

1208-34



MARION NATURAL ENERGY



Area: Monongalia County, WV
Field: Monongalia
Facility: Green Lakes Pad
Slot: 15H

Well: Green Lakes 15H
UWI: 47049025890000
Wellbore: Green Lakes 15H AWB
Wellpath: Green Lakes 15H AWP PROJ: 29674'

Plot reference wellpath is Green Lakes 15H AWP PROJ: 29674'
Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet
True vertical depths are referenced to Patterson 571 (KB)
North Reference: Grid north
Reference wellpath measured depths are referenced to Patterson 571 (KB)
Scale: True distance
Patterson 571 (KB) to Mean Sea Level: 1473 feet
Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: 15H): -1448 feet
Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum
Created by: tranlam on 2025-09-23; Database: WA_MPL_EASTERNUS_Defn

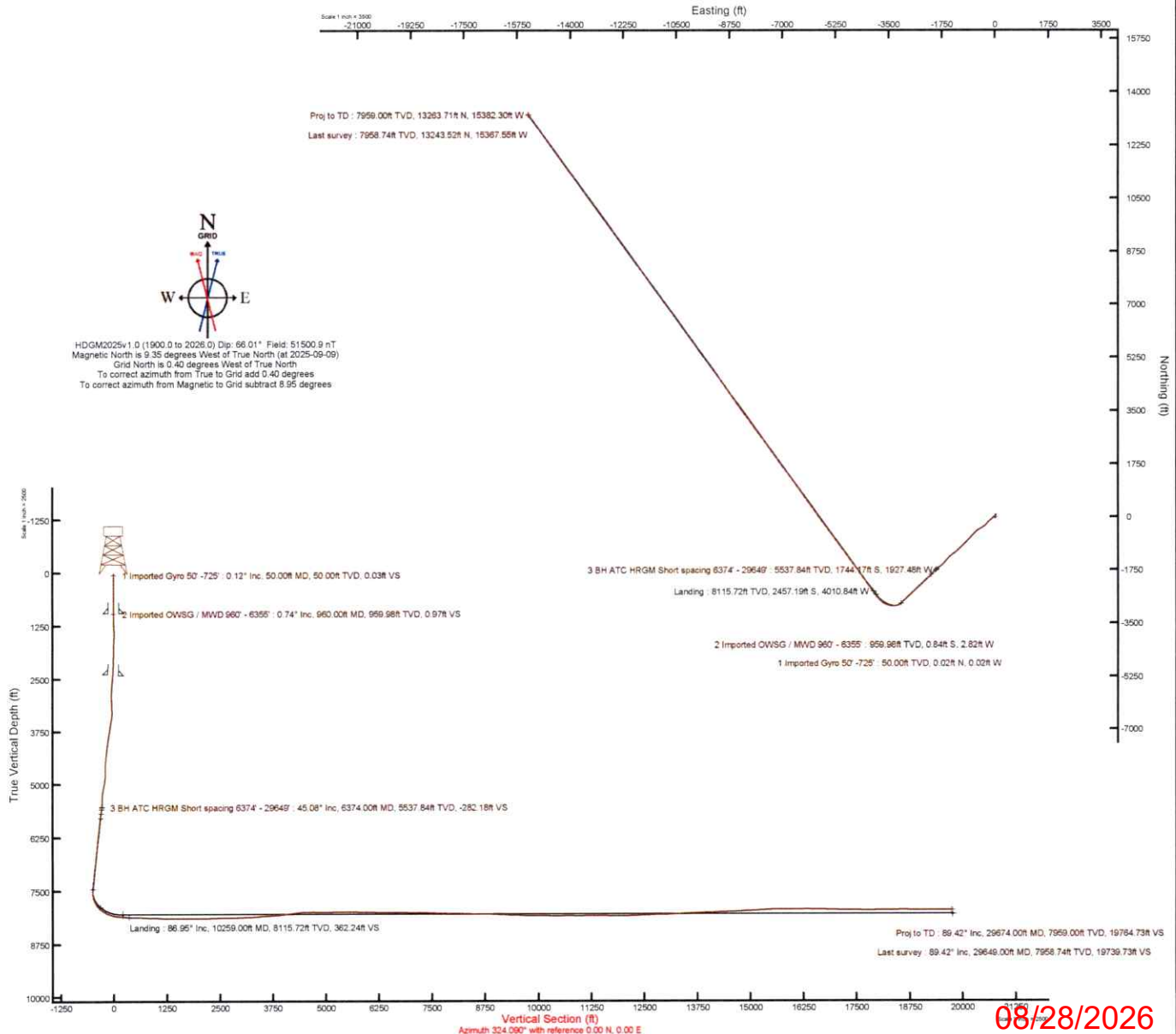
Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Green Lakes Pad			1790597.360	396148.390	39°35'9.3152N	80°07'52.4757W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
15H	-74.81	-5.19	1790592.170	396073.580	39°35'8.5755N	80°07'52.5353W
Patterson 571 (KB) to Ground level (At Slot: 15H)			25ft			
Mean Sea Level to Ground level (At Slot: 15H)			-1448ft			
Patterson 571 (KB) to Mean Sea Level			1473ft			

Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
29674.00	89.420	323.830	7959.00	13263.71	-15382.30	1775210.81	409336.48	39°37'18.5424"N	80°11'10.2984"W

API: 47049025890000
BH JOB: 112855301
DURATION: 9/13/2025 - 9/22/2025
RIG: Patterson 571



REFERENCE WELLPATH IDENTIFICATION

Operator	MARION NATURAL ENERGY	Well	Green Lakes 15H
Field	Monongalia	UWI	47049025890000
Facility	Green Lakes Pad	Wellbore	Green Lakes 15H AWB
Slot	15H		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet [26853]	Software System	WellArchitect® 7.0.1
North Reference	Grid	Report Generated By	Tranlam on 2025-09-23 at 11:15:34 AM
Scale	0.999941	Last Updated	2025-09-23
Convergence at slot	0.40° 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	-74.81	-5.19	1790592.17	396073.58	39°35'8.5755"N	80°07'52.5353"W
Facility Reference Pt			1790597.36	396148.39	39°35'9.3152"N	80°07'52.4757"W
Field Reference Pt			1777685.71	440640.65	39°42'28.1140"N	80°10'41.6900"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 571 (KB) to Facility Vertical Datum	1473.00ft
Horizontal Reference Pt	Slot	Patterson 571 (KB) to Mean Sea Level	1473.00ft
Vertical Reference Pt	Patterson 571 (KB)	Patterson 571 (KB) to Ground Level at Slot (15H)	25.00ft
MD Reference Pt	Patterson 571 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	324.090°

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Environmental Protection

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Facility	Green Lakes Pad	Wellbore	Green Lakes 15H AWB
Slot	15H		

