



MARION NATURAL ENERGY



Area: Monongalia County, WV
Field: Monongalia
Facility: Green Lakes Pad
Slot: 1H

Well: Green Lakes 1H
UWI: 47049025850000
Wellbore: Green Lakes 1H AWB
Wellpath: Green Lakes 1H AWP PROJ: 27390'

Plot reference wellpath is Green Lakes 1H AWP PROJ: 27390'
True vertical depths are referenced to Patterson 571 (KB)
Reference wellpath measured depths are referenced to Patterson 571 (KB)
Patterson 571 (KB) to Mean Sea Level: 1473 feet
Mean Sea Level to Ground level (At Slot: 1H): -1448 feet
Offset wellpath MDs are referenced to each path's default MD datum
Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet
North Reference: Grid north
Scale: True distance
Coordinates are in feet referenced to Slot
Depths are in feet
Created by: tranlam on 2025-10-21; Database: WA_MPL_EASTERNUS_Defn

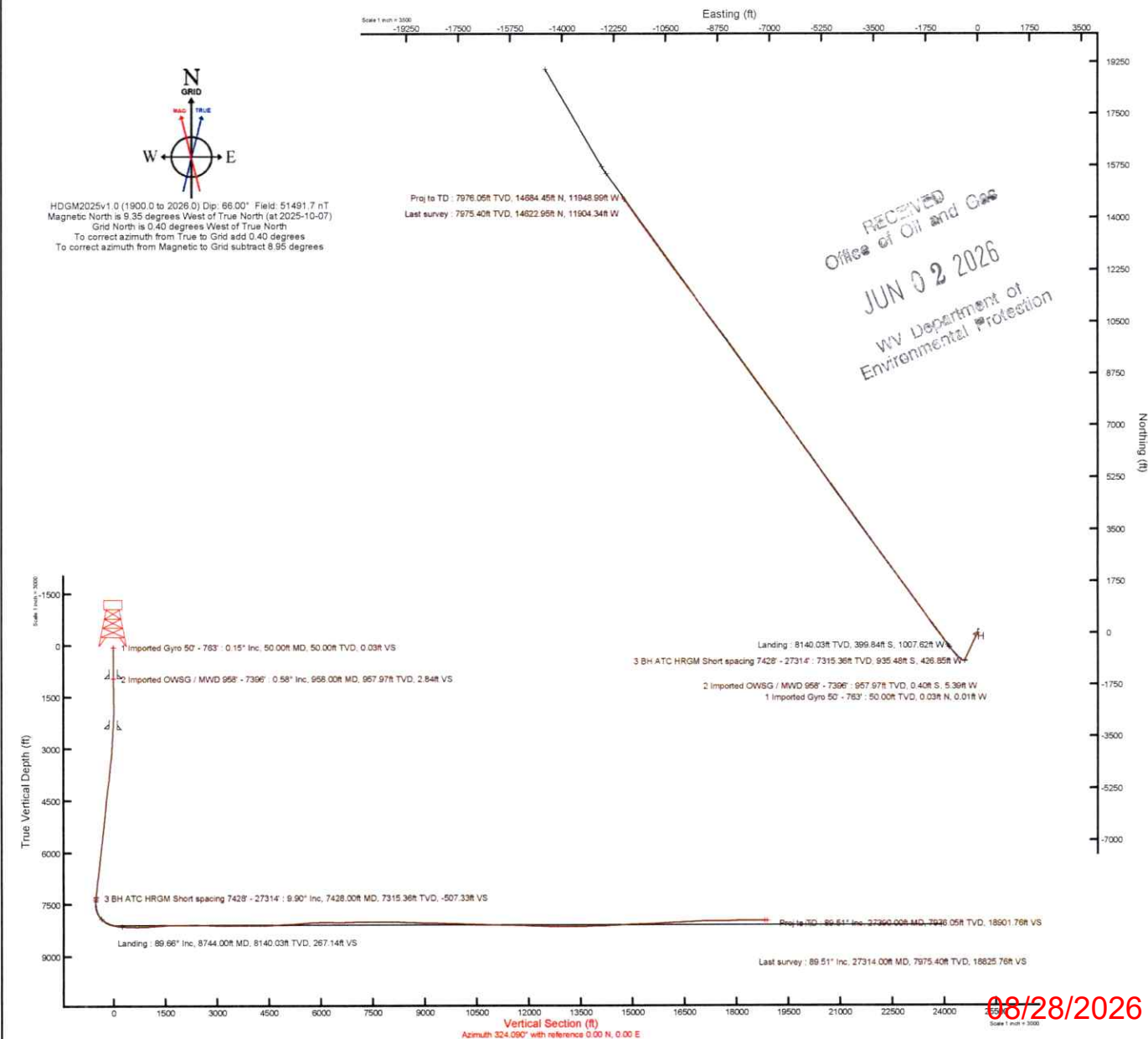
Location Information

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
1H	-119.72	-8.31	1790589.050	396028.680	39°35'8.1315N	80°07'52.5712W
Patterson 571 (KB) to Ground level (At Slot: 1H)					25ft	
Mean Sea Level to Ground level (At Slot: 1H)					-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
27390.00	89.510	324.020	7976.05	14684.45	-11948.99	1778640.79	410712.23	39°37'32.3961"N	80°10'26.5957"W

API: 47049025850000
BH JOB: 112855304
DURATION: 10/10/2025 - 10/17/2025
RIG: Patterson 571



06/28/2026



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REFERENCE WELLPATH IDENTIFICATION

Operator	MARION NATURAL ENERGY	Well	Green Lakes 1H
Field	Monongalia	UWI	47049025850000
Facility	Green Lakes Pad	Wellbore	Green Lakes 1H AWP
Slot	1H		

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 2025-10-21 at 10:49:53 AM
Scale	0.999941	Last Updated	2025-10-21
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	-119.72	-8.31	1790589.05	396028.68	39°35'8.1315"N	80°07'52.5712"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 (1H)	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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Facility	Green Lakes Pad	Wellbore	Green Lakes 1H AWB
Slot	1H		

