335"N	80°16'19.5401"W	10.55	32.385	0.94	0.13	-16.60
2255.00	3.260	359.000	2254.54	723.54	8.38	14.25	6.29	1751076.34	416639.74	39°38'28.7863"N	80°16'19.5326"W	15.57	23.813	0.93	-0.03	-16.37
2349.00	2.660	344.950	2348.41	817.41	12.70	19.03	5.67	1751075.72	416644.52	39°38'28.8335"N	80°16'19.5409"W	19.85	16.607	1.00	-0.64	-14.95
2444.00	2.520	324.840	2443.32	912.32	16.88	22.86	3.90	1751073.95	416648.35	39°38'28.8712"N	80°16'19.5640"W	23.19	9.679	0.96	-0.15	-21.17
2539.00	1.930	318.060	2538.25	1007.25	20.55	25.76	1.63	1751071.68	416651.25	39°38'28.8997"N	80°16'19.5934"W	25.81	3.615	0.68	-0.62	-7.14
2633.00	0.550	269.820	2632.22	1101.22	22.36	26.94	0.12	1751070.17	416652.42	39°38'28.9112"N	80°16'19.6128"W	26.94	0.252	1.72	-1.47	-51.32
2728.00	0.920	189.530	2727.22	1196.22	22.06	26.18	-0.46	1751069.59	416651.67	39°38'28.9037"N	80°16'19.6202"W	26.19	358.985	1.04	0.39	-84.52
3020.00	1.540	186.880	3019.15	1488.15	17.45	19.99	-1.46	1751068.59	416645.48	39°38'28.8424"N	80°16'19.6322"W	20.05	355.830	0.21	0.21	-0.22
3115.00	1.600	113.190	3114.12	1583.12	15.40	18.21	-0.44	1751069.61	416643.70	39°38'28.8249"N	80°16'19.6189"W	18.22	358.630	2.03	0.06	-79.67
3209.00	3.780	70.660	3208.02	1677.02	13.54	18.72	3.70	1751073.75	416644.21	39°38'28.8303"N	80°16'19.5662"W	19.08	11.167	3.00	2.32	-45.24
3304.00	5.460	48.500	3302.72	1771.72	13.39	22.75	10.04	1751080.09	416648.24	39°38'28.8706"N	80°16'19.4856"W	24.87	23.802	2.55	1.77	-23.33
3399.00	7.640	38.500	3397.09	1866.09	15.94	30.69	17.35	1751087.40	416656.18	39°38'28.9497"N	80°16'19.3929"W	35.26	29.485	2.58	2.29	-10.53
3493.00	10.350	35.910	3489.93	1958.93	20.81	42.42	26.20	1751096.25	416667.81	39°38'29.0664"N	80°16'19.2811"W	49.86	31.697	2.91	2.88	-2.76
3588.00	11.930	30.720	3583.14	2052.14	28.05	57.78	36.22	1751106.27	416683.26	39°38'29.2190"N	80°16'19.1547"W	68.19	32.083	1.97	1.68	-5.46
3686.00	11.270	31.380	3679.14	2148.14	36.48	74.66	46.38	1751116.43	416700.15	39°38'29.3667"N	80°16'19.0267"W	87.89	31.850	0.69	-0.67	0.67
3781.00	11.330	38.980	3772.30	2241.30	43.19	89.84	57.09	1751127.13	416715.32	39°38'29.5376"N	80°16'18.8915"W	106.44	32.432	1.57	0.06	8.00
3876.00	12.600	43.180	3865.24	2334.24	48.34	104.65	70.05	1751140.09	416730.13	39°38'29.6851"N	80°16'18.7275"W	125.93	33.796	1.62	1.34	4.42
3970.00	14.150	46.530	3956.69	2425.69	52.65	120.03	85.40	1751155.45	416745.52	39°38'29.8384"N	80°16'18.5329"W	147.31	35.431	1.84	1.65	3.56
4065.00	16.000	56.670	4048.43	2517.43	54.56	135.22	104.77	1751174.82	416760.70	39°38'29.9902"N	80°16'18.2869"W	171.06	37.770	3.38	1.95	10.67
4159.00	18.270	62.270	4138.26	2607.26	52.98	149.20	128.64	1751198.69	416774.68	39°38'30.1303"N	80°16'17.9833"W	197.00	40.769	2.98	2.41	5.96
4254.00	20.070	67.570	4227.99	2696.99	48.28	162.35	156.90	1751226.94	416787.83	39°38'30.2627"N	80°16'17.6236"W	225.77	44.022	2.63	1.89	5.58
4349.00	21.890	69.920	4316.69	2785.69	40.97	174.65	188.60	1751258.64	416800.13	39°38'30.3869"N	80°16'17.2197"W	257.05	47.200	2.11	1.92	2.47
4443.00	22.120	69.500	4403.84	2872.84	32.84	186.86	221.64	1751291.67	416812.34	39°38'30.5104"N	80°16'16.7988"W	289.90	49.865	0.30	0.24	-0.45
4538.00	21.530	70.380	4492.03	2961.03	24.56	198.98	254.81	1751324.84	416824.46	39°38'30.6330"N	80°16'16.8761"W	323.30	52.014	0.71	-0.62	0.93

RECEIVED
Office of Oil and Gas
APR 09 2025
WV Department of
Environmental Protection

1706 28

Actual Wellpath Report

Phoenix 5H AWP Proj: 21858'

Page 4 of 12

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 5H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 5H AWB
Slot	Slot 05		

