

NORTHEAST NATURAL ENERGY, LLC

Location: Monongalia County, WV
Field: Monongalia
Facility: Dolls Run Pad

Slot: Slot #3H
Well: Dolls Run 3H
Wellbore: Dolls Run 3H PWB

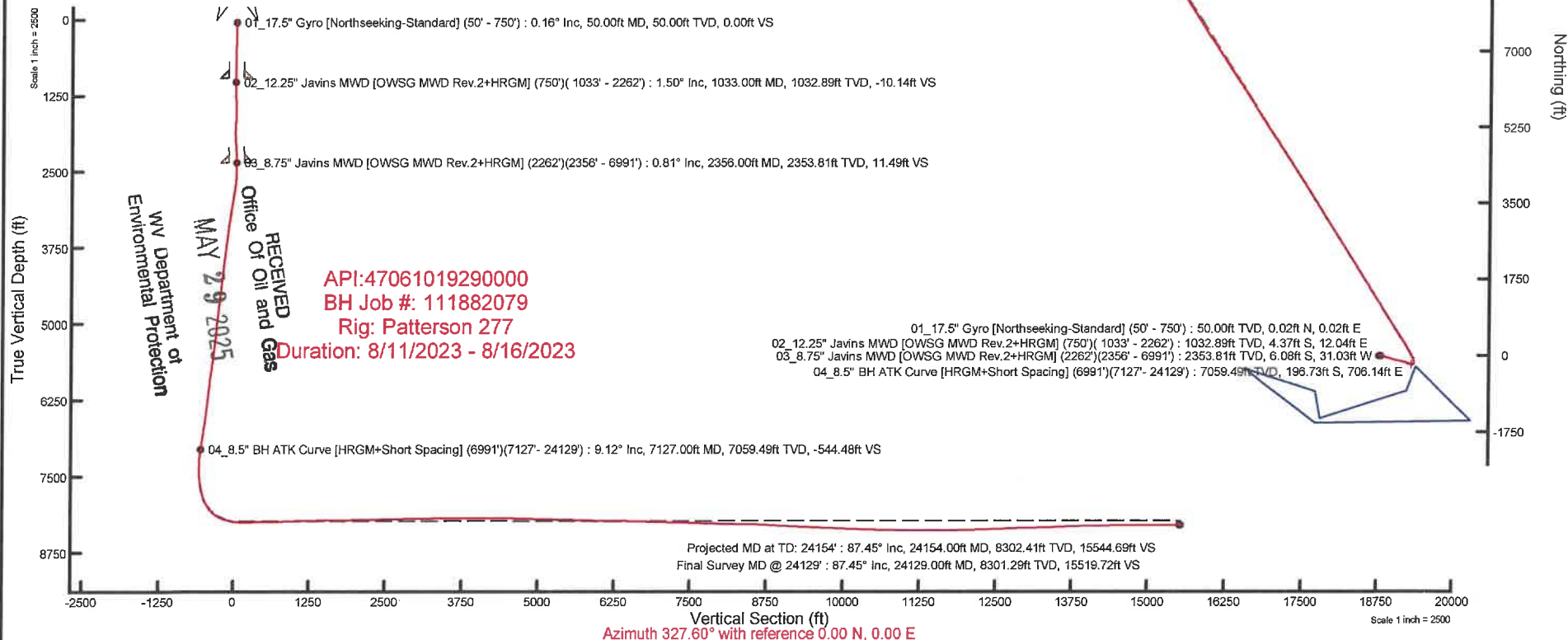
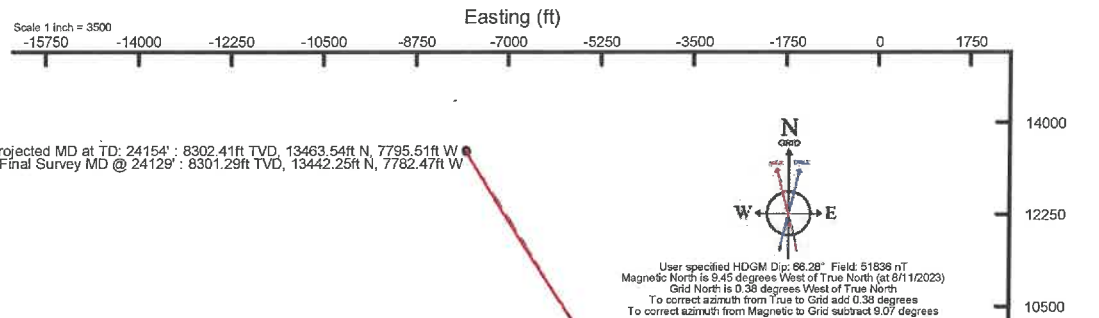


Plot reference wellpath is Dolls Run 3H Rev-A.0	Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4701) US feet
True vertical depths are referenced to Patterson 277 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to Patterson 277 (RKB)	Scale: True distance
Patterson 277 (RKB) to Mean Sea Level: 1550 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #3H): -1522 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by manoj on 2023-08-16; Database: WA_MPL_EASTERNUS.Dbt

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Dolls Run Pad	1801477.970	417816.940	39°38'44.2080"N	80°05'35.3217"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot #3H	39.52	6.17	1801484.140	417856.480	39°38'44.5870"N
Patterson 277 (RKB) to Ground level (At Slot: Slot #3H)			28ft		
Mean Sea Level to Ground level (At Slot: Slot #3H)			-1522ft		
Patterson 277 (RKB) to Mean Sea Level			1550ft		

Well Profile Data							
Design Comment	MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	8991.00	10.070	111.480	6825.40	-188.66	684.96	-526.31
Projection	7155.00	10.070	111.480	7086.87	-189.16	711.64	-548.48
Start Tangent	7661.85	11.196	20.019	7587.93	-188.98	770.06	-555.29
Curve KOP	7765.55	11.196	20.019	7690.64	-149.88	777.02	-542.90
Avoid No-Go Zone	7915.74	20.000	340.000	7834.57	-112.12	773.24	-508.99
Landing Pt	8657.69	90.000	327.599	8235.00	384.62	495.05	59.48
BHL	24143.21	90.000	327.599	8235.00	13459.26	-7802.82	15544.89

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #3H	Dolls Run 3H	Dolls Run 3H AWB	Dolls Run 3H AWP Proj: 24154'
Slot #3H	Dolls Run 3H	Dolls Run 3H PWB	Dolls Run 3H Rev-A.0



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MAY 29 2025
WV Department of
Environmental Protection

API: 47061019290000
BH Job #: 111882079
Rig: Patterson 277
Duration: 8/11/2023 - 8/16/2023

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Actual Wellpath Report

Dolls Run 3H AWP Proj: 24154'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Dolls Run 3H
Field	Monongalia	API/Legal	
Facility	Dolls Run Pad	Wellbore	Dolls Run 3H AWB
Slot	Slot #3H		

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	8/16/2023 at 5:59:56 PM
Convergence at slot	0.38° West	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	39.52	6.17	1801484.14	417856.46	39°38'44.5970"N	80°05'35.2461"W
Facility Reference Pt			1801477.97	417816.94	39°38'44.2060"N	80°05'35.3217"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	1550.00ft
Horizontal Reference Pt	Slot	Patterson 277 (RKB) to Mean Sea Level	1550.00ft
Vertical Reference Pt	Patterson 277 (RKB)	Patterson 277 (RKB) to Ground Level at Slot (Slot #3H)	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	327.60°

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Dolls Run 3H AWP Proj: 24154'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Dolls Run 3H
Field	Monongalia	API/Legal	
Facility	Dolls Run Pad	Wellbore	Dolls Run 3H AWB
Slot	Slot #3H		