WELLPATH DATA (298 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	347.880	0.00	0.00	0.00	0.00	1790589.05	396028.68	39°35'8.1315"N	80°07'52.5712"W	0.00	0.000	0.00
25.00	0.000	347.880	25.00	0.00	0.00	0.00	1790589.05	396028.68	39°35'8.1315"N	80°07'52.5712"W	0.00	0.000	0.00
50.00	0.150	347.880	50.00	0.03	0.03	-0.01	1790589.04	396028.71	39°35'8.1318"N	80°07'52.5712"W	0.03	347.880	0.60
100.00	0.240	270.170	100.00	0.15	0.10	-0.13	1790588.92	396028.78	39°35'8.1324"N	80°07'52.5728"W	0.16	307.536	0.51
150.00	0.350	245.860	150.00	0.24	0.03	-0.37	1790588.68	396028.71	39°35'8.1318"N	80°07'52.5759"W	0.37	275.282	0.33
200.00	0.300	168.040	200.00	0.16	-0.16	-0.48	1790588.57	396028.52	39°35'8.1299"N	80°07'52.5773"W	0.51	252.014	0.82
250.00	0.290	149.780	250.00	-0.09	-0.39	-0.39	1790588.66	396028.29	39°35'8.1276"N	80°07'52.5761"W	0.55	224.786	0.19
300.00	0.180	90.880	300.00	-0.26	-0.50	-0.25	1790588.80	396028.18	39°35'8.1265"N	80°07'52.5743"W	0.56	206.242	0.50
350.00	0.180	22.750	350.00	-0.27	-0.43	-0.14	1790588.91	396028.25	39°35'8.1272"N	80°07'52.5729"W	0.46	197.879	0.40
400.00	0.090	349.530	400.00	-0.19	-0.32	-0.12	1790588.93	396028.36	39°35'8.1283"N	80°07'52.5726"W	0.34	199.884	0.23
450.00	0.300	255.100	450.00	-0.11	-0.32	-0.25	1790588.80	396028.36	39°35'8.1283"N	80°07'52.5743"W	0.40	218.266	0.64
500.00	0.510	219.670	500.00	-0.12	-0.52	-0.52	1790588.53	396028.16	39°35'8.1263"N	80°07'52.5777"W	0.74	224.815	0.63
550.00	0.330	265.670	549.99	-0.10	-0.70	-0.80	1790588.25	396027.98	39°35'8.1245"N	80°07'52.5814"W	1.07	228.797	0.74
600.00	0.720	279.370	599.99	0.20	-0.66	-1.26	1790587.79	396028.02	39°35'8.1248"N	80°07'52.5872"W	1.42	242.174	0.81
650.00	0.770	269.270	649.99	0.62	-0.62	-1.90	1790587.15	396028.06	39°35'8.1252"N	80°07'52.5954"W	2.00	252.041	0.28
700.00	0.750	271.130	699.98	1.01	-0.61	-2.57	1790586.48	396028.07	39°35'8.1252"N	80°07'52.6039"W	2.64	256.529	0.06
750.00	0.490	271.350	749.98	1.33	-0.60	-3.11	1790585.94	396028.08	39°35'8.1253"N	80°07'52.6108"W	3.17	259.013	0.52
763.00	0.710	266.200	762.98	1.41	-0.61	-3.24	1790585.81	396028.07	39°35'8.1252"N	80°07'52.6125"W	3.30	259.394	1.74
958.00	0.580	287.180	957.97	2.84	-0.40	-5.39	1790583.66	396028.28	39°35'8.1272"N	80°07'52.6400"W	5.41	265.800	0.14
1021.00	0.560	303.920	1020.96	3.39	-0.13	-5.95	1790583.10	396028.55	39°35'8.1298"N	80°07'52.6472"W	5.95	268.749	0.27
1115.00	1.350	251.060	1114.95	4.14	-0.23	-7.38	1790581.67	396028.45	39°35'8.1287"N	80°07'52.6654"W	7.38	268.192	1.18
1210.00	2.240	239.520	1209.91	4.64	-1.54	-10.04	1790579.01	396027.14	39°35'8.1156"N	80°07'52.6992"W	10.16	261.290	1.01
1304.00	2.270	249.840	1303.83	5.32	-3.11	-13.37	1790575.68	396025.57	39°35'8.0998"N	80°07'52.7416"W	13.73	256.900	0.43
1400.00	0.880	277.380	1399.80	6.34	-3.67	-15.89	1790573.16	396025.01	39°35'8.0941"N	80°07'52.7737"W	16.30	256.985	1.61
1494.00	0.500	312.830	1493.79	7.24	-3.30	-16.90	1790572.15	396025.38	39°35'8.0977"N	80°07'52.7867"W	17.22	258.951	0.59
1589.00	0.650	319.330	1588.78	8.18	-2.61	-17.56	1790571.49	396026.07	39°35'8.1045"N	80°07'52.7952"W	17.75	261.545	0.17
1684.00	0.940	314.540	1683.77	9.49	-1.65	-18.46	1790570.59	396027.03	39°35'8.1138"N	80°07'52.8068"W	18.54	264.879	0.31
1779.00	0.830	20.890	1778.77	10.63	-0.47	-18.77	1790570.28	396028.21	39°35'8.1256"N	80°07'52.8109"W	18.78	268.581	1.02
1874.00	1.160	43.000	1873.75	11.20	0.88	-17.87	1790571.18	396029.56	39°35'8.1389"N	80°07'52.7995"W	17.90	272.822	0.53

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WELLPATH DATA (298 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]
1969.00	1.540	73.270	1968.73	10.96	1.95	-16.00	1790573.06	396030.63	39°35'8.1496"N	80°07'52.7756"W	16.11	276.957	0.84