WELLPATH DATA (245 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]
4635.00	20.830	73.120	4582.48	3051.48	15.28	209.96	288.08	1751358.11	416835.44	39°38'30.7444"N	80°16'15.9520"W	356.48	53.914	1.25	-0.72	2.82
4730.00	20.510	74.260	4671.37	3140.37	5.30	219.38	320.26	1751390.29	416844.86	39°38'30.8402"N	80°16'15.5417"W	388.20	55.588	0.54	-0.34	1.20
4825.00	20.990	70.930	4760.21	3229.21	-4.09	229.46	352.36	1751422.39	416854.93	39°38'30.9425"N	80°16'15.1325"W	420.49	56.928	1.34	0.51	-3.51
4919.00	20.330	71.990	4848.16	3317.16	-12.72	240.01	383.80	1751453.83	416865.48	39°38'31.0494"N	80°16'14.7317"W	452.67	57.981	0.81	-0.70	1.13
5014.00	19.970	73.830	4937.35	3406.35	-22.03	249.63	415.08	1751485.10	416875.10	39°38'31.1471"N	80°16'14.3330"W	484.36	58.977	0.77	-0.38	1.94
5109.00	20.780	75.230	5026.41	3495.41	-32.35	258.44	446.95	1751516.98	416883.92	39°38'31.2369"N	80°16'13.9265"W	516.30	59.962	1.00	0.85	1.47
5204.00	20.960	73.550	5115.17	3584.17	-42.82	267.55	479.55	1751549.57	416893.02	39°38'31.3297"N	80°16'13.5109"W	549.13	60.842	0.66	0.19	-1.77
5299.00	21.340	75.300	5203.78	3672.78	-53.44	276.75	512.56	1751582.58	416902.22	39°38'31.4234"N	80°16'13.0898"W	582.50	61.634	0.78	0.40	1.84
5393.00	21.900	74.410	5291.16	3760.16	-64.42	285.80	545.99	1751616.01	416911.27	39°38'31.5157"N	80°16'12.6635"W	616.27	62.370	0.69	0.60	-0.95
5488.00	21.980	72.870	5379.28	3848.28	-74.96	295.80	580.05	1751650.06	416921.27	39°38'31.6174"N	80°16'12.2293"W	651.11	62.980	0.61	0.08	-1.62
5586.00	21.260	73.800	5470.39	3939.39	-85.49	306.16	614.64	1751684.65	416931.63	39°38'31.7227"N	80°16'11.7883"W	686.67	63.522	0.81	-0.73	0.95
5681.00	20.640	73.520	5559.11	4028.11	-95.58	315.71	647.23	1751717.24	416941.18	39°38'31.8199"N	80°16'11.3727"W	720.13	63.997	0.66	-0.65	-0.29
5775.00	21.560	73.470	5646.80	4115.80	-105.55	325.33	679.68	1751749.68	416950.80	39°38'31.9176"N	80°16'10.9590"W	753.52	64.422	0.98	0.98	-0.05
5870.00	23.170	71.920	5734.66	4203.66	-115.69	336.09	714.18	1751784.19	416961.56	39°38'32.0270"N	80°16'10.5191"W	789.31	64.798	1.80	1.69	-1.63
5965.00	23.650	72.350	5821.84	4290.84	-125.95	347.67	750.10	1751820.11	416973.14	39°38'32.1444"N	80°16'10.0612"W	826.76	65.132	0.54	0.51	0.45
6059.00	23.470	70.850	5908.00	4377.00	-135.82	359.53	785.75	1751855.76	416985.00	39°38'32.2646"N	80°16'9.6068"W	864.10	65.413	0.67	-0.19	-1.60
6154.00	21.250	72.170	5995.85	4464.85	-145.24	371.01	820.02	1751890.02	416996.47	39°38'32.3810"N	80°16'9.1701"W	900.04	65.656	2.40	-2.34	1.39
6249.00	21.100	71.610	6084.44	4553.44	-154.42	381.67	852.63	1751922.63	417007.14	39°38'32.4891"N	80°16'8.7543"W	934.16	65.885	0.27	-0.16	-0.59
6344.00	20.590	70.560	6173.22	4642.22	-163.01	392.63	884.61	1751954.61	417018.09	39°38'32.6001"N	80°16'8.3467"W	967.83	66.066	0.67	-0.54	-1.11
6439.00	19.490	69.490	6262.47	4731.47	-170.70	403.74	915.21	1751985.20	417029.21	39°38'32.7125"N	80°16'7.9568"W	1000.31	66.196	1.22	-1.16	-1.13
6536.00	18.510	71.470	6354.18	4823.18	-178.39	414.30	944.97	1752014.96	417039.77	39°38'32.8194"N	80°16'7.5776"W	1031.80	66.326	1.21	-1.01	2.04
6631.00	18.270	70.280	6444.33	4913.33	-185.89	424.12	973.28	1752043.27	417049.58	39°38'32.9188"N	80°16'7.2167"W	1061.68	66.454	0.47	-0.25	-1.25
6725.00	17.310	73.210	6533.84	5002.84	-193.49	433.13	1000.54	1752070.53	417058.60	39°38'33.0102"N	80°16'6.8693"W	1090.27	66.592	1.40	-1.02	3.12
6820.00	16.230	76.340	6624.80	5093.80	-202.12	440.35	1026.97	1752096.96	417065.81	39°38'33.0838"N	80°16'6.5322"W	1117.40	66.791	1.48	-1.14	3.29
6915.00	15.810	77.350	6716.11	5185.11	-211.28	446.32	1052.50	1752122.49	417071.78	39°38'33.1449"N	80°16'6.2065"W	1143.22	67.020	0.53	-0.44	1.06
7010.00	19.110	75.300	6806.72	5275.72	-220.97	453.10	1080.18	1752150.16	417078.56	39°38'33.2143"N	80°16'5.8535"W	1171.36	67.243	3.53	3.47	-2.16
7105.00	20.540	77.090	6896.09	5365.09	-231.91	460.77	1111.47	1752181.45	417086.23	39°38'33.2927"N	80°16'5.4544"W	1203.19	67.483	1.64	1.51	1.88
7200.00	20.990	76.530	6984.92	5453.92	-243.67	468.46	1144.26	1752214.24	417093.92	39°38'33.3715"N	80°16'5.0360"W	1236.44	67.736	0.52	0.47	-0.59
7298.00	21.970	72.490	7076.11	5545.11	-254.81	478.06	1178.81	1752248.79	417103.52	39°38'33.4693"N	80°16'4.5954"W	1272.06	67.925	1.81	1.00	-4.12
7392.00	22.860	72.720	7163.01	5632.01	-264.83	488.78	1213.02	1752282.99	417114.24	39°38'33.5781"N	80°16'4.1593"W	1307.79	68.053	0.95	0.95	0.24

RECEIVED
Office of Oil and Gas
APR 09 2025
Department of
Environmental Protection

16 of 28

Actual Wellpath Report

Phoenix 5H AWP Proj: 21858'

Page 5 of 12

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 5H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 5H AWB
Slot	Slot 05		