WELLPATH DATA (263 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	50.870	0.00	-1550.00	0.00	0.00	0.00	1801484.14	417856.46	39°38'44.5970"N	80°05'35.2461"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	50.870	28.00	-1522.00	0.00	0.00	0.00	1801484.14	417856.46	39°38'44.5970"N	80°05'35.2461"W	0.00	0.000	0.00	0.00	0.00
50.00	0.160	50.870	50.00	-1500.00	0.00	0.02	0.02	1801484.16	417856.48	39°38'44.5971"N	80°05'35.2458"W	0.03	50.870	0.73	0.73	0.00
100.00	0.530	77.050	100.00	-1450.00	-0.07	0.12	0.30	1801484.44	417856.58	39°38'44.5981"N	80°05'35.2423"W	0.32	69.194	0.79	0.74	52.36
150.00	0.440	155.210	150.00	-1400.00	-0.33	-0.01	0.61	1801484.75	417856.45	39°38'44.5969"N	80°05'35.2383"W	0.61	90.677	1.23	-0.18	156.32
200.00	0.800	119.330	199.99	-1350.01	-0.83	-0.35	0.99	1801485.13	417856.11	39°38'44.5935"N	80°05'35.2334"W	1.05	109.524	1.03	0.72	-71.76
250.00	1.040	136.130	249.99	-1300.01	-1.58	-0.85	1.61	1801485.75	417855.61	39°38'44.5887"N	80°05'35.2254"W	1.82	117.807	0.72	0.48	33.60
300.00	0.820	113.650	299.98	-1250.02	-2.32	-1.32	2.26	1801486.39	417855.14	39°38'44.5840"N	80°05'35.2172"W	2.61	120.366	0.84	-0.44	-44.96
350.00	0.800	136.000	349.98	-1200.02	-2.96	-1.72	2.83	1801486.97	417854.74	39°38'44.5802"N	80°05'35.2099"W	3.31	121.272	0.63	-0.04	44.70
400.00	0.290	108.850	399.97	-1150.03	-3.40	-2.01	3.19	1801487.33	417854.45	39°38'44.5773"N	80°05'35.2052"W	3.77	122.207	1.12	-1.02	-54.30
450.00	0.490	82.560	449.97	-1100.03	-3.59	-2.02	3.52	1801487.66	417854.44	39°38'44.5772"N	80°05'35.2010"W	4.06	119.868	0.53	0.40	-52.58
500.00	0.460	96.850	499.97	-1050.03	-3.81	-2.02	3.93	1801488.07	417854.44	39°38'44.5773"N	80°05'35.1957"W	4.42	117.169	0.24	-0.06	28.58
550.00	0.900	124.260	549.97	-1000.03	-4.30	-2.26	4.45	1801488.59	417854.20	39°38'44.5749"N	80°05'35.1890"W	5.00	116.925	1.07	0.88	54.82
600.00	0.930	99.140	599.96	-950.04	-4.93	-2.55	5.18	1801489.32	417853.91	39°38'44.5721"N	80°05'35.1797"W	5.77	116.193	0.80	0.06	-50.24
650.00	0.910	135.700	649.96	-900.04	-5.58	-2.90	5.86	1801490.00	417853.56	39°38'44.5687"N	80°05'35.1710"W	6.53	116.312	1.15	-0.04	73.12
700.00	1.040	105.190	699.95	-850.05	-6.31	-3.30	6.57	1801490.71	417853.16	39°38'44.5648"N	80°05'35.1618"W	7.35	116.657	1.06	0.26	-61.02
750.00	0.940	145.270	749.94	-800.06	-7.05	-3.76	7.24	1801491.38	417852.70	39°38'44.5603"N	80°05'35.1532"W	8.16	117.403	1.37	-0.20	80.16
1033.00	1.500	69.540	1032.89	-517.11	-10.14	-4.37	12.04	1801496.18	417852.09	39°38'44.5546"N	80°05'35.0919"W	12.81	109.946	0.55	0.20	-26.76
1127.00	1.100	2.880	1126.87	-423.13	-9.66	-3.04	13.24	1801497.37	417853.42	39°38'44.5678"N	80°05'35.0767"W	13.58	102.924	1.56	-0.43	-70.91
1222.00	2.020	322.690	1221.84	-328.16	-7.24	-0.79	12.27	1801496.41	417855.67	39°38'44.5899"N	80°05'35.0892"W	12.29	93.707	1.45	0.97	-42.31
1317.00	2.850	317.290	1316.75	-233.25	-3.25	2.27	9.65	1801493.79	417858.73	39°38'44.6200"N	80°05'35.1230"W	9.91	76.749	0.91	0.87	-5.68
1411.00	2.400	276.810	1410.66	-139.34	0.29	4.22	6.11	1801490.25	417860.68	39°38'44.6391"N	80°05'35.1684"W	7.43	55.348	1.98	-0.48	-43.06
1506.00	3.070	240.510	1505.56	-44.44	1.68	3.21	1.92	1801486.06	417859.67	39°38'44.6288"N	80°05'35.2218"W	3.74	30.914	1.91	0.71	-38.21
1601.00	3.750	203.000	1600.40	50.40	0.04	-0.91	-1.51	1801482.63	417855.55	39°38'44.5879"N	80°05'35.2653"W	1.76	239.013	2.40	0.72	-39.48
1695.00	4.460	180.440	1694.17	144.17	-4.77	-7.39	-2.74	1801481.40	417849.07	39°38'44.5237"N	80°05'35.2805"W	7.88	200.326	1.86	0.76	-24.00
1789.00	4.020	189.540	1787.91	237.91	-10.30	-14.29	-3.31	1801480.83	417842.17	39°38'44.4555"N	80°05'35.2873"W	14.67	193.044	0.85	-0.47	9.68
1884.00	1.870	274.820	1882.81	332.81	-11.84	-17.45	-5.41	1801478.73	417839.01	39°38'44.4241"N	80°05'35.3138"W	18.27	197.223	4.52	-2.26	89.77
1978.00	3.750	324.080	1976.71	426.71	-7.84	-14.83	-8.74	1801475.40	417841.63	39°38'44.4498"N	80°05'35.3566"W	17.22	210.515	3.08	2.00	52.40
2073.00	4.290	308.730	2071.48	521.48	-1.38	-10.09	-13.34	1801470.80	417846.37	39°38'44.4963"N	80°05'35.4158"W	16.72	232.883	1.26	0.57	-16.16
2168.00	4.960	280.850	2166.18	616.18	4.80	-7.10	-20.14	1801464.00	417849.36	39°38'44.5255"N	80°05'35.5030"W	21.36	250.594	2.44	0.71	-29.35

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Dolls Run 3H AWP Proj: 24154'

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REFERENCE WELLPATH IDENTIFICATION

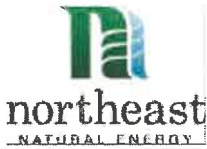
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Dolls Run 3H
Field	Monongalia	API/Legal	
Facility	Dolls Run Pad	Wellbore	Dolls Run 3H AWP
Slot	Slot #3H		

WELLPATH DATA (263 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]
2262.00	3.820	273.650	2259.90	709.90	9.43	-6.13	-27.26	1801456.88	417850.33	39°38'44.5346"N	80°05'35.5941"W	27.94	257.323	1.34	-1.21	-7.66
2356.00	0.810	257.080	2353.81	803.81	11.49	-6.08	-31.03	1801453.11	417850.38	39°38'44.5348"N	80°05'35.6423"W	31.62	258.914	3.25	-3.20	-17.63
2431.00	0.670	99.750	2428.81	878.81	11.38	-6.27	-31.12	1801453.03	417850.19	39°38'44.5329"N	80°05'35.6434"W	31.74	258.602	1.94	-0.19	-209.77
2528.00	4.130	77.690	2525.71	975.71	9.80	-5.62	-27.14	1801457.00	417850.84	39°38'44.5396"N	80°05'35.5926"W	27.72	258.293	3.63	3.57	-22.74
2623.00	9.090	86.720	2620.05	1070.05	4.97	-4.46	-16.30	1801467.84	417852.00	39°38'44.5518"N	80°05'35.4541"W	16.90	254.683	5.32	5.22	9.51
2718.00	11.750	85.060	2713.48	1163.48	-3.15	-3.20	0.83	1801484.97	417853.26	39°38'44.5654"N	80°05'35.2352"W	3.31	165.473	2.82	2.80	-1.75
2812.00	13.440	89.170	2805.22	1255.22	-13.28	-2.22	21.29	1801505.43	417854.24	39°38'44.5764"N	80°05'34.9738"W	21.41	95.953	2.03	1.80	4.37
2907.00	13.650	96.090	2897.58	1347.58	-26.04	-3.25	43.48	1801527.61	417853.21	39°38'44.5677"N	80°05'34.6901"W	43.60	94.274	1.72	0.22	7.28
3002.00	12.910	101.970	2990.04	1440.04	-40.44	-6.64	65.01	1801549.14	417849.82	39°38'44.5356"N	80°05'34.4146"W	65.34	95.832	1.62	-0.78	6.19
3096.00	11.780	110.180	3081.87	1531.87	-55.40	-12.13	84.29	1801568.42	417844.33	39°38'44.4826"N	80°05'34.1676"W	85.16	98.188	2.22	-1.20	8.73
3191.00	11.220	106.450	3174.97	1624.97	-70.06	-18.09	102.25	1801586.39	417838.37	39°38'44.4248"N	80°05'33.9374"W	103.84	100.033	0.98	-0.58	-3.93
3286.00	10.910	112.190	3268.21	1718.21	-84.35	-24.10	119.44	1801603.58	417832.36	39°38'44.3665"N	80°05'33.7172"W	121.85	101.409	1.20	-0.33	6.04
3381.00	9.710	112.940	3361.67	1811.67	-98.27	-30.62	135.15	1801619.28	417825.84	39°38'44.3031"N	80°05'33.5159"W	138.57	102.767	1.27	-1.26	0.79
3479.00	8.980	110.060	3458.37	1908.37	-111.13	-36.47	149.94	1801634.07	417820.00	39°38'44.2463"N	80°05'33.3263"W	154.31	103.669	0.88	-0.74	-2.94
3574.00	8.710	99.600	3552.25	2002.25	-121.83	-40.21	164.00	1801648.13	417816.25	39°38'44.2103"N	80°05'33.1462"W	168.86	103.776	1.71	-0.28	-11.01
3668.00	9.740	102.220	3645.03	2095.03	-132.17	-43.08	178.79	1801662.92	417813.38	39°38'44.1829"N	80°05'32.9569"W	183.90	103.547	1.18	1.10	2.79
3763.00	10.030	102.300	3738.62	2188.62	-143.64	-46.54	194.72	1801678.85	417809.92	39°38'44.1497"N	80°05'32.7529"W	200.21	103.443	0.31	0.31	0.08
3857.00	9.630	98.980	3831.24	2281.24	-154.59	-49.51	210.49	1801694.62	417806.95	39°38'44.1213"N	80°05'32.5512"W	216.23	103.237	0.74	-0.43	-3.53
3951.00	8.980	110.400	3924.01	2374.01	-165.63	-53.30	225.13	1801709.26	417803.16	39°38'44.0849"N	80°05'32.3636"W	231.36	103.319	2.08	-0.69	12.15
4046.00	8.990	108.360	4017.84	2467.84	-177.29	-58.22	239.13	1801723.25	417798.24	39°38'44.0372"N	80°05'32.1843"W	246.11	103.684	0.34	0.01	-2.15
4141.00	8.260	103.480	4111.77	2561.77	-187.94	-62.15	252.81	1801736.93	417794.31	39°38'43.9992"N	80°05'32.0091"W	260.33	103.812	1.09	-0.77	-5.14
4236.00	8.490	110.080	4205.76	2655.76	-198.40	-66.15	266.03	1801750.15	417790.32	39°38'43.9606"N	80°05'31.8397"W	274.13	103.963	1.04	0.24	6.95
4331.00	8.540	110.340	4299.71	2749.71	-209.57	-71.01	279.23	1801763.35	417785.46	39°38'43.9134"N	80°05'31.6706"W	288.12	104.268	0.07	0.05	0.27
4428.00	7.760	105.100	4395.73	2845.73	-220.13	-75.22	292.31	1801776.43	417781.25	39°38'43.8727"N	80°05'31.5031"W	301.83	104.431	1.11	-0.80	-5.40
4523.00	9.030	109.510	4489.71	2939.71	-230.73	-79.38	305.53	1801789.65	417777.09	39°38'43.8324"N	80°05'31.3337"W	315.67	104.564	1.50	1.34	4.64
4618.00	9.040	106.690	4583.54	3033.54	-242.24	-84.01	319.70	1801803.82	417772.45	39°38'43.7875"N	80°05'31.1521"W	330.56	104.723	0.47	0.01	-2.97
4712.00	8.190	99.970	4676.48	3126.48	-252.33	-87.29	333.37	1801817.49	417769.17	39°38'43.7560"N	80°05'30.9771"W	344.61	104.673	1.40	-0.90	-7.15
4807.00	9.330	102.690	4770.37	3220.37	-262.35	-90.16	347.55	1801831.67	417766.31	39°38'43.7286"N	80°05'30.7956"W	359.05	104.542	1.28	1.20	2.86
4901.00	8.770	100.230	4863.20	3313.20	-272.60	-93.10	362.04	1801846.15	417763.36	39°38'43.7004"N	80°05'30.6102"W	373.81	104.422	0.72	-0.60	-2.62
4996.00	9.320	105.300	4957.02	3407.02	-283.19	-96.42	376.58	1801860.70	417760.05	39°38'43.6686"N	80°05'30.4239"W	388.73	104.361	1.02	0.58	15.34

