

NORTHEAST NATURAL ENERGY, LLC

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

Slot: Slot #14
Well: Miracle Run 14H
Wellbore: Miracle Run 14H PWB



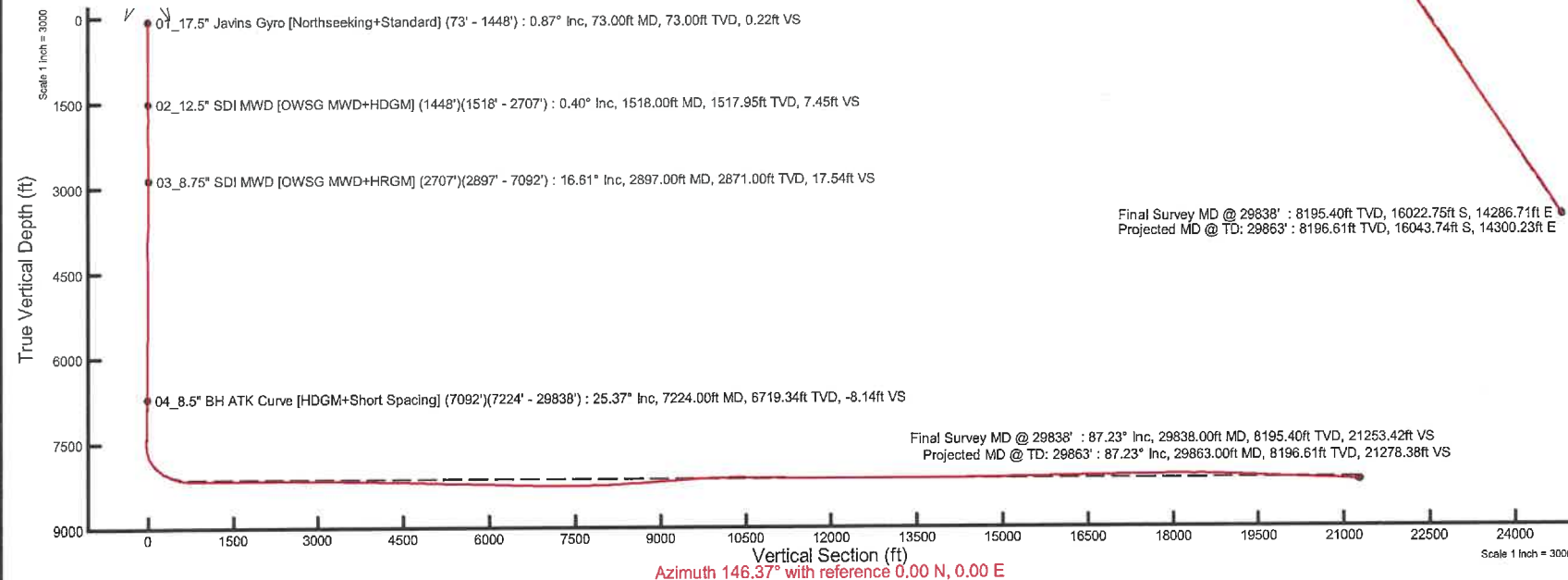
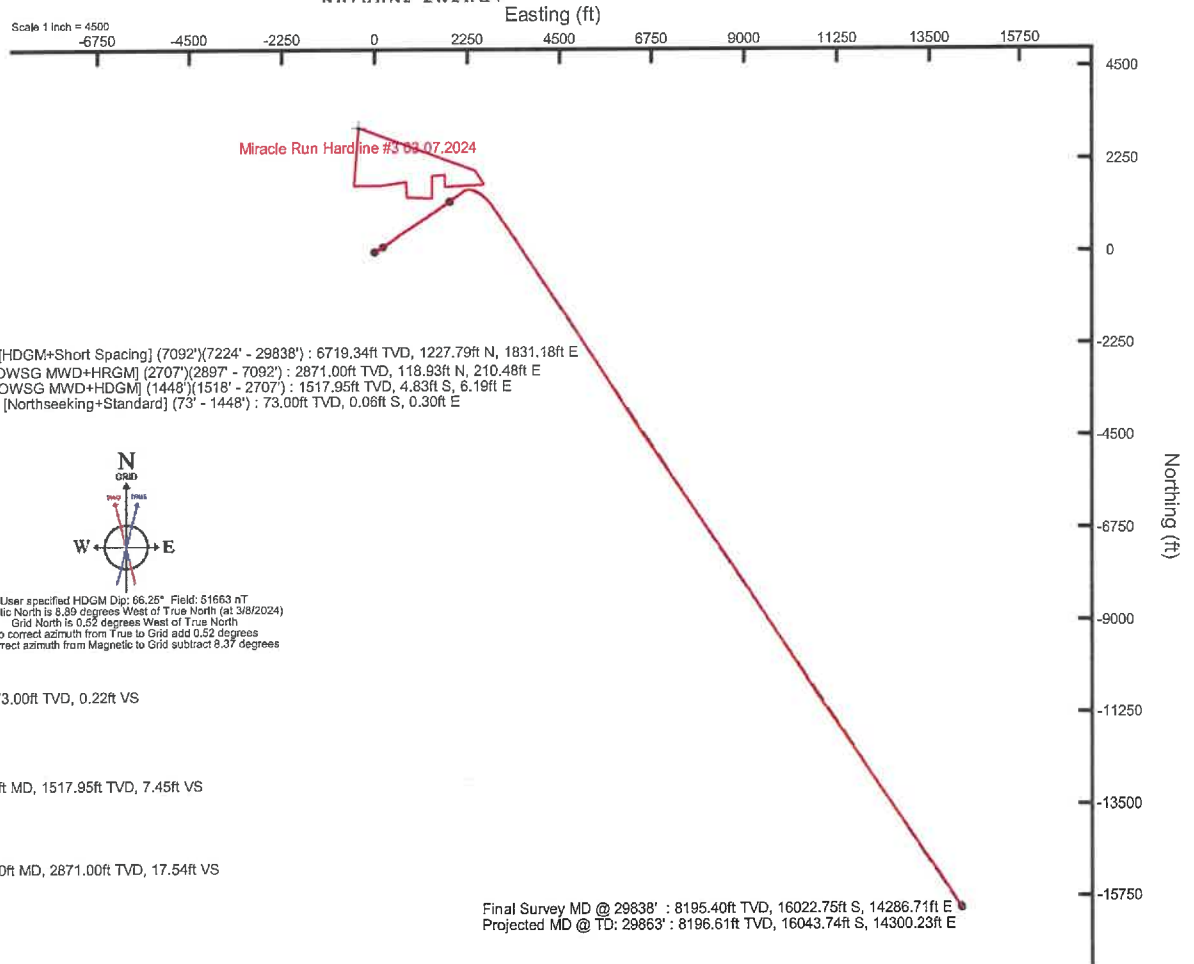
Plot reference wellpath to Miracle Run 14H Rev-C-0	Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4761), US Feet
True vertical depths are referenced to Nabors X08 (RWB)	North Reference: GMS north
Reference wellpath measured depths are referenced to Nabors X08 (RWB)	Scale: True distance
Nabors X08 (RWB) to Mean Sea Level: 1488.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (N Slot, Slot #14): -1458 feet	Drifts are in feet
Offset wellpath MDs are referenced to each path's datum MD datum	Created by: mmp003 on 2/24/2022; Database: WA, NPN, EASTERNUS, Deth

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Miracle Run Pad	1737889.810	412228.340	39°37'45.0221"N	80°19'7.9970"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot #14	43.95	40.84	1737933.850	412272.290
Nabors X08 (RWB) to Ground level (N Slot, Slot #14)				32.5 ft
Mean Sea Level to Ground level (N Slot, Slot #14)				-1458 ft
Nabors X08 (RWB) to Mean Sea Level				1490.5 ft

Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Ac (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)
Tie On	7092.00	24.200	53.910	8599.50	1194.66	1788.66	1.29
Projection/Start Build/Turn	7199.00	24.000	54.216	8659.78	1213.11	1812.32	0.31
Start Tangent	7663.01	30.038	54.568	7285.17	1399.32	2072.48	1.00
Curve KOP	8131.09	30.938	54.568	7515.11	1479.24	2184.78	0.00
Landing PT	9287.76	90.000	146.373	8139.50	1090.12	2892.60	8.00
BHL	29852.68	90.000	146.373	8139.50	-18050.21	14292.28	0.00

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #14	Miracle Run 14H	Miracle Run 14H AWB	Miracle Run 14H AWP Proj: 29853'
Slot #14	Miracle Run 14H	Miracle Run 14H PWB	Miracle Run 14H Rev-C-0

Comments	
API: 47061019260000	
BH Job #: 112148355	
Rig: Nabors X08	
Duration: 03/13/2024 - 03/19/2024	
01 17.5" Javins Gyro [Northseeking+Standard] (73' - 1448')	
02 12.5" SDI MWD [OWSG MWD+HDGM] (1448')(1518' - 2707')	
03 8.75" SDI MWD [OWSG MWD+HRGM] (2707')(2897' - 7092')	
04 8.5" BH ATK Curve [HDGM+Short Spacing] (7092')(7224' - 29838')	
Final Survey MD @ 29838'	
Projected MD @ TD: 29863'	





Actual Wellpath Report

Miracle Run 14H AWP Proj: 29863'

Page 1 of 16



18 of 36

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 14H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 14H AWB
Slot	Slot #14		

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	3/22/2024 at 5:01:12 PM
Convergence at slot	0.52° 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	43.95	40.84	1737930.65	412372.29	39°37'45.4601"N	80°19'7.0802"W
Facility Reference Pt			1737889.81	412328.34	39°37'45.0221"N	80°19'7.5970"W
Field Reference Pt			1777685.71	440640.65	39°42'28.1140"N	80°10'41.6900"W

WELLPATH DATUM

Calculation method	Minimum curvature	Nabors X08 (RKB) to Facility Vertical Datum	1490.50ft
Horizontal Reference Pt	Slot	Nabors X08 (RKB) to Mean Sea Level	1490.50ft
Vertical Reference Pt	Nabors X08 (RKB)	Nabors X08 (RKB) to Ground Level at Slot (Slot #14)	32.50ft
MD Reference Pt	Nabors X08 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	146.37°

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Actual Wellpath Report

Miracle Run 14H AWP Proj: 29863'

Page 2 of 16



19 of 36

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 14H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 14H AWB
Slot	Slot #14		