WELLPATH DATA (245 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]
7487.00	24.640	68.970	7249.97	5718.97	-274.35	501.37	1249.13	1752319.10	417126.83	39°38'33.7055"N	80°16'3.6991"W	1345.99	68.131	2.46	1.87	-3.95
7581.00	23.720	59.550	7335.75	5804.75	-279.67	517.99	1283.73	1752353.70	417143.45	39°38'33.8727"N	80°16'3.2586"W	1384.29	68.026	4.22	-0.98	-10.02
7702.00	21.700	53.380	7447.38	5916.38	-279.85	543.67	1322.67	1752392.64	417169.13	39°38'34.1298"N	80°16'2.7636"W	1430.05	67.655	2.58	-1.67	-5.10
7731.00	21.360	52.270	7474.36	5943.36	-279.20	550.10	1331.15	1752401.12	417175.56	39°38'34.1941"N	80°16'2.6559"W	1440.34	67.547	1.83	-1.17	-3.83
7796.00	24.490	52.730	7534.22	6003.22	-277.50	565.51	1351.24	1752421.21	417190.96	39°38'34.3480"N	80°16'2.4008"W	1464.80	67.290	4.82	4.82	0.71
7889.00	26.140	38.120	7618.37	6087.37	-269.85	593.33	1379.26	1752449.22	417218.78	39°38'34.6253"N	80°16'2.0457"W	1501.46	66.724	6.93	1.77	-15.71
7983.00	29.940	17.580	7701.51	6170.51	-248.61	632.08	1399.18	1752469.14	417257.53	39°38'35.0100"N	80°16'1.7953"W	1535.33	66.689	10.98	4.04	-21.85
8077.00	33.780	9.500	7781.37	6250.37	-214.82	680.26	1410.58	1752480.55	417305.71	39°38'35.4871"N	80°16'1.6548"W	1566.05	64.254	6.10	4.09	-8.60
8171.00	39.490	1.630	7856.81	6325.81	-171.28	735.99	1415.76	1752485.72	417361.43	39°38'36.0383"N	80°16'1.5948"W	1595.63	62.532	7.85	6.07	-8.37
8265.00	43.860	354.110	7927.05	6396.05	-117.99	798.33	1413.26	1752483.22	417423.77	39°38'36.6541"N	80°16'1.6334"W	1623.16	60.539	7.08	4.65	-8.00
8359.00	50.140	351.910	7991.13	6460.13	-56.55	866.51	1404.83	1752474.80	417491.95	39°38'37.3273"N	80°16'1.7486"W	1650.58	58.333	6.90	6.68	-2.34
8453.00	56.140	348.070	8047.51	6516.51	12.35	940.50	1391.67	1752461.64	417565.94	39°38'38.0574"N	80°16'1.9249"W	1679.67	55.949	7.17	6.38	-4.09
8546.00	60.710	345.380	8096.20	6565.20	86.62	1017.58	1373.44	1752443.41	417643.00	39°38'38.8175"N	80°16'2.1664"W	1709.33	53.465	5.50	4.91	-2.89
8640.00	67.060	341.320	8137.57	6606.57	167.30	1098.35	1349.20	1752419.17	417723.78	39°38'39.6138"N	80°16'2.4851"W	1739.75	50.852	7.79	6.76	-4.32
8735.00	73.970	337.780	8169.24	6638.24	254.44	1182.18	1317.88	1752387.85	417807.60	39°38'40.4395"N	80°16'2.8946"W	1770.41	48.107	9.08	7.27	-3.73
8830.00	79.980	333.370	8190.65	6659.65	345.75	1266.37	1279.59	1752349.57	417891.79	39°38'41.2683"N	80°16'3.3932"W	1800.30	45.298	7.78	6.33	-4.64
8925.00	84.020	328.480	8203.88	6672.88	439.48	1348.54	1233.89	1752303.86	417973.95	39°38'42.0765"N	80°16'3.9865"W	1827.85	42.458	6.64	4.25	-5.15
9020.00	89.780	326.760	8209.02	6678.02	534.27	1428.61	1183.10	1752253.08	418054.02	39°38'42.8635"N	80°16'4.6444"W	1854.91	39.630	6.33	6.06	-1.81
9114.00	89.570	326.850	8209.55	6678.55	628.27	1507.27	1131.64	1752201.62	418132.67	39°38'43.6366"N	80°16'5.3109"W	1884.80	36.899	0.24	-0.22	0.10
9209.00	89.910	326.570	8209.98	6678.98	723.27	1586.68	1079.50	1752149.48	418212.08	39°38'44.4169"N	80°16'5.9861"W	1919.08	34.229	0.46	0.36	-0.29
9304.00	90.120	326.170	8209.96	6678.96	818.27	1665.78	1026.88	1752096.87	418291.17	39°38'45.1942"N	80°16'6.6673"W	1956.87	31.652	0.48	0.22	-0.42
9398.00	90.460	326.720	8209.48	6678.48	912.26	1744.12	974.93	1752044.92	418369.50	39°38'45.9639"N	80°16'7.3401"W	1998.11	29.204	0.69	0.36	0.59
9493.00	90.090	326.610	8209.02	6678.02	1007.26	1823.49	922.72	1751992.72	418448.88	39°38'46.7439"N	80°16'8.0161"W	2043.65	26.840	0.41	-0.39	-0.12
9588.00	88.980	326.480	8209.79	6678.79	1102.26	1902.74	870.35	1751940.35	418528.12	39°38'47.5227"N	80°16'8.6943"W	2092.35	24.580	1.18	-1.17	-0.14
9682.00	88.250	326.970	8212.07	6681.07	1196.23	1981.31	818.80	1751888.80	418606.68	39°38'48.2948"N	80°16'9.3619"W	2143.83	22.453	0.94	-0.78	0.52
9777.00	87.970	327.410	8215.20	6684.20	1291.17	2061.11	767.35	1751837.35	418686.47	39°38'49.0790"N	80°16'10.0284"W	2199.32	20.420	0.55	-0.29	0.46
9871.00	87.720	324.270	8218.74	6687.74	1385.08	2138.83	714.61	1751784.62	418764.18	39°38'49.8426"N	80°16'10.7111"W	2255.05	18.475	3.35	-0.27	-3.34
9966.00	88.340	327.620	8222.00	6691.00	1480.01	2217.48	661.45	1751731.48	418842.83	39°38'50.6154"N	80°16'11.3992"W	2314.03	16.609	3.58	0.65	3.53
10061.00	87.440	327.030	8225.50	6694.50	1574.93	2297.39	610.20	1751680.21	418922.74	39°38'51.4008"N	80°16'12.0632"W	2377.04	14.875	1.13	-0.95	-0.62
10156.00	87.230	323.450	8229.92	6698.92	1669.79	2375.34	556.10	1751626.12	419000.68	39°38'52.1665"N	80°16'12.7633"W	2439.56	13.177	3.77	-0.22	-3.77

RECEIVED
Office of Oil and Gas
Environmental Protection
APR 09 2025

19438



Actual Wellpath Report

Phoenix 5H AWP Proj: 21858'

Page 6 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 5H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 5H AWB
Slot	Slot 05		