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Dolls Run 3H
Field	Monongalia	API/Legal	
Facility	Dolls Run Pad	Wellbore	Dolls Run 3H AWB
Slot	Slot #3H		

WELLPATH DATA (263 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)
5090.00	8.740	102.700	5049.85	3499.85	-293.88	-100.00	390.89	1801875.01	417756.47	39°38'43.6342"N	80°05'30.2407"W	403.48	104.349	0.75	-0.62	-2.77
5185.00	8.000	94.210	5143.84	3593.84	-302.94	-102.07	404.53	1801888.64	417754.40	39°38'43.6146"N	80°05'30.0663"W	417.20	104.161	1.51	-0.78	-8.94
5279.00	8.980	102.460	5236.82	3686.82	-312.01	-104.13	418.21	1801902.33	417752.33	39°38'43.5951"N	80°05'29.8911"W	430.98	103.982	1.66	1.04	8.78
5374.00	8.790	100.300	5330.68	3780.68	-322.16	-107.03	432.60	1801916.71	417749.44	39°38'43.5674"N	80°05'29.7070"W	445.64	103.897	0.40	-0.20	-2.27
5469.00	9.590	106.960	5424.46	3874.46	-333.09	-110.64	447.31	1801931.42	417745.83	39°38'43.5327"N	80°05'29.5186"W	460.79	103.893	1.40	0.84	7.01
5567.00	9.580	106.150	5521.09	3971.09	-345.40	-115.29	462.95	1801947.06	417741.18	39°38'43.4878"N	80°05'29.3183"W	477.09	103.984	0.14	-0.01	-0.83
5662.00	8.840	101.640	5614.87	4064.87	-356.40	-118.96	477.69	1801961.80	417737.51	39°38'43.4525"N	80°05'29.1295"W	492.28	103.984	1.09	-0.78	-4.75
5757.00	10.460	107.070	5708.52	4158.52	-368.03	-122.96	493.09	1801977.20	417733.51	39°38'43.4139"N	80°05'28.9324"W	508.19	104.002	1.95	1.71	5.72
5851.00	10.220	104.670	5800.99	4250.99	-380.62	-127.58	509.31	1801993.42	417728.89	39°38'43.3693"N	80°05'28.7246"W	525.05	104.063	0.52	-0.26	-2.55
5946.00	10.150	110.300	5894.50	4344.50	-393.45	-132.62	525.31	1802009.42	417723.85	39°38'43.3206"N	80°05'28.5196"W	541.80	104.168	1.05	-0.07	5.93
6040.00	9.390	109.040	5987.14	4437.14	-406.03	-137.99	540.33	1802024.44	417718.48	39°38'43.2684"N	80°05'28.3272"W	557.67	104.326	0.84	-0.81	-1.34
6135.00	8.030	102.840	6081.04	4531.04	-416.81	-142.00	554.13	1802038.23	417714.47	39°38'43.2297"N	80°05'28.1505"W	572.03	104.373	1.74	-1.43	-6.53
6230.00	8.650	108.530	6175.04	4625.04	-427.06	-145.74	567.37	1802051.48	417710.73	39°38'43.1936"N	80°05'27.9809"W	585.79	104.406	1.09	0.65	5.99
6325.00	7.420	111.210	6269.10	4719.10	-437.55	-150.23	579.86	1802063.97	417706.24	39°38'43.1500"N	80°05'27.8208"W	599.01	104.525	1.35	-1.29	2.82
6419.00	7.100	117.080	6362.35	4812.35	-447.44	-155.07	590.69	1802074.80	417701.40	39°38'43.1029"N	80°05'27.6819"W	610.71	104.710	0.86	-0.34	6.24
6517.00	9.620	108.930	6459.30	4909.30	-459.05	-160.49	603.84	1802087.94	417695.98	39°38'43.0502"N	80°05'27.5135"W	624.80	104.884	2.84	2.57	-8.32
6612.00	9.060	104.070	6553.05	5003.05	-470.67	-164.88	618.60	1802102.70	417691.59	39°38'43.0078"N	80°05'27.3244"W	640.20	104.924	1.02	-0.59	-5.12
6706.00	10.740	108.680	6645.64	5095.64	-482.86	-169.48	634.08	1802118.18	417686.99	39°38'42.9633"N	80°05'27.1261"W	656.34	104.965	1.97	1.79	4.90
6801.00	11.860	110.090	6738.80	5188.80	-497.49	-175.67	651.63	1802135.73	417680.80	39°38'42.9033"N	80°05'26.9012"W	674.90	105.088	1.21	1.18	1.48
6896.00	10.740	111.870	6831.96	5281.96	-512.42	-182.32	669.01	1802153.11	417674.15	39°38'42.8387"N	80°05'26.6784"W	693.41	105.244	1.23	-1.18	1.87
6991.00	10.070	111.480	6925.40	5375.40	-526.31	-188.66	684.96	1802169.06	417667.81	39°38'42.7771"N	80°05'26.4741"W	710.47	105.399	0.71	-0.71	-0.41
7127.00	9.120	110.180	7059.49	5509.49	-544.48	-196.73	706.14	1802190.24	417659.74	39°38'42.6987"N	80°05'26.2026"W	733.03	105.568	0.72	-0.70	-0.96
7222.00	11.870	94.760	7152.91	5602.91	-556.36	-200.14	722.95	1802207.05	417656.33	39°38'42.6661"N	80°05'25.9875"W	750.14	105.474	4.11	2.89	-16.23
7316.00	8.620	79.210	7245.42	5695.42	-564.80	-199.63	739.51	1802223.61	417656.85	39°38'42.6722"N	80°05'25.7758"W	765.98	105.107	4.51	-3.46	-16.54
7411.00	8.600	57.330	7339.37	5789.37	-567.39	-194.46	752.49	1802236.58	417662.01	39°38'42.7242"N	80°05'25.6103"W	777.21	104.489	3.43	-0.02	-23.03
7505.00	8.630	42.570	7432.32	5882.32	-565.53	-185.47	763.18	1802247.27	417671.00	39°38'42.8137"N	80°05'25.4745"W	785.39	103.659	2.35	0.03	-15.70
7600.00	8.650	26.750	7526.26	5976.26	-560.01	-173.84	771.21	1802255.31	417682.63	39°38'42.9292"N	80°05'25.3727"W	790.56	102.703	2.49	0.02	-16.65
7695.00	10.410	19.750	7619.95	6069.95	-551.08	-159.38	777.33	1802261.42	417697.09	39°38'43.0724"N	80°05'25.2957"W	793.50	101.587	2.21	1.85	-7.37
7790.00	14.840	359.400	7712.67	6162.67	-535.46	-139.12	780.11	1802264.20	417717.35	39°38'43.2729"N	80°05'25.2619"W	792.41	100.111	6.54	4.66	-21.42
7884.00	16.280	331.790	7803.35	6253.35	-512.06	-115.44	773.74	1802257.84	417741.03	39°38'43.5065"N	80°05'25.3453"W	782.31	98.485	7.95	1.53	-29.37

