



NORTHEAST NATURAL ENERGY, LLC

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

Slot: Slot #10
Well: Miracle Run 10H
Wellbore: Miracle Run 10H PWB



Plot reference wellpath is Miracle Run 13H Rev-B.0	Grid System: NAD83 / Lambert West Virginia SP, northern Zone (4703), US feet
True vertical depths are referenced to Nabors X08 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to Nabors X08 (RKB)	Scale: True distance
Nabors X08 (RKB) to Mean Sea Level: 1400.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #10): -1458 feet	Depths are in feet
Other wellpath MDs are referenced to each path's offset MD datum	Created by: edward on 2024-04-02; Database: WA_MPL_EASTERNUS_Delta

BH AT Curve <8-1/2"> (7128')(7221'-30723') : 6888.47ft TVD, 1165.48ft N, 1020.46ft E

SDI MWD <8-3/4"> (2673.01')(2799'-7128') : 2798.58ft TVD, 33.83ft S, 6.01ft E
Javins Gyro <12-1/4"> (1423')(1473'-2673.01') : 1472.65ft TVD, 23.90ft S, 10.54ft E
Javins Gyro <17-1/2"> (73'-1423') : 73.00ft TVD, 0.02ft S, 0.07ft E

Slot #10

Location Information

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Miracle Run Pad	1737889.810	412328.340	39°37'45.0221"N	80°19'7.5970"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot #10	29.30	27.23	1737917.040	412357.640
Nabors X08 (RKB) to Ground level (At Slot: Slot #10)				32.5ft
Mean Sea Level to Ground level (At Slot: Slot #10)				-1458ft
Nabors X08 (RKB) to Mean Sea Level				1490.5ft

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	7128.00	21.610	41.180	6802.07	1139.50	997.91	1.73	-398.11
Projection	7205.00	21.610	41.180	6873.66	1160.84	1016.58	0.00	-403.54
Start Flat Turn	7255.00	21.610	41.180	6920.14	1174.70	1028.70	0.00	-408.37
EOT/Start Build+Turn	7355.00	21.610	52.041	7013.11	1199.96	1055.43	4.00	-414.60
Start Tangent	7852.16	29.710	95.325	7464.67	1245.30	1252.26	4.00	-343.34
Curve KOP	8110.26	29.710	95.325	7688.83	1233.42	1379.62	0.00	-262.91
Landing Pt.	9008.33	90.000	146.373	8139.50	777.51	1923.02	8.00	417.64
BHL	30758.33	90.000	146.373	8139.50	-17332.94	13967.70	0.00	22167.64

Javins Gyro <17-1/2"> (73'-1423') : 0.20° Inc, 73.00ft MD, 73.00ft TVD, 0.06ft VS

Well Data

Slot	Well	Wellbore	Wellpath
Slot #10	Miracle Run 10H	Miracle Run 10H AWB	Miracle Run 10H AWP Proj. 30768'
Slot #10	Miracle Run 10H	Miracle Run 10H PWB	Miracle Run 10H Rev-B.0

Javins Gyro <12-1/4"> (1423')(1473'-2673.01') : 1.14° Inc, 1473.00ft MD, 1472.65ft TVD, 25.73ft VS

SDI MWD <8-3/4"> (2673.01')(2799'-7128') : 0.40° Inc, 2799.00ft MD, 2798.58ft TVD, 31.49ft VS



User specified (HDGM) Dip: 66.25° Field: 51658 nT
Magnetic North is 8.89 degrees West of True North (at 3/21/2024)
Grid North is 0.52 degrees West of True North
To correct azimuth from True to Grid add 0.52 degrees
To correct azimuth from Magnetic to Grid subtract 8.37 degrees

BH AT Curve <8-1/2"> (7128')(7221'-30723') : 21.81° Inc, 7221.00ft MD, 6888.47ft TVD, -405.25ft VS

Curve KOP @ 8068' MD : 30.02° Inc, 8068.00ft MD, 7652.66ft TVD, -269.49ft VS

Landing Pt. @ 9195' MD : 89.66° Inc, 9195.00ft MD, 8168.21ft TVD, 604.26ft VS

Final Survey @ 30723' MD : 8174.79ft TVD, 17285.23ft S, 13957.38ft E
Projected MD at TD: 30768' : 8174.89ft TVD, 17322.34ft S, 13982.83ft E

Final Survey @ 30723' MD : 89.88° Inc, 30723.00ft MD, 8174.79ft TVD, 22122.20ft VS
Projected MD at TD: 30768' : 89.88° Inc, 30768.00ft MD, 8174.89ft TVD, 22167.20ft VS

Vertical Section (ft)
Azimuth 146.37° with reference 0.00 N, 0.00 E

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Actual Wellpath Report

Miracle Run 10H AWP Proj: 30768'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC
Field	Monongalia
Facility	Miracle Run Pad
Slot	Slot #10

Well	Miracle Run 10H
API	47-061-01925-0000
Wellbore	Miracle Run 10H AWB

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet
North Reference	Grid
Scale	0.999941
Convergence at slot	0.52° West

Software System	WellArchitect® 6.0
User	Edsaryar
Report Generated	4/2/2024 at 2:14:34 PM
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	29.30	27.23	1737917.04	412357.64	39°37'45.3141"N	80°19'7.2524"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 #10)	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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Miracle Run 10H AWP Proj: 30768'

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Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 10H
Field	Monongalia	API	47-061-01925-0000
Facility	Miracle Run Pad	Wellbore	Miracle Run 10H AWB
Slot	Slot #10		

WELLPATH DATA (356 stations) † = interpolated, ‡ = extrapolated station

MD (ft)	Inclination (°)	Azimuth (°)	TVD (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	110.000	0.00	0.00	0.00	0.00	1737917.04	412357.64	39°37'45.3141"N	80°19'7.2524"W	0.00	0.000	0.00	0.00	0.00
32.50	0.000	110.000	32.50	0.00	0.00	0.00	1737917.04	412357.64	39°37'45.3141"N	80°19'7.2524"W	0.00	0.000	0.00	0.00	0.00
73.00	0.200	110.000	73.00	0.06	-0.02	0.07	1737917.11	412357.62	39°37'45.3139"N	80°19'7.2516"W	0.07	110.000	0.49	0.49	0.00
123.00	0.370	90.770	123.00	0.22	-0.06	0.31	1737917.35	412357.58	39°37'45.3136"N	80°19'7.2484"W	0.31	100.279	0.39	0.34	-38.46
173.00	0.630	116.880	173.00	0.55	-0.18	0.72	1737917.76	412357.46	39°37'45.3124"N	80°19'7.2432"W	0.74	104.301	0.68	0.52	52.22
223.00	1.160	127.180	222.99	1.27	-0.61	1.36	1737918.40	412357.03	39°37'45.3082"N	80°19'7.2349"W	1.50	114.178	1.10	1.06	20.60
273.00	1.320	128.380	272.98	2.29	-1.28	2.22	1737919.26	412356.36	39°37'45.3017"N	80°19'7.2239"W	2.56	119.898	0.32	0.32	2.40
323.00	1.260	130.630	322.97	3.37	-1.99	3.09	1737920.13	412355.65	39°37'45.2947"N	80°19'7.2127"W	3.67	122.820	0.16	-0.12	4.50
373.00	1.210	131.640	372.96	4.41	-2.70	3.90	1737920.94	412354.94	39°37'45.2878"N	80°19'7.2023"W	4.74	124.700	0.11	-0.10	2.02
423.00	1.450	129.180	422.94	5.52	-3.45	4.78	1737921.82	412354.19	39°37'45.2805"N	80°19'7.1909"W	5.90	125.799	0.49	0.48	-4.92
473.00	1.370	131.610	472.93	6.71	-4.25	5.72	1737922.76	412353.39	39°37'45.2727"N	80°19'7.1788"W	7.13	126.586	0.20	-0.16	4.86
523.00	1.520	130.780	522.91	7.92	-5.08	6.67	1737923.71	412352.56	39°37'45.2645"N	80°19'7.1666"W	8.38	127.275	0.30	0.30	-1.66
573.00	1.750	134.860	572.89	9.31	-6.05	7.71	1737924.75	412351.59	39°37'45.2550"N	80°19'7.1531"W	9.80	128.101	0.52	0.46	8.16
623.00	1.720	132.820	622.87	10.79	-7.10	8.81	1737925.85	412350.54	39°37'45.2448"N	80°19'7.1390"W	11.31	128.869	0.14	-0.06	-4.08
673.00	1.800	136.590	672.84	12.29	-8.18	9.90	1737926.94	412349.46	39°37'45.2342"N	80°19'7.1250"W	12.84	129.571	0.28	0.16	7.54
723.00	1.610	141.660	722.82	13.76	-9.30	10.87	1737927.91	412348.34	39°37'45.2232"N	80°19'7.1124"W	14.31	130.544	0.48	-0.38	10.14
773.00	1.580	147.410	772.80	15.15	-10.43	11.68	1737928.72	412347.21	39°37'45.2121"N	80°19'7.1019"W	15.66	131.771	0.33	-0.06	11.50
823.00	1.510	153.100	822.78	16.50	-11.60	12.35	1737929.39	412346.04	39°37'45.2006"N	80°19'7.0933"W	16.94	133.210	0.34	-0.14	11.38
873.00	1.370	158.800	872.77	17.73	-12.74	12.86	1737929.90	412344.90	39°37'45.1893"N	80°19'7.0865"W	18.11	134.737	0.40	-0.28	11.40
923.00	1.180	167.240	922.76	18.80	-13.80	13.19	1737930.23	412343.84	39°37'45.1789"N	80°19'7.0822"W	19.09	136.298	0.53	-0.38	16.88
973.00	1.080	173.800	972.75	19.70	-14.77	13.36	1737930.40	412342.87	39°37'45.1693"N	80°19'7.0800"W	19.92	137.885	0.33	-0.20	13.12
1023.00	1.120	182.130	1022.74	20.51	-15.73	13.39	1737930.43	412341.91	39°37'45.1599"N	80°19'7.0795"W	20.66	139.598	0.33	0.08	16.66
1073.00	1.100	188.920	1072.73	21.26	-16.69	13.30	1737930.34	412340.95	39°37'45.1503"N	80°19'7.0805"W	21.34	141.462	0.27	-0.04	13.58
1123.00	1.250	204.530	1122.72	21.91	-17.66	13.00	1737930.04	412339.98	39°37'45.1407"N	80°19'7.0843"W	21.93	143.657	0.70	0.30	31.22
1173.00	1.160	202.580	1172.71	22.47	-18.63	12.58	1737929.61	412339.01	39°37'45.1312"N	80°19'7.0895"W	22.47	145.977	0.20	-0.18	-3.90
1223.00	1.070	200.640	1222.70	23.03	-19.53	12.22	1737929.26	412338.11	39°37'45.1222"N	80°19'7.0940"W	23.04	147.976	0.20	-0.18	-3.88
1273.00	1.030	200.800	1272.69	23.56	-20.39	11.89	1737928.93	412337.25	39°37'45.1137"N	80°19'7.0981"W	23.60	149.746	0.08	-0.08	0.32
1323.00	1.100	196.350	1322.68	24.13	-21.27	11.60	1737928.64	412336.37	39°37'45.1050"N	80°19'7.1017"W	24.23	151.398	0.22	0.14	-8.90
1373.00	0.990	201.030	1372.67	24.69	-22.13	11.31	1737928.35	412335.51	39°37'45.0964"N	80°19'7.1053"W	24.85	152.938	0.28	-0.22	9.36
1423.00	1.140	204.670	1422.66	25.20	-22.99	10.94	1737927.98	412334.65	39°37'45.0879"N	80°19'7.1099"W	25.46	154.541	0.33	0.30	7.28

