



NORTHEAST NATURAL ENERGY, LLC

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

Slot: Slot #06
Well: Miracle Run 6H
Wellbore: Miracle Run 6H PWB



Plot reference wellpath is Miracle Run 6H Rev-A.0	Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (+701), US feet
True vertical depths are referenced to Nabors X08 (RKB)	North Reference: Grid North
Reference wellpath in measured depths are referenced to Nabors X08 (RKB)	Scale: True distance
Nabors X08 (RKB) to Mean Sea Level: 1450.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot#06): -1450 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's datum MD datum	Created by: mmonajoh on 2024-04-22; Database: WU, MPL, EASTERNUS, Del

04_8.5" BH ATK Curve [HDGM+Short Spacing] (7314' - 7416' - 30487') : 7316.88ft TVD, 719.88ft N, 589.12ft E
03_8.75" SDI MWD [OWSG MWD+HRGM] (2665' - 2797' - 7314') : 2796.53ft TVD, 7.67ft S, 6.13ft E
02_12.5" SDI MWD [OWSG MWD+HDGM] (1355' - 1538' - 2665') : 1537.98ft TVD, 3.82ft S, 1.24ft W
01_17.5" Javins Gyro [Northseeking+Standard] (73' - 1355') : 73.00ft TVD, 0.05ft N, 0.09ft E

Location Information

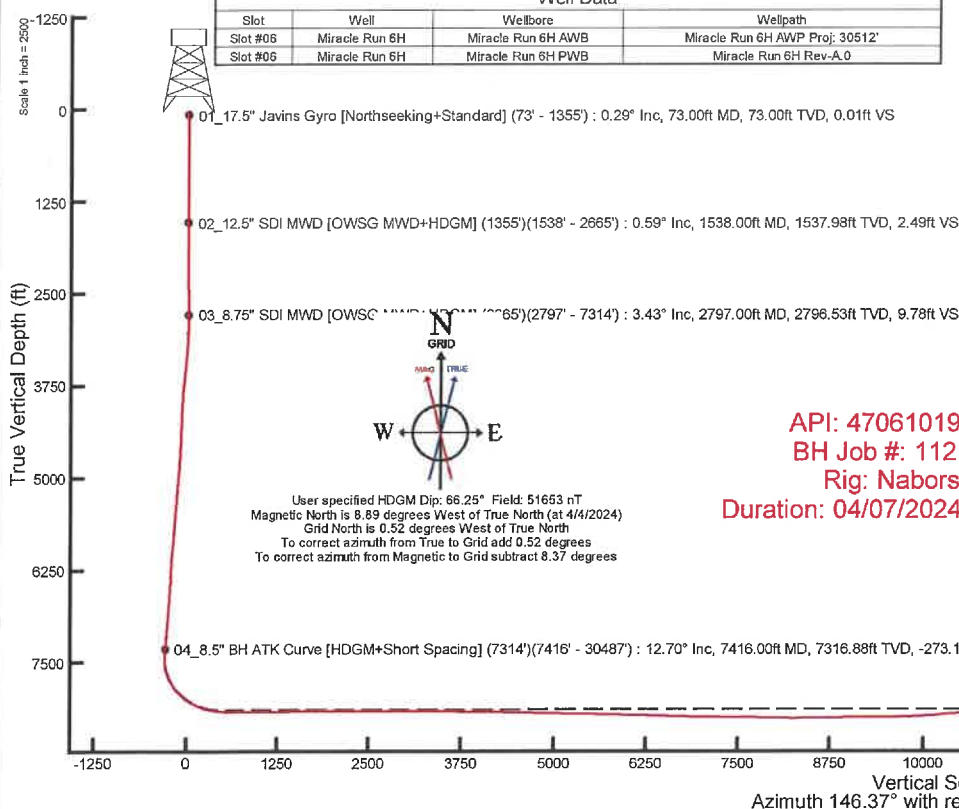
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Miracle Run Pad	1737889.810	412328.340	39°37'45.0221"N	80°19'7.5970"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot #06	14.65	13.61	1737903.420	412342.960
			39°37'45.1681"N	80°19'7.4248"W
Nabors X08 (RKB) to Ground level (At Slot: Slot#06)			32.5ft	
Mean Sea Level to Ground level (At Slot: Slot#06)			-1450ft	
Nabors X08 (RKB) to Mean Sea Level			1450.5ft	

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	7314.00	13.180	36.820	7217.47	701.31	575.82	1.71	-255.03
Projection	7484.00	11.120	34.000	7363.65	730.42	596.60	1.26	-277.76
Build+Turn	8146.06	48.206	135.801	7965.76	894.07	822.98	7.90	-38.85
Landing Pt	8654.01	90.000	146.373	8139.50	228.28	1110.62	8.25	425.01
BHt	30489.10	90.000	146.373	8139.50	-17993.01	13202.42	0.00	22260.11

Well Data

Slot	Well	Wellbore	Wellpath
Slot #06	Miracle Run 6H	Miracle Run 6H AWP	Miracle Run 6H AWP Proj: 30512'
Slot #06	Miracle Run 6H	Miracle Run 6H PWB	Miracle Run 6H Rev-A.0



API: 47061019240000
BH Job #: 112148359
Rig: Nabors X08
Duration: 04/07/2024 - 04/14/2024

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Final Survey MD @ 30487' : 8162.85ft TVD, 17833.99ft S, 13184.80ft E
Projected MD @ TD: 30512' : 8163.06ft TVD, 17954.76ft S, 13198.70ft E

Final Survey MD @ 30487' : 89.54° Inc, 30487.00ft MD, 8162.85ft TVD, 22234.50ft VS
Projected MD @ TD: 30512' : 89.54° Inc, 30512.00ft MD, 8163.06ft TVD, 22259.50ft VS

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Actual Wellpath Report

Miracle Run 6H AWP Proj: 30512'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 6H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 6H AWB
Slot	Slot #06		

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	4/22/2024 at 4:19:35 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	14.65	13.61	1737903.42	412342.99	39°37'45.1681"N	80°19'7.4248"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 #06)	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 6H AWP Proj: 30512'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 6H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 6H AWB
Slot	Slot #06		

WELLPATH DATA (337 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	59.270	0.00	-1490.50	0.00	0.00	0.00	1737903.42	412342.99	39°37'45.1681"N	80°19'7.4248"W	0.00	0.000	0.00	0.00	0.00
32.50	0.000	59.270	32.50	-1458.00	0.00	0.00	0.00	1737903.42	412342.99	39°37'45.1681"N	80°19'7.4248"W	0.00	0.000	0.00	0.00	0.00
73.00	0.290	59.270	73.00	-1417.50	0.01	0.05	0.09	1737903.51	412343.04	39°37'45.1686"N	80°19'7.4237"W	0.10	59.270	0.72	0.72	0.00
123.00	0.200	142.610	123.00	-1367.50	0.10	0.05	0.25	1737903.67	412343.04	39°37'45.1686"N	80°19'7.4216"W	0.25	79.192	0.67	-0.18	166.68
173.00	0.290	152.080	173.00	-1317.50	0.31	-0.13	0.36	1737903.78	412342.86	39°37'45.1688"N	80°19'7.4201"W	0.39	110.230	0.20	0.18	18.94
223.00	0.220	62.050	223.00	-1267.50	0.45	-0.20	0.51	1737903.93	412342.79	39°37'45.1662"N	80°19'7.4183"W	0.54	111.586	0.73	-0.14	-180.06
273.00	0.260	184.500	273.00	-1217.50	0.55	-0.27	0.58	1737904.00	412342.72	39°37'45.1655"N	80°19'7.4173"W	0.64	114.753	0.84	0.08	244.90
323.00	0.240	79.730	323.00	-1167.50	0.68	-0.36	0.68	1737904.10	412342.63	39°37'45.1646"N	80°19'7.4161"W	0.77	118.215	0.79	-0.04	-209.54
373.00	0.320	179.010	373.00	-1117.50	0.84	-0.48	0.78	1737904.20	412342.51	39°37'45.1634"N	80°19'7.4147"W	0.92	121.752	0.86	0.16	198.56
423.00	0.150	210.090	423.00	-1067.50	0.98	-0.68	0.75	1737904.17	412342.31	39°37'45.1615"N	80°19'7.4151"W	1.01	132.149	0.41	-0.34	62.16
473.00	0.140	222.880	473.00	-1017.50	1.03	-0.78	0.68	1737904.10	412342.21	39°37'45.1605"N	80°19'7.4160"W	1.03	139.099	0.07	-0.02	25.58
523.00	0.190	201.070	523.00	-967.50	1.09	-0.90	0.61	1737904.03	412342.09	39°37'45.1592"N	80°19'7.4169"W	1.09	146.171	0.16	0.10	-43.62
573.00	0.310	115.840	573.00	-917.50	1.25	-1.04	0.70	1737904.12	412341.95	39°37'45.1579"N	80°19'7.4157"W	1.25	146.149	0.70	0.24	-170.46
623.00	0.170	91.250	623.00	-867.50	1.41	-1.10	0.89	1737904.31	412341.89	39°37'45.1573"N	80°19'7.4132"W	1.42	140.929	0.34	-0.28	-49.18
673.00	0.170	68.370	673.00	-817.50	1.47	-1.07	1.04	1737904.46	412341.92	39°37'45.1576"N	80°19'7.4114"W	1.49	136.037	0.13	0.00	-45.76
723.00	0.100	66.420	723.00	-767.50	1.49	-1.03	1.15	1737904.57	412341.96	39°37'45.1580"N	80°19'7.4100"W	1.54	131.960	0.14	-0.14	-3.90
773.00	0.210	69.570	773.00	-717.50	1.52	-0.98	1.27	1737904.69	412342.01	39°37'45.1585"N	80°19'7.4084"W	1.61	127.640	0.22	0.22	6.30
823.00	0.100	68.840	823.00	-667.50	1.55	-0.93	1.40	1737904.82	412342.06	39°37'45.1590"N	80°19'7.4068"W	1.68	123.713	0.22	-0.22	-1.46
873.00	0.030	182.310	873.00	-617.50	1.57	-0.93	1.44	1737904.86	412342.06	39°37'45.1591"N	80°19'7.4063"W	1.71	122.893	0.23	-0.14	226.94
923.00	0.410	172.960	923.00	-567.50	1.74	-1.12	1.46	1737904.88	412341.87	39°37'45.1572"N	80°19'7.4060"W	1.84	127.521	0.76	0.76	-18.70
973.00	0.350	155.440	972.99	-517.51	2.05	-1.44	1.54	1737904.96	412341.55	39°37'45.1540"N	80°19'7.4049"W	2.11	132.932	0.26	-0.12	-35.04
1023.00	0.130	288.430	1022.99	-467.51	2.16	-1.56	1.55	1737904.97	412341.43	39°37'45.1529"N	80°19'7.4047"W	2.20	135.067	0.90	-0.44	265.98
1073.00	0.070	62.350	1072.99	-417.51	2.12	-1.53	1.53	1737904.95	412341.46	39°37'45.1532"N	80°19'7.4051"W	2.16	134.968	0.37	-0.12	267.84
1123.00	0.180	226.400	1122.99	-367.51	2.13	-1.57	1.50	1737904.92	412341.42	39°37'45.1528"N	80°19'7.4055"W	2.17	136.273	0.50	0.22	328.10
1173.00	0.630	240.210	1172.99	-317.51	2.13	-1.76	1.20	1737904.62	412341.23	39°37'45.1509"N	80°19'7.4092"W	2.13	145.609	0.91	0.90	27.62
1223.00	0.390	219.030	1222.99	-267.51	2.16	-2.03	0.86	1737904.28	412340.96	39°37'45.1482"N	80°19'7.4136"W	2.20	157.073	0.60	-0.48	-42.36
1273.00	0.310	284.560	1272.99	-217.51	2.11	-2.12	0.62	1737904.04	412340.87	39°37'45.1472"N	80°19'7.4166"W	2.21	163.759	0.77	-0.16	131.06
1323.00	0.330	228.360	1322.99	-167.51	2.03	-2.19	0.38	1737903.80	412340.80	39°37'45.1466"N	80°19'7.4197"W	2.22	170.134	0.60	0.04	-112.40
1355.00	0.680	220.740	1354.99	-135.51	2.09	-2.39	0.19	1737903.61	412340.60	39°37'45.1445"N	80°19'7.4221"W	2.40	175.520	1.11	1.09	-23.81
1538.00	0.590	230.090	1537.98	47.48	2.49	-3.82	-1.24	1737902.18	412339.17	39°37'45.1303"N	80°19'7.4402"W	4.02	198.050	0.07	-0.05	5.11