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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]
2063.00	2.290	89.140	2062.67	9.47	2.34	-12.91	1790576.14	396031.02	39°35'8.1537"N	80°07'52.7362"W	13.12	280.291	0.97
2159.00	2.620	102.020	2158.59	6.74	1.92	-8.84	1790580.21	396030.60	39°35'8.1498"N	80°07'52.6843"W	9.05	282.220	0.67
2254.00	3.040	126.370	2253.47	2.73	-0.03	-4.69	1790584.36	396028.65	39°35'8.1308"N	80°07'52.6311"W	4.69	269.625	1.33
2395.00	3.950	129.130	2394.21	-5.53	-5.31	2.09	1790591.14	396023.37	39°35'8.0791"N	80°07'52.5440"W	5.71	158.559	0.66
2459.00	3.830	131.060	2458.06	-9.74	-8.11	5.41	1790594.46	396020.57	39°35'8.0517"N	80°07'52.5013"W	9.75	146.296	0.28
2554.00	4.070	199.600	2552.88	-14.74	-13.37	6.67	1790595.72	396015.31	39°35'7.9998"N	80°07'52.4848"W	14.94	153.487	4.68
2649.00	6.140	209.170	2647.50	-18.79	-20.98	3.06	1790592.11	396007.70	39°35'7.9243"N	80°07'52.5302"W	21.21	171.696	2.35
2744.00	7.640	211.930	2741.82	-23.31	-30.78	-2.75	1790586.30	395997.90	39°35'7.8271"N	80°07'52.6036"W	30.90	185.113	1.62
2842.00	8.280	210.260	2838.87	-28.62	-42.40	-9.76	1790579.30	395986.28	39°35'7.7117"N	80°07'52.6919"W	43.51	192.956	0.69
2937.00	8.680	206.320	2932.83	-34.73	-54.74	-16.38	1790572.67	395973.95	39°35'7.5894"N	80°07'52.7755"W	57.14	196.660	0.74
3031.00	11.150	215.360	3025.43	-40.95	-68.51	-24.79	1790564.26	395960.17	39°35'7.4527"N	80°07'52.8816"W	72.86	199.890	3.10
3125.00	12.680	216.830	3117.40	-46.93	-84.18	-36.23	1790552.82	395944.50	39°35'7.2970"N	80°07'53.0264"W	91.65	203.287	1.66
3220.00	13.570	211.340	3209.92	-54.34	-102.05	-48.28	1790540.77	395926.64	39°35'7.1196"N	80°07'53.1786"W	112.89	205.319	1.61
3314.00	12.870	201.720	3301.44	-64.21	-121.19	-57.89	1790531.16	395907.49	39°35'6.9297"N	80°07'53.2997"W	134.31	205.532	2.45
3409.00	11.110	195.600	3394.37	-75.57	-139.84	-64.27	1790524.79	395888.85	39°35'6.7450"N	80°07'53.3795"W	153.90	204.683	2.28
3504.00	10.780	201.680	3487.64	-86.03	-156.91	-70.01	1790519.04	395871.78	39°35'6.5759"N	80°07'53.4513"W	171.82	204.046	1.26
3599.00	10.890	208.720	3580.95	-94.63	-173.04	-77.61	1790511.45	395855.65	39°35'6.4160"N	80°07'53.5468"W	189.65	204.156	1.40
3694.00	12.420	208.330	3673.99	-102.92	-189.90	-86.77	1790502.29	395838.79	39°35'6.2487"N	80°07'53.6623"W	208.79	204.556	1.61
3788.00	14.240	207.470	3765.46	-112.49	-209.06	-96.90	1790492.16	395819.63	39°35'6.0586"N	80°07'53.7900"W	230.43	204.868	1.95
3883.00	15.260	208.510	3857.32	-123.13	-230.41	-108.26	1790480.80	395798.28	39°35'5.8468"N	80°07'53.9332"W	254.58	205.166	1.11
3978.00	15.080	208.440	3949.01	-133.88	-252.27	-120.11	1790468.95	395776.43	39°35'5.6300"N	80°07'54.0826"W	279.40	205.460	0.19
4076.00	14.360	203.280	4043.80	-145.62	-274.64	-130.98	1790458.07	395754.06	39°35'5.4082"N	80°07'54.2195"W	304.28	205.498	1.53
4171.00	14.590	205.860	4135.79	-157.31	-296.23	-140.86	1790448.20	395732.47	39°35'5.1941"N	80°07'54.3437"W	328.01	205.431	0.72
4265.00	14.100	209.260	4226.86	-167.72	-316.87	-151.62	1790437.44	395711.83	39°35'4.9894"N	80°07'54.4792"W	351.28	205.570	1.04
4360.00	13.570	204.850	4319.10	-178.02	-337.08	-161.96	1790427.10	395691.62	39°35'4.7889"N	80°07'54.6095"W	373.97	205.663	1.24
4455.00	13.100	203.390	4411.54	-188.97	-357.08	-170.92	1790418.14	395671.63	39°35'4.5907"N	80°07'54.7221"W	395.87	205.578	0.61
4549.00	12.450	203.500	4503.21	-199.56	-376.15	-179.19	1790409.87	395652.56	39°35'4.4016"N	80°07'54.8260"W	416.65	205.472	0.69
4644.00	11.630	202.860	4596.12	-209.74	-394.36	-186.99	1790402.07	395634.34	39°35'4.2211"N	80°07'54.9240"W	436.45	205.368	0.87
4739.00	10.780	200.690	4689.31	-219.59	-411.50	-193.85	1790395.21	395617.21	39°35'4.0513"N	80°07'55.0101"W	454.87	205.224	1.00