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Dolls Run 3H
Field	Monongalia	API/Legal	
Facility	Dolls Run Pad	Wellbore	Dolls Run 3H AWB
Slot	Slot #3H		

WELLPATH DATA (263 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]
7979.00	22.420	333.670	7892.94	6342.94	-480.73	-87.44	759.40	1802243.49	417769.03	39°38'43.7823"N	80°05'25.5310"W	764.42	96.568	6.50	6.46	1.98
8073.00	31.720	334.190	7976.55	6426.55	-438.27	-49.04	740.65	1802224.74	417807.42	39°38'44.1605"N	80°05'25.7739"W	742.27	93.788	9.90	9.89	0.55
8168.00	42.180	334.920	8052.37	6502.37	-381.67	2.47	716.19	1802200.28	417858.93	39°38'44.6680"N	80°05'26.0909"W	716.19	89.802	11.02	11.01	0.77
8263.00	52.330	333.520	8116.76	6566.76	-312.45	65.18	685.82	1802169.92	417921.63	39°38'45.2857"N	80°05'26.4844"W	688.91	84.571	10.74	10.68	-1.47
8357.00	62.810	330.830	8167.11	6617.11	-233.48	135.19	648.75	1802132.85	417991.64	39°38'45.9752"N	80°05'26.9642"W	662.69	78.229	11.41	11.15	-2.86
8452.00	72.720	329.340	8203.02	6653.02	-145.73	211.29	604.92	1802089.02	418067.74	39°38'46.7245"N	80°05'27.5309"W	640.75	70.746	10.53	10.43	-1.57
8547.00	76.520	329.580	8228.21	6678.21	-54.20	290.17	558.38	1802042.49	418146.61	39°38'47.5009"N	80°05'28.1324"W	629.27	62.541	4.01	4.00	0.25
8641.00	85.900	329.290	8242.55	6692.55	38.54	370.06	511.19	1801995.30	418226.50	39°38'48.2875"N	80°05'28.7424"W	631.08	54.098	9.98	9.98	-0.31
8735.00	89.850	326.770	8246.04	6696.04	132.45	449.73	461.47	1801945.58	418306.16	39°38'49.0715"N	80°05'29.3848"W	644.37	45.738	4.98	4.20	-2.68
8830.00	90.620	327.020	8245.65	6695.65	227.44	529.30	409.58	1801893.70	418385.73	39°38'49.8546"N	80°05'30.0548"W	669.27	37.733	0.85	0.81	0.26
8924.00	91.020	327.650	8244.31	6694.31	321.43	608.43	358.85	1801842.97	418464.85	39°38'50.6333"N	80°05'30.7099"W	706.37	30.532	0.79	0.43	0.67
9018.00	91.110	327.250	8242.56	6692.56	415.41	687.65	308.29	1801792.41	418544.07	39°38'51.4129"N	80°05'31.3631"W	753.59	24.148	0.44	0.10	-0.43
9113.00	91.050	327.410	8240.77	6690.77	510.40	767.61	257.02	1801741.14	418624.02	39°38'52.1997"N	80°05'32.0252"W	809.49	18.512	0.18	-0.06	0.17
9208.00	90.340	326.750	8239.62	6689.62	605.38	847.34	205.39	1801689.52	418703.75	39°38'52.9844"N	80°05'32.6919"W	871.88	13.625	1.02	-0.75	-0.69
9302.00	90.520	327.740	8238.91	6688.91	699.38	926.39	154.53	1801638.66	418782.80	39°38'53.7623"N	80°05'33.3487"W	939.20	9.470	1.07	0.19	1.05
9397.00	91.690	327.930	8237.08	6687.08	794.36	1006.80	103.97	1801588.10	418863.20	39°38'54.5536"N	80°05'34.0019"W	1012.15	5.896	1.25	1.23	0.20
9492.00	93.170	329.140	8233.05	6683.05	889.25	1087.75	54.43	1801538.57	418944.15	39°38'55.3504"N	80°05'34.6421"W	1089.11	2.865	2.01	1.56	1.27
9586.00	91.880	327.450	8228.91	6678.91	983.15	1167.64	5.08	1801489.22	419024.03	39°38'56.1367"N	80°05'35.2798"W	1167.65	0.249	2.26	-1.37	-1.80
9681.00	91.290	327.750	8226.28	6676.28	1078.11	1247.82	-45.81	1801438.34	419104.21	39°38'56.9258"N	80°05'35.9370"W	1248.66	357.898	0.70	-0.62	0.32
9775.00	91.170	327.420	8224.26	6674.26	1172.09	1327.16	-96.18	1801387.96	419183.54	39°38'57.7066"N	80°05'36.5878"W	1330.64	355.855	0.37	-0.13	-0.35
9870.00	91.480	327.620	8222.07	6672.07	1267.07	1407.28	-147.18	1801336.96	419263.65	39°38'58.4950"N	80°05'37.2465"W	1414.95	354.029	0.39	0.33	0.21
9965.00	91.230	327.510	8219.82	6669.82	1362.04	1487.43	-198.12	1801286.03	419343.80	39°38'59.2839"N	80°05'37.9045"W	1500.57	352.413	0.29	-0.26	-0.12
10059.00	90.860	327.380	8218.11	6668.11	1456.02	1566.65	-248.70	1801235.46	419423.01	39°39'0.0635"N	80°05'38.5578"W	1586.27	350.980	0.42	-0.39	-0.14
10154.00	90.740	327.890	8216.78	6666.78	1551.01	1646.88	-299.55	1801184.61	419503.24	39°39'0.8531"N	80°05'39.2146"W	1673.90	349.691	0.55	-0.13	0.54
10249.00	90.770	327.640	8215.53	6665.53	1646.01	1727.23	-350.21	1801133.95	419583.59	39°39'1.6438"N	80°05'39.8692"W	1762.38	348.538	0.27	0.03	-0.26
10343.00	90.830	327.640	8214.21	6664.21	1740.00	1806.63	-400.52	1801083.64	419662.98	39°39'2.4252"N	80°05'40.5191"W	1850.49	347.500	0.06	0.06	0.00
10438.00	90.830	327.440	8212.84	6662.84	1834.99	1886.78	-451.50	1801032.66	419743.12	39°39'3.2139"N	80°05'41.1776"W	1940.05	346.542	0.21	0.00	-0.21
10532.00	90.680	327.530	8211.60	6661.60	1928.98	1966.04	-502.03	1800982.14	419822.38	39°39'3.9939"N	80°05'41.8302"W	2029.12	345.676	0.19	-0.16	0.10
10627.00	90.890	327.530	8210.30	6660.30	2023.97	2046.18	-553.02	1800931.15	419902.51	39°39'4.7826"N	80°05'42.4890"W	2119.59	344.876	0.22	0.22	0.00
10721.00	90.620	327.520	8209.06	6659.06	2117.96	2125.47	-603.49	1800880.69	419981.80	39°39'5.5629"N	80°05'43.1409"W	2209.49	344.149	0.29	-0.29	-0.01

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Dolls Run 3H AWP Proj: 24154'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Dolls Run 3H
Field	Monongalia	API/Legal	
Facility	Dolls Run Pad	Wellbore	Dolls Run 3H AWB
Slot	Slot #3H		