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 10H
Field	Monongalia	API	47-061-01925-0000
Facility	Miracle Run Pad	Wellbore	Miracle Run 10H AWB
Slot	Slot #10		

WELLPATH DATA (356 stations)																		
MD (ft)	Inclination (°)	Azimuth (°)	FVD (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)			
1473.00	1.140	203.490	1472.65	25.73	-23.90	10.54	1737927.58	412333.75	39°37'45.0789"N	80°19'7.1149"W	26.12	156.201	0.05	0.00	-2.36			
1523.00	1.210	210.760	1522.64	26.23	-24.81	10.07	1737927.11	412332.84	39°37'45.0699"N	80°19'7.1208"W	26.77	157.904	0.33	0.14	14.58			
1573.00	1.070	203.260	1572.63	26.71	-25.69	9.62	1737926.66	412331.95	39°37'45.0611"N	80°19'7.1265"W	27.43	159.478	0.41	-0.28	-15.06			
1623.00	0.970	207.090	1622.62	27.18	-26.49	9.24	1737926.28	412331.15	39°37'45.0531"N	80°19'7.1313"W	28.06	160.776	0.24	-0.20	7.68			
1673.00	0.970	192.560	1672.62	27.68	-27.28	8.95	1737925.99	412330.36	39°37'45.0453"N	80°19'7.1348"W	28.72	161.832	0.49	0.00	-28.86			
1723.00	0.770	207.120	1722.61	28.13	-28.00	8.71	1737925.75	412329.65	39°37'45.0382"N	80°19'7.1379"W	29.32	162.723	0.59	-0.40	28.92			
1773.00	0.740	207.010	1772.61	28.46	-28.58	8.41	1737925.45	412329.06	39°37'45.0324"N	80°19'7.1416"W	29.79	163.608	0.06	-0.06	-0.22			
1823.00	0.760	206.660	1822.60	28.78	-29.17	8.11	1737925.15	412328.48	39°37'45.0266"N	80°19'7.1453"W	30.27	164.457	0.04	0.04	-0.70			
1873.00	0.550	199.720	1872.60	29.09	-29.69	7.88	1737924.92	412327.95	39°37'45.0214"N	80°19'7.1482"W	30.72	165.131	0.45	-0.42	-13.88			
1923.00	0.540	206.420	1922.60	29.35	-30.13	7.70	1737924.74	412327.52	39°37'45.0171"N	80°19'7.1505"W	31.09	165.668	0.13	-0.02	13.40			
1973.00	0.550	193.300	1972.60	29.63	-30.57	7.54	1737924.58	412327.07	39°37'45.0127"N	80°19'7.1525"W	31.49	166.151	0.25	0.02	-26.24			
2023.00	0.430	199.950	2022.59	29.90	-30.98	7.42	1737924.46	412326.66	39°37'45.0086"N	80°19'7.1540"W	31.86	166.535	0.27	-0.24	13.30			
2073.00	0.650	197.150	2072.59	30.19	-31.43	7.27	1737924.31	412326.21	39°37'45.0042"N	80°19'7.1558"W	32.26	166.975	0.44	0.44	-5.60			
2123.00	0.390	209.250	2122.59	30.45	-31.85	7.10	1737924.14	412325.79	39°37'45.0000"N	80°19'7.1579"W	32.63	167.427	0.56	-0.52	24.20			
2173.00	0.410	198.330	2172.59	30.64	-32.17	6.96	1737924.00	412325.48	39°37'44.9969"N	80°19'7.1597"W	32.91	167.784	0.16	0.04	-21.84			
2223.00	0.350	213.040	2222.59	30.81	-32.46	6.82	1737923.86	412325.18	39°37'44.9939"N	80°19'7.1614"W	33.17	168.129	0.23	-0.12	29.42			
2273.00	0.330	214.940	2272.59	30.92	-32.71	6.66	1737923.70	412324.93	39°37'44.9915"N	80°19'7.1635"W	33.38	168.494	0.05	-0.04	3.80			
2323.00	0.200	223.520	2322.59	30.99	-32.89	6.52	1737923.56	412324.75	39°37'44.9897"N	80°19'7.1653"W	33.53	168.794	0.27	-0.26	17.16			
2373.00	0.220	235.080	2372.59	31.02	-33.01	6.38	1737923.42	412324.63	39°37'44.9885"N	80°19'7.1671"W	33.62	169.066	0.09	0.04	23.12			
2423.00	0.230	211.670	2422.58	31.06	-33.15	6.25	1737923.29	412324.49	39°37'44.9871"N	80°19'7.1687"W	33.73	169.330	0.18	0.02	-46.82			
2473.00	0.230	231.060	2472.58	31.11	-33.30	6.11	1737923.15	412324.34	39°37'44.9856"N	80°19'7.1704"W	33.85	169.594	0.15	0.00	38.78			
2523.01	0.250	218.320	2522.59	31.15	-33.45	5.97	1737923.01	412324.20	39°37'44.9841"N	80°19'7.1722"W	33.97	169.881	0.11	0.04	-25.47			
2573.01	0.140	243.630	2572.59	31.18	-33.56	5.85	1737922.89	412324.08	39°37'44.9830"N	80°19'7.1738"W	34.06	170.117	0.27	-0.22	50.62			
2623.01	0.160	232.930	2622.59	31.18	-33.63	5.74	1737922.78	412324.01	39°37'44.9823"N	80°19'7.1752"W	34.11	170.320	0.07	0.04	-21.40			
2673.01	0.050	280.700	2672.59	31.17	-33.67	5.66	1737922.70	412323.98	39°37'44.9819"N	80°19'7.1762"W	34.14	170.458	0.26	-0.22	95.54			
2799.00	0.400	112.910	2798.58	31.49	-33.83	6.01	1737923.05	412323.81	39°37'44.9804"N	80°19'7.1717"W	34.36	169.925	0.36	0.28	-133.18			
2893.00	1.920	50.770	2892.56	31.61	-32.96	7.53	1737924.57	412324.68	39°37'44.9891"N	80°19'7.1523"W	33.81	167.127	1.88	1.62	-66.11			
2986.00	5.670	56.460	2985.34	31.47	-29.43	12.57	1737929.61	412328.21	39°37'45.0244"N	80°19'7.0883"W	32.01	156.874	4.05	4.03	6.12			
3080.00	6.680	46.940	3078.80	30.58	-23.14	20.44	1737937.47	412334.51	39°37'45.0873"N	80°19'6.9885"W	30.87	138.546	1.53	1.07	-10.13			
3174.00	6.840	41.150	3172.15	28.22	-15.19	28.11	1737945.15	412342.45	39°37'45.1666"N	80°19'6.8913"W	31.95	118.379	0.74	0.17	-6.16			

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Miracle Run 10H AWP Proj: 30768'

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Field	Monongalia	API	47-061-01925-0000
Facility	Miracle Run Pad	Wellbore	Miracle Run 10H AWB
Slot	Slot #10		

WELLPATH DATA (356 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (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)
3268.00	7.650	40.820	3265.39	25.07	-6.24	35.89	1737952.92	412351.40	39°37'45.2557"N	80°19'6.7930"W	36.43	99.860	0.86	0.86	-0.35
3361.00	9.500	40.090	3357.35	21.26	4.32	44.88	1737961.91	412361.96	39°37'45.3609"N	80°19'6.6794"W	45.08	84.502	1.99	1.99	-0.78
3454.00	11.920	41.630	3448.72	16.66	17.37	56.20	1737973.24	412375.01	39°37'45.4909"N	80°19'6.5362"W	58.82	72.824	2.62	2.60	1.66
3548.00	14.030	39.540	3540.32	10.89	33.42	69.91	1737986.94	412391.05	39°37'45.6507"N	80°19'6.3629"W	77.48	64.451	2.30	2.24	-2.22
3642.00	15.220	33.990	3631.28	2.89	52.44	84.06	1738001.09	412410.07	39°37'45.8399"N	80°19'6.1842"W	99.07	58.044	1.95	1.27	-5.90
3736.00	15.360	27.010	3721.96	-7.91	73.76	96.61	1738013.65	412431.39	39°37'46.0518"N	80°19'6.0263"W	121.55	52.640	1.96	0.15	-7.43
3829.00	15.500	26.720	3811.61	-20.09	95.83	107.79	1738024.83	412453.47	39°37'46.2709"N	80°19'5.8860"W	144.23	48.361	0.17	0.15	-0.31
3923.00	16.150	31.420	3902.05	-31.82	118.21	120.26	1738037.29	412475.84	39°37'46.4932"N	80°19'5.7293"W	168.63	45.492	1.53	0.69	5.00
4017.00	18.770	40.960	3991.73	-41.36	140.79	136.99	1738054.02	412498.43	39°37'46.7179"N	80°19'5.5180"W	196.44	44.216	4.12	2.79	10.15
4111.00	20.060	45.260	4080.38	-48.49	163.56	158.36	1738075.39	412521.19	39°37'46.9448"N	80°19'5.2476"W	227.66	44.073	2.05	1.37	4.57
4205.00	23.030	52.800	4167.82	-52.74	186.04	184.47	1738101.49	412543.67	39°37'47.1693"N	80°19'4.9165"W	261.99	44.757	4.31	3.16	8.02
4298.00	26.260	53.780	4252.34	-54.80	209.20	215.56	1738132.59	412566.83	39°37'47.4010"N	80°19'4.5218"W	300.39	45.858	3.50	3.47	1.05
4392.00	29.470	53.420	4335.43	-56.93	235.27	250.92	1738167.94	412592.90	39°37'47.6618"N	80°19'4.0730"W	343.97	46.843	3.42	3.41	-0.38
4486.00	30.510	49.280	4416.85	-61.07	264.62	287.57	1738204.60	412622.25	39°37'47.9552"N	80°19'3.6079"W	390.80	47.380	2.46	1.11	-4.40
4580.00	29.930	45.760	4498.08	-68.33	296.55	322.46	1738239.48	412654.18	39°37'48.2738"N	80°19'3.1658"W	438.09	47.397	1.98	-0.62	-3.74
4675.00	28.210	45.490	4581.11	-76.93	328.83	355.45	1738272.47	412686.45	39°37'48.5958"N	80°19'2.7478"W	484.23	47.228	1.82	-1.81	-0.28
4769.00	26.830	42.320	4664.48	-86.28	360.09	385.58	1738302.60	412717.71	39°37'48.9075"N	80°19'2.3664"W	527.58	46.958	2.14	-1.47	-3.37
4863.00	25.390	40.720	4748.89	-96.87	391.05	413.01	1738330.03	412748.67	39°37'49.2159"N	80°19'2.0194"W	568.77	46.564	1.71	-1.53	-1.70
4959.00	24.460	40.970	4835.94	-107.70	421.66	439.47	1738356.49	412779.27	39°37'49.5207"N	80°19'1.6849"W	609.04	46.185	0.97	-0.97	0.26
5053.00	22.240	36.040	4922.25	-119.05	450.75	482.70	1738379.72	412808.36	39°37'49.8103"N	80°19'1.3913"W	645.96	45.750	3.14	-2.35	-5.24
5147.00	22.350	34.070	5009.22	-132.01	479.93	483.18	1738400.19	412837.55	39°37'50.1006"N	80°19'1.1330"W	681.03	45.193	0.80	0.12	-2.10
5241.00	22.560	37.170	5096.10	-144.72	509.11	504.09	1738421.10	412866.72	39°37'50.3908"N	80°19'0.8692"W	716.45	44.716	1.28	0.22	3.30
5335.00	21.980	38.770	5183.09	-155.97	537.19	526.00	1738443.01	412894.80	39°37'50.6703"N	80°19'0.5924"W	751.83	44.397	0.89	-0.62	1.70
5429.00	22.550	37.940	5270.08	-166.99	565.12	548.10	1738465.10	412922.73	39°37'50.9483"N	80°19'0.3132"W	787.26	44.124	0.69	0.61	-0.88
5523.00	23.730	40.180	5356.52	-177.96	593.79	571.38	1738488.39	412951.39	39°37'51.2337"N	80°19'0.0190"W	824.05	43.898	1.57	1.26	2.38
5617.00	24.310	38.510	5442.38	-189.17	623.38	595.64	1738512.64	412980.98	39°37'51.5283"N	80°18'59.7125"W	862.20	43.696	0.95	0.62	-1.78
5711.00	25.300	36.480	5527.70	-201.94	654.67	619.63	1738536.63	413012.27	39°37'51.8397"N	80°18'59.4095"W	901.41	43.425	1.39	1.05	-2.16
5805.00	24.770	37.550	5612.87	-215.12	686.44	643.57	1738560.57	413044.03	39°37'52.1557"N	80°18'59.1072"W	940.94	43.154	0.74	-0.56	1.14
5900.00	26.030	39.770	5698.69	-227.50	718.24	669.03	1738586.03	413075.83	39°37'52.4723"N	80°18'58.7854"W	981.57	42.969	1.66	1.33	2.34
5994.00	29.620	39.080	5781.81	-240.30	752.14	696.88	1738613.88	413109.73	39°37'52.8098"N	80°18'58.4334"W	1025.35	42.816	3.83	3.82	-0.73