WELLPATH DATA (361 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	101.420	0.00	-1490.50	0.00	0.00	0.00	1737930.65	412372.29	39°37'45.4601"N	80°19'7.0802"W	0.00	0.000	0.00	0.00	0.00
32.50	0.000	101.420	32.50	-1458.00	0.00	0.00	0.00	1737930.65	412372.29	39°37'45.4601"N	80°19'7.0802"W	0.00	0.000	0.00	0.00	0.00
73.00	0.870	101.420	73.00	-1417.50	0.22	-0.06	0.30	1737930.95	412372.23	39°37'45.4596"N	80°19'7.0763"W	0.31	101.420	2.15	2.15	0.00
123.00	1.100	124.970	122.99	-1367.51	0.93	-0.41	1.07	1737931.72	412371.88	39°37'45.4562"N	80°19'7.0665"W	1.14	111.076	0.92	0.46	47.10
173.00	0.590	141.220	172.99	-1317.51	1.64	-0.89	1.62	1737932.27	412371.40	39°37'45.4515"N	80°19'7.0593"W	1.85	118.680	1.12	-1.02	32.50
223.00	0.860	101.220	222.98	-1267.52	2.16	-1.16	2.15	1737932.80	412371.13	39°37'45.4489"N	80°19'7.0525"W	2.44	118.354	1.11	0.54	-80.00
273.00	1.010	118.820	272.98	-1217.52	2.81	-1.45	2.90	1737933.55	412370.84	39°37'45.4461"N	80°19'7.0429"W	3.24	116.465	0.64	0.30	35.20
323.00	0.580	138.230	322.97	-1167.53	3.45	-1.85	3.46	1737934.11	412370.44	39°37'45.4422"N	80°19'7.0357"W	3.92	118.100	1.00	-0.86	38.82
373.00	0.390	120.160	372.97	-1117.53	3.86	-2.12	3.78	1737934.42	412370.17	39°37'45.4395"N	80°19'7.0317"W	4.33	119.334	0.48	-0.38	-36.14
423.00	0.600	79.380	422.97	-1067.53	4.11	-2.16	4.18	1737934.83	412370.13	39°37'45.4392"N	80°19'7.0265"W	4.70	117.316	0.79	0.42	-81.56
473.00	0.760	105.760	472.96	-1017.54	4.47	-2.20	4.76	1737935.41	412370.09	39°37'45.4388"N	80°19'7.0191"W	5.24	114.829	0.69	0.32	52.76
523.00	0.510	139.860	522.96	-967.54	4.94	-2.46	5.22	1737935.87	412369.83	39°37'45.4363"N	80°19'7.0132"W	5.77	115.245	0.88	-0.50	68.20
573.00	0.080	130.980	572.96	-917.54	5.19	-2.65	5.39	1737936.04	412369.64	39°37'45.4344"N	80°19'7.0110"W	6.01	116.219	0.86	-0.86	-17.76
623.00	0.390	85.020	622.96	-867.54	5.31	-2.66	5.58	1737936.23	412369.63	39°37'45.4343"N	80°19'7.0085"W	6.19	115.485	0.68	0.62	-91.92
673.00	0.520	108.520	672.96	-817.54	5.57	-2.72	5.97	1737936.62	412369.57	39°37'45.4338"N	80°19'7.0036"W	6.56	114.491	0.45	0.26	47.00
723.00	0.450	156.980	722.96	-767.54	5.94	-2.97	6.26	1737936.91	412369.32	39°37'45.4313"N	80°19'6.9998"W	6.93	115.393	0.81	-0.14	96.92
773.00	0.120	228.930	772.96	-717.54	6.14	-3.19	6.30	1737936.95	412369.10	39°37'45.4292"N	80°19'6.9993"W	7.06	116.840	0.86	-0.66	143.90
823.00	0.360	65.300	822.96	-667.54	6.17	-3.16	6.40	1737937.05	412369.13	39°37'45.4295"N	80°19'6.9980"W	7.14	116.242	0.95	0.48	-327.26
873.00	0.350	153.420	872.95	-617.55	6.35	-3.23	6.61	1737937.26	412369.06	39°37'45.4288"N	80°19'6.9953"W	7.36	116.011	0.99	-0.02	176.24
923.00	0.410	227.070	922.95	-567.55	6.53	-3.49	6.55	1737937.20	412368.81	39°37'45.4263"N	80°19'6.9961"W	7.42	118.017	0.92	0.12	147.30
973.00	0.180	293.390	972.95	-517.55	6.49	-3.58	6.35	1737937.00	412368.71	39°37'45.4254"N	80°19'6.9986"W	7.28	119.397	0.75	-0.46	132.64
1023.00	0.230	95.090	1022.95	-467.55	6.49	-3.55	6.37	1737937.02	412368.74	39°37'45.4256"N	80°19'6.9983"W	7.30	119.137	0.81	0.10	323.40
1073.00	0.400	204.700	1072.95	-417.55	6.64	-3.72	6.40	1737937.05	412368.57	39°37'45.4239"N	80°19'6.9979"W	7.40	120.167	1.05	0.34	219.22
1123.00	0.240	284.290	1122.95	-367.55	6.66	-3.85	6.23	1737936.88	412368.44	39°37'45.4226"N	80°19'7.0001"W	7.32	121.751	0.86	-0.32	159.18
1173.00	0.130	92.470	1172.95	-317.55	6.61	-3.83	6.18	1737936.83	412368.46	39°37'45.4228"N	80°19'7.0007"W	7.27	121.780	0.74	-0.22	336.36
1223.00	0.380	175.990	1222.95	-267.55	6.79	-4.00	6.25	1737936.90	412368.29	39°37'45.4212"N	80°19'6.9998"W	7.42	122.604	0.77	0.50	167.04
1273.00	0.200	263.950	1272.95	-217.55	6.89	-4.17	6.18	1737936.83	412368.12	39°37'45.4195"N	80°19'7.0008"W	7.45	124.047	0.85	-0.36	175.92
1323.00	0.170	310.490	1322.95	-167.55	6.78	-4.13	6.03	1737936.68	412368.16	39°37'45.4198"N	80°19'7.0026"W	7.31	124.422	0.30	-0.06	93.08
1373.00	0.080	22.920	1372.95	-117.55	6.69	-4.05	5.99	1737936.64	412368.24	39°37'45.4206"N	80°19'7.0031"W	7.23	124.089	0.33	-0.18	144.86
1423.00	0.340	145.920	1422.95	-67.55	6.82	-4.14	6.09	1737936.74	412368.15	39°37'45.4197"N	80°19'7.0019"W	7.36	124.251	0.78	0.52	246.00

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Actual Wellpath Report

Miracle Run 14H AWP Proj: 29863'

Page 3 of 16

20 of 30



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 14H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 14H AWB
Slot	Slot #14		

WELLPATH DATA (361 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]
1448.00	0.530	157.250	1447.95	-42.55	7.01	-4.31	6.17	1737936.82	412367.98	39°37'45.4181"N	80°19'7.0008"W	7.53	124.939	0.83	0.76	45.32
1518.00	0.400	205.760	1517.95	27.45	7.45	-4.83	6.19	1737936.84	412367.46	39°37'45.4130"N	80°19'7.0005"W	7.85	127.963	0.57	-0.19	69.30
1549.00	0.260	182.060	1548.95	58.45	7.56	-5.00	6.14	1737936.79	412367.29	39°37'45.4113"N	80°19'7.0011"W	7.92	129.140	0.62	-0.45	-76.45
1581.00	0.690	133.130	1580.95	90.45	7.81	-5.20	6.28	1737936.93	412367.09	39°37'45.4093"N	80°19'6.9993"W	8.16	129.642	1.73	1.34	-152.91
1612.00	1.010	85.810	1611.94	121.44	8.13	-5.31	6.69	1737937.34	412366.98	39°37'45.4083"N	80°19'6.9941"W	8.54	128.448	2.40	1.03	-152.65
1643.00	1.910	83.180	1642.93	152.43	8.49	-5.23	7.47	1737938.12	412367.06	39°37'45.4091"N	80°19'6.9840"W	9.12	124.978	2.91	2.90	-8.48
1674.00	2.700	74.270	1673.91	183.41	8.95	-4.97	8.69	1737939.34	412367.32	39°37'45.4118"N	80°19'6.9685"W	10.01	119.766	2.79	2.55	-28.74
1706.00	3.410	71.060	1705.86	215.36	9.42	-4.46	10.32	1737940.96	412367.83	39°37'45.4170"N	80°19'6.9478"W	11.24	113.366	2.28	2.22	-10.03
1737.00	3.920	64.960	1736.80	246.30	9.82	-3.71	12.15	1737942.80	412368.58	39°37'45.4246"N	80°19'6.9245"W	12.70	106.979	2.07	1.65	-19.68
1768.00	4.660	59.710	1767.71	277.21	10.05	-2.63	14.20	1737944.84	412369.66	39°37'45.4355"N	80°19'6.8984"W	14.44	100.478	2.70	2.39	-16.94
1800.00	5.460	55.450	1799.59	309.09	10.10	-1.11	16.57	1737947.22	412371.18	39°37'45.4507"N	80°19'6.8683"W	16.61	93.819	2.76	2.50	-13.31
1831.00	6.250	52.540	1830.42	339.92	9.96	0.76	19.13	1737949.77	412373.05	39°37'45.4693"N	80°19'6.8358"W	19.14	87.735	2.72	2.55	-9.39
1862.00	7.010	50.010	1861.22	370.72	9.64	3.00	21.91	1737952.56	412375.29	39°37'45.4917"N	80°19'6.8004"W	22.12	82.209	2.63	2.45	-8.16
1893.00	7.650	50.780	1891.96	401.46	9.23	5.52	24.96	1737955.61	412377.81	39°37'45.5169"N	80°19'6.7618"W	25.57	77.533	2.09	2.06	2.48
1925.00	7.940	50.670	1923.67	433.17	8.80	8.27	28.32	1737958.97	412380.56	39°37'45.5444"N	80°19'6.7192"W	29.50	73.729	0.91	0.91	-0.34
1956.00	8.310	52.520	1954.36	463.86	8.44	10.99	31.76	1737962.40	412383.28	39°37'45.5716"N	80°19'6.6756"W	33.60	70.916	1.46	1.19	5.97
1987.00	8.550	53.990	1985.02	494.52	8.19	13.70	35.40	1737966.05	412385.99	39°37'45.5988"N	80°19'6.6294"W	37.96	68.836	1.04	0.77	4.74
2019.00	9.100	55.590	2016.64	526.14	8.06	16.53	39.41	1737970.06	412388.82	39°37'45.6271"N	80°19'6.5784"W	42.74	67.241	1.88	1.72	5.00
2050.00	9.530	56.300	2047.23	556.73	8.02	19.34	43.57	1737974.21	412391.63	39°37'45.6552"N	80°19'6.5256"W	47.67	66.060	1.44	1.39	2.29
2081.00	9.710	58.080	2077.80	587.30	8.10	22.15	47.92	1737978.57	412394.44	39°37'45.6833"N	80°19'6.4703"W	52.79	65.194	1.12	0.58	5.74
2112.00	10.100	58.530	2108.34	617.84	8.28	24.95	52.46	1737983.11	412397.24	39°37'45.7114"N	80°19'6.4126"W	58.09	64.564	1.28	1.26	1.45
2143.00	10.610	58.750	2138.83	648.33	8.50	27.85	57.22	1737987.86	412400.14	39°37'45.7405"N	80°19'6.3522"W	63.63	64.046	1.65	1.65	0.71
2175.00	10.750	60.060	2170.28	679.78	8.81	30.87	62.32	1737992.97	412403.16	39°37'45.7708"N	80°19'6.2873"W	69.55	63.651	0.88	0.44	4.09
2206.00	11.110	59.800	2200.71	710.21	9.18	33.81	67.41	1737998.05	412406.10	39°37'45.8004"N	80°19'6.2226"W	75.41	63.361	1.17	1.16	-0.84
2237.00	11.160	61.010	2231.13	740.63	9.60	36.77	72.61	1738003.26	412409.06	39°37'45.8300"N	80°19'6.1564"W	81.39	63.144	0.77	0.16	3.90
2269.00	11.280	61.840	2262.52	772.02	10.15	39.75	78.08	1738008.73	412412.03	39°37'45.8600"N	80°19'6.0869"W	87.62	63.022	0.63	0.38	-2.59
2300.00	11.650	62.480	2292.90	802.40	10.77	42.62	83.53	1738014.18	412414.91	39°37'45.8889"N	80°19'6.0176"W	93.78	62.966	1.26	1.19	2.06
2331.00	12.150	61.680	2323.23	832.73	11.41	45.62	89.18	1738019.82	412417.90	39°37'45.9190"N	80°19'5.9458"W	100.17	62.909	1.70	1.61	-2.58
2362.00	12.470	62.050	2353.52	863.02	12.04	48.73	95.01	1738025.65	412421.02	39°37'45.9503"N	80°19'5.8716"W	106.78	62.844	1.06	1.03	1.19
2394.00	12.810	62.130	2384.75	894.25	12.74	52.01	101.19	1738031.84	412424.30	39°37'45.9833"N	80°19'5.7929"W	113.78	62.798	1.06	1.06	0.25

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Page 4 of 16

210636



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Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 14H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 14H AWB
Slot	Slot #14		