WELLPATH DATA (323 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]
0.00†	0.000	321.080	0.00	0.00	0.00	0.00	1790592.17	396073.58	39°35'8.5755"N	80°07'52.5353"W	0.00	0.000	0.00
25.00	0.000	321.080	25.00	0.00	0.00	0.00	1790592.17	396073.58	39°35'8.5755"N	80°07'52.5353"W	0.00	0.000	0.00
50.00	0.120	321.080	50.00	0.03	0.02	-0.02	1790592.15	396073.60	39°35'8.5757"N	80°07'52.5355"W	0.03	321.080	0.48
100.00	0.310	253.520	100.00	0.12	0.02	-0.18	1790591.99	396073.60	39°35'8.5757"N	80°07'52.5376"W	0.18	277.236	0.57
150.00	0.320	236.760	150.00	0.17	-0.09	-0.43	1790591.74	396073.49	39°35'8.5745"N	80°07'52.5408"W	0.44	257.778	0.18
200.00	0.290	172.150	200.00	0.07	-0.29	-0.53	1790591.65	396073.29	39°35'8.5725"N	80°07'52.5420"W	0.60	240.748	0.65
250.00	0.240	179.010	250.00	-0.13	-0.52	-0.51	1790591.66	396073.06	39°35'8.5702"N	80°07'52.5417"W	0.73	223.989	0.12
300.00	0.210	137.860	300.00	-0.30	-0.70	-0.44	1790591.73	396072.88	39°35'8.5685"N	80°07'52.5409"W	0.83	212.428	0.32
350.00	0.170	49.370	350.00	-0.39	-0.72	-0.32	1790591.85	396072.86	39°35'8.5684"N	80°07'52.5394"W	0.79	204.394	0.53
400.00	0.110	336.300	400.00	-0.34	-0.62	-0.29	1790591.88	396072.96	39°35'8.5693"N	80°07'52.5389"W	0.69	204.760	0.35
450.00	0.290	244.490	450.00	-0.27	-0.63	-0.42	1790591.75	396072.95	39°35'8.5692"N	80°07'52.5407"W	0.76	213.580	0.63
500.00	0.470	234.670	500.00	-0.24	-0.81	-0.70	1790591.47	396072.77	39°35'8.5674"N	80°07'52.5442"W	1.07	221.027	0.38
550.00	0.340	259.180	549.99	-0.18	-0.95	-1.02	1790591.15	396072.63	39°35'8.5660"N	80°07'52.5482"W	1.39	226.793	0.43
600.00	0.670	268.370	599.99	0.05	-0.99	-1.45	1790590.72	396072.59	39°35'8.5656"N	80°07'52.5538"W	1.76	235.736	0.68
650.00	0.740	274.580	649.99	0.42	-0.97	-2.07	1790590.10	396072.61	39°35'8.5657"N	80°07'52.5617"W	2.29	244.803	0.21
700.00	0.710	264.490	699.98	0.79	-0.98	-2.70	1790589.47	396072.60	39°35'8.5656"N	80°07'52.5697"W	2.87	250.096	0.26
725.00	0.640	259.330	724.98	0.93	-1.02	-2.99	1790589.18	396072.56	39°35'8.5652"N	80°07'52.5734"W	3.16	251.202	0.37
960.00	0.740	73.980	959.98	0.97	-0.84	-2.82	1790589.35	396072.74	39°35'8.5669"N	80°07'52.5713"W	2.94	253.382	0.59
1024.00	0.290	41.980	1023.97	0.87	-0.61	-2.32	1790589.86	396072.97	39°35'8.5693"N	80°07'52.5648"W	2.39	255.300	0.81
1118.00	3.330	265.560	1117.92	2.34	-0.64	-4.88	1790587.29	396072.94	39°35'8.5688"N	80°07'52.5976"W	4.92	262.505	3.77
1213.00	6.470	260.300	1212.57	6.15	-1.76	-12.91	1790579.26	396071.82	39°35'8.5572"N	80°07'52.7000"W	13.03	262.246	3.34
1308.00	8.160	250.180	1306.79	10.38	-4.95	-24.53	1790567.64	396068.63	39°35'8.5249"N	80°07'52.8482"W	25.02	258.600	2.23
1402.00	9.180	238.530	1399.73	12.81	-11.12	-37.20	1790554.97	396062.46	39°35'8.4629"N	80°07'53.0095"W	38.83	253.353	2.16
1496.00	9.400	229.800	1492.50	12.82	-19.99	-49.46	1790542.71	396053.59	39°35'8.3744"N	80°07'53.1652"W	53.35	247.990	1.52
1592.00	9.210	222.580	1587.24	10.70	-30.71	-60.65	1790531.53	396042.87	39°35'8.2677"N	80°07'53.3072"W	67.98	243.143	1.23
1687.00	9.590	219.950	1680.96	7.25	-42.37	-70.87	1790521.30	396031.21	39°35'8.1518"N	80°07'53.4367"W	82.57	239.124	0.60
1782.00	10.640	223.910	1774.48	3.76	-54.76	-82.04	1790510.14	396018.82	39°35'8.0286"N	80°07'53.5782"W	98.63	236.276	1.33
1877.00	11.900	228.730	1867.65	1.30	-67.54	-95.48	1790496.70	396006.04	39°35'7.9013"N	80°07'53.7488"W	116.95	234.726	1.65
1972.00	13.390	229.980	1960.35	-0.41	-81.07	-111.27	1790480.91	395992.51	39°35'7.7665"N	80°07'53.9492"W	137.67	233.921	1.59
2066.00	15.060	230.660	2051.46	-1.92	-95.82	-129.05	1790463.13	395977.77	39°35'7.6196"N	80°07'54.1750"W	160.73	233.407	1.79

20434

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Slot	15H		

WELLPATH DATA (323 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]
2161.00	17.620	231.230	2142.62	-3.37	-112.65	-149.81	1790442.37	395960.94	39°35'7.4518"N	80°07'54.4386"W	187.43	233.059	2.70
2257.00	19.920	230.000	2233.51	-5.26	-132.26	-173.67	1790418.51	395941.33	39°35'7.2563"N	80°07'54.7416"W	218.30	232.708	2.43
2429.00	21.290	223.740	2394.52	-12.97	-173.66	-217.71	1790374.47	395899.93	39°35'6.8441"N	80°07'55.3004"W	278.49	231.421	1.51
2459.00	21.250	222.660	2422.47	-15.02	-181.59	-225.16	1790367.03	395892.00	39°35'6.7652"N	80°07'55.3948"W	289.26	231.113	1.31
2555.00	21.120	219.290	2511.99	-22.89	-207.77	-247.90	1790344.28	395865.82	39°35'6.5048"N	80°07'55.6830"W	323.46	230.032	1.28
2650.00	20.020	218.060	2600.93	-31.75	-233.83	-268.76	1790323.42	395839.77	39°35'6.2459"N	80°07'55.9471"W	356.24	228.977	1.24
2745.00	19.660	221.270	2690.30	-39.79	-258.64	-289.33	1790302.86	395814.95	39°35'5.9992"N	80°07'56.2076"W	388.08	228.206	1.21
2843.00	21.290	227.830	2782.11	-45.39	-282.98	-313.40	1790278.79	395790.62	39°35'5.7570"N	80°07'56.5127"W	422.25	227.920	2.87
2938.00	23.670	232.380	2869.90	-47.84	-306.20	-341.29	1790250.90	395767.39	39°35'5.5256"N	80°07'56.8669"W	458.52	228.102	3.10
3033.00	25.180	236.630	2956.40	-47.51	-328.96	-373.28	1790218.92	395744.64	39°35'5.2984"N	80°07'57.2734"W	497.55	228.611	2.44
3126.00	26.790	236.660	3039.99	-45.69	-351.37	-407.31	1790184.88	395722.23	39°35'5.0746"N	80°07'57.7061"W	537.92	229.217	1.73
3221.00	31.040	237.580	3123.13	-43.24	-376.28	-445.89	1790146.31	395697.33	39°35'4.8258"N	80°07'58.1966"W	583.44	229.840	4.50
3316.00	38.030	239.990	3201.35	-38.74	-404.08	-491.96	1790100.24	395669.53	39°35'4.5478"N	80°07'58.7826"W	636.64	230.602	7.50
3410.00	40.430	237.410	3274.16	-33.99	-434.99	-542.73	1790049.47	395638.62	39°35'4.2388"N	80°07'59.4282"W	695.53	231.289	3.09
3505.00	40.290	230.050	3346.59	-34.37	-471.32	-592.26	1789999.95	395602.29	39°35'3.8763"N	80°08'0.0575"W	756.91	231.487	5.02
3600.00	41.310	224.770	3418.53	-41.62	-513.32	-637.91	1789954.30	395560.29	39°35'3.4580"N	80°08'0.6367"W	818.79	231.176	3.79
3695.00	39.150	222.160	3491.06	-52.90	-557.82	-680.13	1789912.09	395515.79	39°35'3.0153"N	80°08'1.1720"W	879.62	230.642	2.88
3789.00	37.260	222.740	3564.92	-64.63	-600.72	-719.36	1789872.86	395472.90	39°35'2.5886"N	80°08'1.6692"W	937.20	230.136	2.05
3884.00	37.270	222.810	3640.52	-75.92	-642.94	-758.42	1789833.79	395430.68	39°35'2.1686"N	80°08'2.1643"W	994.27	229.711	0.05
3979.00	38.930	222.900	3715.28	-87.34	-685.91	-798.29	1789793.93	395387.71	39°35'1.7412"N	80°08'2.6696"W	1052.49	229.330	1.75
4077.00	41.330	223.190	3790.20	-99.43	-732.07	-841.40	1789750.82	395341.56	39°35'1.2820"N	80°08'3.2161"W	1115.30	228.975	2.46
4172.00	41.100	223.350	3861.67	-111.19	-777.64	-884.31	1789707.92	395295.98	39°35'0.8286"N	80°08'3.7600"W	1177.60	228.672	0.27
4267.00	41.120	223.750	3933.24	-122.61	-822.92	-927.34	1789664.88	395250.71	39°35'0.3782"N	80°08'4.3056"W	1239.82	228.415	0.28
4361.00	39.380	224.140	4004.98	-133.31	-866.65	-969.49	1789622.74	395206.99	39°34'59.9431"N	80°08'4.8399"W	1300.38	228.206	1.87
4456.00	38.750	226.200	4078.75	-142.60	-908.85	-1011.94	1789580.29	395164.78	39°34'59.5230"N	80°08'5.3782"W	1360.16	228.072	1.52
4551.00	40.280	226.750	4152.04	-150.61	-950.48	-1055.77	1789536.47	395123.16	39°34'59.1086"N	80°08'5.9343"W	1420.58	228.004	1.65
4645.00	41.850	224.620	4222.91	-159.65	-993.62	-1099.93	1789492.31	395080.02	39°34'58.6791"N	80°08'6.4944"W	1482.27	227.907	2.24
4740.00	42.270	226.340	4293.44	-169.17	-1038.24	-1145.31	1789446.93	395035.41	39°34'58.2350"N	80°08'7.0699"W	1545.85	227.807	1.29
4835.00	40.280	225.440	4364.84	-178.10	-1081.85	-1190.31	1789401.94	394991.80	39°34'57.8008"N	80°08'7.6407"W	1608.49	227.733	2.19
4930.00	37.760	226.370	4438.64	-186.63	-1123.47	-1233.25	1789359.00	394950.18	39°34'57.3865"N	80°08'8.1854"W	1668.26	227.667	2.72