WELLPATH DATA (245 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]
10251.00	87.230	328.180	8234.51	6703.51	1764.65	2453.81	502.80	1751572.82	419079.15	39°38'52.9375"N	80°16'13.4532"W	2504.79	11.580	4.97	0.00	4.98
10345.00	87.440	327.660	8238.88	6707.88	1858.52	2533.37	452.93	1751522.96	419158.70	39°38'53.7196"N	80°16'14.0995"W	2573.54	10.137	0.60	0.22	-0.55
10440.00	87.110	326.990	8243.40	6712.40	1953.39	2613.24	401.70	1751471.73	419238.57	39°38'54.5046"N	80°16'14.7632"W	2643.94	8.739	0.79	-0.35	-0.71
10535.00	88.120	325.800	8247.35	6716.35	2048.31	2692.30	349.17	1751419.20	419317.62	39°38'55.2814"N	80°16'15.4434"W	2714.84	7.390	1.64	1.06	-1.25
10630.00	88.310	325.760	8250.31	6719.31	2143.26	2770.81	295.77	1751365.80	419396.13	39°38'56.0528"N	80°16'16.1347"W	2786.55	6.093	0.20	0.20	-0.04
10725.00	88.240	325.400	8253.17	6722.17	2238.21	2849.14	242.10	1751312.13	419474.46	39°38'56.8223"N	80°16'16.8294"W	2859.41	4.857	0.39	-0.07	-0.38
10819.00	89.200	326.640	8255.27	6724.27	2332.18	2927.07	189.58	1751259.61	419552.38	39°38'57.5880"N	80°16'17.5094"W	2933.20	3.706	1.67	1.02	1.32
10914.00	87.140	325.900	8258.31	6727.31	2427.12	3006.03	136.85	1751206.90	419631.34	39°38'58.3639"N	80°16'18.1921"W	3009.15	2.607	2.30	-2.17	-0.78
11009.00	89.050	325.640	8261.46	6730.46	2522.06	3084.53	83.45	1751153.49	419709.83	39°38'59.1351"N	80°16'18.8835"W	3085.66	1.550	2.03	2.01	-0.27
11104.00	88.490	326.400	8263.50	6732.50	2617.04	3163.29	30.36	1751100.41	419788.58	39°38'59.9089"N	80°16'19.5707"W	3163.43	0.550	0.99	-0.59	0.80
11199.00	87.750	326.800	8266.62	6735.62	2711.98	3242.46	-22.04	1751048.01	419867.76	39°39'0.6869"N	80°16'20.2494"W	3242.54	359.611	0.81	-0.78	0.21
11293.00	87.720	323.950	8270.33	6739.33	2805.88	3319.65	-75.54	1750994.51	419944.94	39°39'1.4452"N	80°16'20.9418"W	3320.51	358.696	2.82	-0.03	-2.82
11388.00	87.780	328.190	8274.07	6743.07	2900.79	3398.40	-128.51	1750941.54	420023.68	39°39'2.2189"N	80°16'21.6277"W	3400.83	357.834	4.46	0.06	4.46
11482.00	89.600	324.670	8276.22	6745.22	2994.75	3476.68	-180.47	1750889.59	420101.96	39°39'2.9882"N	80°16'22.3005"W	3481.37	357.029	4.21	1.94	-3.74
11577.00	86.490	323.090	8279.46	6748.46	3089.58	3553.37	-236.43	1750833.64	420178.64	39°39'3.7412"N	80°16'23.0244"W	3561.22	356.198	3.67	-3.27	-1.66
11672.00	88.460	327.130	8283.64	6752.64	3184.45	3631.20	-290.70	1750779.37	420256.47	39°39'4.5058"N	80°16'23.7267"W	3642.82	355.423	4.73	2.07	4.25
11766.00	87.320	324.850	8287.10	6756.10	3278.37	3709.06	-343.24	1750726.84	420334.32	39°39'5.2708"N	80°16'24.4070"W	3724.91	354.713	2.71	-1.21	-2.43
11861.00	88.000	325.720	8290.98	6759.98	3373.27	3787.08	-397.29	1750672.78	420412.34	39°39'6.0372"N	80°16'25.1066"W	3807.86	354.011	1.16	0.72	0.92
11955.00	86.860	325.370	8295.20	6764.20	3467.17	3864.51	-450.42	1750619.66	420489.77	39°39'6.7979"N	80°16'25.7944"W	3890.67	353.352	1.27	-1.21	-0.37
12050.00	88.090	326.980	8299.38	6768.38	3562.07	3943.35	-503.25	1750566.83	420568.60	39°39'7.5726"N	80°16'26.4784"W	3975.34	352.727	2.13	1.29	1.69
12145.00	89.350	326.470	8301.51	6770.51	3657.04	4022.76	-555.35	1750514.73	420648.00	39°39'8.3528"N	80°16'27.1533"W	4060.91	352.140	1.43	1.33	-0.54
12239.00	90.150	328.180	8301.92	6770.92	3751.03	4101.88	-606.10	1750463.99	420727.11	39°39'9.1304"N	80°16'27.8108"W	4146.41	351.595	2.01	0.85	1.82
12334.00	89.450	326.350	8302.25	6771.25	3846.01	4181.78	-657.47	1750412.62	420807.02	39°39'9.9157"N	80°16'28.4764"W	4233.15	351.065	2.06	-0.74	-1.93
12429.00	90.400	326.760	8302.37	6771.37	3941.01	4261.05	-709.83	1750360.27	420886.28	39°39'10.6946"N	80°16'29.1545"W	4319.77	350.542	1.09	1.00	0.43
12524.00	90.150	326.700	8301.92	6770.92	4036.00	4340.48	-761.94	1750308.16	420965.70	39°39'11.4752"N	80°16'29.8295"W	4406.85	350.044	0.27	-0.26	-0.06
12619.00	90.740	326.910	8301.18	6770.18	4131.00	4419.97	-813.95	1750256.15	421045.19	39°39'12.2563"N	80°16'30.5032"W	4494.29	349.566	0.66	0.62	0.22
12713.00	90.950	327.130	8299.79	6768.79	4224.98	4498.82	-865.11	1750204.99	421124.03	39°39'13.0311"N	80°16'31.1660"W	4581.24	349.115	0.32	0.22	0.23
12808.00	90.220	325.160	8298.82	6767.82	4319.97	4577.70	-918.03	1750152.07	421202.91	39°39'13.8062"N	80°16'31.8513"W	4668.85	348.660	2.21	-0.77	-2.07
12902.00	88.610	324.430	8299.78	6768.78	4413.93	4654.50	-972.22	1750097.89	421279.71	39°39'14.5606"N	80°16'32.5525"W	4754.96	348.202	1.88	-1.71	-0.78
12997.00	91.320	328.460	8299.84	6768.84	4508.90	4733.65	-1024.71	1750045.40	421358.85	39°39'15.3382"N	80°16'33.2324"W	4843.29	347.785	5.11	2.85	4.24

RECEIVED
Office of Oil and Gas
APR 09 2012
Department of
Environmental Protection