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Actual Wellpath Report

Miracle Run 10H AWP Proj: 30768'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 10H
Field	Monongalia	API	47-061-01925-0000
Facility	Miracle Run Pad	Wellbore	Miracle Run 10H AWB
Slot	Slot #10		

WELLPATH DATA (356 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [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]
6098.00	31.020	36.330	5862.95	-255.50	789.68	725.88	1738642.87	413147.28	39°37'53.1835"N	80°18'58.0672"W	1072.61	42.589	2.10	1.49	-2.93
6181.00	30.750	34.350	5942.77	-272.63	828.62	753.49	1738670.48	413186.21	39°37'53.5707"N	80°18'57.7188"W	1119.98	42.281	1.13	-0.29	-2.13
6275.00	29.140	35.970	6024.22	-289.62	866.99	780.49	1738697.49	413224.57	39°37'53.9523"N	80°18'57.3781"W	1166.55	41.995	1.92	-1.71	1.72
6377.00	27.120	39.180	6114.17	-305.15	905.11	809.77	1738726.76	413262.70	39°37'54.3317"N	80°18'57.0084"W	1214.48	41.818	2.47	-1.98	3.15
6470.00	26.210	41.500	6197.28	-316.69	936.93	836.77	1738753.76	413294.51	39°37'54.6486"N	80°18'56.6669"W	1256.19	41.768	1.49	-0.98	2.49
6564.00	23.660	40.870	6282.51	-327.05	966.74	862.88	1738779.86	413324.32	39°37'54.9456"N	80°18'56.3368"W	1295.82	41.751	2.73	-2.71	-0.67
6657.00	23.420	38.640	6367.77	-337.67	995.29	886.63	1738803.61	413352.87	39°37'55.2298"N	80°18'56.0366"W	1332.93	41.695	0.99	-0.26	-2.40
6752.00	22.660	35.810	6455.20	-349.85	1024.88	909.12	1738826.11	413382.45	39°37'55.5242"N	80°18'55.7525"W	1369.99	41.575	1.41	-0.80	-2.98
6846.00	22.560	35.200	6541.97	-362.72	1054.30	930.11	1738847.10	413411.87	39°37'55.8169"N	80°18'55.4876"W	1405.93	41.419	0.27	-0.11	-0.65
6940.00	22.890	36.820	6628.68	-375.35	1083.67	951.46	1738868.45	413441.24	39°37'56.1090"N	80°18'55.2182"W	1442.09	41.283	0.75	0.35	1.72
7034.00	23.220	40.540	6715.17	-386.52	1112.38	974.47	1738891.45	413469.96	39°37'56.3949"N	80°18'54.9275"W	1478.84	41.219	1.59	0.35	3.96
7128.00	21.610	41.180	6802.07	-396.11	1139.50	997.91	1738914.89	413497.07	39°37'56.6649"N	80°18'54.6310"W	1514.69	41.210	1.73	-1.71	0.68
7221.00	21.810	40.740	6888.47	-405.25	1165.48	1020.46	1738937.44	413523.04	39°37'56.9237"N	80°18'54.3458"W	1549.09	41.205	0.28	0.22	-0.47
7315.00	21.260	50.820	6975.94	-411.61	1189.48	1045.07	1738962.05	413547.05	39°37'57.1631"N	80°18'54.0340"W	1583.37	41.302	3.97	-0.59	10.72
7409.00	20.100	64.750	7063.94	-410.90	1207.15	1072.91	1738989.89	413564.71	39°37'57.3402"N	80°18'53.6803"W	1615.04	41.631	5.36	-1.23	14.82
7503.00	21.840	75.170	7151.74	-402.91	1218.52	1104.44	1739021.41	413576.08	39°37'57.4554"N	80°18'53.2787"W	1644.56	42.188	4.37	1.85	11.09
7598.00	25.000	74.290	7238.90	-391.04	1228.48	1140.85	1739057.82	413586.04	39°37'57.5571"N	80°18'52.8144"W	1676.52	42.882	3.35	3.33	-0.93
7692.00	27.380	81.100	7323.26	-375.88	1237.21	1181.34	1739098.31	413594.77	39°37'57.6470"N	80°18'52.2979"W	1710.63	43.677	4.07	2.53	7.24
7786.00	28.260	90.870	7406.44	-354.22	1240.21	1224.97	1739141.94	413597.78	39°37'57.6806"N	80°18'51.7406"W	1743.18	44.646	4.94	0.94	10.39
7880.00	29.210	95.040	7488.87	-327.28	1237.86	1270.08	1739187.04	413595.42	39°37'57.6614"N	80°18'51.1639"W	1773.53	45.736	2.36	1.01	4.44
7974.00	29.180	95.110	7570.93	-298.61	1233.80	1315.75	1739232.71	413591.37	39°37'57.6254"N	80°18'50.5797"W	1803.74	46.841	0.05	-0.03	0.07
8068.00	30.020	95.300	7652.66	-269.49	1229.59	1361.99	1739278.94	413587.16	39°37'57.5879"N	80°18'49.9882"W	1834.91	47.925	0.90	0.89	0.20
8162.00	32.250	103.150	7733.15	-236.42	1221.71	1409.85	1739326.80	413579.27	39°37'57.5143"N	80°18'49.3756"W	1865.54	49.089	4.92	2.37	8.35
8256.00	39.530	110.430	7809.29	-193.85	1205.53	1462.40	1739379.35	413563.10	39°37'57.3591"N	80°18'48.7021"W	1895.24	50.499	8.97	7.74	7.74
8349.00	45.930	114.290	7877.58	-141.51	1181.43	1520.66	1739437.60	413539.00	39°37'57.1261"N	80°18'47.9547"W	1925.66	52.156	7.43	6.88	4.15
8442.00	49.700	118.890	7940.04	-81.70	1150.53	1582.20	1739499.14	413508.10	39°37'56.8263"N	80°18'47.1646"W	1956.29	53.976	5.46	4.05	4.95
8536.00	55.240	125.720	7997.32	-13.67	1110.61	1645.03	1739561.97	413468.18	39°37'56.4374"N	80°18'46.3570"W	1984.84	55.976	8.24	5.89	7.27
8630.00	61.450	130.340	8046.65	62.25	1061.27	1707.93	1739624.87	413418.85	39°37'55.9555"N	80°18'45.5473"W	2010.80	58.144	7.82	6.61	4.91
8724.00	67.340	134.600	8087.27	144.49	1004.02	1770.36	1739687.29	413361.60	39°37'55.3953"N	80°18'44.7428"W	2035.25	60.441	7.48	6.27	4.53
8818.00	73.310	140.680	8118.93	231.90	938.63	1829.87	1739746.80	413296.21	39°37'54.7543"N	80°18'43.9746"W	2056.56	62.845	8.80	6.35	6.47

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Actual Wellpath Report

Miracle Run 10H AWP Proj: 30768'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 10H
Field	Monongalia	API	47-061-01925-0000
Facility	Miracle Run Pad	Wellbore	Miracle Run 10H AWP
Slot	Slot #10		

WELLPATH DATA (356 stations)