21434

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Slot	15H		

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5024.00	36.170	230.830	4513.76	-192.07	-1160.86	-1275.60	1789316.65	394912.79	39°34'57.0140"N	80°08'8.7229"W	1724.74	227.696	3.32
5118.00	37.660	235.150	4588.92	-193.12	-1194.80	-1320.68	1789271.57	394878.85	39°34'56.6755"N	80°08'9.2956"W	1780.94	227.865	3.18
5217.00	38.290	232.800	4666.97	-193.25	-1230.63	-1369.93	1789222.32	394843.03	39°34'56.3179"N	80°08'9.9214"W	1841.51	228.066	1.59
5312.00	41.100	233.900	4740.06	-194.02	-1266.83	-1418.61	1789173.64	394806.83	39°34'55.9568"N	80°08'10.5399"W	1901.93	228.235	3.05
5406.00	41.300	230.950	4810.79	-195.82	-1304.58	-1467.67	1789124.59	394769.08	39°34'55.5802"N	80°08'11.1631"W	1963.67	228.367	2.08
5500.00	41.890	224.740	4881.12	-202.62	-1346.43	-1513.87	1789078.39	394727.23	39°34'55.1634"N	80°08'11.7494"W	2026.00	228.350	4.43
5595.00	40.950	220.510	4952.37	-215.08	-1392.64	-1556.43	1789035.83	394681.03	39°34'54.7038"N	80°08'12.2887"W	2088.52	228.179	3.11
5689.00	40.210	220.250	5023.77	-229.58	-1439.22	-1596.05	1788996.22	394634.45	39°34'54.2407"N	80°08'12.7904"W	2149.12	227.958	0.81
5784.00	39.820	220.980	5096.52	-243.81	-1485.59	-1635.81	1788956.46	394588.09	39°34'53.7796"N	80°08'13.2941"W	2209.71	227.755	0.64
5879.00	38.630	223.680	5170.12	-256.07	-1530.00	-1676.24	1788916.03	394543.67	39°34'53.3378"N	80°08'13.8064"W	2269.51	227.612	2.19
5973.00	39.700	224.560	5243.00	-266.34	-1572.61	-1717.57	1788874.70	394501.06	39°34'52.9138"N	80°08'14.3304"W	2328.77	227.523	1.28
6068.00	40.530	230.860	5315.68	-273.11	-1613.73	-1762.82	1788829.46	394459.94	39°34'52.5042"N	80°08'14.9046"W	2389.91	227.528	4.36
6162.00	42.390	235.250	5386.14	-274.19	-1651.09	-1812.56	1788779.72	394422.60	39°34'52.1316"N	80°08'15.5365"W	2451.83	227.669	3.67
6256.00	44.540	231.990	5454.37	-274.75	-1689.46	-1864.58	1788727.70	394384.23	39°34'51.7488"N	80°08'16.1974"W	2516.13	227.821	3.30
6355.00	45.360	226.870	5524.46	-280.45	-1734.93	-1917.66	1788674.63	394338.75	39°34'51.2956"N	80°08'16.8712"W	2586.00	227.864	3.75
6374.00	45.080	226.610	5537.84	-282.18	-1744.17	-1927.48	1788664.81	394329.51	39°34'51.2036"N	80°08'16.9958"W	2599.49	227.858	1.76
6469.00	41.340	224.860	5607.07	-291.59	-1789.54	-1974.07	1788618.22	394284.15	39°34'50.7520"N	80°08'17.5867"W	2664.47	227.807	4.13
6564.00	41.100	225.290	5678.53	-301.40	-1833.74	-2018.40	1788573.90	394239.95	39°34'50.3120"N	80°08'18.1488"W	2727.00	227.744	0.39
6659.00	41.960	225.010	5749.65	-311.19	-1878.17	-2063.05	1788529.25	394195.53	39°34'49.8699"N	80°08'18.7150"W	2789.92	227.686	0.93
6754.00	41.150	225.720	5820.74	-320.76	-1922.44	-2107.89	1788484.41	394151.26	39°34'49.4291"N	80°08'19.2837"W	2852.89	227.634	0.99
6849.00	39.760	226.470	5893.02	-329.33	-1965.19	-2152.29	1788440.01	394108.51	39°34'49.0035"N	80°08'19.8469"W	2914.51	227.602	1.55
6943.00	39.000	226.190	5965.68	-337.39	-2006.37	-2195.43	1788396.87	394067.33	39°34'48.5935"N	80°08'20.3941"W	2974.13	227.576	0.83
7038.00	38.320	226.170	6039.86	-345.55	-2047.46	-2238.25	1788354.05	394026.24	39°34'48.1844"N	80°08'20.9373"W	3033.46	227.549	0.72
7133.00	38.460	226.090	6114.32	-353.72	-2088.35	-2280.78	1788311.53	393985.36	39°34'47.7774"N	80°08'21.4767"W	3092.44	227.522	0.16
7228.00	39.120	225.970	6188.37	-362.07	-2129.67	-2323.62	1788268.70	393944.04	39°34'47.3660"N	80°08'22.0200"W	3151.93	227.494	0.70
7322.00	38.880	226.370	6261.42	-370.22	-2170.63	-2366.29	1788226.02	393903.08	39°34'46.9581"N	80°08'22.5613"W	3211.07	227.469	0.37
7416.00	39.300	226.900	6334.38	-377.91	-2211.33	-2409.38	1788182.94	393862.39	39°34'46.5529"N	80°08'23.1079"W	3270.34	227.454	0.57
7512.00	38.460	226.950	6409.11	-385.42	-2252.48	-2453.40	1788138.92	393821.23	39°34'46.1431"N	80°08'23.6663"W	3330.59	227.445	0.88
7607.00	39.350	226.770	6483.04	-392.93	-2293.28	-2496.93	1788095.39	393780.44	39°34'45.7368"N	80°08'24.2186"W	3390.25	227.434	0.94
7702.00	39.450	226.890	6556.45	-400.55	-2334.53	-2540.91	1788051.42	393739.19	39°34'45.3260"N	80°08'24.7765"W	3450.55	227.424	0.13

22-03-24

REFERENCE WELLPATH IDENTIFICATION

Operator	MARION NATURAL ENERGY	Well	Green Lakes 15H
Field	Monongalia	UWI	47049025890000
Facility	Green Lakes Pad	Wellbore	Green Lakes 15H AWB
Slot	15H		

WELLPATH DATA (323 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]
7797.00	38.900	227.160	6630.10	-407.94	-2375.44	-2584.81	1788007.51	393698.28	39°34'44.9187"N	80°08'25.3335"W	3510.55	227.417	0.61
7891.00	39.340	227.000	6703.02	-415.17	-2415.83	-2628.25	1787964.08	393657.90	39°34'44.5164"N	80°08'25.8845"W	3569.86	227.411	0.48
7986.00	39.980	227.070	6776.16	-422.62	-2457.15	-2672.61	1787919.72	393616.58	39°34'44.1049"N	80°08'26.4474"W	3630.49	227.405	0.68
8081.00	38.990	226.840	6849.48	-430.12	-2498.39	-2716.76	1787875.57	393575.35	39°34'43.6943"N	80°08'27.0074"W	3690.90	227.398	1.05
8175.00	39.700	226.720	6922.17	-437.71	-2539.20	-2760.19	1787832.15	393534.54	39°34'43.2880"N	80°08'27.5583"W	3750.49	227.388	0.76
8269.00	39.030	226.880	6994.84	-445.27	-2580.01	-2803.65	1787788.69	393493.73	39°34'42.8815"N	80°08'28.1097"W	3810.11	227.379	0.72
8365.00	38.700	226.860	7069.59	-452.84	-2621.19	-2847.61	1787744.73	393452.55	39°34'42.4714"N	80°08'28.6674"W	3870.34	227.371	0.34
8459.00	40.030	226.870	7142.26	-460.34	-2661.96	-2891.12	1787701.23	393411.79	39°34'42.0655"N	80°08'29.2193"W	3929.96	227.363	1.41
8555.00	40.140	227.090	7215.71	-467.99	-2704.13	-2936.32	1787656.03	393369.62	39°34'41.6455"N	80°08'29.7926"W	3991.77	227.357	0.19
8649.00	39.960	226.890	7287.67	-475.47	-2745.39	-2980.54	1787611.81	393328.36	39°34'41.2347"N	80°08'30.3537"W	4052.26	227.352	0.24
8743.00	40.040	226.680	7359.68	-483.15	-2786.76	-3024.58	1787567.78	393286.99	39°34'40.8227"N	80°08'30.9123"W	4112.68	227.343	0.17
8837.00	38.410	227.020	7432.49	-490.64	-2827.42	-3067.94	1787524.41	393246.34	39°34'40.4178"N	80°08'31.4624"W	4172.12	227.336	1.75
8932.00	40.080	228.570	7506.06	-497.22	-2867.77	-3112.47	1787479.89	393205.98	39°34'40.0158"N	80°08'32.0273"W	4232.21	227.343	2.04
9026.00	38.220	241.460	7579.08	-496.40	-2901.75	-3160.79	1787431.58	393172.01	39°34'39.6766"N	80°08'32.6413"W	4290.77	227.447	8.87
9121.00	41.890	250.030	7651.84	-483.90	-2926.65	-3216.47	1787375.89	393147.11	39°34'39.4266"N	80°08'33.3502"W	4348.68	227.701	6.97
9216.00	42.170	261.970	7722.52	-460.24	-2941.96	-3277.96	1787314.41	393131.80	39°34'39.2709"N	80°08'34.1340"W	4404.56	228.092	8.41
9311.00	45.260	271.280	7791.25	-424.89	-2945.67	-3343.35	1787249.03	393128.09	39°34'39.2297"N	80°08'34.9688"W	4455.89	228.618	7.51
9406.00	49.130	279.040	7855.84	-379.07	-2939.26	-3412.64	1787179.74	393134.50	39°34'39.2881"N	80°08'35.8542"W	4503.93	229.262	7.24
9500.00	55.250	285.880	7913.48	-323.52	-2923.08	-3485.00	1787107.38	393150.67	39°34'39.4429"N	80°08'36.7799"W	4548.59	230.011	8.68
9595.00	61.950	290.820	7962.97	-257.70	-2897.47	-3561.85	1787030.54	393176.29	39°34'39.6906"N	80°08'37.7636"W	4591.52	230.873	8.33
9689.00	64.640	299.310	8005.27	-184.34	-2861.87	-3637.77	1786954.62	393211.88	39°34'40.0370"N	80°08'38.7366"W	4628.58	231.808	8.56
9784.00	70.170	308.080	8041.82	-102.22	-2813.18	-3710.55	1786881.84	393260.57	39°34'40.5130"N	80°08'39.6705"W	4656.41	232.832	10.32
9880.00	75.350	315.380	8070.30	-12.74	-2752.16	-3778.85	1786813.55	393321.59	39°34'41.1112"N	80°08'40.5482"W	4674.83	233.934	9.04
9974.00	81.300	319.960	8089.32	78.68	-2684.13	-3840.76	1786751.64	393389.61	39°34'41.7792"N	80°08'41.3452"W	4685.72	235.052	7.93
10069.00	84.980	322.570	8100.67	172.86	-2610.57	-3899.76	1786692.65	393463.17	39°34'42.5020"N	80°08'42.1054"W	4692.89	236.201	4.74
10164.00	84.950	324.640	8109.01	267.48	-2534.40	-3955.90	1786636.51	393539.33	39°34'43.2508"N	80°08'42.8294"W	4698.12	237.354	2.17
10259.00	86.950	324.500	8115.72	362.24	-2457.19	-4010.84	1786581.58	393616.54	39°34'44.0099"N	80°08'43.5381"W	4703.68	238.507	2.11
10353.00	89.020	324.700	8119.02	456.17	-2380.62	-4065.25	1786527.17	393693.11	39°34'44.7628"N	80°08'44.2400"W	4711.01	239.647	2.21
10449.00	89.140	324.940	8120.56	552.15	-2302.16	-4120.55	1786471.87	393771.56	39°34'45.5342"N	80°08'44.9535"W	4720.06	240.808	0.28
10544.00	88.190	324.910	8122.78	647.11	-2224.44	-4175.13	1786417.29	393849.28	39°34'46.2985"N	80°08'45.6577"W	4730.73	241.952	1.00