20628

Actual Wellpath Report

Phoenix 5H AWP Proj: 21858'

Page 7 of 12

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 5H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 5H AWB
Slot	Slot 05		

WELLPATH DATA (245 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]
13092.00	89.050	326.550	8299.53	6768.53	4603.87	4813.76	-1075.74	1749994.37	421438.96	39°39'16.1256"N	80°16'33.8936"W	4932.50	347.403	3.12	-2.39	-2.01
13186.00	90.580	326.600	8299.84	6768.84	4697.86	4892.21	-1127.52	1749942.60	421517.41	39°39'16.8965"N	80°16'34.5643"W	5020.47	347.022	1.63	1.63	0.05
13281.00	91.290	328.290	8298.29	6767.29	4792.83	4972.27	-1178.63	1749891.49	421597.46	39°39'17.6833"N	80°16'35.2266"W	5110.06	346.665	1.93	0.75	1.78
13376.00	89.170	324.350	8297.90	6766.90	4887.81	5051.31	-1231.30	1749838.82	421676.49	39°39'18.4599"N	80°16'35.9087"W	5199.21	346.301	4.71	-2.23	-4.15
13470.00	90.980	327.770	8297.78	6766.78	4981.79	5129.28	-1283.77	1749786.35	421754.45	39°39'19.2259"N	80°16'36.5882"W	5287.49	345.948	4.12	1.98	3.64
13565.00	91.170	326.070	8296.00	6765.00	5076.76	5208.86	-1335.61	1749734.52	421834.03	39°39'20.0080"N	80°16'37.2598"W	5377.37	345.619	1.80	0.20	-1.79
13660.00	91.480	328.390	8293.80	6762.80	5171.72	5288.71	-1387.02	1749683.12	421913.88	39°39'20.7928"N	80°16'37.9258"W	5467.57	345.305	2.48	0.33	2.44
13754.00	92.280	327.480	8290.72	6759.72	5265.63	5368.33	-1436.89	1749633.25	421993.49	39°39'21.5753"N	80°16'38.5723"W	5557.30	345.015	1.29	0.85	-0.97
13849.00	91.970	326.660	8287.20	6756.20	5360.56	5448.01	-1488.50	1749581.64	422073.17	39°39'22.3583"N	80°16'39.2409"W	5647.70	344.719	0.92	-0.33	-0.86
13943.00	91.140	327.040	8284.64	6753.64	5454.52	5526.68	-1539.83	1749530.26	422151.83	39°39'23.1314"N	80°16'39.9066"W	5737.20	344.431	0.97	-0.88	0.40
14038.00	91.570	326.850	8282.40	6751.40	5549.49	5606.28	-1591.69	1749478.46	422231.43	39°39'23.9136"N	80°16'40.5777"W	5827.85	344.150	0.49	0.45	-0.20
14133.00	91.720	326.600	8279.67	6748.67	5644.45	5685.68	-1643.79	1749426.36	422310.82	39°39'24.6938"N	80°16'41.2526"W	5918.53	343.875	0.31	0.16	-0.26
14228.00	91.660	327.000	8276.87	6745.87	5739.40	5765.13	-1695.78	1749374.37	422390.27	39°39'25.4746"N	80°16'41.9262"W	6009.36	343.609	0.43	-0.06	0.42
14322.00	90.800	327.290	8274.85	6743.85	5833.37	5844.08	-1746.77	1749323.39	422469.21	39°39'26.2504"N	80°16'42.5868"W	6099.55	343.359	0.97	-0.91	0.31
14417.00	92.530	327.390	8272.09	6741.09	5928.31	5924.02	-1798.01	1749272.15	422549.15	39°39'27.0360"N	80°16'43.2508"W	6190.87	343.116	1.82	1.82	0.11
14512.00	93.360	327.180	8267.21	6736.21	6023.18	6003.85	-1849.28	1749220.88	422628.97	39°39'27.8205"N	80°16'43.9152"W	6282.20	342.880	0.90	0.87	-0.22
14606.00	92.120	325.410	8262.72	6731.72	6117.06	6081.95	-1901.38	1749168.78	422707.07	39°39'28.5879"N	80°16'44.5900"W	6372.24	342.639	2.30	-1.32	-1.88
14701.00	92.310	326.930	8259.04	6728.04	6211.99	6160.80	-1954.23	1749115.94	422785.92	39°39'29.3627"N	80°16'45.2745"W	6463.32	342.401	1.61	0.20	1.60
14795.00	92.030	326.630	8255.49	6724.49	6305.92	6239.39	-2005.69	1749064.48	422864.49	39°39'30.1348"N	80°16'45.9412"W	6553.83	342.180	0.44	-0.30	-0.32
14890.00	92.430	325.970	8251.79	6720.79	6400.84	6318.36	-2058.86	1749011.81	422943.46	39°39'30.9108"N	80°16'46.6233"W	6645.19	341.956	0.81	0.42	-0.69
14985.00	92.280	326.770	8247.89	6716.89	6495.76	6397.39	-2110.93	1748959.25	423022.49	39°39'31.6873"N	80°16'47.3042"W	6736.67	341.739	0.86	-0.16	0.84
15080.00	92.090	324.940	8244.26	6713.26	6590.69	6475.96	-2164.21	1748905.97	423101.05	39°39'32.4592"N	80°16'47.9942"W	6828.02	341.521	1.94	-0.20	-1.93
15174.00	93.020	327.320	8240.07	6709.07	6684.58	6553.92	-2216.55	1748853.64	423179.01	39°39'33.2251"N	80°16'48.6720"W	6918.60	341.314	2.72	0.99	2.53
15269.00	91.450	327.450	8236.37	6705.37	6779.49	6633.88	-2267.71	1748802.48	423258.96	39°39'34.0109"N	80°16'49.3350"W	7010.77	341.128	1.66	-1.65	0.14
15364.00	92.890	326.210	8232.77	6701.77	6874.42	6713.34	-2319.65	1748750.55	423338.42	39°39'34.7917"N	80°16'50.0079"W	7102.79	340.939	2.00	1.52	-1.31
15458.00	92.990	326.900	8227.95	6696.95	6968.29	6791.67	-2371.38	1748698.81	423416.74	39°39'35.5614"N	80°16'50.6781"W	7193.76	340.753	0.74	0.11	0.73
15553.00	92.310	327.600	8223.56	6692.56	7063.18	6871.48	-2422.72	1748647.48	423496.55	39°39'36.3457"N	80°16'51.3434"W	7286.07	340.579	1.03	-0.72	0.74
15648.00	92.680	326.680	8219.42	6688.42	7158.08	6951.20	-2474.22	1748595.98	423576.27	39°39'37.1292"N	80°16'52.0107"W	7378.41	340.407	1.04	0.39	-0.97
15742.00	92.030	323.840	8215.56	6684.56	7251.97	7028.37	-2527.73	1748542.47	423653.43	39°39'37.8872"N	80°16'52.7035"W	7469.10	340.219	3.10	-0.69	-3.02
15836.00	94.180	327.010	8210.48	6679.48	7345.81	7105.64	-2580.99	1748489.22	423730.70	39°39'38.6463"N	80°16'53.3931"W	7559.87	340.037	4.08	2.27	3.87