MD (ft)	Inclination [°]	Azimuth [°]	TVD (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]
8912.00	78.720	146.300	8141.65	322.93	865.34	1884.05	1739800.98	413222.93	39°37'54.0349"N	80°18'43.2737"W	2073.28	65.331	8.17	5.76	5.98
9007.00	83.400	146.220	8156.41	416.75	787.33	1936.16	1739853.09	413144.92	39°37'53.2686"N	80°18'42.5987"W	2090.12	67.871	4.93	4.93	-0.08
9101.00	86.270	147.190	8164.88	510.35	709.08	1987.55	1739904.47	413066.68	39°37'52.4999"N	80°18'41.9329"W	2110.25	70.365	3.22	3.05	1.03
9195.00	89.660	148.030	8168.21	604.26	629.77	2037.86	1739954.78	412987.37	39°37'51.7206"N	80°18'41.2807"W	2132.95	72.827	3.72	3.61	0.89
9289.00	90.770	147.120	8167.86	698.23	550.43	2088.26	1740005.18	412908.03	39°37'50.9410"N	80°18'40.6274"W	2159.59	75.234	1.53	1.18	-0.97
9383.00	91.600	147.380	8165.92	792.20	471.39	2139.10	1740056.01	412829.00	39°37'50.1644"N	80°18'39.9685"W	2190.43	77.573	0.93	0.88	0.28
9477.00	89.940	146.550	8164.65	886.18	392.59	2190.34	1740107.25	412750.21	39°37'49.3903"N	80°18'39.3046"W	2225.25	79.838	1.97	-1.77	-0.88
9570.00	89.820	144.160	8164.85	979.16	316.09	2243.21	1740160.11	412673.71	39°37'48.6389"N	80°18'38.6201"W	2265.37	81.979	2.57	-0.13	-2.57
9663.00	91.140	148.330	8164.07	1072.14	238.79	2294.87	1740211.77	412596.41	39°37'47.8796"N	80°18'37.9509"W	2307.26	84.060	4.70	1.42	4.48
9756.00	89.780	147.020	8163.32	1165.11	160.21	2344.59	1740261.49	412517.84	39°37'47.1075"N	80°18'37.3064"W	2350.06	86.091	2.03	-1.46	-1.41
9850.00	89.420	145.730	8163.98	1259.10	81.94	2396.64	1740313.54	412439.57	39°37'46.3386"N	80°18'36.6321"W	2398.04	88.042	1.42	-0.38	-1.37
9943.00	91.020	148.340	8163.62	1352.08	3.92	2447.24	1740364.13	412361.56	39°37'45.5721"N	80°18'35.9765"W	2447.24	89.908	3.29	1.72	2.81
10036.00	89.320	146.280	8163.34	1445.06	-74.34	2497.46	1740414.35	412283.30	39°37'44.8032"N	80°18'35.3256"W	2498.57	91.705	2.87	-1.83	-2.22
10130.00	89.940	147.090	8163.95	1539.06	-152.89	2549.09	1740465.98	412204.76	39°37'44.0315"N	80°18'34.6567"W	2553.67	93.432	1.09	0.66	0.86
10224.00	91.170	147.210	8163.04	1633.04	-231.85	2600.08	1740516.96	412125.80	39°37'43.2557"N	80°18'33.9960"W	2610.39	95.096	1.31	1.31	0.13
10318.00	89.170	143.120	8162.76	1727.00	-308.99	2653.76	1740570.63	412048.67	39°37'42.4982"N	80°18'33.3011"W	2671.69	96.641	4.84	-2.13	-4.35
10412.00	90.920	148.300	8162.69	1820.95	-386.62	2706.70	1740623.57	411971.04	39°37'41.7357"N	80°18'32.6156"W	2734.17	98.129	5.82	1.86	5.51
10505.00	90.740	145.630	8161.34	1913.93	-464.57	2757.38	1740674.26	411893.10	39°37'40.9698"N	80°18'31.9588"W	2796.25	99.564	2.88	-0.19	-2.87
10597.00	89.780	146.860	8160.92	2005.93	-541.06	2808.50	1740725.37	411816.61	39°37'40.2185"N	80°18'31.2968"W	2860.14	100.904	1.70	-1.04	1.34
10689.00	89.780	147.780	8161.28	2097.91	-618.49	2858.18	1740775.04	411739.18	39°37'39.4577"N	80°18'30.6530"W	2924.33	102.210	1.00	0.00	1.00
10782.00	89.510	144.210	8161.85	2190.89	-695.58	2910.18	1740827.04	411662.11	39°37'38.7005"N	80°18'29.9796"W	2992.15	103.442	3.85	-0.29	-3.84
10875.00	89.450	148.170	8162.70	2283.87	-772.83	2961.91	1740878.77	411584.86	39°37'37.9416"N	80°18'29.3095"W	3061.08	104.624	4.26	-0.06	4.26
10968.00	90.520	145.210	8162.72	2376.86	-850.54	3012.98	1740929.84	411507.15	39°37'37.1782"N	80°18'28.6480"W	3130.73	105.764	3.38	1.15	-3.18
11060.00	89.200	147.510	8162.95	2468.85	-927.13	3063.94	1740980.79	411430.57	39°37'36.4259"N	80°18'27.9879"W	3201.14	106.835	2.88	-1.43	2.50
11153.00	89.570	144.490	8163.94	2561.83	-1004.21	3115.94	1741032.79	411353.49	39°37'35.6687"N	80°18'27.3145"W	3273.76	107.863	3.27	0.40	-3.25
11246.00	89.140	147.990	8164.99	2654.81	-1081.51	3167.61	1741084.45	411276.19	39°37'34.9093"N	80°18'26.6453"W	3347.15	108.851	3.79	-0.46	3.76
11338.00	91.230	145.320	8164.70	2746.80	-1158.36	3218.17	1741135.01	411199.35	39°37'34.1544"N	80°18'25.9903"W	3420.29	109.796	3.69	2.27	-2.90
11431.00	86.210	147.210	8166.77	2839.74	-1235.65	3269.79	1741186.63	411122.07	39°37'33.3951"N	80°18'25.3218"W	3495.47	110.702	5.77	-5.40	2.03
11532.00	92.710	146.380	8167.72	2940.68	-1320.11	3325.07	1741241.90	411037.61	39°37'32.5654"N	80°18'24.6056"W	3577.53	111.654	6.49	6.44	-0.82
11616.00	87.600	143.510	8167.50	3024.61	-1388.84	3373.29	1741290.13	410968.89	39°37'31.8904"N	80°18'23.9815"W	3648.01	112.378	6.98	-6.08	-3.42

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Actual Wellpath Report

Miracle Run 10H AWP Proj: 30768'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 10H
Field	Monongalia	API	47-061-01925-0000
Facility	Miracle Run Pad	Wellbore	Miracle Run 10H AWB
Slot	Slot #10		

WELLPATH DATA (356 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [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]
11709.00	89.280	145.660	8170.04	3117.52	-1464.60	3427.16	1741343.99	410893.13	39°37'31.1465"N	80°18'23.2844"W	3726.99	113.139	2.92	1.78	2.31
11802.00	90.430	147.560	8170.30	3210.52	-1542.24	3478.34	1741395.16	410815.49	39°37'30.3837"N	80°18'22.6214"W	3804.91	113.912	2.40	1.26	2.04
11894.00	90.370	146.740	8169.65	3302.51	-1619.53	3528.24	1741445.06	410738.21	39°37'29.6244"N	80°18'21.9748"W	3882.18	114.656	0.89	-0.07	-0.89
11987.00	89.350	146.520	8169.88	3395.50	-1697.19	3579.39	1741496.21	410660.55	39°37'28.8614"N	80°18'21.3122"W	3961.38	115.368	1.12	-1.10	-0.24
12079.00	88.950	146.400	8171.25	3487.49	-1773.87	3630.22	1741547.04	410583.88	39°37'28.1081"N	80°18'20.6539"W	4040.43	116.042	0.45	-0.43	-0.13
12171.00	88.680	146.330	8173.15	3579.47	-1850.45	3681.17	1741597.98	410507.30	39°37'27.3558"N	80°18'19.9940"W	4120.09	116.688	0.30	-0.29	-0.08
12263.00	88.030	144.860	8175.79	3671.42	-1926.32	3733.13	1741649.94	410431.44	39°37'26.6106"N	80°18'19.3213"W	4200.83	117.294	1.75	-0.71	-1.60
12355.00	89.200	145.990	8178.01	3763.38	-2002.05	3785.32	1741702.13	410355.72	39°37'25.8669"N	80°18'18.6457"W	4282.15	117.874	1.77	1.27	1.23
12448.00	89.230	148.680	8179.29	3856.35	-2080.32	3835.50	1741752.31	410277.44	39°37'25.0977"N	80°18'17.9954"W	4363.35	118.475	2.89	0.03	2.89
12540.00	89.320	144.510	8180.45	3948.32	-2157.10	3886.14	1741802.94	410200.67	39°37'24.3435"N	80°18'17.3395"W	4444.68	119.034	4.53	0.10	-4.53
12633.00	88.860	148.090	8181.93	4041.30	-2234.45	3937.73	1741854.52	410123.33	39°37'23.5836"N	80°18'16.6714"W	4527.52	119.573	3.88	-0.49	3.85
12726.00	88.800	145.430	8183.83	4134.27	-2312.21	3988.69	1741905.48	410045.57	39°37'22.8197"N	80°18'16.0113"W	4610.42	120.101	2.86	-0.06	-2.86
12818.00	89.010	145.370	8185.59	4226.24	-2387.93	4040.92	1741957.71	409969.86	39°37'22.0760"N	80°18'15.3351"W	4693.74	120.580	0.24	0.23	-0.07
12910.00	88.800	147.000	8187.35	4318.22	-2464.35	4092.11	1742008.90	409893.44	39°37'21.3253"N	80°18'14.6723"W	4776.86	121.057	1.79	-0.23	1.77
13003.00	88.650	146.730	8189.41	4411.19	-2542.20	4142.93	1742059.72	409815.59	39°37'20.5604"N	80°18'14.0139"W	4860.73	121.534	0.33	-0.16	-0.29
13096.00	89.720	147.170	8190.74	4504.17	-2620.15	4193.64	1742110.43	409737.65	39°37'19.7946"N	80°18'13.3569"W	4944.88	121.997	1.24	1.15	0.47
13188.00	89.480	147.030	8191.38	4596.16	-2697.39	4243.61	1742160.39	409660.41	39°37'19.0357"N	80°18'12.7095"W	5028.34	122.441	0.30	-0.26	-0.15
13281.00	88.710	147.220	8192.85	4689.14	-2775.49	4294.09	1742210.87	409582.32	39°37'18.2683"N	80°18'12.0556"W	5112.98	122.877	0.85	-0.83	0.20
13375.00	88.310	146.660	8195.29	4783.11	-2854.24	4345.35	1742262.12	409503.57	39°37'17.4946"N	80°18'11.3915"W	5198.92	123.299	0.73	-0.43	-0.60
13467.00	88.950	147.910	8197.49	4875.07	-2931.62	4395.06	1742311.83	409426.20	39°37'16.7342"N	80°18'10.7475"W	5283.08	123.704	1.53	0.70	1.36
13561.00	88.220	145.050	8199.81	4969.03	-3009.96	4446.94	1742363.71	409347.87	39°37'15.9646"N	80°18'10.0755"W	5369.84	124.092	3.14	-0.78	-3.04
13653.00	88.950	145.830	8202.09	5060.98	-3085.70	4499.12	1742415.88	409272.13	39°37'15.2207"N	80°18'9.4001"W	5455.60	124.444	1.16	0.79	0.85
13746.00	89.630	146.710	8203.24	5153.98	-3163.04	4550.75	1742467.51	409194.80	39°37'14.4610"N	80°18'8.7315"W	5542.03	124.802	1.20	0.73	0.95
13838.00	89.260	147.720	8204.13	5245.96	-3240.38	4600.57	1742517.32	409117.46	39°37'13.7011"N	80°18'8.0861"W	5627.19	125.159	1.17	-0.40	1.10
13931.00	88.150	144.350	8206.23	5338.92	-3317.48	4652.50	1742569.26	409040.37	39°37'12.9437"N	80°18'7.4136"W	5714.14	125.491	3.81	-1.19	-3.62
14023.00	89.630	147.100	8208.01	5430.89	-3393.48	4704.30	1742621.05	408964.37	39°37'12.1972"N	80°18'6.7431"W	5800.53	125.805	3.39	1.61	2.95
14116.00	88.460	146.880	8209.56	5523.87	-3471.45	4754.95	1742671.70	408886.40	39°37'11.4311"N	80°18'6.0869"W	5887.32	126.132	1.28	-1.26	-0.24
14208.00	88.770	147.370	8211.79	5615.83	-3548.70	4804.88	1742721.62	408809.16	39°37'10.6721"N	80°18'5.4401"W	5973.28	126.448	0.63	0.34	0.53
14301.00	89.010	147.490	8213.59	5708.80	-3627.06	4854.93	1742771.68	408730.81	39°37'9.9021"N	80°18'4.7915"W	6060.19	126.763	0.29	0.26	0.13
14394.00	89.110	147.280	8215.12	5801.77	-3705.38	4905.05	1742821.79	408652.49	39°37'9.1325"N	80°18'4.1422"W	6147.31	127.068	0.25	0.11	-0.23