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WELLPATH DATA (298 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]
4834.00	10.060	206.140	4782.75	-228.37	-427.26	-200.64	1790388.42	395601.45	39°35'3.8950"N	80°07'55.0955"W	472.02	205.155	1.28

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4928.00	10.510	203.460	4875.24	-236.59	-442.49	-207.67	1790381.39	395586.22	39°35'3.7440"N	80°07'55.1839"W	488.80	205.142	0.70
5022.00	11.900	205.540	4967.44	-245.59	-459.10	-215.27	1790373.80	395569.61	39°35'3.5793"N	80°07'55.2794"W	507.06	205.121	1.54
5117.00	13.100	207.610	5060.19	-255.07	-477.48	-224.48	1790364.59	395551.23	39°35'3.3970"N	80°07'55.3954"W	527.62	205.180	1.35
5212.00	12.670	205.730	5152.80	-264.82	-496.41	-233.99	1790355.07	395532.30	39°35'3.2093"N	80°07'55.5152"W	548.79	205.238	0.63
5306.00	12.140	201.240	5244.61	-275.08	-514.91	-242.05	1790347.02	395513.81	39°35'3.0260"N	80°07'55.6164"W	568.96	205.177	1.17
5401.00	13.630	206.170	5337.21	-285.74	-534.26	-250.60	1790338.46	395494.45	39°35'2.8340"N	80°07'55.7240"W	590.12	205.130	1.95
5495.00	14.230	207.910	5428.45	-296.02	-554.41	-260.90	1790328.17	395474.30	39°35'2.6342"N	80°07'55.8536"W	612.73	205.201	0.78
5593.00	13.660	206.170	5523.56	-306.75	-575.44	-271.64	1790317.43	395453.27	39°35'2.4256"N	80°07'55.9889"W	636.34	205.270	0.72
5783.00	13.970	208.180	5708.06	-327.28	-615.80	-292.36	1790296.70	395412.92	39°35'2.0254"N	80°07'56.2500"W	681.67	205.397	0.30
5877.00	13.550	206.450	5799.37	-337.35	-635.66	-302.63	1790286.44	395393.06	39°35'1.8284"N	80°07'56.3793"W	704.02	205.458	0.63
5972.00	12.660	202.490	5891.89	-347.97	-655.24	-311.57	1790277.50	395373.48	39°35'1.6342"N	80°07'56.4917"W	725.54	205.431	1.33
6066.00	12.070	198.310	5983.72	-359.11	-674.09	-318.59	1790270.48	395354.63	39°35'1.4475"N	80°07'56.5798"W	745.58	205.297	1.14
6160.00	11.380	200.130	6075.75	-370.04	-692.13	-324.87	1790264.20	395336.60	39°35'1.2688"N	80°07'56.6584"W	764.58	205.145	0.83
6255.00	11.700	205.820	6168.84	-379.84	-709.60	-332.29	1790256.78	395319.13	39°35'1.0956"N	80°07'56.7516"W	783.55	205.093	1.24
6350.00	11.810	206.300	6261.84	-388.93	-726.98	-340.80	1790248.27	395301.74	39°35'0.9232"N	80°07'56.8586"W	802.90	205.116	0.15