RECEIVED
Department of
Oil and Gas
PR 09 2025

21 of 12

Actual Wellpath Report

Phoenix 5H AWP Proj: 21858'

Page 8 of 12

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 5H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 5H AWB
Slot	Slot 05		

WELLPATH DATA (245 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]
15931.00	93.450	325.970	8204.18	6673.18	7440.59	7184.68	-2633.32	1748436.89	423809.73	39°39'39.4228"N	80°16'54.0710"W	7652.06	339.871	1.32	-0.75	-1.09
16026.00	93.390	325.140	8198.51	6667.51	7535.41	7262.88	-2686.96	1748383.25	423887.93	39°39'40.1910"N	80°16'54.7655"W	7743.98	339.698	0.87	-0.06	-0.87
16120.00	93.170	324.380	8193.13	6662.13	7629.22	7339.53	-2741.11	1748329.11	423964.57	39°39'40.9438"N	80°16'55.4664"W	7834.69	339.521	0.84	-0.23	-0.81
16215.00	92.030	326.130	8188.82	6657.82	7724.10	7417.50	-2795.19	1748275.03	424042.54	39°39'41.7098"N	80°16'56.1666"W	7926.69	339.352	2.20	-1.20	1.84
16309.00	90.620	325.820	8186.65	6655.85	7818.07	7495.39	-2847.78	1748222.45	424120.42	39°39'42.4750"N	80°16'56.8476"W	8018.15	339.196	1.54	-1.50	-0.38
16404.00	91.820	325.410	8184.63	6653.63	7913.04	7573.77	-2901.41	1748168.81	424198.80	39°39'43.2449"N	80°16'57.5422"W	8110.50	339.039	1.33	1.26	-0.43
16499.00	89.450	324.350	8183.57	6652.57	8007.99	7651.46	-2956.06	1748114.17	424276.48	39°39'44.0080"N	80°16'58.2495"W	8202.63	338.877	2.73	-2.49	-1.12
16593.00	90.580	326.440	8183.55	6652.55	8101.97	7728.83	-3009.44	1748060.80	424353.84	39°39'44.7680"N	80°16'58.9407"W	8294.06	338.725	2.53	1.20	2.22
16688.00	90.890	326.190	8182.33	6651.33	8196.97	7807.87	-3062.12	1748008.11	424432.88	39°39'45.5446"N	80°16'59.6231"W	8386.86	338.586	0.42	0.33	-0.26
16782.00	90.680	325.240	8181.04	6650.04	8290.95	7885.53	-3115.07	1747955.17	424510.54	39°39'46.3075"N	80°17'0.8088"W	8478.52	338.444	1.03	-0.22	-1.01
16877.00	91.910	325.960	8178.89	6647.89	8385.91	7963.89	-3168.73	1747901.52	424588.89	39°39'47.0773"N	80°17'1.0036"W	8571.14	338.303	1.50	1.29	0.76
16972.00	92.340	326.310	8175.37	6644.37	8480.85	8042.72	-3221.63	1747848.62	424667.72	39°39'47.8518"N	80°17'1.6888"W	8663.96	338.171	0.58	0.45	0.37
17066.00	92.280	326.160	8171.58	6640.58	8574.77	8120.80	-3273.83	1747796.42	424745.79	39°39'48.6189"N	80°17'2.3650"W	8755.88	338.044	0.17	-0.06	-0.16
17161.00	90.620	326.840	8169.18	6638.18	8669.74	8199.99	-3326.24	1747744.01	424824.98	39°39'49.3970"N	80°17'3.0441"W	8848.94	337.921	1.89	-1.75	0.72
17255.00	90.370	325.400	8168.37	6637.37	8763.73	8278.03	-3378.64	1747691.82	424903.01	39°39'50.1637"N	80°17'3.7228"W	8940.97	337.797	1.55	-0.27	-1.53
17350.00	91.020	325.450	8167.21	6636.21	8858.71	8356.24	-3432.55	1747637.71	424981.22	39°39'50.9320"N	80°17'4.4208"W	9033.78	337.668	0.69	0.68	0.05
17445.00	90.030	323.510	8166.34	6635.34	8953.65	8433.56	-3487.74	1747582.53	425058.53	39°39'51.6913"N	80°17'5.1351"W	9126.29	337.532	2.29	-1.04	-2.04
17540.00	90.000	325.810	8166.32	6635.32	9048.60	8511.05	-3542.68	1747527.58	425136.01	39°39'52.4523"N	80°17'5.8464"W	9218.92	337.401	2.42	-0.03	2.42
17635.00	90.430	326.940	8165.96	6634.96	9143.60	8590.15	-3595.29	1747474.98	425215.11	39°39'53.2295"N	80°17'6.5278"W	9312.18	337.289	1.27	0.45	1.19
17730.00	90.980	327.900	8164.79	6633.79	9238.57	8670.19	-3646.44	1747423.83	425295.15	39°39'54.0151"N	80°17'7.1908"W	9405.78	337.190	1.16	0.58	1.01
17824.00	90.030	327.480	8163.97	6632.97	9332.54	8749.63	-3696.68	1747373.60	425374.59	39°39'54.7969"N	80°17'7.8421"W	9498.50	337.096	1.10	-1.01	-0.45
17919.00	90.920	326.670	8163.18	6632.18	9427.53	8829.37	-3748.31	1747321.97	425454.32	39°39'55.5804"N	80°17'8.5113"W	9592.06	336.997	1.27	0.94	-0.85
18014.00	90.770	327.110	8161.78	6630.78	9522.52	8908.94	-3800.20	1747270.08	425533.88	39°39'56.3622"N	80°17'9.1837"W	9685.59	336.899	0.49	-0.16	0.46
18108.00	90.180	326.830	8161.00	6630.00	9616.51	8987.74	-3851.44	1747218.85	425612.68	39°39'57.1366"N	80°17'9.8476"W	9778.19	336.804	0.69	-0.63	-0.30
18203.00	90.370	327.000	8160.54	6629.54	9711.50	9067.34	-3903.29	1747166.99	425692.27	39°39'57.9187"N	80°17'10.5197"W	9871.79	336.709	0.27	0.20	0.18
18298.00	90.180	326.980	8160.09	6629.09	9806.49	9147.00	-3955.05	1747115.24	425771.93	39°39'58.7015"N	80°17'11.1904"W	9965.44	336.617	0.20	-0.20	-0.02
18393.00	90.220	326.810	8159.75	6628.75	9901.49	9226.58	-4006.93	1747063.36	425851.50	39°39'59.4834"N	80°17'11.8628"W	10059.09	336.526	0.18	0.04	-0.18
18488.00	90.370	326.930	8159.26	6628.26	9996.49	9306.13	-4058.86	1747011.44	425931.05	39°40'0.2652"N	80°17'12.5356"W	10152.76	336.436	0.20	0.16	0.13
18582.00	90.550	327.090	8158.51	6627.51	10090.48	9384.98	-4110.04	1746960.27	426009.89	39°40'1.0399"N	80°17'13.1989"W	10245.49	336.350	0.26	0.19	0.17
18677.00	90.370	326.880	8157.75	6626.75	10185.47	9464.61	-4161.83	1746908.47	426089.52	39°40'1.8224"N	80°17'13.8701"W	10339.23	336.264	0.38	-0.19	-0.27