WELLPATH DATA (263 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]
10816.00	91.420	327.760	8207.37	6657.37	2212.94	2205.70	-654.33	1800829.85	420062.03	39°39'6.3525"N	80°05'43.7977"W	2300.71	343.477	0.88	0.84	0.25
10909.00	91.260	327.500	8205.19	6655.19	2305.92	2284.23	-704.11	1800780.08	420140.55	39°39'7.1253"N	80°05'44.4407"W	2390.29	342.868	0.33	-0.17	-0.28
11004.00	91.290	327.500	8203.08	6653.08	2400.90	2364.33	-755.14	1800729.05	420220.65	39°39'7.9136"N	80°05'45.0999"W	2482.00	342.287	0.03	0.03	0.00
11099.00	91.320	327.470	8200.92	6650.92	2495.87	2444.42	-806.19	1800678.00	420300.73	39°39'8.7017"N	80°05'45.7594"W	2573.93	341.747	0.04	0.03	-0.03
11193.00	91.230	327.410	8198.82	6648.82	2589.85	2523.63	-856.76	1800627.43	420379.93	39°39'9.4812"N	80°05'46.4127"W	2665.10	341.248	0.12	-0.10	-0.06
11288.00	91.260	327.710	8196.76	6646.76	2684.82	2603.78	-907.71	1800576.48	420460.09	39°39'10.2700"N	80°05'47.0709"W	2757.47	340.781	0.32	0.03	0.32
11382.00	91.200	327.620	8194.74	6644.74	2778.80	2683.19	-957.98	1800526.22	420539.49	39°39'11.0514"N	80°05'47.7203"W	2849.08	340.352	0.12	-0.06	-0.10
11476.00	90.860	327.630	8193.05	6643.05	2872.79	2762.57	-1008.30	1800475.90	420618.86	39°39'11.8326"N	80°05'48.3704"W	2940.82	339.949	0.36	-0.36	0.01
11570.00	90.710	327.390	8191.77	6641.77	2966.78	2841.85	-1058.79	1800425.41	420698.13	39°39'12.6128"N	80°05'49.0226"W	3032.68	339.566	0.30	-0.16	-0.26
11664.00	90.950	327.760	8190.40	6640.40	3060.77	2921.18	-1109.19	1800375.02	420777.46	39°39'13.3935"N	80°05'49.6737"W	3124.68	339.208	0.47	0.26	0.39
11758.00	91.200	328.020	8188.64	6638.64	3154.75	3000.79	-1159.14	1800325.07	420857.07	39°39'14.1770"N	80°05'50.3191"W	3216.89	338.879	0.38	0.27	0.28
11853.00	91.200	327.540	8186.65	6636.65	3249.73	3081.14	-1209.78	1800274.43	420937.41	39°39'14.9677"N	80°05'50.9734"W	3310.14	338.563	0.51	0.00	-0.51
11948.00	91.480	328.170	8184.43	6634.43	3344.70	3161.56	-1260.32	1800223.90	421017.82	39°39'15.7591"N	80°05'51.6263"W	3403.50	338.266	0.73	0.29	0.66
12043.00	91.290	327.400	8182.13	6632.13	3439.67	3241.91	-1310.94	1800173.28	421098.17	39°39'16.5499"N	80°05'52.2804"W	3496.93	337.983	0.83	-0.20	-0.81
12137.00	90.000	327.380	8181.07	6631.07	3533.66	3321.08	-1361.60	1800122.62	421177.34	39°39'17.3290"N	80°05'52.9348"W	3589.36	337.707	1.37	-1.37	-0.02
12232.00	90.150	327.630	8180.95	6630.95	3628.66	3401.21	-1412.64	1800071.59	421257.46	39°39'18.1175"N	80°05'53.5941"W	3682.90	337.445	0.31	0.16	0.26
12327.00	90.860	327.650	8180.11	6630.11	3723.66	3481.45	-1463.48	1800020.75	421337.70	39°39'18.9072"N	80°05'54.2510"W	3776.54	337.200	0.75	0.75	0.02
12421.00	90.030	327.560	8179.38	6629.38	3817.66	3560.82	-1513.84	1799970.39	421417.06	39°39'19.6882"N	80°05'54.9016"W	3869.26	336.968	0.89	-0.88	-0.10
12516.00	90.000	327.580	8179.36	6629.36	3912.66	3641.00	-1564.78	1799919.45	421497.24	39°39'20.4773"N	80°05'55.5598"W	3963.01	336.744	0.04	-0.03	0.02
12611.00	89.940	327.480	8179.41	6629.41	4007.66	3721.15	-1615.79	1799868.45	421577.39	39°39'21.2661"N	80°05'56.2187"W	4056.82	336.529	0.12	-0.06	-0.11
12705.00	89.200	327.360	8180.11	6630.11	4101.65	3800.36	-1666.40	1799817.84	421656.59	39°39'22.0455"N	80°05'56.8726"W	4149.65	336.323	0.80	-0.79	-0.13
12800.00	89.510	327.420	8181.18	6631.18	4196.64	3880.38	-1717.60	1799766.65	421736.60	39°39'22.8329"N	80°05'57.5340"W	4243.52	336.124	0.33	0.33	0.06
12894.00	89.200	326.630	8182.24	6632.24	4290.63	3959.23	-1768.75	1799715.50	421815.45	39°39'23.6088"N	80°05'58.1948"W	4336.36	335.928	0.90	-0.33	-0.84
12989.00	89.260	327.060	8183.52	6633.52	4385.62	4038.76	-1820.70	1799663.55	421894.97	39°39'24.3913"N	80°05'58.8658"W	4430.18	335.734	0.46	0.06	0.45
13083.00	89.350	327.640	8184.66	6634.66	4479.61	4117.90	-1871.41	1799612.84	421974.10	39°39'25.1701"N	80°05'59.5209"W	4523.19	335.560	0.62	0.10	0.62
13178.00	89.290	327.410	8185.78	6635.78	4574.60	4198.03	-1922.42	1799561.84	422054.24	39°39'25.9587"N	80°06'0.1799"W	4617.27	335.395	0.25	-0.06	-0.24
13273.00	89.260	327.570	8186.99	6636.99	4669.59	4278.14	-1973.47	1799510.79	422134.34	39°39'26.7470"N	80°06'0.8395"W	4711.38	335.237	0.17	-0.03	0.17
13367.00	88.520	327.410	8188.81	6638.81	4763.57	4357.40	-2023.98	1799460.28	422213.59	39°39'27.5269"N	80°06'1.4921"W	4804.52	335.085	0.81	-0.79	-0.17
13462.00	87.570	326.730	8192.05	6642.05	4858.51	4437.08	-2075.59	1799408.67	422293.27	39°39'28.3110"N	80°06'2.1588"W	4898.55	334.931	1.23	-1.00	-0.72
13556.00	88.370	327.240	8195.38	6645.38	4952.45	4515.86	-2126.78	1799357.49	422372.04	39°39'29.0861"N	80°06'2.8199"W	4991.61	334.782	1.01	0.85	0.54

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Dolls Run 3H AWP Proj: 24154'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Dolls Run 3H
Field	Monongalia	API/Legal	
Facility	Dolls Run Pad	Wellbore	Dolls Run 3H AWB
Slot	Slot #3H		

WELLPATH DATA (263 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]
13651.00	88.400	327.550	8198.06	6648.06	5047.41	4595.85	2177.95	1799306.32	422452.03	39°39'29.8733"N	80°06'3.4810"W	5085.80	334.644	0.33	0.03	0.33
13746.00	88.520	327.750	8200.61	6650.61	5142.38	4676.08	2228.76	1799255.51	422532.25	39°39'30.6628"N	80°06'4.1376"W	5180.07	334.516	0.25	0.13	0.21
13840.00	88.520	327.340	8203.04	6653.04	5236.34	4755.37	2279.19	1799205.09	422611.54	39°39'31.4431"N	80°06'4.7891"W	5273.35	334.392	0.44	0.00	-0.44
13935.00	88.580	327.680	8205.44	6655.44	5331.31	4835.48	2330.20	1799154.08	422691.64	39°39'32.2314"N	80°06'5.4482"W	5367.65	334.271	0.36	0.06	0.36
14029.00	88.370	327.230	8207.94	6657.94	5425.28	4914.69	2380.75	1799103.53	422770.85	39°39'33.0109"N	80°06'6.1014"W	5460.97	334.154	0.53	-0.22	-0.48
14124.00	88.890	327.620	8210.21	6660.21	5520.25	4994.72	2431.89	1799052.40	422850.87	39°39'33.7984"N	80°06'6.7620"W	5555.29	334.039	0.68	0.55	0.41
14218.00	88.680	327.120	8212.21	6662.21	5614.23	5073.87	2482.56	1799001.73	422930.01	39°39'34.5772"N	80°06'7.4167"W	5648.65	333.928	0.58	-0.22	-0.53
14313.00	88.400	327.450	8214.63	6664.63	5709.20	5153.77	2533.89	1798950.41	423009.91	39°39'35.3635"N	80°06'8.0798"W	5742.99	333.819	0.46	-0.29	0.35
14408.00	88.680	327.590	8217.05	6667.05	5804.17	5233.88	2584.89	1798899.41	423090.02	39°39'36.1518"N	80°06'8.7388"W	5837.39	333.716	0.33	0.29	0.15
14502.00	88.710	326.730	8219.19	6669.19	5898.14	5312.84	2635.85	1798848.45	423168.97	39°39'36.9288"N	80°06'9.3972"W	5930.76	333.613	0.82	0.03	-0.91
14596.00	88.580	327.140	8221.41	6671.41	5992.10	5391.59	2687.12	1798797.18	423247.72	39°39'37.7037"N	80°06'10.0595"W	6024.11	333.509	0.46	-0.14	0.44
14691.00	89.420	327.410	8223.07	6673.07	6087.09	5471.50	2738.47	1798745.84	423327.63	39°39'38.4900"N	80°06'10.7229"W	6118.54	333.412	0.93	0.88	0.28
14786.00	89.260	327.060	8224.16	6674.16	6182.08	5551.38	2789.88	1798694.43	423407.50	39°39'39.2760"N	80°06'11.3871"W	6212.99	333.318	0.41	-0.17	-0.37
14881.00	89.600	327.800	8225.11	6675.11	6277.07	5631.44	2841.02	1798643.30	423487.55	39°39'40.0638"N	80°06'12.0478"W	6307.49	333.229	0.86	0.36	0.78
14975.00	89.140	327.210	8226.14	6676.14	6371.07	5710.72	2891.51	1798592.80	423566.83	39°39'40.8439"N	80°06'12.7003"W	6401.02	333.145	0.80	-0.49	-0.63
15070.00	88.710	327.420	8227.93	6677.93	6466.05	5790.66	2942.81	1798541.51	423646.76	39°39'41.6305"N	80°06'13.3630"W	6495.52	333.060	0.50	-0.45	0.22
15164.00	88.400	327.300	8230.30	6680.30	6560.02	5869.79	2993.49	1798490.83	423725.89	39°39'42.4092"N	80°06'14.0179"W	6589.04	332.979	0.35	-0.33	-0.13
15259.00	88.740	327.660	8232.67	6682.67	6654.99	5949.87	3044.55	1798439.78	423805.96	39°39'43.1972"N	80°06'14.6776"W	6683.57	332.901	0.52	0.36	0.38
15354.00	88.520	327.510	8234.94	6684.94	6749.96	6030.04	3095.46	1798388.87	423886.13	39°39'43.9861"N	80°06'15.3355"W	6778.14	332.827	0.28	-0.23	-0.16
15448.00	88.490	327.530	8237.39	6687.39	6843.93	6109.31	3145.92	1798338.42	423965.40	39°39'44.7662"N	80°06'15.9875"W	6871.72	332.754	0.04	-0.03	0.02
15543.00	88.460	327.570	8239.92	6689.92	6938.89	6189.45	3196.87	1798287.46	424045.53	39°39'45.5548"N	80°06'16.6459"W	6966.30	332.683	0.05	-0.03	0.04
15638.00	88.400	327.400	8242.52	6692.52	7033.86	6269.53	3247.92	1798236.42	424125.60	39°39'46.3428"N	80°06'17.3055"W	7060.87	332.614	0.19	-0.06	-0.18
15732.00	88.490	327.380	8245.07	6695.07	7127.82	6348.68	3298.56	1798185.78	424204.75	39°39'47.1216"N	80°06'17.9599"W	7154.45	332.545	0.10	0.10	-0.02
15827.00	88.860	327.420	8247.27	6697.27	7222.80	6428.69	3349.73	1798134.62	424284.76	39°39'47.9090"N	80°06'18.6210"W	7249.05	332.478	0.39	0.39	0.04
15921.00	88.740	327.620	8249.24	6699.24	7316.78	6507.97	3400.19	1798084.15	424364.03	39°39'48.6891"N	80°06'19.2732"W	7342.68	332.414	0.25	-0.13	0.21
16016.00	88.550	327.420	8251.48	6701.48	7411.75	6588.09	3451.19	1798033.16	424444.15	39°39'49.4775"N	80°06'19.9322"W	7437.32	332.352	0.29	-0.20	-0.21
16110.00	87.940	327.610	8254.36	6704.36	7505.71	6667.34	3501.66	1797982.70	424523.39	39°39'50.2573"N	80°06'20.5843"W	7530.94	332.292	0.68	-0.65	0.20
16204.00	87.480	327.420	8258.12	6708.12	7599.63	6746.57	3552.10	1797932.26	424602.62	39°39'51.0370"N	80°06'21.2362"W	7624.54	332.233	0.53	-0.49	-0.20
16299.00	88.370	327.780	8261.56	6711.56	7694.57	6826.73	3602.97	1797881.39	424682.77	39°39'51.8257"N	80°06'21.8936"W	7719.17	332.176	1.01	0.94	0.38
16393.00	88.580	326.950	8264.06	6714.06	7788.53	6905.86	3653.65	1797830.72	424761.90	39°39'52.6044"N	80°06'22.5484"W	7812.81	332.118	0.91	0.22	-0.88