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Actual Wellpath Report

Miracle Run 6H AWP Proj: 30512'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 6H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 6H AWB
Slot	Slot #06		

WELLPATH DATA (337 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]
1632.00	0.670	255.410	1631.97	141.47	2.36	-4.27	-2.15	1737901.27	412338.72	39°37'45.1258"N	80°19'7.4517"W	4.78	206.715	0.31	0.09	26.94
1726.00	1.070	245.580	1725.96	235.46	2.04	-4.77	-3.48	1737899.94	412338.22	39°37'45.1207"N	80°19'7.4687"W	5.90	216.112	0.45	0.43	-10.46
1820.00	1.010	241.810	1819.94	329.44	1.82	-5.52	-5.01	1737898.41	412337.47	39°37'45.1131"N	80°19'7.4881"W	7.45	222.203	0.10	-0.06	-4.01
1914.00	0.790	235.120	1913.93	423.43	1.76	-6.28	-6.27	1737897.15	412336.71	39°37'45.1054"N	80°19'7.5042"W	8.88	224.933	0.26	-0.23	-7.12
2008.00	0.870	231.720	2007.92	517.42	1.83	-7.10	-7.36	1737896.06	412335.89	39°37'45.0973"N	80°19'7.5180"W	10.23	226.048	0.10	0.09	-3.62
2102.00	0.970	241.880	2101.91	611.41	1.81	-7.91	-8.62	1737894.80	412335.08	39°37'45.0891"N	80°19'7.5341"W	11.70	227.456	0.20	0.11	10.81
2196.00	0.690	202.200	2195.90	705.40	2.06	-8.81	-9.54	1737893.88	412334.18	39°37'45.0802"N	80°19'7.5457"W	12.99	227.265	0.66	-0.30	-42.21
2290.00	0.940	180.890	2289.89	799.39	3.01	-10.11	-9.76	1737893.66	412332.88	39°37'45.0673"N	80°19'7.5484"W	14.05	224.010	0.41	0.27	-22.67
2383.00	0.980	121.820	2382.88	892.38	4.36	-11.29	-9.10	1737894.32	412331.70	39°37'45.0557"N	80°19'7.5398"W	14.50	218.872	1.02	0.04	-63.52
2477.00	1.450	97.630	2476.86	986.36	5.88	-11.87	-7.24	1737896.18	412331.12	39°37'45.0501"N	80°19'7.5159"W	13.90	211.373	0.73	0.50	-25.73
2571.00	2.330	79.200	2570.81	1080.31	7.40	-11.67	-4.18	1737899.24	412331.32	39°37'45.0524"N	80°19'7.4769"W	12.40	199.717	1.13	0.94	-19.61
2665.00	2.680	71.050	2664.72	1174.22	8.70	-10.60	-0.23	1737903.19	412332.39	39°37'45.0633"N	80°19'7.4265"W	10.60	181.230	0.53	0.37	-8.67
2797.00	3.430	60.700	2796.53	1306.03	9.78	-7.67	6.13	1737909.55	412335.33	39°37'45.0929"N	80°19'7.3455"W	9.82	141.328	0.70	0.57	-7.84
2892.00	5.040	49.570	2891.27	1400.77	9.50	-3.57	11.79	1737915.21	412339.42	39°37'45.1339"N	80°19'7.2737"W	12.32	106.837	1.90	1.69	-11.72
2986.00	6.430	39.740	2984.80	1494.30	7.51	3.16	18.30	1737921.72	412346.15	39°37'45.2010"N	80°19'7.1913"W	18.57	80.209	1.81	1.48	-10.46
3079.00	7.580	37.260	3077.10	1586.60	4.01	12.04	25.34	1737928.76	412355.03	39°37'45.2894"N	80°19'7.1023"W	28.06	64.579	1.28	1.24	-2.67
3173.00	8.880	36.790	3170.13	1679.63	-0.45	22.79	33.44	1737936.86	412365.78	39°37'45.3963"N	80°19'7.0001"W	40.47	55.726	1.38	1.38	-0.50
3267.00	10.900	38.800	3262.73	1772.23	-5.57	35.53	43.36	1737946.77	412378.52	39°37'45.5231"N	80°19'6.8748"W	56.05	50.667	2.18	2.15	2.14
3361.00	12.920	39.110	3354.71	1864.21	-11.37	50.61	55.55	1737958.97	412393.60	39°37'45.6733"N	80°19'6.7207"W	75.15	47.667	2.15	2.15	0.33
3454.00	14.060	38.600	3445.14	1954.64	-17.90	67.51	69.16	1737972.58	412410.49	39°37'45.8415"N	80°19'6.5487"W	96.65	45.694	1.23	1.23	-0.55
3547.00	15.580	36.080	3535.04	2044.54	-25.68	86.43	83.57	1737986.98	412429.41	39°37'46.0298"N	80°19'6.3669"W	120.22	44.035	1.77	1.63	-2.71
3641.00	14.310	31.340	3625.86	2135.36	-34.98	106.55	97.04	1738000.46	412449.54	39°37'46.2299"N	80°19'6.1970"W	144.12	42.325	1.87	-1.35	-5.04
3734.00	13.700	33.250	3716.10	2225.60	-44.16	125.58	109.06	1738012.47	412468.56	39°37'46.4190"N	80°19'6.0456"W	166.33	40.972	0.82	-0.66	2.05
3828.00	12.700	38.740	3807.62	2317.12	-51.66	142.95	121.63	1738025.04	412485.93	39°37'46.5918"N	80°19'5.8870"W	187.69	40.393	1.70	-1.06	5.84
3922.00	11.190	41.710	3899.58	2409.08	-57.10	157.82	134.16	1738037.58	412500.80	39°37'46.7399"N	80°19'5.7285"W	207.14	40.368	1.73	-1.61	-3.16
4015.00	10.980	36.650	3990.85	2500.35	-62.37	171.66	145.46	1738048.87	412514.64	39°37'46.8777"N	80°19'5.5858"W	225.00	40.276	1.07	-0.23	-5.44
4109.00	10.810	38.620	4083.15	2592.65	-68.08	185.73	156.30	1738059.71	412528.71	39°37'47.0177"N	80°19'5.4488"W	242.75	40.082	0.44	-0.18	2.10
4204.00	11.170	45.320	4176.42	2685.92	-72.56	199.16	168.41	1738071.82	412542.14	39°37'47.1515"N	80°19'5.2957"W	260.82	40.217	1.40	0.38	7.05
4297.00	11.450	48.540	4267.61	2777.11	-75.55	211.61	181.73	1738085.14	412554.59	39°37'47.2757"N	80°19'5.1269"W	278.93	40.656	0.74	0.30	3.46
4391.00	10.750	48.200	4359.85	2869.35	-78.06	223.63	195.26	1738098.66	412566.61	39°37'47.3957"N	80°19'4.9554"W	296.88	41.125	0.75	-0.74	-0.36

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Miracle Run 6H AWP Proj: 30512'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 6H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 6H AWB
Slot	Slot #06		