6445.00	12.430	205.350	6354.73	-398.38	-744.94	-349.48	1790239.59	395283.79	39°35'0.7451"N	80°07'56.9679"W	822.84	205.133	0.69
6540.00	13.980	207.640	6447.21	-408.41	-764.35	-359.18	1790229.89	395264.38	39°35'0.5526"N	80°07'57.0901"W	844.53	205.170	1.72
6638.00	14.450	206.090	6542.21	-419.42	-785.81	-370.05	1790219.02	395242.91	39°35'0.3397"N	80°07'57.2270"W	868.59	205.217	0.62
6733.00	14.140	204.920	6634.27	-430.64	-806.98	-380.16	1790208.92	395221.75	39°35'0.1298"N	80°07'57.3541"W	892.04	205.224	0.45
6828.00	13.600	197.990	6726.51	-442.88	-828.13	-388.49	1790200.58	395200.60	39°34'59.9202"N	80°07'57.4587"W	914.73	205.132	1.84
6922.00	13.050	196.640	6817.98	-455.84	-848.81	-394.95	1790194.13	395179.92	39°34'59.7154"N	80°07'57.5392"W	936.20	204.952	0.67
7017.00	11.700	205.240	6910.77	-467.01	-867.80	-402.13	1790186.95	395160.93	39°34'59.5272"N	80°07'57.6292"W	956.44	204.862	2.40
7112.00	10.270	205.790	7004.03	-475.68	-884.14	-409.92	1790179.16	395144.59	39°34'59.3652"N	80°07'57.7273"W	974.55	204.874	1.51
7207.00	9.850	198.400	7097.57	-484.43	-899.48	-416.17	1790172.91	395129.26	39°34'59.2132"N	80°07'57.8057"W	991.09	204.829	1.43
7301.00	9.670	193.890	7190.21	-494.22	-914.77	-420.60	1790168.47	395113.97	39°34'59.0617"N	80°07'57.8610"W	1006.83	204.692	0.84
7396.00	9.900	198.020	7283.83	-504.18	-930.28	-425.04	1790164.03	395098.45	39°34'58.9081"N	80°07'57.9163"W	1022.78	204.556	0.78
7428.00	9.900	200.360	7315.36	-507.33	-935.48	-426.85	1790162.22	395093.26	39°34'58.8567"N	80°07'57.9389"W	1028.26	204.527	1.26
7512.00	8.090	202.160	7398.32	-514.46	-947.72	-431.59	1790157.48	395081.02	39°34'58.7353"N	80°07'57.9984"W	1041.37	204.485	2.18
7607.00	9.230	258.710	7492.40	-514.82	-955.42	-441.60	1790147.47	395073.32	39°34'58.6586"N	80°07'58.1256"W	1052.54	204.807	8.68

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WELLPATH DATA (298 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]
7702.00	13.420	288.620	7585.60	-502.66	-953.39	-459.55	1790129.53	395075.35	39°34'58.6774"N	80°07'58.3549"W	1058.36	205.735	7.46

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REFERENCE WELLPATH IDENTIFICATION

Operator	MARION NATURAL ENERGY	Well	Green Lakes 1H
Field	Monongalia	UWI	47049025850000
Facility	Green Lakes Pad	Wellbore	Green Lakes 1H AWB
Slot	1H		