WELLPATH DATA (361 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)
2425.00	12.900	61.400	2414.97	924.47	13.39	55.27	107.27	1738037.91	412427.56	39°37'46.0161"N	80°19'5.7157"W	120.67	62.739	0.60	0.29	-2.35
2457.00	13.180	61.240	2446.14	955.64	14.01	58.74	113.61	1738044.25	412431.03	39°37'46.0509"N	80°19'5.6351"W	127.89	62.659	0.88	0.87	-0.50
2488.00	13.420	60.100	2476.31	985.81	14.54	62.23	119.82	1738050.46	412434.52	39°37'46.0860"N	80°19'5.5561"W	135.02	62.553	1.15	0.77	-3.68
2519.01	13.740	61.250	2506.46	1015.96	15.09	65.80	126.17	1738056.81	412438.08	39°37'46.1218"N	80°19'5.4753"W	142.30	62.458	1.35	1.03	3.71
2551.01	14.220	61.580	2537.51	1047.01	15.77	69.50	132.96	1738063.60	412441.78	39°37'46.1589"N	80°19'5.3890"W	150.03	62.404	1.52	1.50	1.03
2582.01	14.730	61.020	2567.52	1077.02	16.44	73.22	139.75	1738070.40	412445.50	39°37'46.1963"N	80°19'5.3026"W	157.77	62.350	1.71	1.65	-1.81
2613.01	14.880	60.820	2597.49	1106.99	17.06	77.07	146.68	1738077.32	412449.35	39°37'46.2350"N	80°19'5.2146"W	165.69	62.281	0.51	0.48	-0.65
2645.01	15.090	60.680	2628.41	1137.91	17.70	81.11	153.90	1738084.54	412453.40	39°37'46.2756"N	80°19'5.1228"W	173.96	62.208	0.67	0.66	-0.44
2676.01	15.340	59.640	2658.32	1167.82	18.23	85.16	160.95	1738091.59	412457.45	39°37'46.3162"N	80°19'5.0331"W	182.09	62.117	1.19	0.81	-3.35
2707.01	15.140	59.750	2688.23	1197.73	18.71	89.27	167.99	1738098.63	412461.56	39°37'46.3575"N	80°19'4.9436"W	190.24	62.013	0.65	-0.65	0.35
2897.00	16.610	50.820	2871.00	1380.50	17.54	118.93	210.48	1738141.12	412491.22	39°37'46.6544"N	80°19'4.4040"W	241.76	60.531	1.50	0.77	-4.70
2990.00	17.740	52.290	2959.85	1469.35	15.25	136.00	231.99	1738162.63	412508.28	39°37'46.8250"N	80°19'4.1311"W	268.92	59.621	1.30	1.22	1.58
3084.00	19.380	55.980	3048.96	1558.46	14.12	153.48	256.25	1738186.89	412525.76	39°37'47.0000"N	80°19'3.8231"W	298.70	59.080	2.15	1.74	3.93
3178.00	21.280	56.720	3137.10	1646.60	14.12	171.57	283.44	1738214.07	412543.85	39°37'47.1812"N	80°19'3.4777"W	331.32	58.813	2.04	2.02	0.79
3272.00	23.670	56.850	3223.95	1733.45	14.38	191.25	313.50	1738244.13	412563.53	39°37'47.3784"N	80°19'3.0958"W	367.24	58.615	2.54	2.54	0.14
3366.00	26.040	56.980	3309.24	1818.74	14.76	212.82	346.61	1738277.23	412585.09	39°37'47.5945"N	80°19'2.6752"W	406.73	58.450	2.52	2.52	0.14
3459.00	28.290	57.390	3391.98	1901.48	15.37	235.82	382.29	1738312.92	412608.10	39°37'47.8251"N	80°19'2.2218"W	449.17	58.331	2.43	2.42	0.44
3553.00	30.320	59.020	3473.94	1983.44	16.86	260.04	421.40	1738352.03	412632.32	39°37'48.0679"N	80°19'1.7248"W	495.18	58.322	2.32	2.16	1.73
3647.00	30.480	57.310	3555.02	2064.52	18.35	285.13	461.81	1738392.43	412657.40	39°37'48.3195"N	80°19'1.2113"W	542.74	58.308	0.94	0.17	-1.82
3740.00	28.270	50.870	3636.08	2145.58	16.63	311.78	498.76	1738429.38	412684.05	39°37'48.5862"N	80°19'0.7422"W	588.19	57.990	4.14	-2.38	-6.92
3834.00	26.360	48.560	3719.60	2229.10	11.66	339.64	531.67	1738462.29	412711.91	39°37'48.8645"N	80°19'0.3247"W	630.90	57.429	2.32	-2.03	-2.46
3927.00	24.850	48.210	3803.46	2312.96	6.08	366.33	561.72	1738492.34	412738.60	39°37'49.1309"N	80°18'59.9438"W	670.62	56.889	1.63	-1.62	-0.38
4021.00	24.540	49.110	3888.87	2398.37	0.81	392.27	591.21	1738521.82	412764.54	39°37'49.3900"N	80°18'59.5700"W	709.51	56.435	0.52	-0.33	0.96
4116.00	25.600	54.040	3974.92	2484.42	-2.52	417.24	622.74	1738553.35	412789.51	39°37'49.6396"N	80°18'59.1699"W	749.59	56.177	2.46	1.12	5.19
4209.00	27.340	56.980	4058.18	2567.68	-3.11	440.68	656.91	1738587.52	412812.94	39°37'49.8743"N	80°18'58.7359"W	791.03	56.145	2.34	1.87	3.16
4303.00	29.590	58.400	4140.81	2650.31	-2.06	464.61	694.78	1738625.39	412836.87	39°37'50.1141"N	80°18'58.2546"W	835.81	56.229	2.50	2.39	1.51
4397.00	30.110	58.340	4222.34	2731.84	-0.42	489.14	734.62	1738665.22	412861.40	39°37'50.3602"N	80°18'57.7483"W	882.57	56.342	0.55	0.55	-0.06
4491.00	30.250	58.260	4303.59	2813.09	1.17	513.97	774.82	1738705.43	412886.23	39°37'50.6092"N	80°18'57.2374"W	929.80	56.442	0.15	0.15	-0.09
4585.00	29.350	56.900	4385.16	2894.66	2.16	539.01	814.26	1738744.86	412911.27	39°37'50.8601"N	80°18'56.7363"W	976.50	56.497	1.20	-0.96	-1.45
4679.00	28.730	56.070	4467.35	2976.85	2.26	564.20	852.30	1738782.90	412936.46	39°37'51.1125"N	80°18'56.2530"W	1022.13	56.496	0.79	-0.66	-0.88

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Actual Wellpath Report

Miracle Run 14H AWP Proj: 29863'

Page 5 of 16

22 of 30



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 14H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 14H AWB
Slot	Slot #14		

WELLPATH DATA (361 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]
4774.00	28.880	56.940	4550.59	3060.09	2.36	589.46	890.47	1738821.07	412961.72	39°37'51.3656"N	80°18'55.7681"W	1067.90	56.497	0.47	0.16	0.92
4868.00	28.670	56.680	4632.98	3142.48	2.71	614.23	928.34	1738858.94	412986.48	39°37'51.6138"N	80°18'55.2870"W	1113.15	56.510	0.26	-0.22	-0.28
4962.00	27.850	56.450	4715.78	3225.28	2.86	638.75	965.48	1738896.07	413011.00	39°37'51.8594"N	80°18'54.8151"W	1157.65	56.512	0.88	-0.87	-0.24
5056.00	26.660	57.740	4799.34	3308.84	3.40	662.15	1001.62	1738932.21	413034.40	39°37'52.0938"N	80°18'54.3560"W	1200.70	56.532	1.41	-1.27	1.37
5151.00	26.210	55.300	4884.41	3393.91	3.52	685.47	1036.89	1738967.48	413057.71	39°37'52.3275"N	80°18'53.9079"W	1242.98	56.532	1.24	-0.47	-2.57
5243.00	26.740	54.940	4966.76	3476.26	2.62	708.92	1070.53	1739001.12	413081.17	39°37'52.5623"N	80°18'53.4806"W	1283.98	56.487	0.60	0.58	-0.39
5335.00	27.170	55.460	5048.77	3558.27	1.77	732.72	1104.78	1739035.36	413104.96	39°37'52.8005"N	80°18'53.0457"W	1325.67	56.447	0.53	0.47	0.57
5427.00	28.310	57.020	5130.20	3639.70	1.69	756.51	1140.38	1739070.96	413128.75	39°37'53.0388"N	80°18'52.5934"W	1368.49	56.441	1.47	1.24	1.70
5519.00	29.450	58.090	5210.75	3720.25	2.61	780.34	1177.88	1739108.46	413152.58	39°37'53.2777"N	80°18'52.1169"W	1412.92	56.476	1.36	1.24	1.16
5610.00	28.830	56.520	5290.24	3799.74	3.34	804.26	1215.17	1739145.75	413176.51	39°37'53.5175"N	80°18'51.6431"W	1457.22	56.501	1.08	-0.68	-1.73
5702.00	27.870	55.010	5371.20	3880.70	2.89	828.83	1251.29	1739181.87	413201.07	39°37'53.7635"N	80°18'51.1843"W	1500.90	56.480	1.30	-1.04	-1.64
5794.00	28.250	57.330	5452.39	3961.89	2.74	852.92	1287.24	1739217.81	413225.16	39°37'54.0047"N	80°18'50.7277"W	1544.17	56.472	1.26	0.41	2.52
5886.00	28.320	54.350	5533.41	4042.91	2.34	877.39	1323.30	1739253.87	413249.63	39°37'54.2498"N	80°18'50.2696"W	1587.75	56.454	1.54	0.08	-3.24
5978.00	27.160	54.370	5614.83	4124.33	0.84	902.34	1358.10	1739288.67	413274.58	39°37'54.4995"N	80°18'49.8277"W	1630.54	56.399	1.26	-1.26	0.02
6072.00	27.050	54.760	5698.51	4208.01	-0.51	927.17	1393.00	1739323.56	413299.41	39°37'54.7480"N	80°18'49.3846"W	1673.35	56.352	0.22	-0.12	0.41
6164.00	29.830	54.680	5779.40	4288.90	-1.78	952.48	1428.76	1739359.32	413324.71	39°37'55.0013"N	80°18'48.9305"W	1717.14	56.311	3.02	3.02	-0.09
6257.00	29.990	56.800	5860.02	4369.52	-2.28	978.58	1467.08	1739397.64	413350.81	39°37'55.2627"N	80°18'48.4437"W	1763.50	56.296	1.15	0.17	2.28
6349.00	30.140	57.780	5939.64	4449.14	-1.54	1003.48	1505.86	1739436.42	413375.71	39°37'55.5123"N	80°18'47.9509"W	1809.59	56.321	0.56	0.16	1.07
6442.00	29.260	57.230	6020.42	4529.92	-0.63	1028.23	1544.73	1739475.28	413400.46	39°37'55.7604"N	80°18'47.4571"W	1855.65	56.351	0.99	-0.95	-0.59
6535.00	29.000	55.430	6101.66	4611.16	-0.66	1053.33	1582.40	1739512.96	413425.55	39°37'56.0117"N	80°18'46.9785"W	1900.92	56.350	0.98	-0.28	-1.94
6628.00	30.890	56.010	6182.24	4691.74	-1.18	1079.47	1620.76	1739551.31	413451.69	39°37'56.2735"N	80°18'46.4912"W	1947.34	56.335	2.06	2.03	0.62
6720.00	28.540	55.360	6262.14	4771.64	-1.71	1105.17	1658.43	1739588.98	413477.39	39°37'56.5308"N	80°18'46.0128"W	1992.94	56.321	2.58	-2.55	-0.71
6813.00	24.920	52.800	6345.19	4854.69	-3.32	1129.65	1692.33	1739622.88	413501.87	39°37'56.7758"N	80°18'45.5824"W	2034.72	56.276	4.08	-3.89	-2.75
6906.00	24.150	56.300	6429.79	4939.29	-4.57	1152.05	1723.76	1739654.31	413524.27	39°37'57.0000"N	80°18'45.1832"W	2073.30	56.244	1.77	-0.83	3.76
6999.00	24.160	56.840	6514.65	5024.15	-4.43	1173.02	1755.52	1739686.07	413545.24	39°37'57.2100"N	80°18'44.7797"W	2111.36	56.250	0.24	0.01	0.58
7092.00	24.200	53.910	6599.50	5109.00	-5.10	1194.66	1786.86	1739717.40	413566.87	39°37'57.4267"N	80°18'44.3817"W	2149.44	56.234	1.29	0.04	-3.15
7224.00	25.370	52.560	6719.34	5228.84	-8.14	1227.79	1831.18	1739761.72	413600.00	39°37'57.7581"N	80°18'43.8191"W	2204.69	56.159	0.98	0.89	-1.02
7318.00	25.460	55.330	6804.24	5313.74	-9.84	1251.52	1863.79	1739794.32	413623.74	39°37'57.9956"N	80°18'43.4051"W	2245.00	56.119	1.27	0.10	2.95
7412.00	26.140	55.420	6888.87	5398.37	-10.55	1274.77	1897.45	1739827.99	413646.98	39°37'58.2283"N	80°18'42.9775"W	2285.91	56.106	0.72	0.72	0.10
7507.00	27.500	54.350	6973.65	5483.15	-11.67	1299.43	1932.51	1739863.04	413671.64	39°37'58.4751"N	80°18'42.5323"W	2328.76	56.083	1.52	1.43	-1.13