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REFERENCE WELLPATH IDENTIFICATION

Operator	MARION NATURAL ENERGY	Well	Green Lakes 15H
Field	Monongalia	UWI	47049025890000
Facility	Green Lakes Pad	Wellbore	Green Lakes 15H AWB
Slot	15H		

WELLPATH DATA (323 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]
10639.00	88.030	324.850	8125.91	742.05	-2146.78	-4229.75	1786362.67	393926.94	39°34'47.0621"N	80°08'46.3624"W	4743.36	243.090	0.18
10733.00	88.250	324.780	8128.96	835.99	-2069.99	-4283.89	1786308.54	394003.72	39°34'47.8171"N	80°08'47.0609"W	4757.79	244.210	0.25
10828.00	88.120	324.630	8131.97	930.94	-1992.49	-4338.75	1786253.68	394081.21	39°34'48.5791"N	80°08'47.7687"W	4774.39	245.334	0.21
10922.00	88.090	324.990	8135.08	1024.88	-1915.71	-4392.89	1786199.54	394157.98	39°34'49.3341"N	80°08'48.4672"W	4792.44	246.438	0.38
11017.00	86.800	323.160	8139.31	1119.78	-1838.86	-4448.57	1786143.87	394234.83	39°34'50.0896"N	80°08'49.1854"W	4813.65	247.542	2.36
11112.00	91.080	324.650	8141.07	1214.74	-1762.13	-4504.51	1786087.93	394311.56	39°34'50.8439"N	80°08'49.9069"W	4836.92	248.635	4.77
11207.00	89.390	323.590	8140.68	1309.73	-1685.16	-4560.19	1786032.26	394388.52	39°34'51.6006"N	80°08'50.6250"W	4861.60	249.719	2.10
11302.00	89.720	323.800	8141.42	1404.73	-1608.61	-4616.44	1785976.02	394465.07	39°34'52.3532"N	80°08'51.3504"W	4888.67	250.789	0.41
11397.00	89.480	323.330	8142.08	1499.72	-1532.18	-4672.86	1785919.60	394541.49	39°34'53.1045"N	80°08'52.0780"W	4917.64	251.846	0.56
11491.00	88.830	323.520	8143.47	1593.71	-1456.70	-4728.86	1785863.60	394616.97	39°34'53.8465"N	80°08'52.8003"W	4948.14	252.879	0.72
11585.00	89.290	324.290	8145.01	1687.69	-1380.75	-4784.23	1785808.23	394692.91	39°34'54.5931"N	80°08'53.5144"W	4979.49	253.902	0.95
11679.00	89.050	323.590	8146.37	1781.68	-1304.77	-4839.56	1785752.91	394768.89	39°34'55.3400"N	80°08'54.2280"W	5012.36	254.911	0.79
11773.00	89.260	323.590	8147.76	1875.67	-1229.13	-4895.35	1785697.12	394844.52	39°34'56.0836"N	80°08'54.9475"W	5047.29	255.905	0.22
11868.00	90.800	323.760	8147.71	1970.66	-1152.59	-4951.62	1785640.85	394921.06	39°34'56.8360"N	80°08'55.6733"W	5083.99	256.897	1.63
11963.00	91.450	323.730	8145.84	2065.64	-1076.00	-5007.79	1785584.69	394997.64	39°34'57.5889"N	80°08'56.3978"W	5122.08	257.873	0.68
12057.00	91.570	323.730	8143.37	2159.61	-1000.24	-5063.38	1785529.10	395073.40	39°34'58.3337"N	80°08'57.1147"W	5161.23	258.825	0.13
12152.00	91.570	324.060	8140.76	2254.57	-923.52	-5119.34	1785473.14	395150.12	39°34'59.0879"N	80°08'57.8365"W	5201.97	259.774	0.35
12246.00	91.720	324.240	8138.06	2348.53	-847.36	-5174.37	1785418.12	395226.28	39°34'59.8367"N	80°08'58.5464"W	5243.29	260.700	0.25
12341.00	90.650	324.020	8136.10	2443.51	-770.39	-5230.02	1785362.47	395303.24	39°35'0.5933"N	80°08'59.2643"W	5286.46	261.620	1.15
12436.00	90.340	323.630	8135.28	2538.50	-693.71	-5286.09	1785306.40	395379.91	39°35'1.3472"N	80°08'59.9876"W	5331.42	262.524	0.52
12531.00	91.170	323.820	8134.03	2633.49	-617.13	-5342.29	1785250.20	395456.49	39°35'2.1000"N	80°09'0.7125"W	5377.82	263.411	0.90
12625.00	91.290	324.120	8132.01	2727.47	-541.13	-5397.57	1785194.93	395532.49	39°35'2.8471"N	80°09'1.4255"W	5424.63	264.275	0.34
12721.00	90.830	323.300	8130.23	2823.45	-463.76	-5454.38	1785138.12	395609.85	39°35'3.6076"N	80°09'2.1582"W	5474.06	265.140	0.98
12815.00	91.810	324.000	8128.07	2917.42	-388.07	-5510.08	1785082.42	395685.53	39°35'4.3516"N	80°09'2.8767"W	5523.73	265.971	1.28
12910.00	91.750	324.180	8125.12	3012.38	-311.17	-5565.77	1785026.74	395762.43	39°35'5.1077"N	80°09'3.5951"W	5574.47	266.800	0.20
13005.00	91.720	324.020	8122.24	3107.33	-234.25	-5621.45	1784971.06	395839.35	39°35'5.8639"N	80°09'4.3134"W	5626.33	267.614	0.17
13100.00	91.780	323.880	8119.34	3202.29	-157.48	-5677.33	1784915.18	395916.11	39°35'6.6186"N	80°09'5.0342"W	5679.52	268.411	0.16
13195.00	93.940	324.100	8114.60	3297.16	-80.73	-5733.11	1784859.41	395992.85	39°35'7.3731"N	80°09'5.7537"W	5733.68	269.193	2.29
13290.00	96.160	324.800	8106.24	3391.79	-3.74	-5788.13	1784804.39	396069.84	39°35'8.1300"N	80°09'6.4636"W	5788.13	269.963	2.45
13385.00	93.850	323.480	8097.95	3486.42	72.95	-5843.57	1784748.96	396146.52	39°35'8.8839"N	80°09'7.1787"W	5844.02	270.715	2.80

29674

REFERENCE WELLPATH IDENTIFICATION

Operator	MARION NATURAL ENERGY	Well	Green Lakes 15H
Field	Monongalia	UWI	47049025890000
Facility	Green Lakes Pad	Wellbore	Green Lakes 15H AWP
Slot	15H		