WELLPATH DATA (298 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	19.970	295.590	7676.56	-479.39	-942.85	-484.65	1790104.43	395085.89	39°34'58.7798"N	80°07'58.6765"W	1060.12	207.205	7.20
7892.00	28.180	302.100	7763.23	-444.27	-923.88	-518.35	1790070.73	395104.85	39°34'58.9649"N	80°07'59.1086"W	1059.36	209.295	9.07
7987.00	36.580	305.120	7843.40	-396.61	-895.63	-560.59	1790028.50	395133.11	39°34'59.2412"N	80°07'59.6506"W	1056.60	212.043	9.00
8081.00	45.390	307.120	7914.29	-338.00	-859.25	-610.28	1789978.81	395169.48	39°34'59.5973"N	80°08'0.2885"W	1053.92	215.384	9.47
8175.00	56.130	310.580	7973.67	-267.84	-813.53	-666.77	1789922.32	395215.20	39°35'0.0452"N	80°08'1.0141"W	1051.86	219.338	11.77
8270.00	62.820	316.360	8021.93	-187.48	-757.19	-725.99	1789863.10	395271.53	39°35'0.5978"N	80°08'1.7756"W	1049.00	223.795	8.77
8365.00	67.760	321.340	8061.65	-101.59	-692.21	-782.68	1789806.42	395336.51	39°35'1.2361"N	80°08'2.5055"W	1044.86	228.510	7.05
8460.00	75.440	321.870	8091.61	-11.60	-621.61	-838.62	1789750.48	395407.11	39°35'1.9299"N	80°08'3.2263"W	1043.87	233.453	8.10
8555.00	75.410	321.980	8115.52	80.28	-549.23	-895.32	1789693.79	395479.49	39°35'2.6412"N	80°08'3.9570"W	1050.36	238.473	0.12
8650.00	82.560	322.690	8133.66	173.42	-475.46	-952.25	1789636.85	395553.25	39°35'3.3663"N	80°08'4.6909"W	1064.35	243.467	7.56
8744.00	89.660	324.880	8140.03	267.14	-399.84	-1007.62	1789581.49	395628.87	39°35'4.1098"N	80°08'5.4048"W	1084.05	248.356	7.90
8838.00	87.630	325.430	8142.26	361.09	-322.72	-1061.31	1789527.81	395705.98	39°35'4.8682"N	80°08'6.0975"W	1109.29	253.087	2.24
8932.00	86.830	324.940	8146.80	454.96	-245.64	-1114.91	1789474.21	395783.06	39°35'5.6262"N	80°08'6.7891"W	1141.65	257.575	1.00
9027.00	88.000	324.890	8151.08	549.85	-167.98	-1169.46	1789419.66	395860.71	39°35'6.3899"N	80°08'7.4928"W	1181.46	261.826	1.23
9121.00	89.350	325.050	8153.26	643.81	-91.03	-1223.40	1789365.72	395937.66	39°35'7.1466"N	80°08'8.1888"W	1226.78	265.745	1.45
9216.00	90.620	324.150	8153.28	738.81	-13.59	-1278.43	1789310.70	396015.09	39°35'7.9080"N	80°08'8.8986"W	1278.50	269.391	1.64
9311.00	92.490	324.370	8150.70	833.77	63.48	-1333.90	1789255.23	396092.16	39°35'8.6659"N	80°08'9.6140"W	1335.41	272.725	1.98
9406.00	92.650	323.820	8146.44	928.67	140.35	-1389.56	1789199.58	396169.03	39°35'9.4217"N	80°08'10.3319"W	1396.63	275.768	0.60
9501.00	93.360	322.800	8141.46	1023.53	216.43	-1446.24	1789142.90	396245.09	39°35'10.1695"N	80°08'11.0627"W	1462.34	278.511	1.31
9595.00	94.340	324.780	8135.15	1117.31	292.10	-1501.64	1789087.50	396320.76	39°35'10.9135"N	80°08'11.7772"W	1529.78	281.008	2.35
9689.00	93.230	322.170	8128.95	1211.09	367.46	-1557.46	1789031.69	396396.12	39°35'11.6544"N	80°08'12.4970"W	1600.22	283.275	3.01
9785.00	92.680	321.790	8124.00	1306.90	442.99	-1616.51	1788972.64	396471.64	39°35'12.3967"N	80°08'13.2580"W	1676.11	285.325	0.70
9880.00	94.430	325.030	8118.11	1401.69	519.10	-1673.02	1788916.13	396547.75	39°35'13.1449"N	80°08'13.9867"W	1751.70	287.238	3.87
9975.00	94.030	324.220	8111.10	1496.43	596.35	-1727.87	1788861.29	396625.00	39°35'13.9045"N	80°08'14.6943"W	1827.89	289.041	0.95
10070.00	92.800	324.400	8105.44	1591.26	673.37	-1783.19	1788805.97	396702.01	39°35'14.6618"N	80°08'15.4079"W	1906.10	290.688	1.31
10165.00	90.830	324.200	8102.43	1686.20	750.48	-1838.60	1788750.56	396779.11	39°35'15.4199"N	80°08'16.1226"W	1985.86	292.204	2.08
10259.00	90.950	324.050	8100.97	1780.19	826.64	-1893.68	1788695.49	396855.27	39°35'16.1687"N	80°08'16.8330"W	2066.24	293.582	0.20
10354.00	89.880	324.210	8100.28	1875.19	903.62	-1949.34	1788639.83	396932.24	39°35'16.9256"N	80°08'17.5510"W	2148.59	294.870	1.14
10449.00	89.970	324.300	8100.41	1970.19	980.72	-2004.84	1788584.34	397009.34	39°35'17.6837"N	80°08'18.2668"W	2231.86	296.067	0.13