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Actual Wellpath Report
Miracle Run 14H AWP Proj: 29863'
Page 6 of 16

230636



REFERENCE WELLPATH IDENTIFICATION									
Operator	NORTHEAST NATURAL ENERGY, LLC					Well	Miracle Run 14H		
Field	Monongalia					API/Legal			
Facility	Miracle Run Pad					Wellbore	Miracle Run 14H AWB		
Slot	Slot #14								

WELLPATH DATA (361 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]
7601.00	28.440	54.290	7056.67	5566.17	-13.25	1325.15	1968.32	1739898.85	413697.35	39°37'58.7325"N	80°18'42.0776"W	2372.82	56.050	1.00	1.00	-0.06
7695.00	29.430	54.150	7138.93	5648.43	-14.96	1351.74	2005.21	1739935.74	413723.94	39°37'58.9985"N	80°18'41.6091"W	2418.28	56.016	1.06	1.05	-0.15
7789.00	29.480	54.450	7220.78	5730.28	-16.63	1378.71	2042.75	1739973.27	413750.91	39°37'59.2684"N	80°18'41.1324"W	2464.48	55.983	0.17	0.05	0.32
7883.00	31.180	54.420	7301.92	5811.42	-18.23	1406.32	2081.36	1740011.88	413778.52	39°37'59.5447"N	80°18'40.6421"W	2511.93	55.954	1.81	1.81	-0.03
7977.00	31.280	54.280	7382.29	5891.79	-19.95	1434.72	2120.96	1740051.48	413806.92	39°37'59.8290"N	80°18'40.1392"W	2560.65	55.924	0.13	0.11	-0.15
8071.00	31.260	54.930	7462.64	5972.14	-21.45	1462.98	2160.74	1740091.26	413835.18	39°38'0.1118"N	80°18'39.6341"W	2609.43	55.899	0.36	-0.02	0.69
8165.00	31.400	60.630	7542.95	6052.45	-20.24	1489.01	2202.05	1740132.56	413861.21	39°38'0.3727"N	80°18'39.1092"W	2658.23	55.934	3.16	0.15	6.06
8259.00	32.490	71.430	7622.78	6132.28	-11.86	1509.08	2247.36	1740177.87	413881.28	39°38'0.5751"N	80°18'38.5324"W	2707.02	56.119	6.18	1.16	11.49
8352.00	34.360	85.960	7700.52	6210.02	7.63	1518.90	2297.30	1740227.81	413891.10	39°38'0.6766"N	80°18'37.8952"W	2754.02	56.529	8.82	2.01	15.62
8445.00	38.070	102.130	7775.71	6285.21	41.22	1514.71	2351.66	1740282.16	413886.91	39°38'0.6401"N	80°18'37.2000"W	2797.26	57.214	10.99	3.99	17.39
8539.00	43.640	112.500	7846.87	6356.37	89.00	1496.17	2410.07	1740340.57	413868.37	39°38'0.4621"N	80°18'36.4512"W	2836.72	58.168	9.32	5.93	11.03
8633.00	47.880	115.440	7912.44	6421.94	145.87	1468.77	2471.56	1740402.05	413840.97	39°38'0.1967"N	80°18'35.6623"W	2875.04	59.278	5.04	4.51	3.13
8727.00	53.800	120.060	7971.79	6481.29	209.85	1434.76	2535.94	1740466.44	413806.96	39°37'59.8663"N	80°18'34.8354"W	2913.68	60.500	7.36	6.30	4.91
8821.00	59.720	124.270	8023.31	6532.81	281.54	1392.85	2602.39	1740532.88	413765.06	39°37'59.4581"N	80°18'33.9813"W	2951.69	61.843	7.33	6.30	4.48
8915.00	63.400	128.900	8088.09	6577.59	359.29	1343.57	2668.69	1740599.17	413715.78	39°37'58.9770"N	80°18'33.1283"W	2987.82	63.277	5.84	3.91	4.93
9010.00	68.520	134.100	8106.80	6616.30	443.10	1286.07	2733.56	1740664.04	413658.28	39°37'58.4145"N	80°18'32.2925"W	3020.98	64.804	7.35	5.39	5.47
9104.00	75.890	139.250	8135.52	6645.02	531.24	1220.97	2794.85	1740725.32	413593.19	39°37'57.7766"N	80°18'31.5018"W	3049.91	66.401	9.41	7.84	5.48
9198.00	83.530	143.520	8152.31	6661.81	623.30	1148.75	2852.48	1740782.95	413520.97	39°37'57.0680"N	80°18'30.7569"W	3075.10	68.064	9.27	8.13	4.54
9292.00	86.120	146.520	8160.79	6670.29	716.87	1072.06	2906.13	1740836.60	413444.28	39°37'56.3149"N	80°18'30.0623"W	3097.56	69.751	4.21	2.76	3.19
9386.00	89.970	147.600	8164.00	6673.50	810.79	993.23	2957.20	1740887.67	413365.46	39°37'55.5404"N	80°18'29.4005"W	3119.54	71.434	4.25	4.10	1.15
9480.00	90.220	147.480	8163.84	6673.34	904.77	913.92	3007.65	1740938.12	413286.15	39°37'54.7610"N	80°18'28.7466"W	3143.44	73.098	0.30	0.27	-0.13
9573.00	90.860	146.070	8162.96	6672.46	997.76	836.12	3058.61	1740989.07	413208.36	39°37'53.9968"N	80°18'28.0864"W	3170.83	74.711	1.66	0.69	-1.52
9666.00	90.770	146.020	8161.64	6671.14	1090.75	758.99	3110.55	1741041.01	413131.23	39°37'53.2391"N	80°18'27.4137"W	3201.81	76.287	0.11	-0.10	-0.05
9759.00	90.120	146.640	8160.92	6670.42	1183.74	681.80	3162.11	1741092.56	413053.84	39°37'52.4789"N	80°18'26.7459"W	3234.73	77.836	0.97	-0.70	0.67
9853.00	89.720	145.950	8161.05	6670.55	1277.74	603.40	3214.27	1741144.72	412975.65	39°37'51.7107"N	80°18'26.0702"W	3270.41	79.368	0.85	-0.43	-0.73
9946.00	89.690	144.980	8161.53	6671.03	1370.73	526.79	3266.99	1741197.44	412899.04	39°37'50.9583"N	80°18'25.3876"W	3309.19	80.840	1.04	-0.03	-1.04
10039.00	89.720	144.380	8162.01	6671.51	1463.69	450.91	3320.75	1741251.20	412823.17	39°37'50.2132"N	80°18'24.6918"W	3351.23	82.267	0.65	0.03	-0.65
10133.00	89.750	144.360	8162.44	6671.94	1557.63	374.50	3375.51	1741305.96	412746.77	39°37'49.4630"N	80°18'23.9832"W	3396.23	83.669	0.04	0.03	-0.02
10227.00	89.690	146.700	8162.90	6672.40	1651.61	297.02	3428.71	1741359.15	412669.29	39°37'48.7019"N	80°18'23.2944"W	3441.55	85.049	2.49	-0.06	2.49
10321.00	89.570	146.510	8163.51	6673.01	1745.61	218.54	3480.45	1741410.88	412590.81	39°37'47.9309"N	80°18'22.6241"W	3487.30	86.407	0.24	-0.13	-0.20

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Actual Wellpath Report

Miracle Run 14H AWP Proj: 29863'

Page 7 of 16

24 of 36



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 14H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 14H AWB
Slot	Slot #14		

WELLPATH DATA (361 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]
10415.00	89.540	146.240	8164.24	6673.74	1839.60	140.27	3532.50	1741462.93	412512.55	39°37'47.1620"N	80°18'21.9499"W	3535.28	87.726	0.29	-0.03	-0.29
10508.00	89.820	146.230	8164.76	6674.26	1932.60	62.96	3584.19	1741514.62	412435.24	39°37'46.4026"N	80°18'21.2805"W	3584.74	88.994	0.30	0.30	-0.01
10600.00	89.880	146.570	8165.00	6674.50	2024.60	-13.67	3635.10	1741565.53	412358.62	39°37'45.6498"N	80°18'20.6210"W	3635.12	90.216	0.38	0.07	0.37
10692.00	90.060	146.120	8165.05	6674.55	2116.60	-90.25	3686.08	1741616.51	412282.04	39°37'44.8975"N	80°18'19.9606"W	3687.19	91.403	0.53	0.20	-0.49
10785.00	89.880	146.340	8165.10	6674.60	2209.60	-167.56	3737.78	1741668.20	412204.74	39°37'44.1381"N	80°18'19.2911"W	3741.53	92.567	0.31	-0.19	0.24
10879.00	89.690	146.040	8165.45	6674.95	2303.60	-245.66	3790.08	1741720.50	412126.64	39°37'43.3709"N	80°18'18.6137"W	3798.04	93.709	0.38	-0.20	-0.32
10971.00	89.940	146.050	8165.75	6675.25	2395.60	-321.98	3841.47	1741771.88	412050.33	39°37'42.6213"N	80°18'17.9482"W	3854.94	94.791	0.27	0.27	0.01
11063.00	89.380	145.930	8166.29	6675.79	2487.59	-398.24	3892.93	1741823.34	411974.08	39°37'41.8722"N	80°18'17.2819"W	3913.24	95.841	0.62	-0.61	-0.13
11156.00	89.260	145.670	8167.40	6676.90	2580.58	-475.15	3945.20	1741875.61	411897.17	39°37'41.1167"N	80°18'16.6051"W	3973.71	96.867	0.31	-0.13	-0.28
11249.00	89.320	145.690	8168.55	6678.05	2673.57	-551.95	3997.63	1741928.03	411820.37	39°37'40.3623"N	80°18'15.9262"W	4035.55	97.861	0.07	0.06	0.02
11342.00	89.450	146.180	8169.55	6679.05	2766.56	-628.99	4049.72	1741980.12	411743.34	39°37'39.6056"N	80°18'15.2517"W	4098.27	98.828	0.55	0.14	0.53
11434.00	89.450	146.150	8170.43	6679.93	2858.56	-705.40	4100.94	1742031.34	411666.93	39°37'38.8550"N	80°18'14.5883"W	4161.17	99.760	0.03	0.00	-0.03
11526.00	89.320	146.490	8171.42	6680.92	2950.55	-781.96	4151.96	1742082.35	411590.38	39°37'38.1029"N	80°18'13.9276"W	4224.95	100.666	0.40	-0.14	0.37
11619.00	89.140	145.980	8172.67	6682.17	3043.54	-859.26	4203.64	1742134.03	411513.08	39°37'37.3435"N	80°18'13.2582"W	4290.56	101.553	0.58	-0.19	-0.55
11712.00	89.230	146.170	8173.99	6683.49	3136.53	-936.42	4255.54	1742185.93	411435.92	39°37'36.5856"N	80°18'12.5861"W	4357.35	102.410	0.23	0.10	0.20
11805.00	88.920	146.200	8175.49	6684.99	3229.52	-1013.68	4307.29	1742237.67	411358.67	39°37'35.8266"N	80°18'11.9160"W	4424.96	103.243	0.33	-0.33	0.03
11898.00	89.230	145.960	8176.99	6686.49	3322.50	-1090.85	4359.18	1742289.56	411281.51	39°37'35.0687"N	80°18'11.2440"W	4493.59	104.049	0.42	0.33	-0.26
11990.00	89.290	146.190	8178.18	6687.68	3414.50	-1167.18	4410.52	1742340.90	411205.18	39°37'34.3188"N	80°18'10.5792"W	4562.34	104.823	0.26	0.07	0.25
12082.00	88.770	145.840	8179.74	6689.24	3506.48	-1243.45	4461.94	1742392.31	411128.92	39°37'33.5696"N	80°18'9.9133"W	4631.96	105.572	0.68	-0.57	-0.38
12174.00	89.260	146.190	8181.32	6690.82	3598.46	-1319.72	4513.36	1742443.73	411052.65	39°37'32.8204"N	80°18'9.2475"W	4702.35	106.299	0.65	0.53	0.38
12266.00	88.950	145.690	8182.76	6692.26	3690.45	-1395.93	4564.87	1742495.25	410976.44	39°37'32.0718"N	80°18'8.5804"W	4773.54	107.004	0.64	-0.34	-0.54
12359.00	89.140	145.800	8184.31	6693.81	3783.43	-1472.79	4617.21	1742547.58	410899.59	39°37'31.3168"N	80°18'7.9028"W	4846.42	107.692	0.24	0.20	0.12
12451.00	89.080	145.960	8185.74	6695.24	3875.42	-1548.94	4668.81	1742599.18	410823.44	39°37'30.5688"N	80°18'7.2347"W	4919.05	108.354	0.19	-0.07	0.17
12544.00	88.990	146.860	8187.30	6696.80	3968.40	-1626.40	4720.26	1742650.62	410745.99	39°37'29.8078"N	80°18'6.5684"W	4992.60	109.012	0.97	-0.10	0.97
12636.00	88.550	147.260	8189.28	6698.78	4060.38	-1703.59	4770.27	1742700.63	410668.80	39°37'29.0494"N	80°18'5.9204"W	5065.35	109.653	0.65	-0.48	0.43
12729.00	89.540	147.150	8190.83	6700.33	4153.35	-1781.76	4820.64	1742750.99	410590.64	39°37'28.2814"N	80°18'5.2679"W	5139.38	110.285	1.07	1.06	-0.12
12821.00	89.320	147.390	8191.74	6701.24	4245.34	-1859.15	4870.38	1742800.73	410513.25	39°37'27.5210"N	80°18'4.6234"W	5213.16	110.893	0.35	-0.24	0.26
12913.00	88.920	147.180	8193.16	6702.66	4337.31	-1936.55	4920.09	1742850.44	410435.86	39°37'26.7605"N	80°18'3.9793"W	5287.49	111.485	0.49	-0.43	-0.23
13006.00	89.050	147.060	8194.80	6704.30	4430.29	-2014.64	4970.57	1742900.92	410357.78	39°37'25.9932"N	80°18'3.3253"W	5363.33	112.063	0.19	0.14	-0.13
13099.00	88.490	146.700	8196.80	6706.30	4523.26	-2092.51	5021.38	1742951.72	410279.91	39°37'25.2281"N	80°18'2.6672"W	5439.93	112.622	0.72	-0.60	-0.39