WELLPATH DATA (323 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]
13479.00	94.280	323.180	8091.29	3580.17	148.15	-5899.56	1784692.97	396221.73	39°35'9.6231"N	80°09'7.9009"W	5901.42	271.439	0.56
13574.00	94.460	323.960	8084.05	3674.89	224.37	-5955.81	1784636.72	396297.93	39°35'10.3723"N	80°09'8.6264"W	5960.04	272.157	0.84
13669.00	92.580	324.020	8078.22	3769.71	301.07	-6011.56	1784580.98	396374.63	39°35'11.1263"N	80°09'9.3456"W	6019.09	272.867	1.98
13763.00	94.400	324.880	8072.49	3863.53	377.40	-6066.11	1784526.43	396450.96	39°35'11.8768"N	80°09'10.0494"W	6077.84	273.560	2.14
13859.00	96.250	324.280	8063.58	3959.10	455.29	-6121.50	1784471.04	396528.84	39°35'12.6426"N	80°09'10.7642"W	6138.41	274.254	2.03
13953.00	96.870	324.170	8052.85	4052.49	531.05	-6176.10	1784416.45	396604.60	39°35'13.3874"N	80°09'11.4685"W	6198.89	274.915	0.67
14048.00	97.990	324.500	8040.56	4146.69	607.59	-6231.02	1784361.53	396681.13	39°35'14.1398"N	80°09'12.1771"W	6260.57	275.569	1.23
14143.00	97.950	324.760	8027.39	4240.76	684.30	-6285.48	1784307.07	396757.84	39°35'14.8941"N	80°09'12.8798"W	6322.62	276.213	0.27
14238.00	96.590	324.680	8015.37	4334.99	761.23	-6339.91	1784252.65	396834.76	39°35'15.6504"N	80°09'13.5822"W	6385.44	276.847	1.43
14333.00	94.650	324.680	8006.06	4429.53	838.37	-6394.56	1784198.00	396911.90	39°35'16.4088"N	80°09'14.2875"W	6449.29	277.469	2.04
14428.00	91.480	323.980	8000.99	4524.38	915.42	-6449.87	1784142.69	396988.95	39°35'17.1664"N	80°09'15.0011"W	6514.51	278.078	3.42
14523.00	90.830	324.630	7999.07	4619.36	992.56	-6505.29	1784087.28	397066.08	39°35'17.9247"N	80°09'15.7161"W	6580.58	278.675	0.97
14617.00	89.720	323.710	7998.62	4713.35	1068.77	-6560.31	1784032.26	397142.28	39°35'18.6739"N	80°09'16.4260"W	6646.80	279.253	1.53
14712.00	89.660	324.180	7999.13	4808.35	1145.57	-6616.23	1783976.35	397219.08	39°35'19.4289"N	80°09'17.1474"W	6714.67	279.823	0.50
14806.00	89.290	324.410	7999.99	4902.35	1221.90	-6671.08	1783921.49	397295.40	39°35'20.1792"N	80°09'17.8552"W	6782.06	280.379	0.46
14901.00	88.950	323.800	8001.45	4997.33	1298.85	-6726.78	1783865.80	397372.35	39°35'20.9357"N	80°09'18.5737"W	6851.02	280.929	0.74
14996.00	92.090	324.110	8000.59	5092.32	1375.65	-6782.67	1783809.92	397449.14	39°35'21.6907"N	80°09'19.2947"W	6920.76	281.465	3.32
15090.00	91.720	324.030	7997.47	5186.27	1451.72	-6837.79	1783754.79	397525.21	39°35'22.4385"N	80°09'20.0060"W	6990.20	281.986	0.40
15185.00	89.200	323.600	7996.70	5281.25	1528.39	-6893.88	1783698.71	397601.87	39°35'23.1921"N	80°09'20.7295"W	7061.27	282.500	2.69
15281.00	90.150	324.260	7997.25	5377.25	1605.98	-6950.40	1783642.20	397679.46	39°35'23.9549"N	80°09'21.4586"W	7133.53	283.011	1.20
15375.00	91.080	324.550	7996.24	5471.24	1682.41	-7005.11	1783587.49	397755.89	39°35'24.7063"N	80°09'22.1646"W	7204.31	283.505	1.04
15469.00	89.780	324.310	7995.53	5565.24	1758.87	-7059.78	1783532.82	397832.34	39°35'25.4579"N	80°09'22.8701"W	7275.59	283.990	1.41
15564.00	89.200	324.060	7996.38	5660.23	1835.90	-7115.37	1783477.23	397909.37	39°35'26.2152"N	80°09'23.5874"W	7348.40	284.468	0.66
15659.00	88.400	323.880	7998.37	5755.21	1912.71	-7171.24	1783421.37	397986.17	39°35'26.9703"N	80°09'24.3081"W	7421.94	284.934	0.86
15753.00	88.520	323.640	8000.90	5849.17	1988.50	-7226.79	1783365.82	398061.96	39°35'27.7153"N	80°09'25.0248"W	7495.37	285.385	0.29
15848.00	89.080	324.260	8002.89	5944.15	2065.29	-7282.68	1783309.93	398138.74	39°35'28.4701"N	80°09'25.7459"W	7569.87	285.833	0.88
15943.00	88.890	323.720	8004.57	6039.14	2142.12	-7338.53	1783254.09	398215.57	39°35'29.2254"N	80°09'26.4664"W	7644.78	286.273	0.60
16038.00	88.890	323.840	8006.41	6134.12	2218.75	-7394.65	1783197.97	398292.20	39°35'29.9787"N	80°09'27.1905"W	7720.34	286.702	0.13
16133.00	89.020	323.830	8008.14	6229.10	2295.43	-7450.70	1783141.92	398368.87	39°35'30.7324"N	80°09'27.9136"W	7796.28	287.123	0.14
16228.00	89.200	323.980	8009.62	6324.09	2372.19	-7506.66	1783085.97	398445.62	39°35'31.4869"N	80°09'28.6356"W	7872.56	287.537	0.25

use

Actual Wellpath Report

Green Lakes 15H AWP PROJ: 29674'
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REFERENCE WELLPATH IDENTIFICATION

Operator	MARION NATURAL ENERGY	Well	Green Lakes 15H
Field	Monongalia	UWI	47049025890000
Facility	Green Lakes Pad	Wellbore	Green Lakes 15H AWB
Slot	15H		