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Dolls Run 3H
Field	Monongalia	API/Legal	
Facility	Dolls Run Pad	Wellbore	Dolls Run 3H AWB
Slot	Slot #3H		

WELLPATH DATA (263 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]
16488.00	87.630	326.560	8267.20	6717.20	7883.47	6985.27	3705.70	1797778.67	424841.30	39°39'53.3857"N	80°06'23.2208"W	7907.35	332.054	1.08	-1.00	-0.41
16583.00	88.090	327.730	8270.75	6720.75	7978.40	7065.01	3757.20	1797727.17	424921.04	39°39'54.1704"N	80°06'23.8862"W	8001.94	331.996	1.32	0.48	1.23
16678.00	88.890	327.420	8273.25	6723.25	8073.36	7145.17	3808.12	1797676.25	425001.20	39°39'54.9592"N	80°06'24.5443"W	8096.62	331.944	0.90	0.84	-0.33
16772.00	87.720	323.940	8276.03	6726.03	8167.25	7222.76	3861.08	1797623.29	425078.78	39°39'55.7224"N	80°06'25.2283"W	8190.01	331.872	3.90	-1.24	-3.70
16867.00	89.140	324.800	8278.64	6728.64	8262.06	7299.95	3916.40	1797587.98	425155.96	39°39'56.4815"N	80°06'25.9423"W	8284.17	331.787	1.75	1.49	0.91
16962.00	89.020	326.580	8280.16	6730.16	8356.99	7378.40	3969.94	1797514.44	425234.41	39°39'57.2533"N	80°06'26.6337"W	8378.62	331.718	1.88	-0.13	1.87
17056.00	89.050	328.350	8281.75	6731.75	8450.98	7457.64	4020.49	1797463.90	425313.64	39°39'58.0329"N	80°06'27.2869"W	8472.35	331.670	1.88	0.03	1.88
17151.00	88.800	328.100	8283.53	6733.53	8545.95	7538.38	4070.51	1797413.88	425394.38	39°39'58.8276"N	80°06'27.9335"W	8567.16	331.632	0.37	-0.26	-0.26
17245.00	86.830	328.120	8287.11	6737.11	8639.88	7618.13	4120.13	1797364.27	425474.13	39°39'59.6124"N	80°06'28.5749"W	8660.91	331.594	2.10	-2.10	0.02
17340.00	86.640	328.370	8292.52	6742.52	8734.72	7698.78	4170.04	1797314.35	425554.77	39°40'00.4081"N	80°06'29.2202"W	8755.60	331.558	0.33	-0.20	0.26
17435.00	86.890	328.560	8297.88	6747.88	8829.55	7779.62	4219.65	1797264.75	425635.61	39°40'01.2017"N	80°06'29.8615"W	8850.31	331.525	0.33	0.26	0.20
17529.00	87.230	328.820	8302.70	6752.70	8923.41	7859.83	4268.43	1797215.97	425715.81	39°40'01.9911"N	80°06'30.4923"W	8944.07	331.495	0.46	0.36	0.28
17624.00	87.230	328.610	8307.29	6757.29	9018.29	7940.92	4317.71	1797166.69	425796.89	39°40'02.7892"N	80°06'31.1294"W	9038.85	331.466	0.22	0.00	-0.22
17719.00	87.410	328.520	8311.74	6761.74	9113.17	8021.89	4367.20	1797117.21	425877.86	39°40'03.5860"N	80°06'31.7693"W	9133.63	331.436	0.21	0.19	-0.09
17813.00	87.170	328.420	8316.18	6766.18	9207.05	8101.92	4416.30	1797068.11	425957.89	39°40'04.3737"N	80°06'32.4041"W	9227.40	331.405	0.28	-0.26	-0.11
17908.00	87.290	328.430	8320.77	6770.77	9301.93	8182.76	4465.99	1797018.43	426038.72	39°40'05.1693"N	80°06'33.0465"W	9322.16	331.375	0.13	0.13	0.01
18003.00	87.050	328.370	8325.46	6775.46	9396.81	8263.58	4515.71	1796968.71	426119.53	39°40'05.9646"N	80°06'33.6893"W	9416.92	331.345	0.26	-0.25	-0.06
18098.00	87.260	328.270	8330.18	6780.18	9491.68	8344.32	4565.54	1796918.88	426200.27	39°40'06.7592"N	80°06'34.3335"W	9511.67	331.315	0.24	0.22	-0.11
18192.00	87.600	328.220	8334.39	6784.39	9585.58	8424.17	4614.96	1796869.47	426280.12	39°40'07.5450"N	80°06'34.9724"W	9605.44	331.285	0.37	0.36	-0.05
18287.00	87.850	328.500	8338.16	6788.16	9680.50	8504.99	4664.75	1796819.67	426360.93	39°40'08.3404"N	80°06'35.6162"W	9700.24	331.256	0.39	0.26	0.29
18381.00	87.750	328.560	8341.77	6791.77	9774.42	8585.10	4713.79	1796770.64	426441.04	39°40'09.1288"N	80°06'36.2502"W	9794.07	331.230	0.12	-0.11	0.06
18475.00	87.630	328.360	8345.56	6795.56	9868.33	8665.15	4762.92	1796721.51	426521.08	39°40'09.9166"N	80°06'36.8855"W	9887.88	331.204	0.25	-0.13	-0.21
18569.00	87.720	328.340	8349.37	6799.37	9962.24	8745.10	4812.20	1796672.23	426601.03	39°40'10.7035"N	80°06'37.5227"W	9981.69	331.177	0.10	0.10	-0.02
18663.00	87.600	328.690	8353.21	6803.21	10056.15	8825.20	4861.26	1796623.18	426681.12	39°40'11.4917"N	80°06'38.1569"W	10075.51	331.152	0.39	-0.13	0.37
18758.00	87.630	328.330	8357.17	6807.17	10151.06	8906.14	4910.84	1796573.60	426762.05	39°40'12.2883"N	80°06'38.7980"W	10170.33	331.128	0.38	0.03	-0.38
18852.00	87.780	328.560	8360.93	6810.93	10244.97	8986.17	4959.99	1796524.45	426842.08	39°40'13.0760"N	80°06'39.4335"W	10264.15	331.103	0.29	0.16	0.24
18946.00	87.750	328.590	8364.60	6814.60	10338.89	9066.32	5008.96	1796475.48	426922.23	39°40'13.8648"N	80°06'40.0667"W	10357.99	331.080	0.05	-0.03	0.03
19041.00	88.680	328.490	8367.56	6817.56	10433.83	9147.32	5058.52	1796425.93	427003.22	39°40'14.6619"N	80°06'40.7075"W	10452.85	331.057	0.98	0.98	-0.11
19135.00	88.740	328.450	8369.67	6819.67	10527.79	9227.42	5107.66	1796376.79	427083.32	39°40'15.4502"N	80°06'41.3429"W	10546.73	331.034	0.08	0.06	-0.04
19229.00	88.550	328.560	8371.89	6821.89	10621.75	9307.55	5156.76	1796327.70	427163.44	39°40'16.2388"N	80°06'41.9777"W	10640.61	331.012	0.23	-0.20	0.12