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Actual Wellpath Report

Miracle Run 14H AWP Proj: 29863'

Page 8 of 16

28 of 36



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 14H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 14H AWP
Slot	Slot #14		

WELLPATH DATA (361 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]
13192.00	88.280	146.980	8199.42	6708.92	4616.22	-2170.33	5072.22	1743002.56	410202.09	39°37'24.4635"N	80°18'2.0085"W	5517.05	113.165	0.38	-0.23	0.30
13284.00	87.910	146.970	8202.48	6711.98	4708.17	-2247.42	5122.34	1743052.67	410125.00	39°37'23.7060"N	80°18'1.3593"W	5593.68	113.689	0.40	-0.40	-0.01
13378.00	88.060	147.280	8205.78	6715.28	4802.10	-2326.32	5173.33	1743103.66	410046.11	39°37'22.9308"N	80°18'0.6987"W	5672.31	114.212	0.37	0.16	0.33
13470.00	87.820	146.590	8209.09	6718.59	4894.04	-2403.37	5223.49	1743153.82	409969.06	39°37'22.1737"N	80°18'0.0489"W	5749.87	114.708	0.79	-0.26	-0.75
13564.00	87.820	147.090	8212.67	6722.17	4987.97	-2482.01	5274.87	1743205.20	409890.44	39°37'21.4011"N	80°17'59.3834"W	5829.63	115.199	0.53	0.00	0.53
13656.00	88.340	147.160	8215.75	6725.25	5079.91	-2559.23	5324.78	1743255.10	409813.22	39°37'20.6424"N	80°17'58.7368"W	5907.87	115.670	0.57	0.57	0.08
13749.00	88.430	146.940	8218.37	6727.87	5172.86	-2637.24	5375.34	1743305.66	409735.21	39°37'19.8759"N	80°17'58.0818"W	5987.43	116.133	0.26	0.10	-0.24
13842.00	88.220	146.780	8221.09	6730.59	5265.82	-2715.08	5426.16	1743356.48	409657.38	39°37'19.1111"N	80°17'57.4235"W	6067.53	116.582	0.28	-0.23	-0.17
13934.00	88.950	147.380	8223.36	6732.86	5357.78	-2792.28	5476.15	1743406.46	409580.18	39°37'18.3525"N	80°17'56.7760"W	6146.95	117.017	1.03	0.79	0.65
14027.00	88.980	147.230	8225.04	6734.54	5450.75	-2870.53	5526.37	1743456.69	409501.93	39°37'17.5836"N	80°17'56.1253"W	6227.42	117.448	0.16	0.03	-0.16
14119.00	89.050	147.350	8226.62	6736.12	5542.73	-2947.93	5576.08	1743506.39	409424.54	39°37'16.8231"N	80°17'55.4813"W	6307.38	117.864	0.15	0.08	0.13
14212.00	88.920	146.790	8228.27	6737.77	5635.71	-3025.98	5626.63	1743556.94	409346.50	39°37'16.0562"N	80°17'54.8265"W	6388.70	118.271	0.62	-0.14	-0.60
14305.00	89.080	147.020	8229.89	6739.39	5728.69	-3103.88	5677.40	1743607.71	409268.60	39°37'15.2908"N	80°17'54.1688"W	6470.47	118.666	0.30	0.17	0.25
14397.00	88.400	147.090	8231.91	6741.41	5820.66	-3181.07	5727.42	1743657.72	409191.42	39°37'14.5324"N	80°17'53.5208"W	6551.53	119.048	0.74	-0.74	0.08
14490.00	88.460	146.940	8234.46	6743.96	5913.62	-3259.05	5778.04	1743708.33	409113.44	39°37'13.7662"N	80°17'52.8652"W	6633.78	119.425	0.17	0.06	-0.16
14583.00	88.610	146.830	8236.84	6746.34	6006.58	-3336.91	5828.83	1743759.12	409035.58	39°37'13.0011"N	80°17'52.2073"W	6716.41	119.790	0.20	0.16	-0.12
14676.00	88.650	147.120	8239.06	6748.56	6099.55	-3414.87	5879.50	1743809.79	408957.63	39°37'12.2352"N	80°17'51.5510"W	6799.25	120.148	0.31	0.04	0.31
14769.00	87.820	146.200	8241.93	6751.43	6192.51	-3492.52	5930.59	1743860.87	408879.98	39°37'11.4722"N	80°17'50.8893"W	6882.55	120.494	1.33	-0.89	-0.99
14862.00	87.970	147.000	8245.34	6754.84	6285.44	-3570.11	5981.74	1743912.03	408802.40	39°37'10.7100"N	80°17'50.2268"W	6966.13	120.830	0.87	0.16	0.86
14954.00	88.090	147.120	8248.51	6758.01	6377.38	-3647.27	6031.74	1743962.02	408725.24	39°37'9.9518"N	80°17'49.5792"W	7048.72	121.161	0.18	0.13	0.13
15047.00	87.450	147.270	8252.13	6761.63	6470.30	-3725.38	6082.09	1744012.37	408647.13	39°37'9.1843"N	80°17'48.9270"W	7132.34	121.488	0.71	-0.69	0.16
15140.00	88.490	147.010	8255.42	6764.92	6563.23	-3803.45	6132.52	1744062.79	408569.07	39°37'8.4172"N	80°17'48.2737"W	7216.23	121.808	1.15	1.12	-0.28
15233.00	89.110	147.080	8257.37	6766.87	6656.20	-3881.47	6183.10	1744113.37	408491.06	39°37'7.6506"N	80°17'47.6186"W	7300.44	122.119	0.67	0.67	0.08
15326.00	89.110	147.020	8258.81	6768.31	6749.19	-3959.50	6233.67	1744163.94	408413.03	39°37'6.8838"N	80°17'46.9634"W	7384.87	122.423	0.06	0.00	-0.06
15419.00	89.140	146.800	8260.23	6769.73	6842.37	-4037.41	6284.44	1744214.71	408335.13	39°37'6.1184"N	80°17'46.3059"W	7469.60	122.719	0.24	0.03	-0.24
15512.00	89.170	147.210	8261.60	6771.10	6935.16	-4115.40	6335.08	1744265.34	408257.14	39°37'5.3520"N	80°17'45.6500"W	7554.45	123.009	0.44	0.03	0.44
15605.00	89.290	146.890	8262.85	6772.35	7028.14	-4193.44	6385.66	1744315.92	408179.11	39°37'4.5853"N	80°17'44.9948"W	7639.47	123.293	0.37	0.13	-0.34
15698.00	89.230	146.780	8264.05	6773.55	7121.13	-4271.28	6436.53	1744366.79	408101.27	39°37'3.8204"N	80°17'44.3360"W	7724.81	123.568	0.13	-0.06	-0.12
15791.00	89.970	147.160	8264.70	6774.20	7214.12	-4349.25	6487.22	1744417.47	408023.31	39°37'3.0544"N	80°17'43.6794"W	7810.25	123.839	0.89	0.80	0.41
15884.00	91.080	145.930	8263.85	6773.35	7307.11	-4426.83	6538.49	1744468.74	407945.73	39°37'2.2921"N	80°17'43.0156"W	7896.12	124.100	1.78	1.19	-1.32

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Actual Wellpath Report

Miracle Run 14H AWP Proj: 29863'

Page 9 of 16

2le of 3lo



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 14H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 14H AWB
Slot	Slot #14		