WELLPATH DATA (323 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]
16323.00	89.660	324.130	8010.56	6419.08	2449.10	-7562.42	1783030.21	398522.53	39°35'32.2429"N	80°09'29.3551"W	7949.11	287.945	0.51
16418.00	90.400	324.050	8010.51	6514.08	2526.04	-7618.14	1782974.49	398599.46	39°35'32.9993"N	80°09'30.0740"W	8026.02	288.345	0.78
16512.00	90.430	323.870	8009.83	6608.08	2602.05	-7673.45	1782919.19	398675.47	39°35'33.7465"N	80°09'30.7876"W	8102.62	288.732	0.19
16607.00	90.180	323.770	8009.33	6703.08	2678.73	-7729.53	1782863.12	398752.14	39°35'34.5002"N	80°09'31.5111"W	8180.53	289.114	0.28
16702.00	89.600	323.930	8009.51	6798.08	2755.44	-7785.57	1782807.08	398828.85	39°35'35.2543"N	80°09'32.2341"W	8258.78	289.490	0.63
16797.00	88.950	323.510	8010.71	6893.07	2832.01	-7841.78	1782750.87	398905.42	39°35'36.0070"N	80°09'32.9593"W	8337.49	289.857	0.81
16891.00	88.430	323.730	8012.86	6987.04	2907.67	-7897.52	1782695.14	398981.07	39°35'36.7506"N	80°09'33.6784"W	8415.78	290.212	0.60
16986.00	88.740	323.900	8015.20	7082.01	2984.32	-7953.59	1782639.07	399057.72	39°35'37.5041"N	80°09'34.4019"W	8495.04	290.567	0.37
17082.00	89.290	324.020	8016.85	7177.99	3061.94	-8010.06	1782582.60	399135.33	39°35'38.2671"N	80°09'35.1305"W	8575.34	290.920	0.59
17177.00	89.480	324.250	8017.87	7272.99	3138.92	-8065.71	1782526.95	399212.31	39°35'39.0238"N	80°09'35.8487"W	8654.97	291.264	0.31
17272.00	89.290	323.930	8018.89	7367.98	3215.86	-8121.43	1782471.24	399289.24	39°35'39.7802"N	80°09'36.5676"W	8734.95	291.602	0.39
17367.00	88.860	323.150	8020.43	7462.96	3292.26	-8177.88	1782414.79	399365.63	39°35'40.5311"N	80°09'37.2958"W	8815.70	291.929	0.94
17461.00	88.030	322.700	8022.98	7556.91	3367.22	-8234.52	1782358.15	399440.60	39°35'41.2678"N	80°09'38.0265"W	8896.38	292.240	1.00
17556.00	88.120	324.010	8026.17	7651.85	3443.40	-8291.19	1782301.48	399516.77	39°35'42.0166"N	80°09'38.7575"W	8977.80	292.554	1.38
17651.00	88.090	324.970	8029.31	7746.79	3520.69	-8346.34	1782246.34	399594.06	39°35'42.7764"N	80°09'39.4693"W	9058.51	292.871	1.01
17745.00	88.740	324.910	8031.91	7840.74	3597.61	-8400.32	1782192.37	399670.97	39°35'43.5326"N	80°09'40.1660"W	9138.28	293.184	0.69
17840.00	88.890	324.990	8033.88	7935.71	3675.36	-8454.86	1782137.82	399748.72	39°35'44.2970"N	80°09'40.8701"W	9219.16	293.495	0.18
17935.00	88.710	324.800	8035.87	8030.68	3753.06	-8509.48	1782083.21	399826.41	39°35'45.0610"N	80°09'41.5752"W	9300.36	293.800	0.28
18031.00	88.800	324.910	8037.95	8126.65	3831.54	-8564.73	1782027.96	399904.89	39°35'45.8326"N	80°09'42.2883"W	9382.72	294.102	0.15
18125.00	88.710	324.980	8039.99	8220.62	3908.47	-8618.71	1781973.99	399981.82	39°35'46.5889"N	80°09'42.9851"W	9463.53	294.394	0.12
18220.00	88.620	324.960	8042.21	8315.58	3986.24	-8673.23	1781919.47	400059.58	39°35'47.3535"N	80°09'43.6888"W	9545.42	294.684	0.10
18315.00	88.860	325.310	8044.30	8410.54	4064.17	-8727.52	1781865.18	400137.50	39°35'48.1197"N	80°09'44.3897"W	9627.41	294.970	0.45
18410.00	89.390	324.730	8045.75	8505.52	4142.00	-8781.97	1781810.73	400215.33	39°35'48.8849"N	80°09'45.0927"W	9709.75	295.251	0.83
18505.00	89.390	325.010	8046.76	8600.50	4219.69	-8836.64	1781756.07	400293.01	39°35'49.6487"N	80°09'45.7983"W	9792.44	295.526	0.29
18600.00	90.250	326.130	8047.06	8695.47	4298.05	-8890.35	1781702.36	400371.37	39°35'50.4192"N	80°09'46.4918"W	9874.79	295.801	1.49
18695.00	88.370	324.680	8048.20	8790.43	4376.24	-8944.28	1781648.44	400449.55	39°35'51.1880"N	80°09'47.1881"W	9957.49	296.071	2.50
18790.00	88.340	324.570	8050.93	8885.39	4453.67	-8999.25	1781593.47	400526.98	39°35'51.9492"N	80°09'47.8977"W	10041.00	296.330	0.12
18885.00	88.250	325.150	8053.75	8980.34	4531.32	-9053.91	1781538.81	400604.62	39°35'52.7126"N	80°09'48.6032"W	10124.53	296.587	0.62
18979.00	86.920	325.240	8057.72	9074.23	4608.43	-9107.51	1781485.21	400681.73	39°35'53.4708"N	80°09'49.2953"W	10207.08	296.840	1.42
19074.00	87.140	324.810	8062.64	9169.09	4686.17	-9161.90	1781430.83	400759.46	39°35'54.2351"N	80°09'49.9974"W	10290.80	297.089	0.51

JUN 02 2026

WV Department of
Environmental Protection

296734

REFERENCE WELLPATH IDENTIFICATION

Operator	MARION NATURAL ENERGY	Well	Green Lakes 15H
Field	Monongalia	UWI	47049025890000
Facility	Green Lakes Pad	Wellbore	Green Lakes 15H AWB
Slot	15H		

WELLPATH DATA (323 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]
19169.00	87.080	325.010	8067.43	9263.96	4763.81	-9216.44	1781376.29	400837.10	39°35'54.9983"N	80°09'50.7015"W	10374.81	297.334	0.22
19263.00	88.520	325.230	8071.04	9357.87	4840.86	-9270.15	1781322.58	400914.14	39°35'55.7559"N	80°09'51.3949"W	10457.99	297.573	1.55
19357.00	87.880	324.930	8073.99	9451.81	4917.90	-9323.93	1781268.80	400991.18	39°35'56.5133"N	80°09'52.0893"W	10541.42	297.809	0.75
19451.00	88.000	323.870	8077.37	9545.75	4994.28	-9378.62	1781214.12	401067.55	39°35'57.2642"N	80°09'52.7951"W	10625.50	298.036	1.13
19546.00	88.060	323.830	8080.63	9640.69	5070.94	-9434.63	1781158.12	401144.21	39°35'58.0177"N	80°09'53.5178"W	10711.05	298.257	0.08
19641.00	88.400	323.830	8083.57	9735.65	5147.60	-9490.67	1781102.08	401220.86	39°35'58.7712"N	80°09'54.2410"W	10796.78	298.475	0.36
19736.00	88.560	324.130	8086.09	9830.61	5224.41	-9546.51	1781046.24	401297.67	39°35'59.5262"N	80°09'54.9617"W	10882.57	298.690	0.36
19830.00	89.940	323.630	8087.32	9924.60	5300.33	-9601.92	1780990.84	401373.59	39°36'0.2725"N	80°09'55.6766"W	10967.69	298.899	1.56
19925.00	89.140	323.410	8088.08	10019.59	5376.71	-9658.40	1780934.36	401449.96	39°36'1.0232"N	80°09'56.4054"W	11054.12	299.104	0.87
20020.00	89.540	323.870	8089.18	10114.58	5453.21	-9714.71	1780878.05	401526.46	39°36'1.7751"N	80°09'57.1321"W	11140.61	299.307	0.64
20115.00	89.480	323.880	8089.99	10209.58	5529.94	-9770.72	1780822.05	401603.19	39°36'2.5293"N	80°09'57.8548"W	11227.08	299.509	0.06
20210.00	89.600	324.710	8090.75	10304.57	5607.08	-9826.16	1780766.61	401680.32	39°36'3.2876"N	80°09'58.5704"W	11313.39	299.710	0.88
20305.00	89.970	323.990	8091.11	10399.57	5684.28	-9881.53	1780711.24	401757.51	39°36'4.0465"N	80°09'59.2851"W	11399.81	299.909	0.85
20399.00	90.280	324.430	8090.90	10493.57	5760.53	-9936.50	1780656.28	401833.76	39°36'4.7960"N	80°09'59.9946"W	11485.54	300.102	0.57
20493.00	90.490	324.450	8090.27	10587.57	5837.00	-9991.17	1780601.61	401910.22	39°36'5.5477"N	80°10'0.7002"W	11571.25	300.294	0.22
20588.00	90.090	323.890	8089.79	10682.57	5914.02	-10046.78	1780546.01	401987.23	39°36'6.3048"N	80°10'1.4180"W	11658.19	300.483	0.72
20682.00	89.630	323.840	8090.02	10776.56	5989.93	-10102.21	1780490.58	402063.15	39°36'7.0510"N	80°10'2.1333"W	11744.52	300.665	0.49
20777.00	89.600	323.800	8090.66	10871.56	6066.61	-10158.29	1780434.50	402139.82	39°36'7.8046"N	80°10'2.8570"W	11831.93	300.846	0.05
20871.00	90.000	324.160	8090.99	10965.56	6142.64	-10213.56	1780379.23	402215.84	39°36'8.5519"N	80°10'3.5704"W	11918.43	301.024	0.57
20966.00	90.520	324.030	8090.55	11060.56	6219.59	-10269.27	1780323.52	402292.79	39°36'9.3083"N	80°10'4.2895"W	12005.88	301.201	0.56
21060.00	89.880	323.720	8090.23	11154.56	6295.51	-10324.69	1780268.11	402368.71	39°36'10.0546"N	80°10'5.0047"W	12092.67	301.373	0.76
21154.00	90.030	323.910	8090.30	11248.56	6371.38	-10380.19	1780212.61	402444.57	39°36'10.8003"N	80°10'5.7209"W	12179.61	301.542	0.26
21250.00	89.970	323.910	8090.30	11344.56	6448.96	-10436.74	1780156.07	402522.15	39°36'11.5628"N	80°10'6.4507"W	12268.44	301.712	0.06
21344.00	90.090	324.130	8090.25	11438.56	6525.03	-10491.96	1780100.85	402598.21	39°36'12.3105"N	80°10'7.1635"W	12355.45	301.878	0.27
21438.00	90.000	323.890	8090.18	11532.55	6601.08	-10547.20	1780045.61	402674.26	39°36'13.0581"N	80°10'7.8764"W	12442.58	302.041	0.27
21533.00	89.780	324.110	8090.36	11627.55	6677.94	-10603.04	1779989.78	402751.11	39°36'13.8135"N	80°10'8.5971"W	12530.74	302.203	0.33
21629.00	89.390	323.990	8091.05	11723.55	6755.65	-10659.40	1779933.42	402828.82	39°36'14.5774"N	80°10'9.3246"W	12619.89	302.365	0.43
21723.00	89.390	324.260	8092.06	11817.55	6831.82	-10714.48	1779878.34	402904.98	39°36'15.3260"N	80°10'10.0355"W	12707.23	302.523	0.29
21817.00	90.000	323.730	8092.56	11911.54	6907.86	-10769.74	1779823.09	402981.01	39°36'16.0735"N	80°10'10.7487"W	12794.76	302.677	0.86
21912.00	90.520	324.360	8092.12	12006.54	6984.76	-10825.52	1779767.31	403057.91	39°36'16.8293"N	80°10'11.4687"W	12883.27	302.831	0.86