WELLPATH DATA (337 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]
4485.00	10.910	45.440	4452.18	2961.68	-81.00	235.72	208.13	1738111.54	412578.69	39°37'47.5163"N	80°19'4.7923"W	314.45	41.444	0.58	0.17	-2.94
4579.00	11.030	41.370	4544.46	3053.96	-85.01	248.71	220.41	1738123.82	412591.68	39°37'47.6458"N	80°19'4.6368"W	332.32	41.548	0.83	0.13	-4.33
4673.00	10.520	42.160	4636.80	3146.30	-89.44	261.81	232.11	1738135.52	412604.79	39°37'47.7764"N	80°19'4.4888"W	349.89	41.559	0.56	-0.54	0.84
4767.00	10.390	41.190	4729.24	3238.74	-93.77	274.55	243.46	1738146.86	412617.53	39°37'47.9033"N	80°19'4.3453"W	366.95	41.564	0.23	-0.14	-1.03
4862.00	10.180	35.720	4822.72	3332.22	-98.97	287.82	254.00	1738157.40	412630.79	39°37'48.0353"N	80°19'4.2121"W	383.87	41.428	1.05	-0.22	-5.76
4956.00	11.060	33.520	4915.11	3424.61	-105.40	302.08	263.83	1738167.23	412645.05	39°37'48.1772"N	80°19'4.0881"W	401.07	41.133	1.03	0.94	-2.34
5050.00	11.710	34.840	5007.28	3516.76	-112.41	317.42	274.26	1738177.66	412660.40	39°37'48.3298"N	80°19'3.9566"W	419.49	40.827	0.74	0.69	1.40
5144.00	12.140	37.430	5099.23	3608.73	-119.12	333.10	285.71	1738189.12	412676.07	39°37'48.4857"N	80°19'3.8120"W	438.85	40.621	0.73	0.46	2.76
5239.00	12.170	38.410	5192.10	3701.60	-125.45	348.88	298.01	1738201.41	412691.85	39°37'48.6428"N	80°19'3.6568"W	458.83	40.503	0.22	0.03	1.03
5333.00	12.500	39.000	5283.93	3793.43	-131.54	364.55	310.56	1738213.97	412707.52	39°37'48.7988"N	80°19'3.4981"W	478.90	40.428	0.38	0.35	0.63
5427.00	13.120	38.150	5375.59	3885.09	-137.91	380.85	323.56	1738226.96	412723.81	39°37'48.9610"N	80°19'3.3339"W	499.73	40.350	0.69	0.66	-0.90
5521.00	13.670	36.440	5467.03	3976.53	-145.03	398.17	336.74	1738240.14	412741.14	39°37'49.1334"N	80°19'3.1674"W	521.48	40.222	0.72	0.59	-1.82
5615.00	13.380	38.620	5558.43	4067.93	-152.13	415.61	350.13	1738253.53	412758.57	39°37'49.3069"N	80°19'2.9984"W	543.43	40.113	0.62	-0.31	2.32
5710.00	12.290	36.300	5651.05	4160.55	-158.96	432.34	362.98	1738266.38	412775.31	39°37'49.4734"N	80°19'2.8361"W	564.51	40.015	1.27	-1.15	-2.44
5804.00	12.410	35.800	5742.88	4252.38	-165.94	448.60	374.81	1738278.21	412791.56	39°37'49.6351"N	80°19'2.6868"W	584.57	39.879	0.17	0.13	-0.53
5898.00	13.550	34.540	5834.47	4343.97	-173.58	465.86	386.96	1738290.36	412808.82	39°37'49.8068"N	80°19'2.5335"W	605.61	39.714	1.25	1.21	-1.34
5992.00	13.760	34.800	5925.82	4435.32	-181.79	484.11	399.58	1738302.98	412827.07	39°37'49.9883"N	80°19'2.3743"W	627.72	39.536	0.23	0.22	0.28
6086.00	13.820	36.100	6017.11	4526.61	-189.79	502.36	412.58	1738315.97	412845.32	39°37'50.1699"N	80°19'2.2103"W	650.07	39.395	0.34	0.06	1.38
6180.00	13.200	41.600	6108.51	4618.01	-196.41	519.46	426.32	1738329.72	412862.42	39°37'50.3401"N	80°19'2.0367"W	672.00	39.376	1.52	-0.66	5.85
6274.00	12.810	43.730	6200.14	4709.64	-201.39	534.90	440.54	1738343.93	412877.86	39°37'50.4940"N	80°19'1.8568"W	692.96	39.474	0.81	-0.63	-2.27
6368.00	11.840	46.800	6292.01	4801.51	-205.24	548.92	454.66	1738358.05	412891.88	39°37'50.6337"N	80°19'1.6779"W	712.76	39.635	1.07	-0.82	3.27
6461.00	10.490	42.020	6383.25	4892.75	-208.93	561.74	467.29	1738370.68	412904.70	39°37'50.7616"N	80°19'1.5181"W	730.69	39.755	1.76	-1.45	-5.14
6554.00	10.710	38.350	6474.66	4984.16	-213.70	574.81	478.31	1738381.71	412917.76	39°37'50.8917"N	80°19'1.3786"W	747.79	39.765	0.76	0.24	-3.95
6648.00	10.410	37.180	6567.07	5076.57	-219.19	588.42	488.87	1738392.26	412931.38	39°37'51.0272"N	80°19'1.2453"W	765.00	39.720	0.39	-0.32	-1.24
6742.00	10.480	38.140	6659.51	5169.01	-224.66	601.91	499.28	1738402.67	412944.87	39°37'51.1615"N	80°19'1.1138"W	782.03	39.675	0.20	0.07	-1.02
6844.00	11.660	35.370	6759.61	5269.11	-231.25	617.61	510.97	1738414.36	412960.57	39°37'51.3177"N	80°19'0.9662"W	801.59	39.602	1.27	1.16	-2.72
6938.00	12.490	35.640	6851.53	5361.03	-238.26	633.62	522.40	1738425.78	412976.57	39°37'51.4769"N	80°19'0.8221"W	821.20	39.504	0.89	0.88	0.29
7032.00	12.100	37.410	6943.37	5452.87	-245.06	649.71	534.30	1738437.69	412992.66	39°37'51.6369"N	80°19'0.6718"W	841.19	39.433	0.58	-0.41	1.88
7126.00	13.530	39.240	7035.03	5544.53	-251.50	666.05	547.25	1738450.63	413009.00	39°37'51.7996"N	80°19'0.5082"W	862.03	39.407	1.58	1.52	1.95
7221.00	14.590	39.890	7127.18	5636.68	-258.16	683.84	561.95	1738465.33	413026.79	39°37'51.9767"N	80°19'0.3224"W	885.11	39.412	1.13	1.12	0.68

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Actual Wellpath Report

Miracle Run 6H AWP Proj: 30512'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 6H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 6H AWB
Slot	Slot #06		

WELLPATH DATA (337 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [ft]	Vert Sec [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]
7314.00	13.180	36.820	7217.47	5726.97	-265.03	701.31	575.82	1738479.20	413044.26	39°37'52.1507"N	80°19'0.1472"W	907.42	39.388	1.71	-1.52	-3.30
7416.00	12.700	34.400	7316.88	5826.38	-273.12	719.88	589.12	1738492.50	413062.82	39°37'52.3353"N	80°18'59.9793"W	930.21	39.296	0.71	-0.47	-2.37
7510.00	12.770	32.760	7408.56	5918.06	-281.15	737.14	600.58	1738503.96	413080.08	39°37'52.5069"N	80°18'59.8349"W	950.82	39.171	0.39	0.07	-1.74
7604.00	14.140	67.830	7500.13	6009.63	-283.03	750.23	616.86	1738520.24	413093.17	39°37'52.6378"N	80°18'59.6283"W	971.27	39.428	8.67	1.46	37.31
7699.00	14.900	117.210	7592.43	6101.93	-270.01	749.02	638.55	1738541.93	413091.96	39°37'52.6278"N	80°18'59.3510"W	984.26	40.448	12.68	0.80	51.98
7793.00	21.580	128.950	7681.69	6191.19	-242.92	732.60	662.78	1738566.16	413075.55	39°37'52.4677"N	80°18'59.0394"W	987.92	42.135	8.08	7.11	12.49
7887.00	29.740	131.920	7766.35	6275.85	-203.78	706.11	693.62	1738597.00	413049.06	39°37'52.2087"N	80°18'58.6421"W	989.80	44.489	8.79	8.68	3.16
7981.00	35.740	133.510	7845.38	6354.88	-154.40	671.60	730.91	1738634.29	413014.55	39°37'51.8710"N	80°18'58.1615"W	992.62	47.422	6.45	6.38	1.69
8075.00	43.620	134.290	7917.67	6427.17	-95.83	629.99	774.10	1738677.48	412972.95	39°37'51.4637"N	80°18'57.6047"W	998.06	50.860	8.40	8.38	0.83
8169.00	49.200	133.970	7982.46	6491.96	-29.33	582.61	822.98	1738726.33	412925.57	39°37'50.9998"N	80°18'56.9748"W	1008.31	54.703	5.94	5.94	-0.34
8262.00	57.690	137.520	8037.81	6547.31	44.04	529.08	874.94	1738778.30	412872.04	39°37'50.4754"N	80°18'56.3043"W	1022.47	58.838	9.63	9.13	3.82
8356.00	63.770	140.660	8083.76	6593.26	125.33	467.11	928.55	1738831.91	412810.07	39°37'49.8678"N	80°18'55.6119"W	1039.42	63.295	7.09	6.47	3.34
8449.00	71.550	142.850	8119.08	6628.58	211.00	399.58	981.72	1738885.08	412742.54	39°37'49.2052"N	80°18'54.9245"W	1059.92	67.853	8.64	8.37	2.35
8543.00	78.280	145.270	8143.53	6653.03	301.63	326.13	1034.93	1738938.29	412669.10	39°37'48.4841"N	80°18'54.2359"W	1085.10	72.509	7.58	7.16	2.57
8637.00	84.850	145.690	8157.32	6666.82	394.55	249.56	1087.59	1738990.94	412592.53	39°37'47.7321"N	80°18'53.5540"W	1115.86	77.077	7.00	6.99	0.45
8731.00	84.850	145.650	8165.75	6675.25	488.16	172.24	1140.39	1739043.74	412515.22	39°37'46.9728"N	80°18'52.8703"W	1153.32	81.411	0.04	0.00	-0.04
8825.00	87.810	146.110	8171.77	6681.27	581.96	94.59	1193.00	1739096.35	412437.58	39°37'46.2101"N	80°18'52.1889"W	1196.75	85.467	3.19	3.15	0.49
8919.00	91.050	146.070	8172.71	6682.21	675.94	16.59	1245.43	1739148.78	412359.58	39°37'45.4440"N	80°18'51.5097"W	1245.54	89.237	3.45	3.45	-0.04
9013.00	90.650	144.960	8171.31	6680.81	769.92	-60.88	1298.65	1739201.99	412282.12	39°37'44.6831"N	80°18'50.8207"W	1300.08	92.684	1.26	-0.43	-1.18
9108.00	90.680	144.760	8170.21	6679.71	864.88	-138.56	1353.33	1739256.66	412204.44	39°37'43.9203"N	80°18'50.1129"W	1360.40	95.846	0.21	0.03	-0.21
9202.00	90.680	145.080	8169.09	6678.59	958.84	-215.48	1407.34	1739310.68	412127.53	39°37'43.1650"N	80°18'49.4136"W	1423.75	98.705	0.34	0.00	0.34
9296.00	90.740	145.350	8167.93	6677.43	1052.81	-292.67	1460.97	1739364.30	412050.33	39°37'42.4069"N	80°18'48.7194"W	1489.99	101.328	0.29	0.06	0.29
9390.00	89.910	145.730	8167.39	6676.89	1146.80	-370.18	1514.15	1739417.48	411972.84	39°37'41.6458"N	80°18'48.0307"W	1558.75	103.738	0.97	-0.88	0.40
9484.00	89.970	148.090	8167.49	6676.99	1240.79	-448.93	1565.47	1739468.79	411894.09	39°37'40.8721"N	80°18'47.3657"W	1628.57	106.001	2.51	0.06	2.51
9577.00	90.180	146.100	8167.37	6676.87	1333.78	-527.00	1615.99	1739519.31	411816.02	39°37'40.1050"N	80°18'46.7111"W	1699.75	108.062	2.15	0.23	-2.14
9670.00	90.490	145.230	8166.83	6676.33	1426.77	-603.79	1668.44	1739571.76	411739.23	39°37'39.3508"N	80°18'46.0318"W	1774.34	109.895	0.99	0.33	-0.94
9763.00	90.340	145.210	8166.15	6675.65	1519.75	-680.18	1721.49	1739624.81	411662.85	39°37'38.6007"N	80°18'45.3451"W	1850.99	111.559	0.16	-0.16	-0.02
9856.00	90.580	146.030	8165.41	6674.91	1612.73	-756.93	1774.00	1739677.32	411586.11	39°37'37.8469"N	80°18'44.6651"W	1928.74	113.107	0.92	0.26	0.88
9950.00	90.860	145.130	8164.23	6673.73	1706.72	-834.46	1827.13	1739730.44	411508.58	39°37'37.0854"N	80°18'43.9771"W	2008.67	114.546	1.00	0.30	-0.96
10043.00	89.910	145.080	8163.60	6673.10	1799.69	-910.74	1880.33	1739783.64	411432.31	39°37'36.3363"N	80°18'43.2884"W	2089.28	115.843	1.02	-1.02	-0.05