RECEIVED
Department of
Oil and Gas
Division of
Oil and Gas
R 09 2025
Division of
Oil and Gas

22 of 28

Actual Wellpath Report

Phoenix 5H AWP Proj: 21858'

Page 9 of 12

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 5H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 5H.AWB
Slot	Slot 05		

WELLPATH DATA (245 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]
18771.00	90.370	326.990	8157.14	6626.14	10279.46	9543.36	-4213.15	1746857.16	426168.27	39°40'2.5962"N	80°17'14.5352"W	10431.99	336.180	0.17	0.00	0.17
18866.00	90.120	326.530	8156.73	6625.73	10374.46	9622.82	-4265.22	1746805.09	426247.72	39°40'3.3769"N	80°17'15.2099"W	10525.72	336.095	0.55	-0.26	-0.48
18961.00	90.400	326.650	8156.30	6625.30	10469.46	9702.12	-4317.53	1746752.78	426327.01	39°40'4.1561"N	80°17'15.8877"W	10619.43	336.010	0.32	0.29	0.13
19056.00	89.780	326.580	8156.15	6625.15	10564.46	9781.44	-4369.81	1746700.51	426406.33	39°40'4.9355"N	80°17'16.5651"W	10713.16	335.928	0.66	-0.65	-0.07
19150.00	90.090	326.430	8156.26	6625.26	10658.45	9859.83	-4421.68	1746648.64	426484.72	39°40'5.7057"N	80°17'17.2372"W	10805.90	335.846	0.37	0.33	-0.16
19245.00	90.000	326.720	8156.19	6625.19	10753.45	9939.12	-4474.01	1746596.31	426564.00	39°40'6.4847"N	80°17'17.9153"W	10899.67	335.766	0.32	-0.09	0.31
19339.00	89.630	326.620	8156.49	6625.49	10847.45	10017.66	-4525.66	1746544.67	426642.53	39°40'7.2564"N	80°17'18.5846"W	10992.50	335.688	0.41	-0.39	-0.11
19434.00	89.850	326.740	8156.92	6625.92	10942.45	10097.04	-4577.84	1746492.49	426721.91	39°40'8.0363"N	80°17'19.2608"W	11086.34	335.611	0.26	0.23	0.13
19529.00	89.540	326.680	8157.43	6626.43	11037.45	10176.45	-4629.99	1746440.35	426801.32	39°40'8.8166"N	80°17'19.9365"W	11180.20	335.536	0.33	-0.33	-0.06
19624.00	89.780	326.470	8157.99	6626.99	11132.44	10255.74	-4682.32	1746388.02	426880.60	39°40'9.5956"N	80°17'20.6146"W	11274.05	335.461	0.34	0.25	-0.22
19718.00	89.910	326.700	8158.24	6627.24	11226.44	10334.20	-4734.08	1746336.26	426959.06	39°40'10.3665"N	80°17'21.2853"W	11366.93	335.388	0.28	0.14	0.24
19813.00	89.970	326.330	8158.34	6627.34	11321.44	10413.43	-4786.50	1746283.85	427038.28	39°40'11.1449"N	80°17'21.9645"W	11460.81	335.314	0.39	0.06	-0.39
19908.00	89.910	326.720	8158.44	6627.44	11416.44	10492.67	-4838.89	1746231.45	427117.52	39°40'11.9235"N	80°17'22.6435"W	11554.70	335.242	0.42	-0.06	0.41
20002.00	89.910	326.930	8158.59	6627.59	11510.44	10571.35	-4890.33	1746180.02	427196.19	39°40'12.6966"N	80°17'23.3101"W	11647.69	335.175	0.22	0.00	0.22
20087.00	89.940	326.750	8158.72	6627.72	11605.44	10650.88	-4942.29	1746128.06	427275.72	39°40'13.4780"N	80°17'23.9835"W	11741.70	335.107	0.19	0.03	-0.19
20192.00	90.030	326.700	8158.74	6627.74	11700.43	10730.30	-4994.42	1746075.94	427355.14	39°40'14.2584"N	80°17'24.8590"W	11835.69	335.040	0.11	0.09	-0.05
20286.00	89.600	325.540	8159.04	6628.04	11794.43	10808.34	-5046.82	1746023.54	427433.17	39°40'15.0250"N	80°17'25.3378"W	11928.56	334.970	1.32	-0.46	-1.23
20381.00	89.720	325.670	8159.61	6628.61	11889.42	10886.73	-5100.48	1745969.88	427511.55	39°40'15.7950"N	80°17'26.0329"W	12022.30	334.897	0.19	0.13	0.14
20476.00	89.970	325.510	8159.86	6628.86	11984.41	10965.11	-5154.17	1745916.20	427589.93	39°40'16.5649"N	80°17'26.7282"W	12116.06	334.824	0.31	0.26	-0.17
20570.00	89.850	325.520	8160.01	6629.01	12078.40	11042.59	-5207.39	1745862.98	427667.40	39°40'17.3260"N	80°17'27.4176"W	12208.83	334.753	0.13	-0.13	0.01
20665.00	89.600	325.330	8160.47	6629.47	12173.39	11120.81	-5261.30	1745809.07	427745.62	39°40'18.0943"N	80°17'28.1158"W	12302.59	334.681	0.33	-0.26	-0.20
20760.00	90.000	325.940	8160.80	6629.80	12268.38	11199.23	-5314.92	1745755.45	427824.03	39°40'18.8646"N	80°17'28.8104"W	12396.41	334.612	0.77	0.42	0.64
20854.00	89.570	325.120	8161.15	6630.15	12362.37	11276.72	-5368.12	1745702.26	427901.52	39°40'19.6258"N	80°17'29.4994"W	12489.24	334.544	0.98	-0.46	-0.87
20949.00	89.780	325.370	8161.69	6630.69	12457.35	11354.77	-5422.28	1745648.11	427979.57	39°40'20.3924"N	80°17'30.2008"W	12583.00	334.474	0.34	0.22	0.26
21043.00	89.690	324.960	8162.13	6631.13	12551.32	11431.93	-5475.97	1745594.41	428056.72	39°40'21.1502"N	80°17'30.8961"W	12675.77	334.405	0.45	-0.10	-0.44
21138.00	89.750	326.660	8162.59	6631.59	12646.31	11510.50	-5529.35	1745541.04	428135.29	39°40'21.9221"N	80°17'31.5876"W	12769.71	334.342	1.79	0.06	1.79
21233.00	89.660	326.580	8163.08	6632.08	12741.31	11589.83	-5581.62	1745488.77	428214.61	39°40'22.7015"N	80°17'32.2650"W	12863.85	334.285	0.13	-0.09	-0.08
21327.00	89.850	326.580	8163.48	6632.48	12835.31	11668.29	-5633.39	1745437.00	428293.06	39°40'23.4724"N	80°17'32.9359"W	12957.01	334.229	0.20	0.20	0.00
21422.00	89.910	326.650	8163.68	6632.68	12930.31	11747.61	-5685.67	1745384.73	428372.38	39°40'24.2517"N	80°17'33.6134"W	13051.18	334.174	0.10	0.06	0.07
21517.00	89.970	326.690	8163.78	6632.78	13025.31	11826.99	-5737.86	1745332.54	428451.75	39°40'25.0316"N	80°17'34.2899"W	13145.37	334.120	0.08	0.06	0.04