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Actual Wellpath Report

Miracle Run 10H AWP Proj: 30768'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 10H
Field	Monongalia	API	47-061-01925-0000
Facility	Miracle Run Pad	Wellbore	Miracle Run 10H AWB
Slot	Slot #10		

WELLPATH DATA (356 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [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]
14487.00	89.050	146.960	8216.61	5894.75	-3783.47	4955.53	1742872.27	408574.40	39°37'8.3652"N	80°18'3.4882"W	6234.74	127.361	0.35	-0.06	-0.34
14580.00	89.020	146.530	8218.18	5987.73	-3861.23	5006.52	1742923.26	408496.64	39°37'7.6012"N	80°18'2.8278"W	6322.53	127.641	0.46	-0.03	-0.46
14673.00	89.050	148.340	8219.74	6080.70	-3939.60	5056.57	1742973.30	408418.29	39°37'6.8312"N	80°18'2.1793"W	6410.10	127.922	1.95	0.03	1.95
14766.00	89.230	145.380	8221.14	6173.68	-4017.45	5107.40	1743024.13	408340.44	39°37'6.0663"N	80°18'1.5209"W	6498.11	128.188	3.19	0.19	-3.18
14859.00	88.950	145.610	8222.61	6266.65	-4094.08	5160.08	1743076.80	408263.81	39°37'5.3136"N	80°18'0.8391"W	6586.95	128.429	0.39	-0.30	0.25
14951.00	88.710	146.630	8224.49	6358.63	-4170.44	5211.35	1743128.07	408187.45	39°37'4.5635"N	80°18'0.1752"W	6674.64	128.669	1.14	-0.26	1.11
15044.00	87.510	146.860	8227.56	6451.58	-4248.17	5262.32	1743179.04	408109.73	39°37'3.7998"N	80°17'59.5151"W	6763.06	128.913	1.31	-1.29	0.25
15137.00	88.060	146.230	8231.16	6544.51	-4325.70	5313.55	1743230.27	408032.20	39°37'3.0381"N	80°17'58.8516"W	6851.68	129.149	0.90	0.59	-0.68
15230.00	88.000	146.220	8234.35	6637.45	-4402.96	5365.22	1743281.94	407954.95	39°37'2.2791"N	80°17'58.1826"W	6940.58	129.374	0.07	-0.06	-0.01
15323.00	88.550	146.540	8237.15	6730.41	-4480.37	5416.69	1743333.40	407877.55	39°37'1.5187"N	80°17'57.5161"W	7029.53	129.596	0.68	0.59	0.34
15416.00	88.150	146.330	8239.83	6823.37	-4557.83	5468.09	1743384.79	407800.09	39°37'0.7577"N	80°17'56.8505"W	7118.55	129.812	0.49	-0.43	-0.23
15509.00	88.310	146.860	8242.70	6916.33	-4635.43	5519.27	1743435.97	407722.50	39°36'59.9953"N	80°17'56.1878"W	7207.60	130.026	0.60	0.17	0.57
15603.00	87.970	147.080	8245.75	7010.27	-4714.19	5570.48	1743487.18	407643.73	39°36'59.2214"N	80°17'55.5245"W	7297.52	130.241	0.43	-0.36	0.23
15696.00	88.430	147.320	8248.67	7103.21	-4792.33	5620.83	1743537.53	407565.60	39°36'58.4536"N	80°17'54.8722"W	7386.48	130.451	0.56	0.49	0.26
15789.00	89.050	146.720	8250.72	7196.18	-4870.32	5671.44	1743588.13	407487.62	39°36'57.6873"N	80°17'54.2166"W	7475.65	130.654	0.93	0.67	-0.65
15881.00	90.310	147.430	8251.23	7288.17	-4947.54	5721.45	1743638.14	407410.40	39°36'56.9285"N	80°17'53.5689"W	7563.94	130.851	1.57	1.37	0.77
15974.00	90.280	146.390	8250.75	7381.17	-5025.46	5772.22	1743688.90	407332.49	39°36'56.1630"N	80°17'52.9113"W	7653.35	131.044	1.12	-0.03	-1.12
16067.00	90.030	146.870	8250.50	7474.17	-5103.12	5823.37	1743740.06	407254.83	39°36'55.3999"N	80°17'52.2489"W	7742.97	131.229	0.58	-0.27	0.52
16159.00	89.820	146.760	8250.62	7566.16	-5180.12	5873.73	1743790.41	407177.84	39°36'54.6434"N	80°17'51.5967"W	7831.62	131.410	0.26	-0.23	-0.12
16251.00	90.120	147.020	8250.67	7658.16	-5257.18	5923.98	1743840.66	407100.78	39°36'53.8863"N	80°17'50.9458"W	7920.32	131.587	0.43	0.33	0.28
16344.00	90.800	145.460	8249.92	7751.15	-5334.49	5975.66	1743892.33	407023.47	39°36'53.1268"N	80°17'50.2767"W	8010.33	131.755	1.83	0.73	-1.68
16437.00	91.140	147.290	8248.35	7844.13	-5411.92	6027.15	1743943.82	406946.05	39°36'52.3661"N	80°17'49.6100"W	8100.33	131.921	2.00	0.37	1.97
16530.00	90.770	146.820	8246.80	7937.11	-5489.95	6077.72	1743994.39	406868.02	39°36'51.5994"N	80°17'48.9550"W	8190.13	132.091	0.64	-0.40	-0.51
16623.00	90.830	146.950	8245.50	8030.10	-5567.84	6128.52	1744045.19	406790.14	39°36'50.8341"N	80°17'48.2971"W	8280.07	132.256	0.15	0.06	0.14
16716.00	89.880	146.940	8244.93	8123.09	-5645.78	6179.25	1744095.91	406712.20	39°36'50.0683"N	80°17'47.6401"W	8370.06	132.417	1.02	-1.02	-0.01
16809.00	89.940	146.960	8245.07	8216.09	-5723.74	6229.97	1744146.62	406634.25	39°36'49.3023"N	80°17'46.9832"W	8460.12	132.575	0.07	0.06	0.02
16901.00	89.750	145.590	8245.32	8308.09	-5800.25	6281.04	1744197.70	406557.74	39°36'48.5506"N	80°17'46.3219"W	8549.53	132.721	1.50	-0.21	-1.49
16995.00	91.200	146.120	8244.54	8402.08	-5878.04	6333.80	1744250.45	406479.96	39°36'47.7865"N	80°17'45.6390"W	8641.09	132.863	1.64	1.54	0.56
17087.00	90.430	146.510	8243.23	8494.07	-5954.59	6384.82	1744301.47	406403.42	39°36'47.0345"N	80°17'44.9784"W	8730.58	133.003	0.94	-0.84	0.42
17181.00	90.800	145.710	8242.22	8588.06	-6032.61	6437.23	1744353.88	406325.40	39°36'46.2680"N	80°17'44.2999"W	8822.15	133.142	0.94	0.39	-0.85

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Actual Wellpath Report

Miracle Run 10H AWP Proj: 30768'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 10H
Field	Monongalia	API	47-061-01925-0000
Facility	Miracle Run Pad	Wellbore	Miracle Run 10H AWP
Slot	Slot #10		

WELLPATH DATA (356 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [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]
17273.00	90.370	144.780	8241.28	8680.04	-6108.19	6489.68	1744406.32	406249.82	39°36'45.5256"N	80°17'43.6213"W	8912.12	133.266	1.11	-0.47	-1.01
17365.00	91.140	145.790	8240.07	8772.01	-6183.81	6542.06	1744458.70	406174.21	39°36'44.7829"N	80°17'42.9434"W	9002.12	133.387	1.38	0.84	1.10
17458.00	91.570	146.950	8237.87	8864.98	-6261.22	6593.55	1744510.19	406096.80	39°36'44.0224"N	80°17'42.2767"W	9092.74	133.519	1.33	0.46	1.25
17550.00	91.820	146.890	8235.15	8956.94	-6338.28	6643.75	1744560.38	406019.75	39°36'43.2653"N	80°17'41.6267"W	9182.22	133.652	0.28	0.27	-0.07
17643.00	92.460	146.940	8231.68	9049.87	-6416.14	6694.48	1744611.11	405941.89	39°36'42.5002"N	80°17'40.9697"W	9272.70	133.784	0.69	0.69	0.05
17735.00	94.010	146.600	8226.49	9141.72	-6492.97	6744.81	1744661.44	405865.07	39°36'41.7453"N	80°17'40.3179"W	9362.22	133.910	1.72	1.68	-0.37
17828.00	93.850	146.620	8220.11	9234.50	-6570.44	6795.87	1744712.50	405787.60	39°36'40.9842"N	80°17'39.6567"W	9452.75	134.034	0.17	-0.17	0.02
17920.00	93.760	146.710	8214.01	9326.29	-6647.13	6846.32	1744762.94	405710.91	39°36'40.2307"N	80°17'39.0035"W	9542.35	134.154	0.14	-0.10	0.10
18014.00	93.820	146.460	8207.79	9420.09	-6725.42	6897.97	1744814.59	405632.63	39°36'39.4615"N	80°17'38.3347"W	9633.97	134.274	0.27	0.06	-0.27
18106.00	93.790	146.960	8201.69	9511.88	-6802.16	6948.36	1744864.97	405555.90	39°36'38.7076"N	80°17'37.6823"W	9723.63	134.391	0.54	-0.03	0.54
18199.00	93.440	145.970	8195.83	9604.69	-6879.52	6999.63	1744916.24	405478.54	39°36'37.9475"N	80°17'37.0184"W	9814.41	134.504	1.13	-0.38	-1.06
18291.00	93.540	145.450	8190.22	9696.52	-6955.39	7051.37	1744967.97	405402.67	39°36'37.2022"N	80°17'36.3488"W	9904.51	134.607	0.57	0.11	-0.57
18384.00	93.910	145.820	8184.18	9789.31	-7032.00	7103.75	1745020.35	405326.07	39°36'36.4497"N	80°17'35.6709"W	9995.61	134.709	0.56	0.40	0.40
18478.00	92.930	145.970	8178.58	9883.14	-7109.69	7156.36	1745072.96	405248.39	39°36'35.6865"N	80°17'34.9899"W	10087.68	134.813	1.05	-1.04	0.16
18571.00	92.930	145.950	8173.82	9976.02	-7186.65	7208.35	1745124.95	405171.43	39°36'34.9305"N	80°17'34.3170"W	10178.82	134.914	0.02	0.00	-0.02
18664.00	91.910	145.960	8169.89	10068.93	-7263.64	7260.37	1745176.97	405094.44	39°36'34.1741"N	80°17'33.6437"W	10270.03	135.013	1.10	-1.10	0.01
18757.00	91.850	145.950	8166.84	10161.88	-7340.66	7312.41	1745229.00	405017.43	39°36'33.4175"N	80°17'32.9701"W	10361.30	135.110	0.07	-0.06	-0.01
18850.00	91.720	145.760	8163.95	10254.83	-7417.59	7364.58	1745281.17	404940.50	39°36'32.6618"N	80°17'32.2948"W	10452.64	135.205	0.25	-0.14	-0.20
18943.00	90.800	145.250	8161.90	10347.79	-7494.22	7417.24	1745333.82	404863.88	39°36'31.9091"N	80°17'31.6134"W	10544.13	135.296	1.13	-0.99	-0.55
19037.00	94.490	145.320	8157.56	10441.66	-7571.39	7470.70	1745387.29	404786.71	39°36'31.1511"N	80°17'30.9216"W	10636.61	135.384	3.93	3.93	0.07
19130.00	96.100	145.550	8148.98	10534.25	-7647.65	7523.24	1745439.82	404710.46	39°36'30.4021"N	80°17'30.2418"W	10727.80	135.470	1.75	1.73	0.25
19223.00	95.020	145.610	8139.97	10626.80	-7724.00	7575.56	1745492.14	404634.11	39°36'29.6520"N	80°17'29.5648"W	10818.93	135.556	1.16	-1.16	0.06
19315.00	93.790	145.880	8132.91	10718.52	-7799.82	7627.19	1745543.76	404558.30	39°36'28.9073"N	80°17'28.8966"W	10909.23	135.641	1.37	-1.34	0.29
19409.00	93.660	145.450	8126.80	10812.32	-7877.27	7680.10	1745596.67	404480.85	39°36'28.1464"N	80°17'28.2119"W	11001.61	135.726	0.48	-0.14	-0.46
19501.00	93.720	145.910	8120.88	10904.12	-7953.10	7731.86	1745648.43	404405.03	39°36'27.4016"N	80°17'27.5420"W	11092.05	135.808	0.50	0.07	0.50
19594.00	91.820	145.420	8116.38	10997.00	-8029.80	7784.25	1745700.82	404328.33	39°36'26.6481"N	80°17'26.8640"W	11183.57	135.890	2.11	-2.04	-0.53
19687.00	91.780	145.500	8113.46	11089.94	-8106.37	7836.96	1745753.52	404251.77	39°36'25.8960"N	80°17'26.1821"W	11275.24	135.968	0.10	-0.04	0.09
19780.00	91.200	145.690	8111.04	11182.90	-8183.08	7889.49	1745806.04	404175.07	39°36'25.1425"N	80°17'25.5023"W	11366.91	136.046	0.66	-0.62	0.20
19873.00	91.200	145.690	8109.10	11275.87	-8259.88	7941.90	1745858.45	404098.27	39°36'24.3881"N	80°17'24.8241"W	11458.59	136.124	0.00	0.00	0.00
19966.00	87.910	145.600	8109.82	11368.85	-8336.64	7994.37	1745910.92	404021.51	39°36'23.6340"N	80°17'24.1451"W	11550.30	136.201	3.54	-3.54	-0.10