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Dolls Run 3H AWP Proj: 24154'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Dolls Run 3H
Field	Monongalia	API/Legal	
Facility	Dolls Run Pad	Wellbore	Dolls Run 3H AWP
Slot	Slot #3H		

WELLPATH DATA (263 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]
19324.00	88.650	328.500	8374.22	6824.22	10716.71	9388.55	-5206.34	1796278.12	427244.44	39°40'17.0360"N	80°06'42.6188"W	10735.50	330.990	0.12	0.11	-0.06
19419.00	88.680	328.710	8376.43	6826.43	10811.67	9469.62	-5255.81	1796228.65	427325.50	39°40'17.8338"N	80°06'43.2586"W	10830.39	330.969	0.22	0.03	0.22
19513.00	88.620	328.780	8378.64	6828.64	10905.63	9549.96	-5304.57	1796179.89	427405.83	39°40'18.6245"N	80°06'43.8891"W	10924.29	330.950	0.10	-0.06	0.07
19608.00	89.940	328.540	8379.84	6829.84	11000.60	9631.09	-5353.98	1796130.49	427486.96	39°40'19.4229"N	80°06'44.5280"W	11019.21	330.930	1.41	1.39	-0.25
19703.00	89.940	327.590	8379.94	6829.94	11095.60	9711.71	-5404.23	1796080.24	427567.58	39°40'20.2163"N	80°06'45.1777"W	11114.09	330.906	1.00	0.00	-1.00
19798.00	90.000	327.470	8379.99	6829.99	11190.60	9791.86	-5455.23	1796029.25	427647.72	39°40'21.0049"N	80°06'45.8369"W	11208.93	330.877	0.14	0.06	-0.13
19892.00	89.820	327.680	8380.13	6830.13	11284.60	9871.20	-5505.63	1795978.85	427727.06	39°40'21.7857"N	80°06'46.4884"W	11302.77	330.850	0.29	-0.19	0.22
19987.00	89.970	327.670	8380.31	6830.31	11379.60	9951.48	-5556.43	1795928.05	427807.33	39°40'22.5756"N	80°06'47.1450"W	11397.63	330.823	0.16	0.16	-0.01
20082.00	89.880	327.490	8380.43	6830.43	11474.60	10031.67	-5607.36	1795877.12	427887.52	39°40'23.3647"N	80°06'47.8034"W	11492.48	330.796	0.21	-0.09	-0.19
20177.00	89.940	327.750	8380.58	6830.58	11569.60	10111.90	-5658.24	1795826.25	427967.74	39°40'24.1541"N	80°06'48.4610"W	11587.33	330.770	0.28	0.06	0.27
20271.00	90.030	327.360	8380.61	6830.61	11663.60	10191.23	-5708.67	1795775.82	428047.07	39°40'24.9347"N	80°06'49.1129"W	11681.18	330.744	0.43	0.10	-0.41
20366.00	90.090	326.920	8380.51	6830.51	11758.59	10271.03	-5760.21	1795724.28	428126.86	39°40'25.7198"N	80°06'49.7790"W	11776.00	330.715	0.47	0.06	-0.46
20461.00	91.140	326.560	8379.49	6829.49	11853.58	10350.46	-5812.31	1795672.19	428206.29	39°40'26.5013"N	80°06'50.4522"W	11870.76	330.684	1.17	1.11	-0.38
20555.00	91.910	326.660	8376.99	6826.99	11947.53	10428.92	-5864.02	1795620.48	428284.74	39°40'27.2732"N	80°06'51.1204"W	11964.49	330.652	0.83	0.82	0.11
20650.00	91.850	326.610	8373.87	6823.87	12042.46	10508.22	-5916.24	1795568.26	428364.04	39°40'28.0534"N	80°06'51.7952"W	12059.21	330.620	0.08	-0.06	-0.05
20744.00	91.910	326.280	8370.78	6820.78	12136.39	10586.51	-5968.17	1795516.33	428442.32	39°40'28.8236"N	80°06'52.4662"W	12152.91	330.588	0.36	0.06	-0.35
20838.00	91.910	326.170	8367.65	6817.65	12230.31	10664.60	-6020.40	1795464.11	428520.41	39°40'29.5918"N	80°06'53.1409"W	12246.59	330.554	0.12	0.00	-0.12
20934.00	92.060	326.380	8364.33	6814.33	12326.23	10744.40	-6073.67	1795410.84	428600.20	39°40'30.3768"N	80°06'53.8292"W	12342.27	330.521	0.27	0.16	0.22
21028.00	91.720	326.460	8361.23	6811.23	12420.16	10822.67	-6125.63	1795358.88	428678.47	39°40'31.1468"N	80°06'54.5006"W	12435.98	330.490	0.37	-0.36	0.09
21122.00	91.720	326.630	8358.41	6808.41	12514.10	10901.06	-6177.43	1795307.09	428756.85	39°40'31.9180"N	80°06'55.1699"W	12529.71	330.461	0.18	0.00	0.18
21217.00	92.430	326.600	8354.97	6804.97	12609.02	10980.33	-6229.67	1795254.85	428836.12	39°40'32.6979"N	80°06'55.8449"W	12624.44	330.432	0.75	0.75	-0.03
21311.00	92.430	326.400	8350.98	6800.98	12702.92	11058.65	-6281.50	1795203.02	428914.43	39°40'33.4683"N	80°06'56.5147"W	12718.14	330.403	0.21	0.00	-0.21
21406.00	92.430	326.580	8346.95	6796.95	12797.82	11137.79	-6333.90	1795150.62	428993.56	39°40'34.2469"N	80°06'57.1918"W	12812.83	330.374	0.19	0.00	0.19
21501.00	91.850	326.840	8343.40	6793.40	12892.74	11217.14	-6386.01	1795098.52	429072.91	39°40'35.0276"N	80°06'57.8652"W	12907.57	330.347	0.67	-0.61	0.27
21595.00	91.260	326.700	8340.85	6790.85	12986.70	11295.74	-6437.50	1795047.03	429151.51	39°40'35.8009"N	80°06'58.5306"W	13001.35	330.321	0.65	-0.63	-0.15
21690.00	91.170	326.300	8338.84	6788.84	13081.66	11374.94	-6489.93	1794994.61	429230.71	39°40'36.5800"N	80°06'59.2080"W	13096.12	330.293	0.43	-0.09	-0.42
21785.00	91.510	326.170	8336.62	6786.62	13176.60	11453.90	-6542.71	1794941.83	429309.65	39°40'37.3567"N	80°06'59.8900"W	13190.86	330.264	0.38	0.36	-0.14
21879.00	91.750	326.440	8333.94	6783.94	13270.54	11532.07	-6594.84	1794889.71	429387.83	39°40'38.1258"N	80°07'00.5635"W	13284.60	330.236	0.38	0.26	0.29
21974.00	91.570	326.750	8331.19	6781.19	13365.49	11611.34	-6647.12	1794837.43	429467.09	39°40'38.9056"N	80°07'1.2391"W	13379.37	330.210	0.38	-0.19	0.33
22069.00	92.000	328.010	8328.23	6778.23	13460.44	11691.32	-6698.60	1794786.25	429547.06	39°40'39.6925"N	80°07'1.9008"W	13474.21	330.190	1.40	0.45	1.33

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Dolls Run 3H AWP Proj: 24154'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Dolls Run 3H
Field	Monongalia	API/Legal	
Facility	Dolls Run Pad	Wellbore	Dolls Run 3H AWP
Slot	Slot #3H		