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Actual Wellpath Report

Miracle Run 6H AWP Proj: 30512'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 6H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 6H AWB
Slot	Slot #06		

WELLPATH DATA (337 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [ft]	Vert Sec [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]
10231.00	89.480	145.210	8164.60	6674.10	1987.65	-1065.01	1987.78	1739891.07	411278.05	39°37'34.8214"N	80°18'41.8975"W	2255.10	118.182	0.24	-0.23	0.07
10325.00	89.850	144.520	8165.15	6674.65	2081.61	-1141.88	2041.87	1739945.17	411201.18	39°37'34.0665"N	80°18'41.1973"W	2339.47	119.215	0.83	0.39	-0.73
10418.00	89.910	146.590	8165.35	6674.85	2174.60	-1218.57	2094.47	1739997.76	411124.49	39°37'33.3133"N	80°18'40.5163"W	2423.16	120.191	2.23	0.06	2.23
10512.00	90.490	146.680	8165.02	6674.52	2268.59	-1297.08	2146.17	1740049.46	411045.99	39°37'32.5421"N	80°18'39.8466"W	2507.68	121.147	0.62	0.62	0.10
10604.00	90.400	146.460	8164.30	6673.80	2360.59	-1373.85	2196.85	1740100.14	410969.22	39°37'31.7878"N	80°18'39.1900"W	2581.07	122.021	0.26	-0.10	-0.24
10696.00	90.430	146.660	8163.64	6673.14	2452.59	-1450.62	2247.55	1740150.83	410892.46	39°37'31.0337"N	80°18'38.5333"W	2675.03	122.839	0.22	0.03	0.22
10789.00	90.460	146.600	8162.91	6672.41	2545.58	-1528.29	2298.70	1740201.98	410814.79	39°37'30.2707"N	80°18'37.8706"W	2760.38	123.618	0.07	0.03	-0.06
10882.00	89.600	144.120	8162.87	6672.37	2638.56	-1604.80	2351.56	1740254.83	410738.29	39°37'29.5193"N	80°18'37.1863"W	2846.96	124.311	2.82	-0.92	-2.67
10975.00	89.850	145.640	8163.31	6672.81	2731.53	-1680.86	2405.06	1740308.33	410662.23	39°37'28.7724"N	80°18'36.4938"W	2934.21	124.949	1.66	0.27	1.63
11067.00	89.660	146.930	8163.71	6673.21	2823.52	-1757.39	2456.12	1740359.39	410585.71	39°37'28.0207"N	80°18'35.8324"W	3020.09	125.584	1.42	-0.21	1.40
11160.00	89.820	146.960	8164.13	6673.63	2916.52	-1835.33	2506.85	1740410.11	410507.77	39°37'27.2549"N	80°18'35.1752"W	3106.88	126.209	0.18	0.17	0.03
11253.00	89.780	147.070	8164.45	6673.95	3009.51	-1913.34	2557.48	1740460.74	410429.76	39°37'26.4885"N	80°18'34.5192"W	3193.99	126.802	0.13	-0.04	0.12
11345.00	89.910	146.890	8164.70	6674.20	3101.51	-1990.48	2607.61	1740510.87	410352.63	39°37'25.7306"N	80°18'33.8696"W	3280.50	127.356	0.24	0.14	-0.20
11438.00	89.780	147.460	8164.95	6674.45	3194.50	-2068.63	2658.02	1740561.28	410274.48	39°37'24.9627"N	80°18'33.2164"W	3368.13	127.892	0.63	-0.14	0.61
11530.00	89.660	145.540	8165.40	6674.90	3286.49	-2145.35	2708.80	1740612.05	410197.78	39°37'24.2091"N	80°18'32.5587"W	3455.45	128.379	2.09	-0.13	-2.09
11623.00	90.150	148.480	8165.56	6675.06	3379.47	-2223.34	2759.43	1740662.68	410119.78	39°37'23.4428"N	80°18'31.9027"W	3543.69	128.859	3.20	0.53	3.16
11716.00	89.350	145.820	8165.96	6675.46	3472.45	-2301.46	2809.87	1740713.12	410041.67	39°37'22.6753"N	80°18'31.2491"W	3632.09	129.320	2.99	-0.86	-2.86
11809.00	89.910	147.400	8166.56	6676.06	3565.45	-2379.11	2861.05	1740764.30	409964.03	39°37'21.9125"N	80°18'30.5862"W	3720.99	129.745	1.80	0.60	1.70
11901.00	89.970	147.240	8166.66	6676.16	3657.44	-2456.54	2910.73	1740813.97	409886.60	39°37'21.1517"N	80°18'29.9425"W	3808.80	130.163	0.19	0.07	-0.17
11994.00	88.920	147.380	8167.56	6677.06	3750.42	-2534.81	2960.95	1740864.19	409808.34	39°37'20.3827"N	80°18'29.2916"W	3897.75	130.566	1.14	-1.13	0.15
12086.00	89.170	147.380	8169.09	6678.59	3842.39	-2612.29	3010.54	1740913.77	409730.86	39°37'19.6214"N	80°18'28.6491"W	3985.90	130.949	0.27	0.27	0.00
12178.00	89.450	146.280	8170.20	6679.70	3934.38	-2689.29	3060.87	1740964.10	409653.87	39°37'18.8649"N	80°18'27.9970"W	4074.46	131.303	1.23	0.30	-1.20
12270.00	89.350	147.510	8171.17	6680.67	4026.37	-2766.35	3111.11	1741014.34	409576.81	39°37'18.1078"N	80°18'27.3461"W	4163.14	131.643	1.34	-0.11	1.34
12362.00	89.630	147.400	8171.98	6681.48	4118.35	-2843.90	3160.60	1741063.83	409499.27	39°37'17.3458"N	80°18'26.7048"W	4251.73	131.981	0.33	0.30	-0.12
12455.00	88.800	147.100	8173.26	6682.78	4211.33	-2922.11	3210.91	1741114.13	409421.06	39°37'16.5774"N	80°18'26.0529"W	4341.50	132.304	0.95	-0.89	-0.32
12547.00	88.890	147.120	8175.11	6684.61	4303.30	-2999.34	3260.86	1741164.08	409343.83	39°37'15.8185"N	80°18'25.4058"W	4430.49	132.608	0.10	0.10	0.02
12640.00	88.830	146.570	8176.96	6686.46	4396.28	-3077.19	3311.71	1741214.93	409265.99	39°37'15.0537"N	80°18'24.7470"W	4520.68	132.898	0.59	-0.06	-0.59
12733.00	88.800	147.700	8178.89	6688.39	4489.25	-3155.29	3362.17	1741265.38	409187.90	39°37'14.2864"N	80°18'24.0933"W	4610.86	133.182	1.22	-0.03	1.22
12825.00	88.740	147.220	8180.86	6690.36	4581.21	-3232.82	3411.64	1741314.85	409110.36	39°37'13.5245"N	80°18'23.4522"W	4700.05	133.458	0.53	-0.07	-0.52
12917.00	88.950	147.140	8182.72	6692.22	4673.18	-3310.12	3461.49	1741364.70	409033.07	39°37'12.7650"N	80°18'22.8063"W	4789.45	133.719	0.24	0.23	-0.09

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Actual Wellpath Report

Miracle Run 6H AWP Proj: 30512'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 6H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 6H AWB
Slot	Slot #06		

WELLPATH DATA (337 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [ft]	Vert Sec [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]
13010.00	88.980	147.300	8184.40	6693.90	4766.16	-3388.30	3511.84	1741415.04	408954.90	39°37'11.9969"N	80°18'22.1540"W	4879.92	133.974	0.18	0.03	0.17
13102.00	88.860	147.270	8186.13	6695.63	4858.13	-3465.69	3561.55	1741464.75	408877.51	39°37'11.2365"N	80°18'21.5098"W	4969.47	134.218	0.13	-0.13	-0.03
13195.00	88.430	146.440	8188.33	6697.83	4951.10	-3543.54	3612.38	1741515.58	408799.67	39°37'10.4717"N	80°18'20.8513"W	5060.24	134.449	1.00	-0.46	-0.89
13288.00	88.490	146.260	8190.83	6700.33	5044.07	-3620.93	3663.90	1741567.09	408722.28	39°37'9.7114"N	80°18'20.1842"W	5151.24	134.662	0.20	0.06	-0.19
13382.00	88.950	145.840	8192.93	6702.43	5138.04	-3698.88	3716.38	1741619.57	408644.33	39°37'8.9457"N	80°18'19.5046"W	5243.40	134.865	0.66	0.49	-0.45
13474.00	88.890	145.780	8194.66	6704.16	5230.02	-3774.97	3768.07	1741671.26	408568.25	39°37'8.1983"N	80°18'18.8354"W	5333.74	135.052	0.09	-0.07	-0.07
13568.00	88.200	146.660	8196.23	6705.73	5324.01	-3853.09	3820.33	1741723.51	408490.14	39°37'7.4309"N	80°18'18.1587"W	5425.97	135.245	0.99	0.33	0.94
13660.00	88.860	146.030	8197.79	6707.29	5415.99	-3929.66	3871.31	1741774.49	408413.57	39°37'6.6788"N	80°18'17.4985"W	5516.27	135.429	0.78	-0.37	-0.68
13753.00	88.830	146.180	8199.66	6709.16	5508.97	-4006.84	3923.16	1741826.34	408336.40	39°37'5.9206"N	80°18'16.8271"W	5607.67	135.605	0.16	-0.03	0.16
13845.00	90.220	146.190	8200.42	6709.92	5600.97	-4083.27	3974.36	1741877.53	408259.97	39°37'5.1698"N	80°18'16.1641"W	5698.12	135.774	1.51	1.51	0.01
13938.00	89.170	146.190	8200.92	6710.42	5693.96	-4160.54	4026.10	1741929.28	408182.70	39°37'4.4107"N	80°18'15.4941"W	5789.61	135.941	1.13	-1.13	0.00
14030.00	87.810	146.190	8203.34	6712.84	5785.93	-4236.95	4077.28	1741980.45	408106.30	39°37'3.6601"N	80°18'14.8314"W	5880.13	136.100	1.48	-1.48	0.00
14123.00	87.660	146.490	8207.02	6716.52	5878.86	-4314.30	4128.78	1742031.95	408028.95	39°37'2.9003"N	80°18'14.1644"W	5971.60	136.259	0.36	-0.16	0.32
14215.00	88.650	146.530	8209.98	6719.48	5970.81	-4390.99	4179.52	1742082.68	407952.27	39°37'2.1469"N	80°18'13.5073"W	6062.11	136.413	1.08	1.08	0.04
14308.00	88.890	146.460	8211.98	6721.48	6063.78	-4468.52	4230.85	1742134.01	407874.75	39°37'1.3853"N	80°18'12.8426"W	6153.67	136.565	0.27	0.26	-0.06
14401.00	88.610	146.180	8214.01	6723.51	6156.76	-4545.89	4282.41	1742185.56	407797.38	39°37'0.6252"N	80°18'12.1749"W	6245.33	136.709	0.43	-0.30	-0.30
14494.00	88.000	146.410	8216.76	6726.26	6249.72	-4623.22	4333.99	1742237.15	407720.05	39°36'59.8655"N	80°18'11.5070"W	6337.01	136.849	0.70	-0.66	0.28
14587.00	88.280	146.090	8219.77	6729.27	6342.67	-4700.51	4385.63	1742288.78	407642.77	39°36'59.1063"N	80°18'10.8383"W	6428.73	136.985	0.46	0.30	-0.34
14680.00	88.370	146.070	8222.49	6731.99	6435.63	-4777.65	4437.51	1742340.65	407565.64	39°36'58.3485"N	80°18'10.1666"W	6520.53	137.114	0.10	0.10	-0.02
14773.00	88.340	146.200	8225.16	6734.66	6528.59	-4854.84	4489.31	1742392.45	407488.45	39°36'57.5902"N	80°18'9.4959"W	6612.36	137.240	0.14	-0.03	0.14
14865.00	88.210	146.050	8227.93	6737.43	6620.55	-4931.19	4540.56	1742443.71	407412.11	39°36'56.8402"N	80°18'8.8322"W	6703.23	137.362	0.22	-0.14	-0.16
14958.00	88.210	146.240	8230.84	6740.34	6713.50	-5008.38	4592.35	1742495.49	407334.92	39°36'56.0819"N	80°18'8.1617"W	6795.11	137.481	0.20	0.00	0.20
15051.00	88.770	146.370	8233.29	6742.79	6806.47	-5085.73	4643.92	1742547.06	407257.57	39°36'55.3221"N	80°18'7.4939"W	6886.99	137.600	0.62	0.60	0.14
15144.00	88.920	146.210	8235.16	6744.66	6899.45	-5163.08	4695.53	1742598.66	407180.23	39°36'54.5622"N	80°18'6.8257"W	6978.92	137.715	0.24	0.16	-0.17
15237.00	88.770	146.110	8237.04	6746.54	6992.43	-5240.31	4747.31	1742650.44	407103.01	39°36'53.8036"N	80°18'6.1553"W	7070.91	137.826	0.19	-0.16	-0.11
15423.00	88.860	146.280	8240.88	6750.38	7178.39	-5394.83	4850.77	1742753.89	406948.49	39°36'52.2856"N	80°18'4.8156"W	7254.94	138.040	0.10	0.05	0.09
15516.00	88.980	146.360	8242.64	6752.14	7271.37	-5472.20	4902.33	1742805.45	406871.12	39°36'51.5255"N	80°18'4.1480"W	7346.96	138.144	0.16	0.13	0.09
15609.00	88.890	146.440	8244.37	6753.87	7364.36	-5549.65	4953.79	1742856.91	406793.68	39°36'50.7647"N	80°18'3.4816"W	7439.00	138.247	0.13	-0.10	0.09
15702.00	89.380	146.210	8245.77	6755.27	7457.35	-5627.04	5005.35	1742908.46	406716.30	39°36'50.0044"N	80°18'2.8140"W	7531.07	138.346	0.58	0.53	-0.25
15795.00	89.540	146.550	8246.65	6756.15	7550.34	-5704.48	5056.84	1742959.95	406638.86	39°36'49.2437"N	80°18'2.1473"W	7623.17	138.444	0.40	0.17	0.37