RECEIVED
Department of
Oil and Gas
PR 09 2021
Internal Process

234628

Actual Wellpath Report

Phoenix 5H AWP Proj: 21858'
Page 10 of 12

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 5H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 5H AWB
Slot	Slot 05		

WELLPATH DATA (245 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]
21611.00	89.880	326.810	8163.90	6632.90	13119.31	11905.60	-5789.40	1745281.00	428530.36	39°40'25.8040"N	80°17'34.9579"W	13238.60	334.067	0.16	-0.10	0.13
21706.00	89.910	326.830	8164.08	6633.08	13214.30	11985.11	-5841.39	1745229.01	428609.86	39°40'26.5852"N	80°17'35.6317"W	13332.84	334.016	0.04	0.03	0.02
21800.00	90.120	326.460	8164.05	6633.05	13308.30	12063.62	-5893.08	1745177.33	428688.38	39°40'27.3566"N	80°17'36.3016"W	13426.07	333.964	0.45	0.22	-0.39
21833.00	89.970	326.730	8164.03	6633.03	13341.30	12091.17	-5911.25	1745159.17	428715.92	39°40'27.6273"N	80°17'36.5370"W	13458.80	333.946	0.94	-0.45	0.82
21858.00‡	89.970	326.730	8164.04	6633.04	13366.30	12112.07	-5924.96	1745145.45	428736.82	39°40'27.8327"N	80°17'36.7148"W	13483.60	333.933	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Phoenix 5H AWB Ref Wellpath: Phoenix 5H AWP Proj: 21858'

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	1554.99	0.00	0.00	-2.13	-1.85
13.375in Casing Surface	28.00	1525.00	1497.00	28.00	1524.99	0.00	0.00	-2.10	-1.75
12.25in Open Hole	1555.00	2845.00	1290.00	1554.99	2844.20	-2.13	-1.85	24.08	-0.81
9.625in Casing Intermediate	28.00	2815.00	2787.00	28.00	2814.21	0.00	0.00	24.67	-0.71
8.75in Open Hole	2845.00	7754.00	4909.00	2844.20	7495.70	24.08	-0.81	555.34	1337.95
8.5in Open Hole	7754.00	21858.00	14104.00	7495.70	8164.04	555.34	1337.95	12112.07	-5924.96
5.5in Casing Production	28.00	21828.00	21800.00	28.00	8164.02	0.00	0.00	12086.99	-5908.50

RECEIVED
Office of Oil and Gas
APR 09 2025
WV Department of
Environmental Protection

2402 28

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 5H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 5H AWB
Slot	Slot 05		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Phoenix 5H LP Rev-5	8190.00	1354.23	1229.31	1752299.28	417979.64	39°38'42.1323"N	80°16'4.0457"W	point
Phoenix 5H BHL Rev-5	8641.17	12112.02	-5925.37	1745145.04	428736.77	39°40'27.8320"N	80°17'36.7200"W	point

WELLPATH COMPOSITION - Ref Wellbore: Phoenix 5H AWB Ref Wellpath: Phoenix 5H AWP Proj: 21858'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1364.00	BH Generic gyro - northseeking (Standard)	01 17.5" Gyro [Northseeking-Standard] (50' - 1364')	Phoenix 5H AWB	11/9/2023
1364.00	2728.00	OWSG MWD rev2 + HRGM	02 12.25" SDI MWD [OWSG MWD Rev.2+HRGM] (1364')(1592' - 2728')	Phoenix 5H AWB	11/9/2023
2728.00	7581.00	OWSG MWD rev2 + HRGM	03 8.75" SDI MWD [OWSG MWD Rev.2+HRGM] (2728')(3020' - 7581')	Phoenix 5H AWB	11/9/2023
7581.00	21858.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 8.5" BH ATK Curve <HRGM+Short Spacing> (7581')(7702' - 21833')	Phoenix 5H AWB	11/9/2023

RECEIVED
Office of Oil and Gas
APR 09 2025
WV Department of
Environmental Protection

254628

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Phoenix 5H
Field	Monongalia	API/Legal	
Facility	Phoenix Pad	Wellbore	Phoenix 5H AWB
Slot	Slot 05		

COMMENTS

Wellpath general comments

API: 47061019400000

BH Job #: 111974127

Rig: Patterson 277

Duration: 11/13/2023 - 11/16/2023

01_17.5" Gyro [Northseeking-Standard] (50' - 1364')

02_12.25" SDI MWD [OWSG MWD Rev.2+HRGM] (1364')(1592' - 2728')

03_8.75" SDI MWD [OWSG MWD Rev.2+HRGM] (2728')(3020' - 7581')

04_8.5" BH ATK Curve <HRGM+Short Spacing> (7581')(7702'- 21833')

Final Survey MD @ 21833'

Projected MD at TD: 21858'

RECEIVED
Office of Oil and Gas
APR 09 2025
WV Department of
Environmental Protection

21046 28