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Miracle Run 10H AWP Proj: 30768'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 10H
Field	Monongalia	API	47-061-01925-0000
Facility	Miracle Run Pad	Wellbore	Miracle Run 10H AWB
Slot	Slot #10		

WELLPATH DATA (356 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [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]
20059.00	88.830	145.900	8112.46	11461.81	-8413.48	8046.69	1745963.24	403944.67	39°36'22.8792"N	80°17'23.4680"W	11641.99	136.277	1.04	0.99	0.32
20152.00	88.800	145.810	8114.39	11554.78	-8490.43	8098.88	1746015.42	403867.73	39°36'22.1232"N	80°17'22.7926"W	11733.68	136.352	0.10	-0.03	-0.10
20244.00	88.890	145.560	8116.24	11646.76	-8566.41	8150.73	1746067.27	403791.76	39°36'21.3769"N	80°17'22.1216"W	11824.45	136.424	0.29	0.10	-0.27
20337.00	88.800	145.750	8118.12	11739.73	-8643.18	8203.19	1746119.73	403714.99	39°36'20.6228"N	80°17'21.4427"W	11916.24	136.496	0.23	-0.10	0.20
20431.00	88.860	145.850	8120.04	11833.71	-8720.91	8256.01	1746172.55	403637.27	39°36'19.8592"N	80°17'20.7591"W	12008.99	136.569	0.12	0.06	0.11
20524.00	88.920	145.750	8121.84	11926.69	-8797.81	8308.28	1746224.81	403560.37	39°36'19.1037"N	80°17'20.0828"W	12100.78	136.639	0.13	0.06	-0.11
20617.00	89.380	145.730	8123.22	12019.67	-8874.66	8360.63	1746277.15	403483.52	39°36'18.3487"N	80°17'19.4054"W	12192.61	136.708	0.50	0.49	-0.02
20710.00	89.420	145.670	8124.19	12112.66	-8951.49	8413.03	1746329.56	403406.70	39°36'17.5941"N	80°17'18.7272"W	12284.47	136.776	0.08	0.04	-0.06
20803.00	89.420	145.870	8125.13	12205.65	-9028.37	8465.34	1746381.86	403329.82	39°36'16.8388"N	80°17'18.0503"W	12376.33	136.843	0.22	0.00	0.22
20896.00	89.380	145.850	8126.11	12298.64	-9105.34	8517.53	1746434.05	403252.85	39°36'16.0826"N	80°17'17.3749"W	12468.18	136.910	0.05	-0.04	-0.02
20989.00	89.750	146.020	8126.81	12391.63	-9182.38	8569.62	1746486.14	403175.82	39°36'15.3258"N	80°17'16.7008"W	12560.04	136.977	0.44	0.40	0.18
21082.00	89.970	146.840	8127.04	12484.63	-9259.87	8621.05	1746537.56	403098.34	39°36'14.5645"N	80°17'16.0351"W	12651.78	137.046	0.91	0.24	0.88
21175.00	89.780	146.670	8127.24	12577.63	-9337.65	8672.03	1746588.54	403020.56	39°36'13.8002"N	80°17'15.3750"W	12743.46	137.117	0.27	-0.20	-0.18
21268.00	89.820	146.650	8127.57	12670.63	-9415.34	8723.14	1746639.65	402942.87	39°36'13.0368"N	80°17'14.7133"W	12835.18	137.185	0.05	0.04	-0.02
21361.00	89.570	146.590	8128.06	12763.63	-9493.00	8774.31	1746690.81	402865.22	39°36'12.2738"N	80°17'14.0510"W	12926.93	137.253	0.28	-0.27	-0.06
21454.00	89.420	146.920	8128.88	12856.62	-9570.78	8825.29	1746741.79	402787.45	39°36'11.5096"N	80°17'13.3909"W	13018.66	137.321	0.39	-0.16	0.35
21547.00	89.320	146.700	8129.90	12949.61	-9648.60	8876.20	1746792.70	402709.63	39°36'10.7449"N	80°17'12.7319"W	13110.39	137.388	0.26	-0.11	-0.24
21641.00	89.290	146.620	8131.04	13043.60	-9727.12	8927.86	1746844.35	402631.11	39°36'9.9734"N	80°17'12.0631"W	13203.17	137.453	0.09	-0.03	-0.09
21734.00	89.450	146.780	8132.07	13136.60	-9804.85	8978.92	1746895.41	402553.39	39°36'9.2097"N	80°17'11.4021"W	13294.96	137.518	0.24	0.17	0.17
21826.00	89.420	146.910	8132.97	13228.59	-9881.87	9029.23	1746945.72	402476.38	39°36'8.4529"N	80°17'10.7508"W	13385.75	137.582	0.15	-0.03	0.14
21919.00	89.910	146.640	8133.52	13321.58	-9959.66	9080.19	1746996.67	402398.59	39°36'7.6884"N	80°17'10.0911"W	13477.56	137.645	0.60	0.53	-0.29
22012.00	89.750	146.960	8133.79	13414.58	-10037.48	9131.11	1747047.59	402320.77	39°36'6.9238"N	80°17'9.4318"W	13569.38	137.707	0.38	-0.17	0.34
22107.00	90.180	146.800	8133.85	13509.58	-10117.05	9183.02	1747099.49	402241.21	39°36'6.1420"N	80°17'8.7598"W	13663.18	137.771	0.48	0.45	-0.17
22201.00	89.750	146.440	8133.91	13603.58	-10195.54	9234.73	1747151.21	402162.73	39°36'5.3707"N	80°17'8.0903"W	13756.06	137.831	0.60	-0.46	-0.38
22294.00	90.280	146.940	8133.89	13696.57	-10273.26	9285.81	1747202.28	402085.01	39°36'4.6071"N	80°17'7.4292"W	13847.96	137.890	0.78	0.57	0.54
22387.00	90.250	146.860	8133.46	13789.57	-10351.17	9336.59	1747253.06	402007.11	39°36'3.8415"N	80°17'6.7717"W	13939.82	137.950	0.09	-0.03	-0.09
22480.00	90.030	146.540	8133.23	13882.57	-10428.90	9387.65	1747304.12	401929.38	39°36'3.0778"N	80°17'6.1107"W	14031.75	138.008	0.42	-0.24	-0.34
22574.00	90.520	146.850	8132.78	13976.56	-10507.46	9439.27	1747355.73	401850.83	39°36'2.3058"N	80°17'5.4426"W	14124.67	138.065	0.62	0.52	0.33
22665.00	90.980	146.660	8131.59	14067.55	-10583.56	9489.15	1747405.61	401774.73	39°36'1.5581"N	80°17'4.7968"W	14214.63	138.121	0.55	0.51	-0.21
22758.00	90.520	146.990	8130.37	14160.54	-10661.39	9540.03	1747456.49	401696.90	39°36'0.7933"N	80°17'4.1381"W	14306.55	138.177	0.61	-0.49	0.35

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Actual Wellpath Report

Miracle Run 10H AWP Proj: 30768'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 10H
Field	Monongalia	API	47-061-01925-0000
Facility	Miracle Run Pad	Wellbore	Miracle Run 10H AWB
Slot	Slot #10		