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 6H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 6H AWB
Slot	Slot #06		

WELLPATH DATA (337 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]
15888.00	89.320	145.650	8247.57	6757.07	7643.34	-5781.66	5108.71	1743011.81	406561.68	39°36'48.4854"N	80°18'1.4758"W	7715.34	138.536	1.00	-0.24	-0.97
15980.00	88.210	146.200	8249.55	6759.05	7735.31	-5857.85	5160.24	1743063.34	406485.50	39°36'47.7371"N	80°18'0.8086"W	7806.56	138.623	1.35	-1.21	0.60
16073.00	89.010	146.180	8251.81	6761.31	7828.28	-5935.10	5211.97	1743115.07	406408.26	39°36'46.9782"N	80°18'0.1388"W	7898.74	138.712	0.86	0.86	-0.02
16165.00	88.860	146.220	8253.52	6763.02	7920.27	-6011.53	5263.14	1743166.24	406331.82	39°36'46.2273"N	80°17'59.4763"W	7989.94	138.798	0.17	-0.16	0.04
16257.00	88.980	146.370	8255.25	6764.75	8012.25	-6088.08	5314.19	1743217.28	406255.31	39°36'45.4756"N	80°17'58.8154"W	8081.15	138.883	0.21	0.13	0.16
16350.00	88.980	146.460	8256.91	6766.41	8105.23	-6165.52	5365.62	1743268.72	406177.85	39°36'44.7145"N	80°17'58.1494"W	8173.34	138.968	0.10	0.00	0.10
16443.00	88.770	146.200	8258.74	6768.24	8198.22	-6242.90	5417.17	1743320.26	406100.47	39°36'43.9543"N	80°17'57.4819"W	8265.57	139.051	0.36	-0.23	-0.28
16536.00	90.890	146.760	8259.01	6768.51	8291.21	-6320.43	5468.53	1743371.61	406022.95	39°36'43.1927"N	80°17'56.8170"W	8357.79	139.133	2.36	2.28	0.60
16629.00	90.490	146.100	8257.89	6767.39	8384.20	-6397.91	5519.95	1743423.03	405945.47	39°36'42.4314"N	80°17'56.1512"W	8450.04	139.213	0.83	-0.43	-0.71
16722.00	90.890	146.570	8256.77	6766.27	8477.20	-6475.31	5571.50	1743474.58	405868.08	39°36'41.6711"N	80°17'55.4837"W	8542.32	139.291	0.66	0.43	0.51
16815.00	90.590	146.560	8255.57	6765.07	8570.19	-6552.91	5622.74	1743525.81	405790.48	39°36'40.9087"N	80°17'54.8202"W	8634.57	139.369	0.32	-0.32	-0.01
16907.00	90.770	146.150	8254.48	6763.98	8662.18	-6629.50	5673.70	1743576.78	405713.90	39°36'40.1563"N	80°17'54.1603"W	8725.89	139.442	0.49	0.20	-0.45
17001.00	91.170	146.200	8252.89	6762.39	8756.17	-6707.57	5726.02	1743629.09	405635.83	39°36'39.3893"N	80°17'53.4830"W	8819.23	139.514	0.43	0.43	0.05
17093.00	90.830	146.370	8251.28	6760.78	8848.15	-6784.09	5777.08	1743680.15	405559.32	39°36'38.6376"N	80°17'52.8219"W	8910.58	139.584	0.41	-0.37	0.18
17187.00	90.680	145.640	8250.04	6759.54	8942.14	-6862.02	5829.63	1743732.70	405481.39	39°36'37.8721"N	80°17'52.1416"W	9003.99	139.650	0.79	-0.16	-0.78
17279.00	90.340	146.490	8249.22	6758.72	9034.14	-6938.34	5880.99	1743784.05	405405.07	39°36'37.1223"N	80°17'51.4768"W	9095.42	139.715	1.00	-0.37	0.92
17372.00	90.490	146.000	8248.55	6758.05	9127.13	-7015.66	5932.66	1743835.72	405327.76	39°36'36.3627"N	80°17'50.8078"W	9187.82	139.781	0.55	0.16	-0.53
17464.00	90.370	146.150	8247.86	6757.36	9219.13	-7092.00	5984.01	1743887.06	405251.43	39°36'35.6128"N	80°17'50.1431"W	9279.27	139.843	0.21	-0.13	0.16
17556.00	90.520	146.730	8247.15	6756.65	9311.12	-7168.66	6034.86	1743937.91	405174.77	39°36'34.8597"N	80°17'49.4847"W	9370.66	139.908	0.65	0.16	0.63
17649.00	90.370	145.850	8246.42	6755.92	9404.12	-7246.02	6086.48	1743989.52	405097.41	39°36'34.0997"N	80°17'48.8165"W	9463.09	139.971	0.96	-0.16	-0.95
17741.00	90.400	146.130	8245.80	6755.30	9496.12	-7322.28	6137.93	1744040.98	405021.16	39°36'33.3505"N	80°17'48.1504"W	9554.58	140.028	0.31	0.03	0.30
17834.00	91.480	146.290	8244.28	6753.78	9589.10	-7399.56	6189.65	1744092.69	404943.88	39°36'32.5914"N	80°17'47.4809"W	9647.03	140.088	1.17	1.16	0.17
17927.00	91.600	145.970	8241.78	6751.28	9682.07	-7476.75	6241.46	1744144.50	404866.70	39°36'31.8330"N	80°17'46.8102"W	9739.49	140.145	0.37	0.13	-0.34
18020.00	93.390	145.800	8237.73	6747.23	9774.97	-7553.67	6293.57	1744196.60	404789.78	39°36'31.0774"N	80°17'46.1357"W	9831.93	140.200	1.93	1.92	-0.18
18112.00	92.830	146.440	8232.74	6742.24	9866.84	-7629.93	6344.78	1744247.81	404713.52	39°36'30.3282"N	80°17'45.4728"W	9923.31	140.254	0.92	-0.61	0.70
18205.00	92.770	144.280	8228.20	6737.70	9959.70	-7706.35	6397.57	1744300.60	404637.11	39°36'29.5776"N	80°17'44.7896"W	10015.83	140.302	2.32	-0.06	-2.32
18297.00	92.960	146.100	8223.60	6733.10	10051.57	-7781.79	6450.02	1744353.05	404561.67	39°36'28.8367"N	80°17'44.1109"W	10107.38	140.346	1.99	0.21	1.98
18391.00	94.500	148.230	8217.48	6726.98	10145.36	-7859.71	6502.25	1744405.27	404483.77	39°36'28.0713"N	80°17'43.4348"W	10200.70	140.399	1.64	1.64	0.14
18484.00	95.460	146.050	8209.41	6718.91	10238.01	-7936.64	6553.87	1744456.89	404406.84	39°36'27.3155"N	80°17'42.7666"W	10292.89	140.451	1.05	1.03	-0.19
18577.00	94.470	148.640	8201.36	6710.86	10330.66	-8013.76	6605.22	1744508.23	404329.72	39°36'26.5578"N	80°17'42.1019"W	10385.05	140.503	1.24	-1.06	0.63