WELLPATH DATA (361 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]
15976.00	90.950	145.810	8262.22	6771.72	7399.10	4502.98	6590.10	1744520.34	407869.59	39°37'1.5441"N	80°17'42.3475"W	7981.61	124.345	0.19	-0.14	-0.13
16069.00	90.310	146.100	8261.20	6770.70	7492.09	4580.03	6642.16	1744572.40	407792.54	39°37'0.7872"N	80°17'41.6735"W	8068.14	124.588	0.76	-0.69	0.31
16161.00	90.180	145.930	8260.81	6770.31	7584.08	4656.31	6693.58	1744623.82	407716.26	39°37'0.0378"N	80°17'41.0078"W	8153.85	124.824	0.23	-0.14	-0.18
16254.00	90.250	146.030	8260.46	6769.96	7677.08	4733.40	6745.62	1744675.85	407639.18	39°36'59.2806"N	80°17'40.3342"W	8240.65	125.057	0.13	0.08	0.11
16346.00	90.740	146.220	8259.66	6769.16	7769.08	4809.78	6796.89	1744727.13	407562.81	39°36'58.5302"N	80°17'39.6704"W	8326.57	125.285	0.57	0.53	0.21
16440.00	91.510	145.840	8257.82	6767.32	7863.06	4887.72	6849.41	1744779.64	407484.87	39°36'57.7646"N	80°17'38.9905"W	8414.52	125.512	0.91	0.82	-0.40
16533.00	91.940	145.780	8255.02	6764.52	7956.01	4964.61	6901.64	1744831.87	407407.98	39°36'57.0092"N	80°17'38.3144"W	8501.77	125.729	0.47	0.46	-0.06
16625.00	91.230	145.970	8252.47	6761.97	8047.97	5040.74	6953.23	1744883.46	407331.86	39°36'56.2614"N	80°17'37.6466"W	8588.16	125.940	0.80	-0.77	0.21
16718.00	92.400	145.850	8249.53	6759.03	8140.92	5117.72	7005.33	1744935.55	407254.89	39°36'55.5052"N	80°17'36.9722"W	8675.58	126.150	1.26	1.26	-0.13
16811.00	93.690	146.000	8244.59	6754.09	8233.78	5194.64	7057.36	1744987.58	407177.97	39°36'54.7495"N	80°17'36.2986"W	8763.03	126.355	1.40	1.39	0.16
16903.00	93.910	145.840	8238.49	6747.99	8325.58	5270.67	7108.80	1745039.02	407101.94	39°36'54.0026"N	80°17'35.6328"W	8849.58	126.554	0.30	0.24	-0.17
16997.00	93.690	146.020	8232.26	6741.76	8419.37	5348.37	7161.35	1745091.56	407024.25	39°36'53.2394"N	80°17'34.9527"W	8938.11	126.754	0.30	-0.23	0.19
17090.00	93.080	145.660	8226.77	6736.27	8512.20	5425.19	7213.47	1745143.68	406947.44	39°36'52.4847"N	80°17'34.2779"W	9025.90	126.946	0.76	-0.66	-0.39
17183.00	92.460	144.900	8222.27	6731.77	8605.07	5501.54	7266.38	1745196.59	406871.09	39°36'51.7348"N	80°17'33.5933"W	9114.12	127.130	1.05	-0.67	-0.82
17275.00	92.710	145.960	8218.13	6727.63	8696.97	5577.21	7318.53	1745248.73	406795.42	39°36'50.9915"N	80°17'32.9184"W	9201.42	127.310	1.18	0.27	1.15
17368.00	94.100	146.110	8212.60	6722.10	8789.80	5654.21	7370.39	1745300.59	406718.43	39°36'50.2351"N	80°17'32.2470"W	9289.39	127.494	1.50	1.49	0.16
17460.00	95.140	145.920	8205.19	6714.69	8881.50	5730.24	7421.65	1745351.85	406642.40	39°36'49.4881"N	80°17'31.5835"W	9376.39	127.672	1.15	1.13	-0.21
17553.00	92.980	144.740	8198.61	6708.11	8974.24	5806.53	7474.42	1745404.61	406566.11	39°36'48.7388"N	80°17'30.9007"W	9464.82	127.842	2.64	-2.32	-1.27
17645.00	93.880	145.920	8193.10	6702.60	9066.06	5882.06	7526.66	1745456.85	406490.59	39°36'47.9969"N	80°17'30.2247"W	9552.45	128.008	1.61	0.98	1.28
17737.00	94.000	146.090	8186.78	6696.28	9157.84	5958.16	7577.98	1745508.16	406414.50	39°36'47.2494"N	80°17'29.5604"W	9639.78	128.176	0.23	0.13	0.18
17830.00	93.660	145.730	8180.57	6690.07	9250.63	6035.00	7629.99	1745560.17	406337.66	39°36'46.4945"N	80°17'28.8873"W	9728.20	128.343	0.53	-0.37	-0.39
17923.00	94.800	146.000	8173.71	6683.21	9343.37	6111.77	7682.03	1745612.21	406260.90	39°36'45.7404"N	80°17'28.2136"W	9816.68	128.506	1.26	1.23	0.29
18016.00	95.950	145.800	8165.00	6674.50	9435.96	6188.44	7733.94	1745664.12	406184.23	39°36'44.9872"N	80°17'27.5418"W	9905.08	128.666	1.25	1.24	-0.22
18109.00	94.800	146.160	8156.29	6665.79	9528.54	6265.18	7785.74	1745715.91	406107.49	39°36'44.2333"N	80°17'26.8712"W	9993.51	128.824	1.30	-1.24	0.39
18201.00	94.220	145.900	8149.05	6658.55	9620.26	6341.24	7836.99	1745767.16	406031.44	39°36'43.4860"N	80°17'26.2079"W	10081.16	128.978	0.69	-0.63	-0.28
18293.00	92.000	145.900	8144.06	6653.56	9712.11	6417.31	7888.49	1745818.65	405955.38	39°36'42.7388"N	80°17'25.5413"W	10169.07	129.128	2.41	-2.41	0.00
18387.00	92.030	146.210	8140.76	6650.26	9806.05	6495.24	7940.94	1745871.11	405877.45	39°36'41.9732"N	80°17'24.8623"W	10258.98	129.281	0.33	0.03	0.33
18480.00	92.000	145.700	8137.49	6646.99	9898.99	6572.25	7992.98	1745923.14	405800.44	39°36'41.2166"N	80°17'24.1889"W	10348.05	129.429	0.55	-0.03	-0.55
18572.00	91.940	145.970	8134.32	6643.82	9990.93	6648.33	8044.61	1745974.77	405724.37	39°36'40.4693"N	80°17'23.5206"W	10436.28	129.571	0.30	-0.07	0.29
18665.00	92.090	145.680	8131.05	6640.55	10083.87	6725.22	8096.82	1746026.97	405647.48	39°36'39.7139"N	80°17'22.8449"W	10525.54	129.713	0.35	0.16	-0.31

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Actual Wellpath Report

Miracle Run 14H AWP Proj: 29863'

Page 10 of 16

27 of 36



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 14H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 14H AWP
Slot	Slot #14		

WELLPATH DATA (361 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]
18759.00	90.090	145.270	8129.27	6638.77	10177.84	6802.65	8150.08	1746080.23	405570.06	39°36'38.9534"N	80°17'22.1556"W	10616.02	129.851	2.17	-2.13	-0.44
18852.00	90.890	145.870	8128.47	6637.97	10270.83	6879.35	8202.66	1746132.81	405493.36	39°36'38.1999"N	80°17'21.4752"W	10705.57	129.986	1.08	0.86	0.65
18945.00	90.280	145.440	8127.52	6637.02	10363.81	6956.13	8255.13	1746185.27	405416.58	39°36'37.4456"N	80°17'20.7963"W	10795.13	130.119	0.80	-0.66	-0.46
19039.00	88.520	145.000	8128.50	6638.00	10457.78	7033.33	8308.74	1746238.88	405339.39	39°36'36.6874"N	80°17'20.1026"W	10885.91	130.248	1.93	-1.87	-0.47
19132.00	89.820	145.730	8129.85	6639.35	10550.76	7109.84	8361.59	1746291.73	405262.88	39°36'35.9358"N	80°17'19.4187"W	10975.70	130.374	1.60	1.40	0.78
19225.00	89.940	146.320	8130.05	6639.55	10643.76	7186.96	8413.56	1746343.70	405185.77	39°36'35.1782"N	80°17'18.7461"W	11065.28	130.504	0.65	0.13	0.63
19317.00	89.570	145.690	8130.44	6639.94	10735.75	7263.24	8465.00	1746395.13	405109.50	39°36'34.4288"N	80°17'18.0803"W	11153.96	130.631	0.79	-0.40	-0.68
19410.00	88.890	144.930	8131.69	6641.19	10828.73	7339.70	8517.92	1746448.05	405033.04	39°36'33.6778"N	80°17'17.3956"W	11243.94	130.751	1.10	-0.73	-0.82
19503.00	89.230	145.370	8133.22	6642.72	10921.69	7416.01	8571.06	1746501.19	404956.73	39°36'32.9283"N	80°17'16.7081"W	11334.03	130.868	0.60	0.37	0.47
19596.00	88.550	145.620	8135.02	6644.52	11014.66	7492.63	8623.73	1746553.85	404880.11	39°36'32.1756"N	80°17'16.0265"W	11424.02	130.985	0.78	-0.73	0.27
19689.00	88.830	147.010	8137.14	6646.64	11107.64	7570.00	8675.30	1746605.42	404802.76	39°36'31.4155"N	80°17'15.3591"W	11513.72	131.108	1.52	0.30	1.49
19781.00	88.680	147.360	8139.14	6648.64	11199.61	7647.30	8725.14	1746655.26	404725.46	39°36'30.6559"N	80°17'14.7135"W	11602.12	131.233	0.41	-0.16	0.38
19875.00	89.080	147.110	8140.98	6650.48	11293.58	7726.33	8776.01	1746706.12	404646.44	39°36'29.8793"N	80°17'14.0549"W	11692.49	131.360	0.50	0.43	-0.27
19968.00	89.170	146.850	8142.40	6651.90	11386.56	7804.30	8826.68	1746756.79	404568.47	39°36'29.1131"N	80°17'13.3987"W	11782.08	131.482	0.30	0.10	-0.28
20060.00	89.230	146.860	8143.68	6653.18	11478.55	7881.32	8876.98	1746807.08	404491.45	39°36'28.3563"N	80°17'12.7475"W	11870.80	131.600	0.07	0.07	0.01
20153.00	89.660	146.690	8144.59	6654.09	11571.54	7959.11	8927.93	1746858.03	404413.66	39°36'27.5919"N	80°17'12.0878"W	11960.58	131.717	0.50	0.46	-0.18
20246.00	89.660	146.780	8145.14	6654.64	11664.54	8036.87	8978.94	1746909.04	404335.91	39°36'26.8278"N	80°17'11.4273"W	12050.42	131.831	0.10	0.00	0.10
20339.00	90.340	146.930	8145.14	6654.64	11757.53	8114.74	9029.79	1746959.89	404258.05	39°36'26.0627"N	80°17'10.7690"W	12140.27	131.945	0.75	0.73	0.18
20433.00	90.400	147.040	8144.53	6654.03	11851.53	8193.56	9081.01	1747011.10	404179.23	39°36'25.2882"N	80°17'10.1058"W	12231.07	132.059	0.13	0.06	0.12
20525.00	89.940	146.780	8144.26	6653.76	11943.52	8270.64	9131.23	1747061.32	404102.16	39°36'24.5308"N	80°17'9.4555"W	12320.02	132.169	0.57	-0.50	-0.28
20618.00	90.460	146.970	8143.93	6653.43	12036.52	8348.52	9182.05	1747112.14	404024.28	39°36'23.7655"N	80°17'8.7975"W	12409.99	132.278	0.60	0.56	0.20
20711.00	89.780	146.860	8143.74	6653.24	12129.51	8426.44	9232.82	1747162.90	403946.36	39°36'22.9998"N	80°17'8.1402"W	12500.00	132.386	0.74	-0.73	-0.12
20805.00	90.030	147.100	8143.89	6653.39	12223.51	8505.26	9284.04	1747214.13	403867.55	39°36'22.2253"N	80°17'7.4769"W	12590.99	132.493	0.37	0.27	0.26
20897.00	89.910	146.730	8143.94	6653.44	12315.50	8582.34	9334.26	1747264.34	403790.47	39°36'21.4679"N	80°17'6.8267"W	12680.11	132.597	0.42	-0.13	-0.40
20990.00	89.540	145.980	8144.39	6653.89	12408.50	8659.76	9385.79	1747315.87	403713.06	39°36'20.7072"N	80°17'6.1598"W	12770.46	132.696	0.90	-0.40	-0.81
21084.00	89.570	146.630	8145.12	6654.62	12502.50	8737.97	9437.94	1747368.01	403634.86	39°36'19.9389"N	80°17'5.4848"W	12861.83	132.795	0.69	0.03	0.69
21177.00	89.540	147.110	8145.84	6655.34	12595.49	8815.85	9488.76	1747418.83	403556.98	39°36'19.1736"N	80°17'4.8268"W	12952.06	132.895	0.52	-0.03	0.52
21269.00	89.910	147.000	8146.28	6655.78	12687.48	8893.05	9538.80	1747468.86	403479.78	39°36'18.4149"N	80°17'4.1789"W	13041.28	132.994	0.42	0.40	-0.12
21362.00	90.120	146.930	8146.26	6655.76	12780.48	8971.02	9589.49	1747519.56	403401.82	39°36'17.6488"N	80°17'3.5225"W	13131.55	133.091	0.24	0.23	-0.08
21456.00	89.910	147.100	8146.23	6655.73	12874.47	9049.87	9640.67	1747570.73	403322.98	39°36'16.8740"N	80°17'2.8599"W	13222.81	133.189	0.29	-0.22	-0.18

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Actual Wellpath Report

Miracle Run 14H AWP Proj: 29863'

Page 11 of 16



28 of 36

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 14H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 14H AWB
Slot	Slot #14		