29674

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WELLPATH DATA (323 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]
22007.00	90.950	324.050	8090.91	12101.53	7061.80	-10881.08	1779711.76	403134.95	39°36'17.5867"N	80°10'12.1858"W	12971.77	302.984	0.56
22102.00	91.290	323.820	8089.05	12196.52	7138.58	-10936.99	1779655.84	403211.73	39°36'18.3414"N	80°10'12.9075"W	13060.52	303.133	0.43
22196.00	92.770	324.240	8085.72	12290.45	7214.61	-10992.17	1779600.67	403287.75	39°36'19.0886"N	80°10'13.6197"W	13148.32	303.279	1.64
22291.00	93.380	324.110	8080.62	12385.32	7291.52	-11047.69	1779545.15	403364.66	39°36'19.8447"N	80°10'14.3364"W	13236.99	303.425	0.66
22387.00	92.340	324.170	8075.83	12481.19	7369.23	-11103.86	1779488.99	403442.36	39°36'20.6085"N	80°10'15.0614"W	13326.71	303.571	1.09
22481.00	92.430	324.170	8071.92	12575.11	7445.38	-11158.84	1779434.01	403518.50	39°36'21.3569"N	80°10'15.7711"W	13414.67	303.712	0.10
22576.00	92.150	322.740	8068.13	12670.03	7521.63	-11215.36	1779377.50	403594.76	39°36'22.1064"N	80°10'16.5005"W	13504.05	303.848	1.53
22671.00	92.180	323.550	8064.54	12764.95	7597.59	-11272.30	1779320.56	403670.71	39°36'22.8529"N	80°10'17.2352"W	13593.68	303.980	0.85
22766.00	91.910	323.860	8061.15	12859.88	7674.11	-11328.50	1779264.36	403747.23	39°36'23.6050"N	80°10'17.9605"W	13683.09	304.114	0.43
22860.00	90.770	323.340	8058.95	12953.85	7749.75	-11384.26	1779208.60	403822.86	39°36'24.3483"N	80°10'18.6802"W	13771.71	304.245	1.33
22955.00	91.040	324.390	8057.45	13048.84	7826.47	-11440.27	1779152.59	403899.57	39°36'25.1023"N	80°10'19.4032"W	13861.22	304.377	1.14
23049.00	92.340	324.200	8054.68	13142.80	7902.76	-11495.11	1779097.76	403975.86	39°36'25.8523"N	80°10'20.1111"W	13949.59	304.508	1.40
23143.00	93.010	324.660	8050.29	13236.69	7979.14	-11549.73	1779043.15	404052.23	39°36'26.6031"N	80°10'20.8162"W	14037.91	304.639	0.86
23238.00	92.980	324.250	8045.33	13331.56	8056.33	-11604.88	1778988.00	404129.42	39°36'27.3618"N	80°10'21.5282"W	14127.20	304.769	0.43
23332.00	93.050	323.990	8040.38	13425.43	8132.39	-11659.90	1778932.98	404205.47	39°36'28.1094"N	80°10'22.2384"W	14215.80	304.894	0.29
23426.00	92.550	323.830	8035.79	13519.32	8208.26	-11715.20	1778877.68	404281.34	39°36'28.8551"N	80°10'22.9523"W	14304.59	305.017	0.56
23521.00	92.060	323.960	8031.97	13614.24	8284.95	-11771.14	1778821.75	404358.02	39°36'29.6089"N	80°10'23.6743"W	14394.44	305.139	0.53
23615.00	92.150	324.380	8028.52	13708.17	8361.11	-11826.13	1778766.77	404434.18	39°36'30.3575"N	80°10'24.3842"W	14483.28	305.260	0.46
23710.00	92.340	324.330	8024.79	13803.10	8438.25	-11881.44	1778711.45	404511.32	39°36'31.1158"N	80°10'25.0983"W	14573.02	305.383	0.21
23805.00	92.210	324.180	8021.02	13898.03	8515.29	-11936.90	1778656.00	404588.35	39°36'31.8731"N	80°10'25.8142"W	14662.87	305.503	0.21
23899.00	92.280	324.100	8017.34	13991.95	8591.42	-11991.92	1778600.98	404664.47	39°36'32.6213"N	80°10'26.5246"W	14751.90	305.619	0.11
23994.00	92.280	324.120	8013.56	14086.88	8668.32	-12047.57	1778545.34	404741.37	39°36'33.3772"N	80°10'27.2429"W	14841.96	305.735	0.02
24089.00	92.370	324.270	8009.71	14181.80	8745.30	-12103.10	1778489.81	404818.35	39°36'34.1339"N	80°10'27.9598"W	14932.03	305.851	0.18
24184.00	92.550	324.460	8005.63	14276.71	8822.44	-12158.40	1778434.51	404895.48	39°36'34.8921"N	80°10'28.6738"W	15022.06	305.966	0.28
24279.00	92.180	324.110	8001.71	14371.63	8899.51	-12213.81	1778379.11	404972.55	39°36'35.6496"N	80°10'29.3891"W	15112.19	306.079	0.54
24373.00	91.570	323.860	7998.63	14465.58	8975.50	-12269.05	1778323.87	405048.53	39°36'36.3965"N	80°10'30.1022"W	15201.62	306.188	0.70
24468.00	90.770	324.220	7996.69	14560.56	9052.38	-12324.82	1778268.10	405125.41	39°36'37.1522"N	80°10'30.8222"W	15292.05	306.297	0.92
24563.00	92.520	324.070	7993.97	14655.51	9129.34	-12380.44	1778212.48	405202.37	39°36'37.9086"N	80°10'31.5403"W	15382.47	306.405	1.85
24656.00	94.000	324.320	7988.68	14748.36	9204.64	-12434.76	1778158.17	405277.66	39°36'38.6488"N	80°10'32.2415"W	15470.90	306.510	1.61
24751.00	92.400	324.620	7983.38	14843.21	9281.83	-12489.88	1778103.05	405354.85	39°36'39.4075"N	80°10'32.9532"W	15561.16	306.618	1.71

28858

REFERENCE WELLPATH IDENTIFICATION

Operator	MARION NATURAL ENERGY	Well	Green Lakes 15H
Field	Monongalia	UWI	47049025890000
Facility	Green Lakes Pad	Wellbore	Green Lakes 15H AWB
Slot	15H		

WELLPATH DATA (323 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]
24845.00	92.640	324.340	7979.24	14937.11	9358.27	-12544.44	1778048.49	405431.28	39°36'40.1588"N	80°10'33.6577"W	15650.56	306.723	0.39
24940.00	93.720	324.280	7973.97	15031.97	9435.30	-12599.78	1777993.16	405508.31	39°36'40.9160"N	80°10'34.3721"W	15741.01	306.828	1.14
25034.00	93.720	325.040	7967.87	15125.76	9511.82	-12654.03	1777938.91	405584.82	39°36'41.6682"N	80°10'35.0727"W	15830.33	306.932	0.81
25129.00	93.910	324.240	7961.55	15220.55	9589.12	-12708.89	1777884.06	405662.12	39°36'42.4281"N	80°10'35.7811"W	15920.65	307.035	0.86
25224.00	93.070	324.310	7955.77	15315.37	9666.10	-12764.26	1777828.69	405739.09	39°36'43.1847"N	80°10'36.4959"W	16011.24	307.136	0.89
25319.00	92.340	323.870	7951.29	15410.26	9742.96	-12819.91	1777773.04	405815.95	39°36'43.9402"N	80°10'37.2144"W	16102.03	307.234	0.90
25414.00	91.290	324.240	7948.28	15505.21	9819.83	-12875.65	1777717.31	405892.81	39°36'44.6957"N	80°10'37.9340"W	16192.95	307.332	1.17
25509.00	91.320	324.500	7946.11	15600.19	9897.03	-12930.98	1777661.98	405970.00	39°36'45.4545"N	80°10'38.6484"W	16283.78	307.429	0.28
25604.00	90.280	324.100	7944.79	15695.18	9974.17	-12986.41	1777606.55	406047.14	39°36'46.2127"N	80°10'39.3641"W	16374.70	307.526	1.17
25700.00	91.140	324.430	7943.60	15791.17	10052.09	-13042.47	1777550.50	406125.05	39°36'46.9785"N	80°10'40.0879"W	16466.65	307.622	0.96
25795.00	90.770	323.970	7942.01	15886.15	10129.13	-13098.03	1777494.94	406202.09	39°36'47.7358"N	80°10'40.8053"W	16557.71	307.716	0.62
25890.00	90.120	324.200	7941.28	15981.15	10206.06	-13153.76	1777439.22	406279.02	39°36'48.4920"N	80°10'41.5247"W	16648.88	307.808	0.73
25984.00	89.850	323.610	7941.30	16075.15	10282.02	-13209.13	1777383.84	406354.97	39°36'49.2385"N	80°10'42.2396"W	16739.21	307.897	0.69
26079.00	90.490	324.140	7941.02	16170.15	10358.75	-13265.14	1777327.84	406431.70	39°36'49.9926"N	80°10'42.9627"W	16830.56	307.986	0.87
26175.00	90.180	323.780	7940.46	16266.15	10436.38	-13321.62	1777271.36	406509.32	39°36'50.7555"N	80°10'43.6919"W	16922.87	308.076	0.49
26269.00	90.090	324.000	7940.24	16360.14	10512.32	-13377.02	1777215.97	406585.26	39°36'51.5019"N	80°10'44.4070"W	17013.33	308.162	0.25
26364.00	88.770	323.660	7941.18	16455.14	10589.00	-13433.08	1777159.91	406661.94	39°36'52.2556"N	80°10'45.1308"W	17104.81	308.248	1.43
26459.00	88.030	324.020	7943.83	16550.10	10665.67	-13489.11	1777103.88	406738.60	39°36'53.0091"N	80°10'45.8542"W	17196.30	308.333	0.87
26554.00	89.080	323.880	7946.23	16645.07	10742.45	-13545.00	1777047.99	406815.38	39°36'53.7637"N	80°10'46.5757"W	17287.78	308.418	1.12
26649.00	89.080	323.970	7947.76	16740.05	10819.23	-13600.94	1776992.06	406892.15	39°36'54.5183"N	80°10'47.2978"W	17379.33	308.501	0.09
26744.00	88.710	323.820	7949.59	16835.03	10895.97	-13656.90	1776936.10	406968.88	39°36'55.2725"N	80°10'48.0204"W	17470.92	308.584	0.42
26839.00	89.660	323.720	7950.94	16930.02	10972.59	-13713.05	1776879.96	407045.50	39°36'56.0255"N	80°10'48.7452"W	17562.61	308.665	1.01
26934.00	88.860	323.710	7952.17	17025.01	11049.16	-13769.26	1776823.75	407122.07	39°36'56.7781"N	80°10'49.4710"W	17654.36	308.745	0.84
27028.00	89.780	323.960	7953.28	17119.00	11125.04	-13824.73	1776768.29	407197.95	39°36'57.5238"N	80°10'50.1870"W	17745.13	308.824	1.01
27123.00	89.480	323.690	7953.89	17214.00	11201.73	-13880.80	1776712.22	407274.62	39°36'58.2775"N	80°10'50.9110"W	17836.91	308.903	0.42
27219.00	89.510	324.080	7954.74	17310.00	11279.28	-13937.38	1776655.64	407352.17	39°36'59.0396"N	80°10'51.6415"W	17929.66	308.983	0.41
27313.00	88.890	323.830	7956.05	17403.99	11355.27	-13992.69	1776600.34	407428.16	39°36'59.7865"N	80°10'52.3555"W	18020.48	309.060	0.71
27408.00	88.430	323.930	7958.28	17498.96	11431.99	-14048.67	1776544.35	407504.87	39°37'0.5405"N	80°10'53.0783"W	18112.31	309.137	0.50
27504.00	88.770	324.080	7960.62	17594.93	11509.64	-14105.08	1776487.95	407582.52	39°37'1.3036"N	80°10'53.8066"W	18205.08	309.214	0.39
27598.00	89.260	324.240	7962.24	17688.92	11585.83	-14160.11	1776432.93	407658.70	39°37'2.0525"N	80°10'54.5172"W	18295.90	309.290	0.55