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Slot	Slot #06		

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18763.00	93.480	146.130	8188.47	6697.97	10516.21	-8168.28	6707.94	1744610.95	404175.21	39°36'25.0397"N	80°17'40.7720"W	10569.64	140.607	0.60	-0.53	-0.27
18856.00	94.160	145.640	8182.27	6691.77	10609.00	-8245.11	6759.98	1744662.99	404098.39	39°36'24.2851"N	80°17'40.0984"W	10662.04	140.652	0.90	0.73	-0.53
18949.00	94.280	146.110	8175.43	6684.93	10701.74	-8321.88	6812.01	1744715.02	404021.62	39°36'23.5308"N	80°17'39.4250"W	10754.41	140.697	0.52	0.13	0.51
19043.00	94.590	146.240	8168.16	6677.66	10795.46	-8399.74	6864.18	1744767.18	403943.76	39°36'22.7660"N	80°17'38.7497"W	10847.70	140.745	0.36	0.33	0.14
19136.00	95.310	146.020	8160.13	6669.63	10888.11	-8476.67	6915.82	1744818.82	403866.84	39°36'22.0102"N	80°17'38.0813"W	10939.95	140.790	0.81	0.77	-0.24
19229.00	94.900	145.750	8151.86	6661.36	10980.74	-8553.36	6967.77	1744870.76	403790.15	39°36'21.2569"N	80°17'37.4089"W	11032.22	140.833	0.53	-0.44	-0.29
19321.00	94.990	146.350	8143.93	6653.43	11072.40	-8629.39	7018.96	1744921.95	403714.13	39°36'20.5099"N	80°17'36.7463"W	11123.50	140.876	0.66	0.10	0.65
19415.00	95.090	146.350	8135.67	6645.17	11166.03	-8707.34	7070.85	1744973.83	403636.18	39°36'19.7441"N	80°17'36.0747"W	11216.71	140.921	0.11	0.11	0.00
19507.00	93.480	146.630	8128.80	6638.30	11257.77	-8783.83	7121.49	1745024.48	403559.70	39°36'18.9926"N	80°17'35.4190"W	11308.02	140.967	1.78	-1.75	0.30
19601.00	93.670	146.200	8122.94	6632.44	11351.59	-8861.99	7173.39	1745076.37	403481.55	39°36'18.2248"N	80°17'34.7471"W	11401.42	141.011	0.50	0.20	-0.46
19693.00	92.520	146.310	8117.97	6627.47	11443.45	-8938.37	7224.42	1745127.40	403405.16	39°36'17.4743"N	80°17'34.0865"W	11492.90	141.053	1.26	-1.25	0.12
19786.00	92.590	146.040	8113.82	6623.32	11536.36	-9015.55	7276.14	1745179.11	403327.99	39°36'16.7161"N	80°17'33.4171"W	11585.44	141.094	0.30	0.08	-0.29
19879.00	92.520	147.170	8109.68	6619.18	11629.26	-9093.12	7327.27	1745230.25	403250.43	39°36'15.9540"N	80°17'32.7551"W	11677.92	141.138	1.22	-0.08	1.22
19972.00	90.250	147.870	8107.43	6616.93	11722.21	-9171.55	7377.20	1745280.17	403172.01	39°36'15.1833"N	80°17'32.1084"W	11770.31	141.188	2.55	-2.44	0.75
20065.00	90.180	147.250	8107.08	6616.58	11815.19	-9250.03	7427.08	1745330.05	403093.52	39°36'14.4120"N	80°17'31.4623"W	11862.74	141.238	0.67	-0.08	-0.67
20158.00	89.820	147.040	8107.08	6616.58	11908.18	-9328.16	7477.54	1745380.50	403015.40	39°36'13.6443"N	80°17'30.8089"W	11955.25	141.284	0.45	-0.39	-0.23
20250.00	90.340	147.260	8106.95	6616.45	12000.17	-9405.45	7527.44	1745430.40	402938.12	39°36'12.8848"N	80°17'30.1626"W	12046.77	141.329	0.61	0.57	0.24
20343.00	88.120	146.840	8108.20	6617.70	12093.15	-9483.47	7578.02	1745480.97	402860.10	39°36'12.1181"N	80°17'29.5077"W	12139.30	141.372	2.43	-2.39	-0.45
20437.00	88.950	147.110	8110.60	6620.10	12187.12	-9562.26	7629.23	1745532.18	402781.32	39°36'11.3440"N	80°17'28.8446"W	12232.82	141.415	0.93	0.88	0.29
20530.00	88.950	147.170	8112.31	6621.81	12280.09	-9640.37	7679.68	1745582.63	402703.21	39°36'10.5764"N	80°17'28.1912"W	12325.35	141.459	0.06	0.00	0.06
20623.00	88.830	147.040	8114.11	6623.61	12373.07	-9718.44	7730.18	1745633.13	402625.14	39°36'9.8093"N	80°17'27.5373"W	12417.88	141.501	0.19	-0.13	-0.14
20716.00	88.950	146.860	8115.91	6625.41	12466.04	-9796.38	7780.89	1745683.83	402547.21	39°36'9.0434"N	80°17'26.8807"W	12510.45	141.541	0.23	0.13	-0.19
20809.00	88.860	147.450	8117.69	6627.19	12559.02	-9874.50	7831.32	1745734.26	402469.10	39°36'8.2758"N	80°17'26.2276"W	12602.99	141.583	0.64	-0.10	0.63
20902.00	88.520	147.050	8119.82	6629.32	12651.98	-9952.69	7881.62	1745784.56	402390.91	39°36'7.5074"N	80°17'25.5763"W	12695.51	141.624	0.56	-0.37	-0.43
20995.00	88.550	147.170	8122.19	6631.69	12744.94	-10030.76	7932.10	1745835.04	402312.84	39°36'6.7403"N	80°17'24.9225"W	12788.06	141.664	0.13	0.03	0.13
21088.00	88.550	147.240	8124.55	6634.05	12837.90	-10108.91	7982.46	1745885.39	402234.70	39°36'5.9723"N	80°17'24.2705"W	12880.60	141.704	0.08	0.00	0.08
21181.00	88.800	147.420	8126.70	6636.20	12930.87	-10187.18	8032.65	1745935.58	402156.44	39°36'5.2032"N	80°17'23.6205"W	12973.13	141.744	0.33	0.27	0.19
21274.00	89.050	147.300	8128.44	6637.94	13023.84	-10265.48	8082.80	1745985.72	402078.14	39°36'4.4338"N	80°17'22.9710"W	13065.67	141.784	0.30	0.27	-0.13
21367.00	89.570	147.110	8129.56	6639.06	13116.82	-10343.65	8133.17	1746036.09	401999.97	39°36'3.6656"N	80°17'22.3188"W	13158.25	141.822	0.60	0.56	-0.20
21460.00	89.880	146.920	8130.01	6639.51	13209.81	-10421.66	8183.80	1746086.72	401921.97	39°36'2.8991"N	80°17'21.6632"W	13250.87	141.859	0.39	0.33	-0.20

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Actual Wellpath Report

Miracle Run 6H AWP Proj: 30512'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 6H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 6H AWB
Slot	Slot #06		

WELLPATH DATA (337 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]
21553.00	90.310	147.400	8129.85	6639.35	13302.80	-10499.79	8234.23	1746137.15	401843.84	39°36'2.1313"N	80°17'21.0102"W	13343.47	141.895	0.69	0.46	0.52
21647.00	90.120	147.090	8129.50	6639.00	13396.79	-10578.85	8285.09	1746188.00	401764.79	39°36'1.3544"N	80°17'20.3516"W	13437.06	141.933	0.39	-0.20	-0.33
21740.00	90.030	147.150	8129.38	6638.88	13489.78	-10656.95	8335.58	1746238.49	401686.69	39°36'0.5869"N	80°17'19.6978"W	13529.69	141.968	0.12	-0.10	0.06
21832.00	90.180	146.190	8129.21	6638.71	13581.78	-10733.82	8386.13	1746289.03	401609.83	39°35'59.8317"N	80°17'19.0434"W	13621.38	142.000	1.06	0.16	-1.04
21925.00	90.280	145.890	8128.84	6638.34	13674.78	-10810.95	8438.08	1746340.98	401532.70	39°35'59.0739"N	80°17'18.3711"W	13714.15	142.028	0.34	0.11	-0.32
22019.00	90.620	145.920	8128.10	6637.60	13768.77	-10888.79	8490.77	1746393.67	401454.87	39°35'58.3092"N	80°17'17.6893"W	13807.93	142.054	0.36	0.36	0.03
22113.00	90.120	145.720	8127.49	6636.99	13862.77	-10966.55	8543.58	1746446.47	401377.11	39°35'57.5453"N	80°17'17.0060"W	13901.73	142.079	0.57	-0.53	-0.21
22207.00	90.680	145.590	8126.84	6636.34	13956.76	-11044.16	8596.61	1746499.50	401299.50	39°35'56.7829"N	80°17'16.3198"W	13995.54	142.103	0.61	0.60	-0.14
22300.00	89.350	144.960	8126.81	6636.31	14049.74	-11120.60	8649.58	1746552.47	401223.07	39°35'56.0321"N	80°17'15.6345"W	14088.40	142.124	1.58	-1.43	-0.68
22393.00	90.220	146.260	8127.16	6636.66	14142.72	-11197.34	8702.11	1746605.00	401146.34	39°35'55.2783"N	80°17'14.9549"W	14181.22	142.147	1.68	0.94	1.40
22486.00	89.940	145.820	8127.03	6636.53	14235.72	-11274.48	8754.06	1746656.94	401069.20	39°35'54.5204"N	80°17'14.2826"W	14274.01	142.172	0.56	-0.30	-0.47
22580.00	90.650	146.350	8126.55	6636.05	14329.72	-11352.48	8806.51	1746709.39	400991.20	39°35'53.7541"N	80°17'13.6039"W	14367.79	142.198	0.94	0.76	0.56
22672.00	89.970	146.590	8126.05	6635.55	14421.72	-11429.17	8857.32	1746760.20	400914.52	39°35'53.0006"N	80°17'12.9461"W	14459.53	142.225	0.78	-0.74	0.26
22765.00	90.550	146.290	8125.63	6635.13	14514.72	-11506.67	8908.73	1746811.61	400837.03	39°35'52.2392"N	80°17'12.2807"W	14552.28	142.252	0.70	0.62	-0.32
22857.00	90.310	146.170	8124.94	6634.44	14606.71	-11583.14	8959.87	1746862.74	400760.56	39°35'51.4878"N	80°17'11.6189"W	14644.06	142.277	0.29	-0.26	-0.13
22951.00	90.710	145.920	8124.10	6633.60	14700.71	-11661.11	9012.37	1746915.24	400682.59	39°35'50.7218"N	80°17'10.9395"W	14737.85	142.301	0.50	0.43	-0.27
23044.00	90.280	145.900	8123.30	6632.80	14793.70	-11738.13	9064.50	1746967.36	400605.58	39°35'49.9652"N	80°17'10.2650"W	14830.67	142.324	0.46	-0.46	-0.02
23138.00	90.520	146.230	8122.64	6632.14	14887.70	-11816.11	9116.97	1747019.83	400527.60	39°35'49.1991"N	80°17'9.5860"W	14924.47	142.347	0.43	0.26	0.35
23231.00	90.520	146.050	8121.80	6631.30	14980.69	-11893.34	9168.79	1747071.64	400450.38	39°35'48.4404"N	80°17'8.9155"W	15017.26	142.371	0.19	0.00	-0.19
23324.00	90.550	146.480	8120.93	6630.43	15073.69	-11970.67	9220.43	1747123.29	400373.05	39°35'47.6805"N	80°17'8.2471"W	15110.04	142.395	0.46	0.03	0.46
23417.00	90.400	146.030	8120.16	6629.66	15166.68	-12048.00	9272.09	1747174.94	400295.73	39°35'46.9208"N	80°17'7.5786"W	15202.83	142.418	0.51	-0.16	-0.48
23510.00	90.370	146.070	8119.53	6629.03	15259.68	-12125.15	9324.03	1747226.88	400218.59	39°35'46.1629"N	80°17'6.9065"W	15295.64	142.440	0.05	-0.03	0.04
23603.00	90.580	146.110	8118.76	6628.26	15352.68	-12202.33	9375.91	1747278.75	400141.41	39°35'45.4046"N	80°17'6.2351"W	15388.45	142.462	0.23	0.23	0.04
23698.00	90.860	146.130	8117.57	6627.07	15447.67	-12281.19	9428.86	1747331.71	400062.55	39°35'44.6298"N	80°17'5.5499"W	15483.25	142.485	0.30	0.29	0.02
23789.00	90.980	145.880	8116.11	6625.61	15538.65	-12356.63	9479.74	1747382.58	399987.12	39°35'43.8887"N	80°17'4.8916"W	15574.07	142.505	0.30	0.13	-0.27
23883.00	90.990	146.170	8114.49	6623.99	15632.64	-12434.57	9532.26	1747435.09	399909.19	39°35'43.1230"N	80°17'4.2120"W	15667.88	142.526	0.31	0.01	0.31
23978.00	90.920	146.420	8112.91	6622.41	15727.62	-12513.59	9584.97	1747487.80	399830.17	39°35'42.3466"N	80°17'3.5298"W	15762.66	142.549	0.27	-0.07	0.26
24072.00	90.950	145.990	8111.37	6620.87	15821.61	-12591.69	9637.25	1747540.08	399752.07	39°35'41.5792"N	80°17'2.8533"W	15856.46	142.571	0.46	0.03	-0.46
24167.00	90.710	146.090	8110.00	6619.50	15916.60	-12670.48	9690.31	1747593.14	399673.29	39°35'40.8052"N	80°17'2.1667"W	15951.27	142.591	0.27	-0.25	0.11
24260.00	89.970	145.620	8109.44	6618.94	16009.59	-12747.45	9742.51	1747645.33	399596.32	39°35'40.0490"N	80°17'1.4914"W	16044.12	142.610	0.94	-0.80	-0.51