WELLPATH DATA (356 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [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]
22851.00	90.580	146.840	8129.48	14253.53	-10739.31	9590.80	1747507.25	401618.99	39°36'0.0276"N	80°17'3.4809"W	14398.48	138.233	0.17	0.06	-0.16
22944.00	90.740	146.820	8128.40	14346.52	-10817.15	9641.68	1747558.13	401541.15	39°35'59.2627"N	80°17'2.8222"W	14490.43	138.288	0.17	0.17	-0.02
23038.00	90.310	146.400	8127.54	14440.52	-10895.63	9693.41	1747609.85	401462.68	39°35'58.4916"N	80°17'2.1526"W	14583.45	138.342	0.64	-0.46	-0.45
23131.00	90.400	146.500	8126.97	14533.52	-10973.13	9744.80	1747661.25	401385.18	39°35'57.7301"N	80°17'1.4874"W	14675.52	138.393	0.14	0.10	0.11
23225.00	90.370	146.760	8126.34	14627.51	-11051.64	9796.51	1747712.95	401306.68	39°35'56.9587"N	80°17'0.8182"W	14768.55	138.445	0.28	-0.03	0.28
23318.00	90.430	146.750	8125.69	14720.51	-11129.41	9847.49	1747763.93	401228.91	39°35'56.1945"N	80°17'0.1582"W	14860.58	138.497	0.07	0.06	-0.01
23411.00	90.490	146.420	8124.94	14813.51	-11207.04	9898.70	1747815.14	401151.29	39°35'55.4318"N	80°16'59.4953"W	14952.66	138.547	0.36	0.06	-0.35
23504.00	90.310	146.860	8124.29	14906.50	-11284.71	9949.84	1747866.27	401073.62	39°35'54.6685"N	80°16'58.8334"W	15044.74	138.597	0.51	-0.19	0.47
23597.00	90.950	145.430	8123.27	14999.49	-11361.94	10001.65	1747918.07	400996.40	39°35'53.9098"N	80°16'58.1630"W	15136.93	138.643	1.68	0.69	-1.54
23690.00	90.860	145.810	8121.80	15092.47	-11438.68	10054.16	1747970.58	400919.66	39°35'53.1559"N	80°16'57.4837"W	15229.23	138.686	0.42	-0.10	0.41
23783.00	90.740	146.010	8120.50	15185.46	-11515.69	10106.28	1748022.70	400842.65	39°35'52.3993"N	80°16'56.8093"W	15321.49	138.730	0.25	-0.13	0.22
23877.00	90.650	145.780	8119.36	15279.45	-11593.52	10158.98	1748075.40	400764.83	39°35'51.6347"N	80°16'56.1274"W	15414.75	138.773	0.26	-0.10	-0.24
23971.00	90.710	145.670	8118.24	15373.44	-11671.19	10211.91	1748128.33	400687.16	39°35'50.8717"N	80°16'55.4426"W	15508.06	138.815	0.13	0.06	-0.12
24066.00	90.710	145.630	8117.07	15468.42	-11749.62	10265.51	1748181.92	400608.74	39°35'50.1012"N	80°16'54.7491"W	15602.38	138.857	0.04	0.00	-0.04
24161.00	90.830	145.630	8115.79	15563.41	-11828.02	10319.14	1748235.55	400530.34	39°35'49.3310"N	80°16'54.0554"W	15696.71	138.898	0.13	0.13	0.00
24254.00	90.650	145.750	8114.59	15656.39	-11904.84	10371.56	1748287.96	400453.53	39°35'48.5764"N	80°16'53.3772"W	15789.06	138.937	0.23	-0.19	0.13
24349.00	90.650	145.600	8113.51	15751.38	-11983.29	10425.12	1748341.52	400375.09	39°35'47.8057"N	80°16'52.6843"W	15883.40	138.978	0.16	0.00	-0.16
24443.00	90.740	145.790	8112.37	15845.37	-12060.93	10478.10	1748394.49	400297.45	39°35'47.0429"N	80°16'51.9989"W	15976.75	139.017	0.22	0.10	0.20
24537.00	91.140	145.710	8110.83	15939.35	-12138.62	10530.99	1748447.39	400219.77	39°35'46.2797"N	80°16'51.3146"W	16070.09	139.056	0.43	0.43	-0.09
24631.00	91.170	145.750	8108.93	16033.32	-12216.28	10583.91	1748500.30	400142.11	39°35'45.5167"N	80°16'50.6300"W	16163.44	139.095	0.05	0.03	0.04
24726.00	90.620	145.840	8107.45	16128.31	-12294.84	10637.31	1748553.70	400063.55	39°35'44.7449"N	80°16'49.9391"W	16257.78	139.134	0.59	-0.58	0.09
24820.00	90.550	145.650	8106.49	16222.30	-12372.53	10690.22	1748606.60	399985.87	39°35'43.9817"N	80°16'49.2547"W	16351.16	139.172	0.22	-0.07	-0.20
24913.00	90.680	145.410	8105.49	16315.28	-12449.20	10742.85	1748659.23	399909.20	39°35'43.2285"N	80°16'48.5738"W	16443.58	139.208	0.29	0.14	-0.26
25007.00	90.620	146.610	8104.43	16409.27	-12527.13	10795.40	1748711.78	399831.28	39°35'42.4629"N	80°16'47.8939"W	16536.92	139.247	1.28	-0.06	1.28
25101.00	90.860	147.690	8103.21	16503.25	-12606.09	10846.38	1748762.76	399752.32	39°35'41.6869"N	80°16'47.2339"W	16630.02	139.291	1.18	0.26	1.15
25195.00	91.380	147.640	8101.37	16597.21	-12685.50	10896.65	1748813.02	399672.92	39°35'40.9064"N	80°16'46.5830"W	16723.00	139.338	0.56	0.55	-0.05
25289.00	91.290	147.560	8099.18	16691.16	-12764.85	10947.00	1748863.37	399593.58	39°35'40.1266"N	80°16'45.9310"W	16816.01	139.384	0.13	-0.10	-0.09
25383.00	91.350	147.600	8097.02	16785.12	-12844.17	10997.38	1748913.75	399514.25	39°35'39.3470"N	80°16'45.2786"W	16909.03	139.429	0.08	0.06	0.04
25477.00	91.320	147.540	8094.83	16879.07	-12923.49	11047.78	1748964.14	399434.94	39°35'38.5674"N	80°16'44.6261"W	17002.06	139.474	0.07	-0.03	-0.06
25571.00	91.350	147.630	8092.64	16973.02	-13002.82	11098.16	1749014.52	399355.61	39°35'37.7877"N	80°16'43.9738"W	17095.10	139.519	0.10	0.03	0.10

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Actual Wellpath Report

Miracle Run 10H AWP Proj: 30768'

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WELLPATH DATA (356 stations)

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25665.00	90.920	147.590	8090.78	17066.98	-13082.18	11148.50	1749064.86	399276.26	39°35'37.0077"N	80°16'43.3219"W	17188.15	139.563	0.46	-0.46	-0.04
25759.00	90.680	147.860	8089.46	17160.95	-13161.65	11198.69	1749115.04	399196.79	39°35'36.2267"N	80°16'42.6720"W	17281.20	139.607	0.38	-0.26	0.29
25853.00	90.370	147.680	8088.60	17254.92	-13241.17	11248.82	1749165.17	399117.29	39°35'35.4452"N	80°16'42.0229"W	17374.24	139.651	0.38	-0.33	-0.19
25947.00	90.370	147.590	8088.00	17348.89	-13320.56	11299.14	1749215.48	399037.89	39°35'34.6648"N	80°16'41.3714"W	17467.34	139.694	0.10	0.00	-0.10
26040.00	90.280	147.840	8087.47	17441.86	-13399.18	11348.81	1749265.15	398959.28	39°35'33.8921"N	80°16'40.7281"W	17559.43	139.736	0.29	-0.10	0.27
26135.00	90.980	147.370	8086.42	17536.84	-13479.39	11399.70	1749316.04	398879.07	39°35'33.1038"N	80°16'40.0692"W	17653.53	139.778	0.89	0.74	-0.49
26230.00	90.890	147.220	8084.87	17631.81	-13559.32	11451.03	1749367.36	398799.15	39°35'32.3183"N	80°16'39.4048"W	17747.71	139.818	0.18	-0.09	-0.16
26324.00	90.770	147.370	8083.51	17725.79	-13638.41	11501.81	1749418.15	398720.07	39°35'31.5410"N	80°16'38.7473"W	17840.90	139.858	0.20	-0.13	0.16
26417.00	91.320	147.620	8081.82	17818.75	-13716.83	11551.78	1749468.11	398641.65	39°35'30.7703"N	80°16'38.1004"W	17933.07	139.897	0.65	0.59	0.27
26508.00	91.380	147.740	8079.67	17909.71	-13793.71	11600.42	1749516.75	398564.78	39°35'30.0147"N	80°16'37.4706"W	18023.21	139.936	0.15	0.07	0.13
26600.00	91.230	147.450	8077.58	18001.66	-13871.36	11649.71	1749566.03	398487.13	39°35'29.2515"N	80°16'36.8325"W	18114.37	139.975	0.35	-0.16	-0.32
26694.00	90.430	147.780	8076.22	18095.63	-13950.73	11700.05	1749616.37	398407.76	39°35'28.4714"N	80°16'36.1807"W	18207.53	140.014	0.92	-0.85	0.35
26787.00	90.280	146.180	8075.64	18188.62	-14028.71	11750.72	1749667.04	398329.79	39°35'27.7051"N	80°16'35.5248"W	18299.84	140.050	1.73	-0.16	-1.72
26881.00	90.340	147.730	8075.13	18282.61	-14107.50	11801.98	1749718.30	398251.01	39°35'26.9308"N	80°16'34.8614"W	18393.16	140.085	1.65	0.06	1.65
26975.00	90.370	147.530	8074.55	18376.58	-14186.89	11852.30	1749768.62	398171.62	39°35'26.1505"N	80°16'34.2098"W	18486.35	140.123	0.22	0.03	-0.21
27069.00	90.770	146.730	8073.61	18470.57	-14265.84	11903.32	1749819.63	398092.68	39°35'25.3747"N	80°16'33.5495"W	18579.64	140.159	0.95	0.43	-0.85
27163.00	90.550	146.600	8072.53	18564.56	-14344.37	11954.97	1749871.28	398014.15	39°35'24.6030"N	80°16'32.8810"W	18673.03	140.191	0.27	-0.23	-0.14
27257.00	89.750	146.540	8072.28	18658.56	-14422.81	12006.76	1749923.06	397935.71	39°35'23.8321"N	80°16'32.2109"W	18766.45	140.223	0.85	-0.85	-0.06
27351.00	89.970	146.470	8072.51	18752.56	-14501.20	12058.63	1749974.93	397857.33	39°35'23.0619"N	80°16'31.5397"W	18859.89	140.254	0.25	0.23	-0.07
27445.00	89.850	146.460	8072.66	18846.56	-14579.56	12110.56	1750026.86	397778.98	39°35'22.2920"N	80°16'30.8677"W	18953.34	140.285	0.13	-0.13	-0.01
27539.00	89.940	146.630	8072.83	18940.56	-14657.98	12162.38	1750078.68	397700.56	39°35'21.5213"N	80°16'30.1972"W	19046.78	140.316	0.20	0.10	0.18
27634.00	89.050	146.480	8073.67	19035.55	-14737.25	12214.74	1750131.03	397621.29	39°35'20.7424"N	80°16'29.5197"W	19141.22	140.347	0.95	-0.94	-0.16
27727.00	88.800	145.540	8075.42	19128.53	-14814.34	12266.72	1750183.01	397544.20	39°35'19.9850"N	80°16'28.8473"W	19233.75	140.374	1.05	-0.27	-1.01
27821.00	88.620	145.550	8077.53	19222.50	-14891.83	12319.89	1750236.17	397466.72	39°35'19.2237"N	80°16'28.1596"W	19327.35	140.399	0.19	-0.19	0.01
27914.00	88.710	145.440	8079.70	19315.46	-14968.45	12372.56	1750288.84	397390.11	39°35'18.4710"N	80°16'27.4785"W	19419.96	140.424	0.15	0.10	-0.12
28008.00	88.370	145.710	8082.09	19409.42	-15045.96	12425.68	1750341.96	397312.60	39°35'17.7095"N	80°16'26.7914"W	19513.55	140.448	0.46	-0.36	0.29
28103.00	88.090	145.300	8085.03	19504.37	-15124.22	12479.45	1750395.73	397234.34	39°35'16.9406"N	80°16'26.0959"W	19608.13	140.473	0.52	-0.29	-0.43
28197.00	87.840	145.510	8088.37	19598.30	-15201.55	12532.79	1750449.06	397157.02	39°35'16.1810"N	80°16'25.4062"W	19701.73	140.496	0.35	-0.27	0.22
28291.00	87.880	145.290	8091.88	19692.22	-15278.87	12586.13	1750502.40	397079.70	39°35'15.4214"N	80°16'24.7164"W	19795.32	140.520	0.24	0.04	-0.23
28385.00	87.450	145.200	8095.71	19786.12	-15356.04	12639.67	1750555.94	397002.54	39°35'14.6633"N	80°16'24.0240"W	19888.92	140.542	0.47	-0.46	-0.10