29674

REFERENCE WELLPATH IDENTIFICATION

Operator	MARION NATURAL ENERGY	Well	Green Lakes 15H
Field	Monongalia	UWI	47049025890000
Facility	Green Lakes Pad	Wellbore	Green Lakes 15H AWB
Slot	15H		

WELLPATH DATA (323 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]
27693.00	89.850	324.210	7962.97	17783.91	11662.90	-14215.64	1776377.39	407735.77	39°37'2.8100"N	80°10'55.2343"W	18387.71	309.366	0.62
27788.00	90.430	324.260	7962.74	17878.91	11739.99	-14271.17	1776321.87	407812.85	39°37'3.5676"N	80°10'55.9513"W	18479.54	309.442	0.61
27883.00	92.210	323.410	7960.55	17973.88	11816.66	-14327.21	1776265.83	407889.52	39°37'4.3212"N	80°10'56.6749"W	18571.55	309.515	2.08
27976.00	91.910	324.300	7957.21	18066.82	11891.71	-14382.03	1776211.02	407964.56	39°37'5.0587"N	80°10'57.3826"W	18661.60	309.585	1.01
28071.00	90.520	323.670	7955.20	18161.79	11968.53	-14437.87	1776155.18	408041.38	39°37'5.8138"N	80°10'58.1037"W	18753.61	309.658	1.61
28166.00	89.320	323.650	7955.33	18256.79	12045.05	-14494.17	1776098.89	408117.90	39°37'6.5658"N	80°10'58.8305"W	18845.80	309.728	1.26
28261.00	90.680	323.790	7955.33	18351.79	12121.63	-14550.38	1776042.68	408194.47	39°37'7.3184"N	80°10'59.5562"W	18937.99	309.797	1.44
28355.00	91.290	324.250	7953.71	18445.77	12197.69	-14605.60	1775987.46	408270.52	39°37'8.0659"N	80°11'0.2692"W	19029.11	309.867	0.81
28449.00	89.970	324.120	7952.68	18539.76	12273.91	-14660.60	1775932.47	408346.74	39°37'8.8150"N	80°11'0.9795"W	19120.20	309.936	1.41
28544.00	89.910	324.000	7952.78	18634.76	12350.82	-14716.36	1775876.71	408423.65	39°37'9.5709"N	80°11'1.6995"W	19212.34	310.005	0.14
28639.00	89.820	323.920	7953.00	18729.76	12427.64	-14772.25	1775820.82	408500.46	39°37'10.3259"N	80°11'2.4212"W	19304.55	310.073	0.13
28733.00	89.910	323.990	7953.22	18823.76	12503.64	-14827.56	1775765.51	408576.46	39°37'11.0728"N	80°11'3.1354"W	19395.82	310.140	0.12
28828.00	90.150	324.120	7953.17	18918.76	12580.55	-14883.33	1775709.75	408653.37	39°37'11.8287"N	80°11'3.8555"W	19488.04	310.207	0.29
28922.00	89.820	323.910	7953.20	19012.76	12656.62	-14938.56	1775654.52	408729.42	39°37'12.5762"N	80°11'4.5687"W	19579.34	310.273	0.42
29017.00	89.940	323.750	7953.40	19107.76	12733.31	-14994.63	1775598.46	408806.11	39°37'13.3299"N	80°11'5.2926"W	19671.70	310.338	0.21
29111.00	89.720	323.590	7953.68	19201.76	12809.03	-15050.31	1775542.77	408881.83	39°37'14.0741"N	80°11'6.0116"W	19763.18	310.400	0.29
29206.00	89.260	323.800	7954.52	19296.75	12885.59	-15106.56	1775486.53	408958.38	39°37'14.8265"N	80°11'6.7378"W	19855.64	310.464	0.53
29301.00	89.480	323.990	7955.57	19391.74	12962.34	-15162.54	1775430.56	409035.13	39°37'15.5807"N	80°11'7.4606"W	19948.05	310.527	0.31
29395.00	89.450	323.800	7956.45	19485.74	13038.28	-15217.93	1775375.17	409111.07	39°37'16.3271"N	80°11'8.1759"W	20039.51	310.589	0.20
29490.00	89.570	324.130	7957.26	19580.74	13115.10	-15273.81	1775319.29	409187.88	39°37'17.0820"N	80°11'8.8975"W	20131.94	310.652	0.37
29585.00	89.420	323.740	7958.09	19675.73	13191.89	-15329.73	1775263.37	409264.67	39°37'17.8367"N	80°11'9.6196"W	20224.41	310.713	0.44
29649.00	89.420	323.830	7958.74	19739.73	13243.52	-15367.55	1775225.56	409316.30	39°37'18.3441"N	80°11'10.1079"W	20286.75	310.754	0.14
29674.00†	89.420	323.830	7959.00	19764.73	13263.71	-15382.30	1775210.81	409336.48	39°37'18.5424"N	80°11'10.2984"W	20311.11	310.770	0.00

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REFERENCE WELLPATH IDENTIFICATION

Operator	MARION NATURAL ENERGY	Well	Green Lakes 15H
Field	Monongalia	UWI	47049025890000
Facility	Green Lakes Pad	Wellbore	Green Lakes 15H AWB
Slot	15H		

HOLE & CASING SECTIONS - Ref Wellbore: Green Lakes 15H AWB Ref Wellpath: Green Lakes 15H AWP PROJ: 29674'

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]
13 3/8in Casing	25.00	950.00	925.00	25.00	949.98	0.00	0.00	-0.88	-2.94
9 5/8in Casing	25.00	2425.00	2400.00	25.00	2390.79	0.00	0.00	-172.61	-216.70
5 1/2in Casing	25.00	29674.00	29649.00	25.00	7959.00	0.00	0.00	13263.71	-15382.30

WELLPATH COMPOSITION - Ref Wellbore: Green Lakes 15H AWB Ref Wellpath: Green Lakes 15H AWP PROJ: 29674'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	725.00	BH Generic gyro - northseeking (Standard)	1 Imported Gyro 50' -725'	Green Lakes 15H AWB	2025-09-09
725.00	6355.00	OWSG MWD rev2 + HRGM	2 Imported OWSG / MWD 960' - 6355'	Green Lakes 15H AWB	2025-09-09
6355.00	29674.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	3 BH ATC HRGM Short spacing 6374' - 29649'	Green Lakes 15H AWB	2025-09-09

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