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Actual Wellpath Report

Miracle Run 6H AWP Proj: 30512'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 6H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 6H AWB
Slot	Slot #06		

WELLPATH DATA (337 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]
24355.00	89.880	145.570	8109.57	6619.07	16104.58	-12825.83	9796.19	1747699.01	399517.95	39°35'39.2790"N	80°17'0.7970"W	16138.99	142.628	0.11	-0.09	-0.05
24449.00	90.250	145.960	8109.46	6618.96	16198.58	-12903.54	9849.07	1747751.89	399440.24	39°35'38.5156"N	80°17'0.1128"W	16232.85	142.646	0.57	0.35	0.41
24543.00	90.310	146.200	8109.00	6618.50	16292.58	-12981.54	9901.52	1747804.34	399362.24	39°35'37.7493"N	80°16'59.4341"W	16326.68	142.666	0.26	0.06	0.26
24637.00	90.740	146.160	8108.14	6617.64	16386.57	-13059.63	9953.84	1747856.65	399284.16	39°35'36.9820"N	80°16'58.7571"W	16420.50	142.686	0.46	0.46	-0.04
24732.00	90.710	146.090	8106.94	6616.44	16481.56	-13138.50	10006.79	1747909.59	399205.29	39°35'36.2072"N	80°16'58.0720"W	16515.33	142.706	0.08	-0.03	-0.07
24826.00	90.680	145.880	8105.80	6615.30	16575.55	-13216.41	10059.37	1747962.17	399127.39	39°35'35.4417"N	80°16'57.3916"W	16609.17	142.724	0.23	-0.03	-0.22
24919.00	90.680	146.060	8104.70	6614.20	16668.55	-13293.48	10111.41	1748014.21	399050.33	39°35'34.6846"N	80°16'56.7183"W	16702.01	142.742	0.19	0.00	0.19
25013.00	90.620	146.230	8103.63	6613.13	16762.54	-13371.54	10163.77	1748066.57	398972.27	39°35'33.9177"N	80°16'56.0408"W	16795.84	142.761	0.19	-0.06	0.18
25107.00	91.290	145.960	8102.06	6611.56	16856.52	-13449.54	10216.20	1748118.99	398894.27	39°35'33.1513"N	80°16'55.3624"W	16889.67	142.780	0.77	0.71	-0.29
25201.00	91.290	146.120	8099.95	6609.45	16950.50	-13527.49	10268.70	1748171.49	398816.33	39°35'32.3855"N	80°16'54.6832"W	16983.49	142.798	0.17	0.00	0.17
25295.00	90.550	146.220	8098.44	6607.94	17044.48	-13605.56	10321.02	1748223.81	398738.26	39°35'31.6184"N	80°16'54.0061"W	17077.32	142.816	0.79	-0.79	0.11
25389.00	90.680	146.230	8097.43	6606.93	17138.48	-13683.69	10373.28	1748276.06	398660.13	39°35'30.8507"N	80°16'53.3300"W	17171.15	142.835	0.14	0.14	0.01
25483.00	90.770	146.190	8096.24	6605.74	17232.47	-13761.81	10425.55	1748328.33	398582.02	39°35'30.0833"N	80°16'52.6536"W	17264.98	142.853	0.10	0.10	-0.04
25577.00	90.680	145.930	8095.05	6604.55	17326.46	-13839.79	10478.03	1748380.81	398504.05	39°35'29.3171"N	80°16'51.9746"W	17358.82	142.871	0.29	-0.10	-0.28
25671.00	90.770	146.190	8093.86	6603.36	17420.45	-13917.77	10530.51	1748433.28	398426.08	39°35'28.5510"N	80°16'51.2956"W	17452.67	142.888	0.29	0.10	0.28
25765.00	90.830	146.250	8092.55	6602.05	17514.44	-13995.89	10582.77	1748485.54	398347.96	39°35'27.7834"N	80°16'50.6194"W	17546.51	142.906	0.09	0.06	0.06
25859.00	91.230	145.920	8090.86	6600.36	17608.43	-14073.88	10635.21	1748537.97	398269.97	39°35'27.0171"N	80°16'49.9409"W	17640.35	142.923	0.55	0.43	-0.35
25953.00	91.280	145.990	8088.82	6598.32	17702.40	-14151.75	10687.82	1748590.58	398192.10	39°35'26.2521"N	80°16'49.2602"W	17734.19	142.939	0.08	0.03	0.07
26047.00	91.170	145.820	8086.82	6596.32	17796.38	-14229.58	10740.50	1748643.26	398114.28	39°35'25.4875"N	80°16'48.5787"W	17828.05	142.954	0.20	-0.10	-0.18
26141.00	90.710	146.100	8085.28	6594.78	17890.36	-14307.46	10793.11	1748695.87	398036.41	39°35'24.7223"N	80°16'47.8980"W	17921.90	142.970	0.57	-0.48	0.30
26236.00	90.800	146.000	8084.03	6593.53	17985.35	-14386.26	10846.16	1748748.92	397957.61	39°35'23.9482"N	80°16'47.2117"W	18016.76	142.986	0.14	0.09	-0.11
26329.00	90.920	146.930	8082.63	6592.13	18078.34	-14463.77	10897.53	1748800.29	397880.11	39°35'23.1866"N	80°16'46.5469"W	18109.58	143.004	1.01	0.13	1.00
26421.00	91.020	146.910	8081.07	6590.57	18170.32	-14540.84	10947.74	1748850.49	397803.04	39°35'22.4291"N	80°16'45.8971"W	18201.35	143.024	0.11	0.11	-0.02
26514.00	90.890	147.120	8079.52	6589.02	18263.31	-14618.84	10998.36	1748901.11	397725.04	39°35'21.6627"N	80°16'45.2418"W	18294.11	143.044	0.27	-0.14	0.23
26608.00	90.920	147.030	8078.07	6587.57	18355.29	-14696.06	11048.36	1748951.11	397647.83	39°35'20.9039"N	80°16'44.5946"W	18385.88	143.064	0.10	0.03	-0.10
26700.00	89.660	147.140	8077.60	6587.10	18449.28	-14774.97	11099.44	1749002.18	397568.93	39°35'20.1284"N	80°16'43.9335"W	18479.64	143.085	1.35	-1.34	0.12
26793.00	90.220	147.450	8077.69	6587.19	18542.26	-14853.22	11149.69	1749052.43	397490.68	39°35'19.3594"N	80°16'43.2830"W	18572.39	143.106	0.69	0.60	0.33
26887.00	90.430	147.220	8077.16	6586.66	18636.25	-14932.35	11200.42	1749103.16	397411.55	39°35'18.5817"N	80°16'42.6262"W	18666.14	143.127	0.33	0.22	-0.24
26981.00	90.400	146.920	8076.48	6585.98	18730.24	-15011.25	11251.52	1749154.25	397332.66	39°35'17.8063"N	80°16'41.9648"W	18759.91	143.147	0.32	-0.03	-0.32
27075.00	90.460	146.960	8075.77	6585.27	18824.23	-15090.03	11302.80	1749205.53	397253.89	39°35'17.0322"N	80°16'41.3012"W	18853.70	143.166	0.08	0.06	0.04

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 6H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 6H AWB
Slot	Slot #06		