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Miracle Run 10H AWP Proj: 30768'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 10H
Field	Monongalia	API	47-061-01925-0000
Facility	Miracle Run Pad	Wellbore	Miracle Run 10H AWP
Slot	Slot #10		

WELLPATH DATA (356 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [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]
28479.00	88.180	145.770	8099.29	19880.04	-15433.44	12692.90	1750609.16	396925.15	39°35'13.9030"N	80°16'23.3357"W	19982.51	140.565	0.99	0.78	0.61
28574.00	87.260	145.480	8103.07	19974.96	-15511.78	12746.49	1750662.75	396846.81	39°35'13.1332"N	80°16'22.6425"W	20077.06	140.589	1.02	-0.97	-0.31
28668.00	87.450	145.520	8107.41	20068.84	-15589.17	12799.68	1750715.93	396769.43	39°35'12.3730"N	80°16'21.9547"W	20170.62	140.612	0.21	0.20	0.04
28762.00	87.450	145.730	8111.59	20162.74	-15666.67	12852.70	1750768.95	396691.92	39°35'11.6115"N	80°16'21.2690"W	20264.17	140.635	0.22	0.00	0.22
28856.00	86.920	145.390	8116.21	20256.62	-15744.10	12905.79	1750822.04	396614.50	39°35'10.8508"N	80°16'20.5823"W	20357.71	140.658	0.67	-0.56	-0.36
28950.00	86.800	145.350	8121.35	20350.46	-15821.34	12959.13	1750875.38	396537.27	39°35'10.0921"N	80°16'19.8926"W	20451.25	140.679	0.13	-0.13	-0.04
29044.00	86.680	146.130	8126.70	20444.31	-15898.90	13011.96	1750928.20	396459.71	39°35'9.3301"N	80°16'19.2093"W	20544.74	140.702	0.84	-0.13	0.83
29136.00	87.050	145.830	8131.73	20536.17	-15975.04	13063.36	1750979.60	396383.58	39°35'8.5820"N	80°16'18.5445"W	20636.21	140.726	0.52	0.40	-0.33
29230.00	87.040	145.640	8136.58	20630.03	-16052.62	13116.21	1751032.45	396306.00	39°35'7.8197"N	80°16'17.8609"W	20729.73	140.749	0.20	-0.01	-0.20
29324.00	86.800	145.370	8141.63	20723.89	-16129.98	13169.37	1751085.60	396228.65	39°35'7.0597"N	80°16'17.1735"W	20823.27	140.770	0.38	-0.26	-0.29
29417.00	87.140	145.950	8146.54	20816.75	-16206.66	13221.76	1751137.99	396151.97	39°35'6.3063"N	80°16'16.4960"W	20915.80	140.792	0.72	0.37	0.62
29511.00	88.220	145.880	8150.35	20910.67	-16284.45	13274.39	1751190.62	396074.19	39°35'5.5421"N	80°16'15.8152"W	21009.35	140.815	1.15	1.15	-0.07
29605.00	88.120	146.120	8153.35	21004.62	-16362.34	13326.93	1751243.15	395996.30	39°35'4.7768"N	80°16'15.1356"W	21102.92	140.838	0.28	-0.11	0.26
29699.00	88.000	145.950	8156.53	21098.56	-16440.26	13379.42	1751295.64	395918.39	39°35'4.0112"N	80°16'14.4567"W	21196.48	140.861	0.22	-0.13	-0.18
29793.00	88.190	145.900	8159.66	21192.51	-16518.07	13432.05	1751348.27	395840.58	39°35'3.2466"N	80°16'13.7759"W	21290.06	140.883	0.21	0.20	-0.05
29887.00	87.880	145.840	8162.88	21286.45	-16595.84	13484.76	1751400.98	395762.82	39°35'2.4826"N	80°16'13.0942"W	21383.66	140.905	0.34	-0.33	-0.06
29980.00	88.920	146.220	8165.48	21379.41	-16672.94	13536.71	1751452.92	395685.73	39°35'1.7250"N	80°16'12.4223"W	21476.25	140.927	1.19	1.12	0.41
30073.00	88.370	145.490	8167.68	21472.38	-16749.88	13588.89	1751505.10	395608.78	39°35'0.9690"N	80°16'11.7474"W	21568.88	140.948	0.98	-0.59	-0.78
30166.00	88.250	145.310	8170.42	21565.33	-16826.40	13641.68	1751557.88	395532.27	39°35'0.2173"N	80°16'11.0649"W	21661.56	140.967	0.23	-0.13	-0.19
30259.00	88.480	145.370	8173.09	21658.27	-16902.86	13694.55	1751610.75	395455.81	39°34'59.4661"N	80°16'10.3813"W	21754.25	140.986	0.23	0.23	0.06
30352.00	89.910	145.480	8174.41	21751.25	-16979.43	13747.31	1751663.51	395379.25	39°34'58.7139"N	80°16'9.6989"W	21846.96	141.005	1.56	1.56	0.12
30444.00	89.940	145.780	8174.53	21843.24	-17055.37	13799.25	1751715.45	395303.32	39°34'57.9678"N	80°16'9.0273"W	21938.66	141.024	0.33	0.03	0.33
30538.00	90.150	145.270	8174.46	21937.23	-17132.86	13852.46	1751768.65	395225.83	39°34'57.2065"N	80°16'8.3393"W	22032.37	141.043	0.59	0.22	-0.54
30630.00	89.760	145.490	8174.52	22029.22	-17208.57	13904.73	1751820.92	395150.13	39°34'56.4627"N	80°16'7.6634"W	22124.11	141.061	0.47	-0.40	0.24
30723.00	89.880	145.550	8174.79	22122.20	-17285.23	13957.38	1751873.56	395073.47	39°34'55.7095"N	80°16'6.9827"W	22216.83	141.080	0.13	0.11	0.06
30768.00†	89.880	145.550	8174.89	22167.20	-17322.34	13982.83	1751899.02	395036.36	39°34'55.3450"N	80°16'6.6535"W	22261.69	141.089	0.00	0.00	0.00

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Miracle Run 10H AWP Proj: 30768'
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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 10H
Field	Monongalia	API	47-061-01925-0000
Facility	Miracle Run Pad	Wellbore	Miracle Run 10H AWB
Slot	Slot #10		

HOLE & CASING SECTIONS - Ref Wellbore: Miracle Run 10H AWB Ref Wellpath: Miracle Run 10H AWP Proj: 30768'

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]
32in Open Hole	32.50	133.00	100.50	32.50	133.00	0.00	0.00	-0.06	0.38
24in Conductor	32.50	133.00	100.50	32.50	133.00	0.00	0.00	-0.06	0.38
17.5in Open Hole	133.00	1485.00	1352.00	133.00	1484.65	-0.06	0.38	-24.12	10.44
13.375in Casing Surface	32.50	1455.00	1422.50	32.50	1454.66	0.00	0.00	-23.57	10.68
12.25in Open Hole	1485.00	2784.00	1299.00	1484.65	2783.58	-24.12	10.44	-33.79	5.92
9.625in Casing Intermediate	32.50	2754.00	2721.50	32.50	2753.58	0.00	0.00	-33.73	5.78
8.75in Open Hole	2754.00	7205.00	4451.00	2753.58	6873.62	-33.73	5.78	1160.98	1016.58
8.5in Open Hole	7205.00	30768.00	23563.00	6873.62	8174.89	1160.98	1016.58	-17322.34	13982.83
5.5in Casing Production	32.50	30768.00	30735.50	32.50	8174.89	0.00	0.00	-17322.34	13982.83

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Miracle Run 10H BHL Rev-2	8139.50	-17332.94	13967.70	1751883.89	395025.77	39°34'55.2389"N	80°16'6.8456"W	point
Miracle Run 10H LP Rev-1	8139.50	777.51	1923.02	1739839.94	413135.10	39°37'53.1704"N	80°18'42.7655"W	point
Miracle Run Hardline #3 03.07.2024	9800.00	3028.72	-370.43	1737546.63	415386.17	39°38'15.2122"N	80°19'12.3400"W	polygon
2D Polygon: dimensions not calculated								

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Miracle Run 10H AWP Proj: 30768'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 10H
Field	Monongalia	API	47-061-01925-0000
Facility	Miracle Run Pad	Wellbore	Miracle Run 10H AWB
Slot	Slot #10		

WELLPATH COMPOSITION - Ref Wellbore: Miracle Run 10H AWB Ref Wellpath: Miracle Run 10H AWP Proj: 30768'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
32.50	1423.00	BH Generic gyro - northseeking (Standard)	01 Javins Gyro <17-1/2"> (73'-1423')	Miracle Run 10H AWB	3/7/2024
1423.00	2673.01	BH Generic gyro - northseeking (Standard)	02 Javins Gyro <12-1/4"> (1423')(1473'-2673.01')	Miracle Run 10H AWB	3/7/2024
2673.01	7128.00	OWSG MWD rev2 + HRGM	03 SDI MWD <8-3/4"> (2673.01')(2799'-7128')	Miracle Run 10H AWB	3/7/2024
7128.00	30768.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (7128')(7221'-30723')	Miracle Run 10H AWB	3/7/2024

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 10H
Field	Monongalia	API	47-061-01925-0000
Facility	Miracle Run Pad	Wellbore	Miracle Run 10H AWB
Slot	Slot #10		

COMMENTS

Wellpath general comments

API: 47-061-01925-0000

BH Job #: 112148356

Rig: Nabors X08

Duration: 3/24/2024-4/1/2024

Javins Gyro <17-1/2"> (73'-1423')

Javins Gyro <12-1/4"> (1423')(1473'-2673.01')

SDI MWD <8-3/4"> (2673.01')(2799'-7128')

BH AT Curve <8-1/2"> (7128')(7221'-30723')

Projected MD at TD: 30768'

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