WELLPATH DATA (361 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]
21549.00	89.850	146.560	8146.43	6655.93	12967.47	-9127.71	9691.55	1747621.61	403245.14	39°36'16.1091"N	80°17'2.2012"W	13313.20	133.284	0.58	-0.06	-0.58
21642.00	89.970	146.790	8146.57	6656.07	13060.47	-9205.42	9742.64	1747672.70	403167.43	39°36'15.3455"N	80°17'1.5398"W	13403.69	133.376	0.28	0.13	0.25
21735.00	89.940	147.120	8146.65	6656.15	13153.46	-9283.38	9793.36	1747723.41	403089.48	39°36'14.5795"N	80°17'0.8832"W	13494.11	133.469	0.36	-0.03	0.35
21827.00	89.690	147.320	8146.94	6656.44	13245.45	-9360.72	9843.17	1747773.21	403012.14	39°36'13.8194"N	80°17'0.2382"W	13583.49	133.561	0.35	-0.27	0.22
21920.00	89.910	147.060	8147.27	6656.77	13338.44	-9438.89	9893.56	1747823.60	402933.98	39°36'13.0512"N	80°16'59.5857"W	13673.88	133.653	0.37	0.24	-0.28
22014.00	90.250	146.910	8147.14	6656.64	13432.43	-9517.71	9944.78	1747874.82	402855.16	39°36'12.2767"N	80°16'58.9226"W	13765.37	133.743	0.40	0.36	-0.16
22109.00	90.370	147.100	8146.62	6656.12	13527.43	-9597.39	9996.51	1747926.55	402775.49	39°36'11.4937"N	80°16'58.2528"W	13857.85	133.833	0.24	0.13	0.20
22202.00	90.310	147.030	8146.07	6655.57	13620.42	-9675.44	10047.07	1747977.11	402697.44	39°36'10.7267"N	80°16'57.5982"W	13948.40	133.921	0.10	-0.06	-0.08
22295.00	90.250	146.890	8145.62	6655.12	13713.41	-9753.40	10097.78	1748027.81	402619.49	39°36'9.9606"N	80°16'56.9417"W	14039.01	134.006	0.16	-0.06	-0.15
22389.00	90.580	147.350	8144.94	6654.44	13807.40	-9832.34	10148.81	1748078.83	402540.55	39°36'9.1849"N	80°16'56.2810"W	14130.57	134.093	0.60	0.35	0.49
22482.00	90.710	146.820	8143.89	6653.39	13900.39	-9910.40	10199.34	1748129.36	402462.49	39°36'8.4177"N	80°16'55.6268"W	14221.20	134.177	0.59	0.14	-0.57
22575.00	90.490	147.090	8142.92	6652.42	13993.38	-9988.36	10250.05	1748180.07	402384.55	39°36'7.6517"N	80°16'54.9703"W	14311.91	134.259	0.37	-0.24	0.28
22667.00	90.920	146.970	8141.78	6651.28	14085.37	-10065.53	10300.11	1748230.13	402307.37	39°36'6.8933"N	80°16'54.3221"W	14401.64	134.340	0.49	0.47	-0.13
22760.00	90.650	146.580	8140.51	6650.01	14178.35	-10143.32	10351.06	1748281.08	402229.59	39°36'6.1289"N	80°16'53.6626"W	14492.46	134.419	0.51	-0.29	-0.42
22853.00	90.310	147.040	8139.73	6649.23	14271.35	-10221.15	10401.97	1748331.98	402151.77	39°36'5.3642"N	80°16'53.0036"W	14583.31	134.498	0.62	-0.37	0.49
22946.00	90.490	147.040	8139.08	6648.58	14364.34	-10299.18	10452.57	1748382.58	402073.74	39°36'4.5974"N	80°16'52.3485"W	14674.10	134.577	0.19	0.19	0.00
23039.00	90.430	147.210	8138.33	6647.83	14457.33	-10377.28	10503.05	1748433.05	401995.64	39°36'3.8299"N	80°16'51.6950"W	14764.89	134.655	0.19	-0.06	0.18
23133.00	90.520	146.980	8137.56	6647.06	14551.32	-10456.20	10554.11	1748484.11	401916.73	39°36'3.0544"N	80°16'51.0339"W	14856.69	134.733	0.26	0.10	-0.24
23227.00	90.490	146.930	8136.73	6646.23	14645.31	-10534.99	10605.37	1748535.37	401837.94	39°36'2.2801"N	80°16'50.3703"W	14948.57	134.809	0.06	-0.03	-0.05
23320.00	90.550	147.180	8135.88	6645.38	14738.30	-10613.03	10655.94	1748585.94	401759.91	39°36'1.5132"N	80°16'49.7156"W	15039.47	134.884	0.28	0.06	-0.27
23413.00	90.920	146.900	8134.69	6644.19	14831.28	-10691.06	10706.53	1748636.53	401681.89	39°36'0.7464"N	80°16'49.0606"W	15130.39	134.959	0.50	0.40	-0.30
23506.00	90.800	146.990	8133.29	6642.79	14924.27	-10769.00	10757.25	1748687.24	401603.95	39°35'59.9805"N	80°16'48.4040"W	15221.36	135.031	0.16	-0.13	0.10
23598.00	91.290	147.010	8131.62	6641.12	15016.25	-10846.14	10807.35	1748737.34	401526.81	39°35'59.2224"N	80°16'47.7554"W	15311.36	135.103	0.53	0.53	0.02
23691.00	91.290	145.650	8129.52	6639.02	15109.22	-10923.52	10858.90	1748788.88	401449.44	39°35'58.4622"N	80°16'47.0883"W	15402.56	135.170	1.46	0.00	-1.46
23785.00	91.170	146.040	8127.50	6637.00	15203.20	-11001.29	10911.66	1748841.64	401371.68	39°35'57.6981"N	80°16'46.4057"W	15494.92	135.234	0.43	-0.13	0.41
23878.00	91.080	145.480	8125.68	6635.18	15296.17	-11078.15	10963.98	1748893.95	401294.81	39°35'56.9430"N	80°16'45.7288"W	15586.35	135.297	0.61	-0.10	-0.60
23973.00	90.340	145.770	8124.50	6634.00	15391.16	-11156.56	11017.61	1748947.58	401216.42	39°35'56.1727"N	80°16'45.0350"W	15679.81	135.359	0.84	-0.78	0.31
24067.00	90.830	145.950	8123.54	6633.04	15485.15	-11234.35	11070.36	1749000.33	401138.62	39°35'55.4084"N	80°16'44.3525"W	15772.24	135.421	0.56	0.52	0.19
24162.00	90.620	145.960	8122.34	6631.84	15580.14	-11313.06	11123.54	1749053.51	401059.92	39°35'54.6351"N	80°16'43.6644"W	15865.64	135.484	0.22	-0.22	0.01
24256.00	90.680	146.090	8121.27	6630.77	15674.13	-11391.01	11176.07	1749106.03	400981.98	39°35'53.8693"N	80°16'42.9848"W	15958.06	135.546	0.15	0.06	0.14

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09/19/2025



Actual Wellpath Report

Miracle Run 14H AWP Proj: 29863'
Page 12 of 16

29 of 36



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 14H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 14H AWB
Slot	Slot #14		

WELLPATH DATA (361 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]
24350.00	90.830	146.060	1120.03	6629.53	15768.12	11469.00	11228.53	1749158.49	400903.99	39°35'53.1030"N	80°16'42.3060"W	16050.48	135.607	0.16	0.16	-0.03
24445.00	90.860	146.050	1118.63	6628.13	15863.11	11547.80	11281.57	1749211.53	400825.19	39°35'52.3288"N	80°16'41.6197"W	16143.90	135.668	0.03	0.03	-0.01
24539.00	90.710	145.930	1117.35	6626.85	15957.10	11625.72	11334.14	1749264.10	400747.28	39°35'51.5633"N	80°16'40.9395"W	16236.38	135.728	0.20	-0.16	-0.13
24632.00	91.010	146.130	1115.95	6625.45	16050.08	11702.84	11386.10	1749316.05	400670.17	39°35'50.8056"N	80°16'40.2672"W	16327.88	135.786	0.39	0.32	0.22
24727.00	90.980	145.950	1114.30	6623.80	16145.07	11781.62	11439.16	1749369.11	400591.39	39°35'50.0316"N	80°16'39.5807"W	16421.36	135.845	0.19	-0.03	-0.19
24821.00	91.080	145.920	1112.61	6622.11	16239.05	11859.48	11491.80	1749421.75	400513.54	39°35'49.2666"N	80°16'38.8996"W	16513.90	135.902	0.11	0.11	-0.03
24915.00	91.410	145.850	1110.57	6620.07	16333.02	11937.28	11544.51	1749474.45	400435.74	39°35'48.5022"N	80°16'38.2177"W	16606.46	135.958	0.36	0.35	-0.07
25009.00	91.350	145.740	1108.30	6617.80	16426.99	12015.00	11597.34	1749527.28	400358.02	39°35'47.7387"N	80°16'37.5342"W	16699.06	136.013	0.13	-0.06	-0.12
25102.00	90.770	145.950	1106.58	6616.08	16519.97	12091.95	11649.54	1749579.48	400281.08	39°35'46.9827"N	80°16'36.8589"W	16790.68	136.068	0.66	-0.62	0.23
25197.00	90.860	146.010	1105.23	6614.73	16614.96	12170.68	11702.69	1749632.62	400202.36	39°35'46.2092"N	80°16'36.1713"W	16884.26	136.123	0.11	0.09	0.06
25290.00	90.860	146.010	1103.84	6613.34	16707.95	12247.78	11754.67	1749684.60	400125.26	39°35'45.4517"N	80°16'35.4987"W	16975.88	136.177	0.00	0.00	0.00
25384.00	90.920	146.000	1102.38	6611.88	16801.94	12325.70	11807.22	1749737.15	400047.34	39°35'44.6860"N	80°16'34.8188"W	17068.50	136.231	0.06	0.06	-0.01
25478.00	90.980	145.990	1100.82	6610.32	16895.92	12403.62	11859.79	1749789.71	399969.43	39°35'43.9205"N	80°16'34.1387"W	17161.13	136.284	0.06	0.06	-0.01
25572.00	90.920	145.840	1099.26	6608.76	16989.90	12481.46	11912.46	1749842.38	399891.59	39°35'43.1558"N	80°16'33.4573"W	17253.80	136.336	0.17	-0.06	-0.16
25667.00	90.950	145.880	1097.71	6607.21	17084.89	12560.08	11965.77	1749895.69	399812.98	39°35'42.3834"N	80°16'32.7677"W	17347.48	136.388	0.05	0.03	0.04
25761.00	90.650	145.820	1096.40	6605.90	17178.87	12637.86	12018.53	1749948.45	399735.20	39°35'41.6192"N	80°16'32.0851"W	17440.20	136.439	0.33	-0.32	-0.06
25854.00	91.380	145.940	1094.75	6604.25	17271.86	12714.84	12070.69	1750000.60	399658.23	39°35'40.8628"N	80°16'31.4103"W	17531.93	136.489	0.80	0.78	0.13
25949.00	90.620	145.960	1093.09	6602.59	17366.84	12793.54	12123.87	1750053.78	399579.53	39°35'40.0896"N	80°16'30.7223"W	17625.63	136.539	0.80	-0.80	0.02
26042.00	90.490	145.990	1092.19	6601.69	17459.83	12870.61	12175.91	1750105.81	399502.46	39°35'39.3324"N	80°16'30.0491"W	17717.38	136.589	0.14	-0.14	0.03
26137.00	90.460	146.010	1091.40	6600.90	17554.83	12949.37	12229.03	1750158.93	399423.71	39°35'38.5586"N	80°16'29.3619"W	17811.10	136.639	0.04	-0.03	0.02
26232.00	90.400	145.930	1090.69	6600.19	17649.82	13028.10	12282.19	1750212.09	399344.99	39°35'37.7851"N	80°16'28.6741"W	17904.85	136.688	0.11	-0.06	-0.08
26326.00	90.430	146.030	1090.01	6599.51	17743.82	13106.01	12334.78	1750264.68	399267.09	39°35'37.0196"N	80°16'27.9937"W	17997.62	136.736	0.11	0.03	0.11
26419.00	90.430	145.990	1089.31	6598.81	17836.81	13183.12	12386.77	1750316.67	399189.98	39°35'36.2620"N	80°16'27.3212"W	18089.41	136.784	0.04	0.00	-0.04
26512.00	91.110	145.830	1088.06	6597.56	17929.80	13260.13	12438.90	1750368.78	399112.98	39°35'35.5054"N	80°16'26.6469"W	18181.23	136.830	0.75	0.73	-0.17
26604.00	89.880	146.070	1087.27	6596.77	18021.79	13336.35	12490.40	1750420.29	399036.76	39°35'34.7565"N	80°16'25.9805"W	18272.07	136.876	1.36	-1.34	0.26
26697.00	89.450	145.820	1087.81	6597.31	18114.79	13413.40	12542.48	1750472.36	398959.71	39°35'33.9995"N	80°16'25.3068"W	18363.91	136.922	0.53	-0.46	-0.27
26790.00	89.720	145.930	1088.48	6597.98	18207.78	13490.38	12594.65	1750524.53	398882.73	39°35'33.2431"N	80°16'24.6320"W	18455.78	136.967	0.31	0.29	0.12
26883.00	89.570	146.010	1089.06	6598.56	18300.78	13567.45	12646.70	1750576.57	398805.67	39°35'32.4858"N	80°16'23.9587"W	18547.64	137.012	0.18	-0.16	0.09
26977.00	90.370	146.160	1089.11	6598.61	18394.78	13645.46	12699.15	1750629.02	398727.67	39°35'31.7194"N	80°16'23.2802"W	18640.46	137.057	0.87	0.85	0.16
27070.00	90.150	145.770	1088.69	6598.19	18487.77	13722.53	12751.20	1750681.07	398650.60	39°35'30.9622"N	80°16'22.6068"W	18732.35	137.101	0.48	-0.24	-0.42