WELLPATH DATA (263 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]
22163.00	92.590	327.560	8324.47	6774.47	13554.36	11770.78	-6748.37	1794736.18	429626.52	39°40'40.4745"N	80°07'2.5481"W	13568.05	330.174	0.79	0.63	-0.48
22258.00	92.370	327.690	8320.36	6770.36	13649.27	11850.94	-6799.20	1794685.36	429706.68	39°40'41.2632"N	80°07'3.2052"W	13662.87	330.156	0.27	-0.23	0.14
22352.00	92.340	327.560	8316.50	6766.50	13743.19	11930.26	-6849.49	1794635.07	429785.99	39°40'42.0437"N	80°07'3.8553"W	13756.69	330.139	0.14	-0.03	-0.14
22447.00	91.850	327.330	8313.02	6763.02	13838.13	12010.28	-6900.57	1794583.99	429866.01	39°40'42.8310"N	80°07'4.5157"W	13851.53	330.120	0.57	-0.52	-0.24
22542.00	90.890	327.200	8310.75	6760.75	13933.10	12090.17	-6951.93	1794532.64	429945.89	39°40'43.6170"N	80°07'5.1796"W	13946.38	330.101	1.02	-1.01	-0.14
22637.00	90.890	327.500	8309.28	6759.28	14028.09	12170.15	-7003.18	1794481.39	430025.87	39°40'44.4039"N	80°07'5.8421"W	14041.26	330.082	0.32	0.00	0.32
22732.00	90.890	327.610	8307.80	6757.80	14123.07	12250.31	-7054.14	1794430.44	430106.02	39°40'45.1927"N	80°07'6.5009"W	14136.16	330.065	0.12	0.00	0.12
22827.00	90.980	327.500	8306.25	6756.25	14218.06	12330.47	-7105.10	1794379.48	430186.18	39°40'45.9814"N	80°07'7.1597"W	14231.05	330.048	0.15	0.09	-0.12
22921.00	91.050	328.510	8304.58	6754.58	14312.04	12410.18	-7154.89	1794329.69	430265.88	39°40'46.7657"N	80°07'7.8036"W	14324.98	330.035	1.08	0.07	1.07
23016.00	91.170	329.140	8302.74	6752.74	14407.00	12491.44	-7204.06	1794280.52	430347.14	39°40'47.5655"N	80°07'8.4396"W	14419.94	330.027	0.67	0.13	0.66
23111.00	90.710	328.450	8301.19	6751.19	14501.97	12572.69	-7253.27	1794231.31	430428.38	39°40'48.3650"N	80°07'9.0762"W	14514.90	330.019	0.87	-0.48	-0.73
23204.00	90.220	328.440	8300.43	6750.43	14594.96	12651.93	-7301.94	1794182.65	430507.62	39°40'49.1449"N	80°07'9.7056"W	14607.87	330.009	0.53	-0.53	-0.01
23299.00	89.780	328.580	8300.43	6750.43	14689.94	12732.94	-7351.56	1794133.03	430588.62	39°40'49.9421"N	80°07'10.3474"W	14702.83	329.999	0.49	-0.46	0.15
23393.00	89.780	328.750	8300.79	6750.79	14783.93	12813.23	-7400.45	1794084.15	430668.91	39°40'50.7322"N	80°07'10.9797"W	14796.81	329.991	0.18	0.00	0.18
23488.00	89.750	328.760	8301.18	6751.18	14878.91	12894.45	-7449.72	1794034.87	430750.12	39°40'51.5315"N	80°07'11.6171"W	14891.78	329.983	0.03	-0.03	0.01
23583.00	90.460	328.730	8301.01	6751.01	14973.89	12975.66	-7499.01	1793985.59	430831.33	39°40'52.3307"N	80°07'12.2547"W	14986.76	329.975	0.75	0.75	-0.03
23677.00	90.490	328.970	8300.23	6750.23	15067.86	13056.11	-7547.63	1793936.97	430911.77	39°40'53.1224"N	80°07'12.8837"W	15080.74	329.968	0.26	0.03	0.26
23772.00	90.460	328.740	8299.44	6749.44	15162.84	13137.41	-7596.77	1793887.84	430993.07	39°40'53.9226"N	80°07'13.5193"W	15175.72	329.961	0.24	-0.03	-0.24
23866.00	90.430	328.560	8298.71	6748.71	15256.82	13217.69	-7645.67	1793838.94	431073.34	39°40'54.7126"N	80°07'14.1519"W	15269.69	329.953	0.19	-0.03	-0.19
23961.00	90.400	328.570	8298.02	6748.02	15351.80	13298.74	-7695.22	1793789.40	431154.39	39°40'55.5102"N	80°07'14.7927"W	15364.66	329.945	0.03	-0.03	0.01
24056.00	88.650	328.850	8298.81	6748.81	15446.78	13379.92	-7744.55	1793740.06	431235.56	39°40'56.3091"N	80°07'15.4309"W	15459.63	329.937	1.87	-1.84	0.29
24129.00	87.450	328.520	8301.29	6751.29	15519.72	13442.25	-7782.47	1793702.15	431297.88	39°40'56.9224"N	80°07'15.9214"W	15532.57	329.931	1.70	-1.64	-0.45
24154.00†	87.450	328.520	8302.41	6752.41	15544.69	13463.54	-7795.51	1793689.10	431319.18	39°40'57.1320"N	80°07'16.0901"W	15557.54	329.929	0.00	0.00	0.00

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Dolls Run 3H AWP Proj: 24154'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Dolls Run 3H
Field	Monongalia	API/Legal	
Facility	Dolls Run Pad	Wellbore	Dolls Run 3H AWB
Slot	Slot #3H		

HOLE & CASING SECTIONS - Ref Wellbore: Dolls Run 3H AWB Ref Wellpath: Dolls Run 3H AWP Proj: 24154'

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	983.00	955.00	28.00	982.91	0.00	0.00	-4.73	10.88
13.375in Casing Surface	28.00	953.00	925.00	28.00	952.91	0.00	0.00	-4.84	10.25
12.25in Open Hole	983.00	2379.00	1396.00	982.91	2376.81	-4.73	10.88	-6.15	-31.26
9.625in Casing Intermediate	28.00	2349.00	2321.00	28.00	2346.81	0.00	0.00	-6.06	-30.92
8.75in Open Hole	2379.00	7154.00	4775.00	2376.81	7086.12	-6.15	-31.26	-198.07	710.37
8.5in Open Hole	7154.00	24154.00	17000.00	7086.12	8302.41	-198.07	710.37	13463.54	-7795.51
5.5in Casing Production	28.00	24124.00	24096.00	28.00	8301.07	0.00	0.00	13437.98	-7779.86

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Dolls Run 3H BHL Rev-2	8235.00	13459.26	-7802.82	1793681.79	431314.90	39°40'57.0892"N	80°07'16.1833"W	point
Dolls Run 3H LP Rev-2	8235.00	384.62	495.05	1801979.16	418241.05	39°38'48.4303"N	80°05'28.9500"W	point
Dolls Run Hardline#1_5.17.2023	9028.00	-289.27	-3129.23	1798355.10	417567.21	39°38'41.5321"N	80°06'15.2239"W	polygon
2D Polygon: dimensions not calculated								

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Dolls Run 3H AWP Proj: 24154'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Dolls Run 3H
Field	Monongalia	API/Legal	
Facility	Dolls Run Pad	Wellbore	Dolls Run 3H AWB
Slot	Slot #3H		

WELLPATH COMPOSITION - Ref Wellbore: Dolls Run 3H AWB Ref Wellpath: Dolls Run 3H AWP Proj: 24154'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	750.00	BH Generic gyro - northseeking (Standard)	01 17.5" Gyro [Northseeking-Standard] (50' - 750')	Dolls Run 3H AWB	8/11/2023
750.00	2262.00	OWSG MWD rev2 + HRGM	02 12.25" Javins MWD [OWSG MWD Rev.2+HRGM] (750')(1033' - 2262')	Dolls Run 3H AWB	8/11/2023
2262.00	6991.00	OWSG MWD rev2 + HRGM	03 8.75" Javins MWD [OWSG MWD Rev.2+HRGM] (2262')(2356' - 6991')	Dolls Run 3H AWB	8/11/2023
6991.00	24154.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 8.5" BH ATK Curve [HRGM+Short Spacing] (6991')(7127' - 24129')	Dolls Run 3H AWB	8/11/2023

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Dolls Run 3H AWP Proj: 24154'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Dolls Run 3H
Field	Monongalia	API/Legal	
Facility	Dolls Run Pad	Wellbore	Dolls Run 3H AWB
Slot	Slot #3H		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
50.00	0.160	50.870	50.00	01_17.5" Gyro [Northseeking-Standard] (50' - 750')
1033.00	1.500	69.540	1032.89	02_12.25" Javins MWD [OWSG MWD Rev.2+HRGM] (750')(1033' - 2262')
2356.00	0.810	257.080	2353.81	03_8.75" Javins MWD [OWSG MWD Rev.2+HRGM] (2262')(2356' - 6991')
7127.00	9.120	110.180	7059.49	04_8.5" BH ATK Curve [HRGM+Short Spacing] (6991')(7127'- 24129')
24129.00	87.450	328.520	8301.29	Final Survey MD @ 24129'
24154.00	87.450	328.520	8302.41	Projected MD at TD: 24154'

COMMENTS

Wellpath general comments

API:47061019290000

BH Job #: 111882079

Rig: Patterson 277

Duration: 8/11/2023 - 8/16/2023

01_17.5" Gyro [Northseeking-Standard] (50' - 750')

02_12.25" Javins MWD [OWSG MWD Rev.2+HRGM] (750')(1033' - 2262')

03_8.75" Javins MWD [OWSG MWD Rev.2+HRGM] (2262')(2356' - 6991')

04_8.5" BH ATK Curve [HRGM+Short Spacing] (6991')(7127'- 24129')

Final Survey MD @ 24129'

Projected MD at TD: 24154'

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