WELLPATH DATA (337 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]
27169.00	90.490	146.940	8074.99	6584.49	18918.22	-15168.81	11354.06	1749256.79	397175.10	39°35'16.2579"N	80°16'40.6377"W	18947.50	143.185	0.04	0.03	-0.02
27264.00	90.340	147.020	8074.31	6583.81	19013.22	-15248.47	11405.83	1749308.55	397095.46	39°35'15.4752"N	80°16'39.9677"W	19042.29	143.204	0.18	-0.16	0.08
27357.00	90.400	146.930	8073.71	6583.21	19106.21	-15326.44	11456.51	1749359.23	397017.49	39°35'14.7089"N	80°16'39.3117"W	19135.09	143.222	0.12	0.06	-0.10
27452.00	90.430	146.780	8073.02	6582.52	19201.20	-15405.98	11508.45	1749411.17	396937.95	39°35'13.9273"N	80°16'38.6395"W	19229.89	143.240	0.16	0.03	-0.16
27546.00	88.250	147.380	8074.10	6583.60	19295.18	-15484.88	11559.53	1749462.25	396859.06	39°35'13.1520"N	80°16'37.9783"W	19323.67	143.258	2.41	-2.32	0.64
27640.00	88.430	147.010	8076.82	6586.32	19389.13	-15563.85	11610.44	1749513.15	396780.09	39°35'12.3758"N	80°16'37.3194"W	19417.41	143.278	0.44	0.19	-0.39
27733.00	89.450	147.050	8078.54	6588.04	19482.11	-15641.86	11661.04	1749563.75	396702.09	39°35'11.6092"N	80°16'36.6645"W	19510.19	143.295	1.10	1.10	0.04
27827.00	89.780	147.130	8079.18	6588.68	19576.10	-15720.77	11712.11	1749614.81	396623.18	39°35'10.8337"N	80°16'36.0035"W	19603.99	143.314	0.36	0.35	0.09
27920.00	89.140	147.100	8080.05	6589.55	19669.09	-15798.87	11762.60	1749665.30	396545.09	39°35'10.0663"N	80°16'35.3499"W	19696.78	143.332	0.69	-0.69	-0.03
28015.00	88.830	146.950	8081.73	6591.23	19764.07	-15878.55	11814.30	1749717.00	396465.41	39°35'9.2832"N	80°16'34.6808"W	19791.57	143.349	0.36	-0.33	-0.16
28109.00	89.080	147.120	8083.45	6592.95	19858.04	-15957.41	11865.44	1749768.13	396386.56	39°35'8.5083"N	80°16'34.0190"W	19885.36	143.367	0.32	0.27	0.18
28297.00	88.460	146.980	8087.48	6596.98	20045.99	-16115.13	11967.67	1749870.36	396228.85	39°35'6.9583"N	80°16'32.6959"W	20072.93	143.401	0.34	-0.33	-0.07
28391.00	87.910	147.120	8090.46	6599.96	20139.93	-16193.97	12018.77	1749921.46	396150.01	39°35'6.1835"N	80°16'32.0345"W	20166.69	143.418	0.60	-0.59	0.15
28485.00	87.380	147.240	8094.32	6603.82	20233.84	-16272.90	12069.68	1749972.36	396071.09	39°35'5.4078"N	80°16'31.3756"W	20260.41	143.436	0.58	-0.56	0.13
28580.00	87.410	146.130	8098.64	6608.14	20328.74	-16352.20	12121.80	1750024.48	395991.79	39°35'4.6285"N	80°16'30.7011"W	20355.16	143.451	1.17	0.03	-1.17
28674.00	87.170	146.120	8103.09	6612.59	20422.64	-16430.16	12174.14	1750076.81	395913.84	39°35'3.8626"N	80°16'30.0241"W	20448.95	143.463	0.26	-0.26	-0.01
28768.00	86.830	145.660	8108.01	6617.51	20516.50	-16507.88	12226.78	1750129.45	395836.12	39°35'3.0990"N	80°16'29.3432"W	20542.74	143.474	0.61	-0.36	-0.49
28862.00	87.230	145.710	8112.88	6622.38	20610.37	-16585.41	12279.70	1750182.37	395758.59	39°35'2.3372"N	80°16'28.6588"W	20636.54	143.484	0.43	0.43	0.05
28956.00	87.820	146.230	8116.94	6626.44	20704.28	-16663.24	12332.25	1750234.92	395680.77	39°35'1.5726"N	80°16'27.9790"W	20730.37	143.495	0.84	0.63	0.55
29050.00	87.690	145.670	8120.62	6630.12	20798.21	-16741.07	12384.84	1750287.51	395602.95	39°35'0.8079"N	80°16'27.2987"W	20824.21	143.506	0.61	-0.14	-0.60
29142.00	88.180	146.010	8123.93	6633.43	20890.14	-16817.14	12436.47	1750339.13	395526.88	39°35'0.0605"N	80°16'26.6310"W	20916.07	143.517	0.65	0.53	0.37
29236.00	87.230	146.090	8127.70	6637.20	20984.06	-16895.06	12488.92	1750391.58	395448.97	39°34'59.2950"N	80°16'25.9525"W	21009.90	143.528	1.01	-1.01	0.09
29330.00	87.450	146.110	8132.06	6641.56	21077.96	-16972.99	12541.29	1750443.95	395371.04	39°34'58.5292"N	80°16'25.2750"W	21103.71	143.539	0.24	0.23	0.02
29424.00	87.780	146.510	8135.97	6645.47	21171.88	-17051.14	12593.39	1750496.04	395292.90	39°34'57.7614"N	80°16'24.6011"W	21197.52	143.552	0.55	0.35	0.43
29517.00	88.430	146.210	8139.05	6648.55	21264.83	-17128.52	12644.88	1750547.53	395215.52	39°34'57.0010"N	80°16'23.9350"W	21290.36	143.564	0.77	0.70	-0.32
29611.00	88.210	146.230	8141.80	6651.30	21358.79	-17206.62	12697.12	1750599.77	395137.43	39°34'56.2336"N	80°16'23.2591"W	21384.21	143.576	0.24	-0.23	0.02
29705.00	88.310	146.320	8144.66	6654.16	21452.74	-17284.76	12749.29	1750651.93	395059.29	39°34'55.4658"N	80°16'22.5843"W	21478.07	143.587	0.14	0.11	0.10
29799.00	88.150	146.030	8147.56	6657.06	21546.70	-17362.81	12801.59	1750704.23	394981.24	39°34'54.6989"N	80°16'21.9078"W	21571.93	143.599	0.35	-0.17	-0.31
29893.00	88.340	146.040	8150.44	6659.94	21640.65	-17440.74	12854.08	1750756.71	394903.32	39°34'53.9332"N	80°16'21.2288"W	21665.80	143.609	0.20	0.20	0.01
29985.00	88.280	145.970	8153.15	6662.65	21732.61	-17516.98	12905.50	1750808.13	394827.06	39°34'53.1841"N	80°16'20.5638"W	21757.68	143.619	0.10	-0.07	-0.08

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 6H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 6H AWB
Slot	Slot #06		

WELLPATH DATA (337 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]
30078.00	88.550	146.230	8155.72	6665.22	21825.57	-17594.14	12957.35	1750859.98	394749.92	39°34'52.4259"N	80°16'19.8931"W	21850.56	143.630	0.40	0.29	0.28
30172.00	89.050	146.080	8157.69	6667.19	21919.55	-17672.20	13009.69	1750912.31	394671.87	39°34'51.6590"N	80°16'19.2161"W	21944.44	143.641	0.56	0.53	-0.16
30265.00	88.740	145.830	8159.49	6668.99	22012.53	-17749.24	13061.75	1750964.37	394594.83	39°34'50.9020"N	80°16'18.5428"W	22037.35	143.650	0.43	-0.33	-0.27
30357.00	89.110	146.640	8161.21	6670.71	22104.51	-17825.71	13112.87	1751015.49	394518.37	39°34'50.1506"N	80°16'17.8815"W	22129.24	143.661	0.97	0.40	0.88
30480.00	89.420	146.190	8162.79	6672.29	22227.50	-17928.17	13180.90	1751083.52	394415.92	39°34'49.1439"N	80°16'17.0013"W	22252.09	143.676	0.44	0.25	-0.37
30487.00	89.540	146.220	8162.85	6672.35	22234.50	-17933.99	13184.80	1751087.41	394410.10	39°34'49.0867"N	80°16'16.9510"W	22259.08	143.677	1.77	1.71	0.43
30512.00‡	89.540	146.220	8163.06	6672.56	22259.50	-17954.76	13198.70	1751101.31	394389.33	39°34'48.8825"N	80°16'16.7712"W	22284.06	143.680	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Miracle Run 6H AWB Ref Wellpath: Miracle Run 6H AWP Proj: 30512'

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	1484.98	0.00	0.00	-3.45	-0.83
13.375in Casing Surface	32.50	1455.00	1422.50	32.50	1454.98	0.00	0.00	-3.22	-0.59
12.25in Open Hole	1485.00	2796.00	1311.00	1484.98	2795.53	-3.45	-0.83	-7.69	6.08
9.625in Casing Intermediate	32.50	2766.00	2733.50	32.50	2765.58	0.00	0.00	-8.52	4.55
8.75in Open Hole	2796.00	7484.00	4688.00	2795.53	7383.21	-7.69	6.08	732.32	597.45
8.5in Open Hole	7484.00	30512.00	23028.00	7383.21	8163.06	732.32	597.45	-17954.76	13198.70
5.5in Open Hole	32.50	30482.00	30449.50	32.50	8162.81	0.00	0.00	-17929.83	13182.02

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Miracle Run 6H AWP Proj: 30512'

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REFERENCE WELLPATH IDENTIFICATION

Operator	NORTHEAST NATURAL ENERGY, LLC	Well	Miracle Run 6H
Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 6H AWB
Slot	Slot #06		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Miracle Run 6H BHL Rev-2	8139.50	-17953.01	13202.42	1751105.03	394391.08	39°34'48.9002"N	80°16'16.7238"W	point
Miracle Run 6H LP Rev-0	8139.50	394.82	999.86	1738903.22	412737.78	39°37'49.1598"N	80°18'54.6921"W	point
Miracle Run 6H LP Rev-1	8139.50	228.28	1110.62	1739013.97	412571.26	39°37'47.5239"N	80°18'53.2573"W	point
Miracle Run PAD Hardline #1 (04.16.2024)	9500.00	-2290.73	-4210.04	1733693.63	410052.40	39°37'22.1473"N	80°20'0.9585"W	polygon
	2D Polygon: dimensions not calculated							
Miracle Run PAD Hardline #2 (04.16.2024)	9500.00	1650.80	-463.25	1737440.20	413893.69	39°38'1.4404"N	80°19'13.5379"W	polygon
	2D Polygon: dimensions not calculated							

WELLPATH COMPOSITION - Ref Wellbore: Miracle Run 6H AWB Ref Wellpath: Miracle Run 6H AWP Proj: 30512'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
32.50	1355.00	BH Generic gyro - northseeking (Standard)	01 17.5" Javins Gyro [Northseeking+Standard] (73' - 1355')	Miracle Run 6H AWB	3/7/2024
1355.00	2665.00	OWSG MWD rev2 + HRGM	02 12.5" SDI MWD [OWSG MWD+HDGM] (1355')(1538' - 2665')	Miracle Run 6H AWB	3/7/2024
2665.00	7314.00	OWSG MWD rev2 + HRGM	03 8.75" SDI MWD [OWSG MWD+HRGM] (2665')(2797' - 7314')	Miracle Run 6H AWB	3/7/2024
7314.00	30512.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 8.5" BH ATK Curve [HDGM+Short Spacing] (7314')(7416' - 30487')	Miracle Run 6H AWB	3/7/2024

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Field	Monongalia	API/Legal	
Facility	Miracle Run Pad	Wellbore	Miracle Run 6H AWB
Slot	Slot #06		

COMMENTS

Wellpath general comments

API: 47061019240000

BH Job #: 112148359

Rig: Nabors X08

Duration: 04/07/2024 - 04/14/2024

01_17.5" Javins Gyro [Northseeking+Standard] (73' - 1355')

02_12.5" SDI MWD [OWSG MWD+HDGM] (1355')(1538' - 2665')

03_8.75" SDI MWD [OWSG MWD+HRGM] (2665')(2797' - 7314')

04_8.5" BH ATK Curve [HDGM+Short Spacing] (7314')(7416' - 30487')

Final Survey MD @ 30487'

Projected MD @ TD: 30512'

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