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Actual Wellpath Report

Miracle Run 14H AWP Proj: 29863'

Page 13 of 16

30 of 36



REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 14H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 14H AWB
Slot	Slot #14		

WELLPATH DATA (361 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]
27163.00	89.110	145.400	8089.29	6598.79	18580.76	13799.25	12803.76	1750733.62	398573.89	39°35'30.2085"N	80°16'21.9270"W	18824.33	137.143	1.19	-1.12	-0.40
27257.00	88.430	145.260	8091.31	6600.81	18674.72	13876.54	12857.22	1750787.08	398496.60	39°35'29.4492"N	80°16'21.2357"W	18917.36	137.184	0.74	-0.72	-0.15
27349.00	87.880	146.100	8094.27	6603.77	18766.67	13952.48	12909.06	1750838.92	398420.66	39°35'28.7031"N	80°16'20.5651"W	19008.30	137.225	1.09	-0.60	0.91
27442.00	88.120	145.960	8097.51	6607.01	18859.61	14029.56	12960.99	1750890.85	398343.59	39°35'27.9457"N	80°16'19.8933"W	19100.16	137.267	0.30	0.26	-0.15
27535.00	88.590	145.890	8100.18	6609.68	18952.57	14106.56	13013.08	1750942.93	398266.59	39°35'27.1892"N	80°16'19.2196"W	19192.06	137.309	0.51	0.51	-0.08
27628.00	88.430	145.330	8102.60	6612.10	19045.53	14183.28	13065.59	1750995.44	398189.88	39°35'26.4354"N	80°16'18.5404"W	19284.06	137.349	0.63	-0.17	-0.60
27720.00	87.750	145.850	8105.67	6615.17	19137.47	14259.14	13117.55	1751047.40	398114.02	39°35'25.6902"N	80°16'17.8684"W	19375.06	137.388	0.93	-0.74	0.57
27813.00	87.720	145.920	8109.34	6618.84	19230.39	14336.08	13169.67	1751099.51	398037.09	39°35'24.9343"N	80°16'17.1942"W	19466.98	137.428	0.08	-0.03	0.08
27907.00	87.780	145.930	8113.03	6622.53	19324.32	14413.88	13222.29	1751152.13	397959.30	39°35'24.1698"N	80°16'16.5135"W	19559.88	137.469	0.06	0.06	0.01
27999.00	87.450	146.180	8116.86	6626.36	19416.23	14490.13	13273.62	1751203.46	397883.05	39°35'23.4206"N	80°16'15.8495"W	19650.77	137.509	0.45	-0.36	0.27
28092.00	87.510	146.010	8120.95	6630.45	19509.14	14567.24	13325.45	1751255.28	397805.94	39°35'22.6629"N	80°16'15.1791"W	19742.65	137.549	0.19	0.06	-0.18
28185.00	86.620	145.450	8125.71	6635.21	19602.01	14643.99	13377.75	1751307.58	397729.19	39°35'21.9088"N	80°16'14.5027"W	19834.58	137.587	1.13	-0.96	-0.60
28279.00	86.960	146.150	8130.98	6640.48	19695.86	14721.62	13430.50	1751360.33	397651.57	39°35'21.1462"N	80°16'13.8203"W	19927.48	137.626	0.83	0.36	0.74
28373.00	87.510	146.070	8135.51	6645.01	19789.75	14799.56	13482.85	1751412.68	397573.64	39°35'20.3804"N	80°16'13.1431"W	20020.34	137.666	0.59	0.59	-0.09
28466.00	87.540	145.940	8139.53	6649.03	19882.66	14876.59	13534.80	1751464.62	397496.61	39°35'19.6235"N	80°16'12.4711"W	20112.28	137.704	0.14	0.03	-0.14
28560.00	88.620	145.950	8142.68	6652.18	19976.61	14954.42	13587.41	1751517.23	397418.78	39°35'18.8587"N	80°16'11.7906"W	20205.26	137.742	1.15	1.15	0.01
28654.00	88.120	145.890	8145.35	6654.85	20070.56	15032.25	13640.06	1751569.88	397340.96	39°35'18.0941"N	80°16'11.1096"W	20298.27	137.780	0.54	-0.53	-0.06
28748.00	88.250	146.310	8148.33	6657.83	20164.52	15110.23	13692.46	1751622.27	397262.99	39°35'17.3279"N	80°16'10.4318"W	20391.24	137.818	0.47	0.14	0.45
28841.00	88.310	146.970	8151.12	6660.62	20257.47	15187.87	13743.58	1751673.39	397185.35	39°35'16.5649"N	80°16'9.7704"W	20483.10	137.858	0.71	0.06	0.71
28935.00	88.060	146.840	8154.10	6663.60	20351.42	15266.58	13794.88	1751724.69	397106.64	39°35'15.7914"N	80°16'9.1065"W	20575.89	137.899	0.30	-0.27	-0.14
29029.00	87.570	146.780	8157.68	6667.18	20445.35	15345.19	13846.30	1751776.10	397028.04	39°35'15.0189"N	80°16'8.4411"W	20668.69	137.939	0.53	-0.52	-0.06
29123.00	88.000	147.020	8161.31	6670.81	20539.27	15423.88	13897.60	1751827.39	396949.36	39°35'14.2456"N	80°16'7.7774"W	20761.48	137.980	0.52	0.46	0.26
29217.00	87.320	146.780	8165.15	6674.65	20633.19	15502.56	13948.89	1751878.68	396870.68	39°35'13.4723"N	80°16'7.1137"W	20854.27	138.020	0.77	-0.72	-0.26
29309.00	87.290	147.070	8169.48	6678.98	20725.09	15579.56	13999.04	1751928.83	396793.68	39°35'12.7155"N	80°16'6.4647"W	20945.07	138.059	0.32	-0.03	0.32
29402.00	86.950	146.850	8174.15	6683.65	20817.96	15657.42	14049.68	1751979.47	396715.82	39°35'11.9503"N	80°16'5.8093"W	21036.84	138.098	0.44	-0.37	-0.24
29494.00	87.200	147.070	8178.84	6688.34	20909.84	15734.45	14099.78	1752029.56	396638.81	39°35'11.1934"N	80°16'5.1611"W	21127.62	138.136	0.36	0.27	0.24
29588.00	87.230	146.990	8183.41	6692.91	21003.72	15813.22	14150.87	1752080.65	396560.04	39°35'10.4193"N	80°16'4.4999"W	21220.39	138.175	0.09	0.03	-0.09
29680.00	87.260	146.890	8187.83	6697.33	21095.61	15890.23	14201.00	1752130.78	396483.03	39°35'9.6624"N	80°16'3.8512"W	21311.21	138.213	0.11	0.03	-0.11
29773.00	87.260	147.190	8192.28	6701.78	21188.50	15968.17	14251.54	1752181.32	396405.09	39°35'8.8964"N	80°16'3.1972"W	21403.01	138.251	0.32	0.00	0.32
29838.00	87.230	147.210	8195.40	6704.90	21253.42	16022.75	14286.74	1752216.48	396350.52	39°35'8.3600"N	80°16'2.7420"W	21467.15	138.278	0.06	-0.05	0.03

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Actual Wellpath Report

Miracle Run 14H AWP Proj: 29863'

Page 14 of 16



31 of 36

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 14H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 14H AWB
Slot	Slot #14		

WELLPATH DATA (361 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]
29863.00	87.230	147.210	8196.61	6706.11	21278.38	-16043.74	14300.23	1752230.01	396329.53	39°35'8.1537"N	80°16'2.5670"W	21491.82	138.288	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Miracle Run 14H AWB Ref Wellpath: Miracle Run 14H AWP Proj: 29863'

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	32.50	1485.00	1452.50	32.50	1484.95	0.00	0.00	-4.61	6.24
13.375in Casing Surface	32.50	1455.00	1422.50	32.50	1454.95	0.00	0.00	-4.37	6.20
12.25in Open Hole	1485.00	2818.00	1333.00	1484.95	2795.16	-4.61	6.24	105.47	192.90
9.625in Casing Intermediate	32.50	2788.00	2755.50	32.50	2766.30	0.00	0.00	100.78	186.19
8.75in Open Hole	2818.00	7169.00	4351.00	2795.16	6669.54	105.47	192.90	1213.68	1812.57
8.5in Open Hole	7169.00	29863.00	22694.00	6669.54	8196.61	1213.68	1812.57	-16043.74	14300.23
5.5in Casing Production	32.50	29833.00	29800.50	32.50	8195.16	0.00	0.00	-16018.55	14284.00

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WV Department of
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09/19/2025



Actual Wellpath Report

Miracle Run 14H AWP Proj: 29863'

Page 15 of 16

32 of 36



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Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 14H AWB
Slot	Slot #14		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Miracle Run 14H BHL Rev-2	8139.50	-16050.21	14292.28	1752222.05	396323.07	39°35'8.0891"N	80°16'2.6679"W	point
Miracle Run 14H LP Rev-2	8139.50	1090.12	2892.80	1740823.27	413462.34	39°37'56.4922"N	80°18'30.2348"W	point
Moved 460' along the VS of the lateral.								
Miracle Run Hardline #3 03.07.2024	9800.00	3014.07	-384.04	1737546.63	415386.17	39°38'15.2122"N	80°19'12.3400"W	polygon
2D Polygon: dimensions not calculated								

WELLPATH COMPOSITION - Ref Wellbore: Miracle Run 14H AWB						Ref Wellpath: Miracle Run 14H AWP Proj: 29863'	
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment		Wellbore	Survey Date	
32.50	1448.00	BH Generic gyro - northseeking (Standard)	01 17.5" Javins Gyro [Northseeking+Standard] (73' - 1448')		Miracle Run 14H AWB	3/10/2024	
1448.00	2707.01	OWSG MWD rev2 + HRGM	02 12.5" SDI MWD [OWSG MWD+HDGM] (1448' (1518' - 2707')		Miracle Run 14H AWB	3/10/2024	
2707.01	7092.00	OWSG MWD rev2 + HRGM	03 8.75" SDI MWD [OWSG MWD+HRGM] (2707' (2897' - 7092')		Miracle Run 14H AWB	3/10/2024	
7092.00	29863.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 8.5" BH ATK Curve [HDGM+Short Spacing] (7092' (7224' - 29838')		Miracle Run 14H AWB	3/10/2024	

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Actual Wellpath Report

Miracle Run 14H AWP Proj: 29863'

Page 16 of 16



33 of 36

REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 14H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 14H AWB
Slot	Slot #14		

COMMENTS

Wellpath general comments

API: 47061019260000

BH Job #: 112148355

Rig: Nabors X08

Duration: 03/13/2024 - 03/19/2024

01_17.5" Javins Gyro [Northseeking+Standard] (73' - 1448')

02_12.5" SDI MWD [OWSG MWD+HDGM] (1448')(1518' - 2707')

03_8.75" SDI MWD [OWSG MWD+HRGM] (2707')(2897' - 7092')

04_8.5" BH ATK Curve [HDGM+Short Spacing] (7092')(7224' - 29838')

Final Survey MD @ 29838'

Projected MD @ TD: 29863'

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