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WELLPATH DATA (298 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]
10544.00	90.710	324.360	8099.84	2065.19	1057.90	-2060.23	1788528.94	397086.51	39°35'18.4425"N	80°08'18.9814"W	2315.97	297.180	0.78

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REFERENCE WELLPATH IDENTIFICATION			
Operator	MARION NATURAL ENERGY	Well	Green Lakes 1H
Field	Monongalia	UWI	47049025850000
Facility	Green Lakes Pad	Wellbore	Green Lakes 1H AWB
Slot	1H		

WELLPATH DATA (298 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	90.770	324.400	8098.62	2160.18	1135.11	-2115.56	1788473.62	397163.73	39°35'19.2018"N	80°08'19.6950"W	2400.85	298.216	0.08
10734.00	90.680	324.280	8097.41	2255.17	1212.29	-2170.93	1788418.25	397240.90	39°35'19.9606"N	80°08'20.4094"W	2486.49	299.180	0.16
10828.00	89.970	323.980	8096.88	2349.17	1288.47	-2226.01	1788363.17	397317.07	39°35'20.7095"N	80°08'21.1198"W	2572.02	300.063	0.82
10923.00	88.770	323.890	8097.93	2444.16	1365.25	-2281.93	1788307.26	397393.85	39°35'21.4645"N	80°08'21.8411"W	2659.16	300.892	1.27
11018.00	88.120	324.070	8100.50	2539.12	1442.06	-2337.78	1788251.41	397470.65	39°35'22.2196"N	80°08'22.5614"W	2746.77	301.668	0.71
11112.00	88.150	323.830	8103.56	2633.07	1518.02	-2393.07	1788196.13	397546.61	39°35'22.9664"N	80°08'23.2745"W	2833.93	302.389	0.26
11207.00	88.030	323.970	8106.73	2728.02	1594.74	-2449.01	1788140.19	397623.32	39°35'23.7207"N	80°08'23.9961"W	2922.47	303.071	0.19
11302.00	88.210	324.090	8109.85	2822.97	1671.58	-2504.78	1788084.42	397700.16	39°35'24.4762"N	80°08'24.7154"W	3011.33	303.717	0.23
11397.00	88.340	324.010	8112.70	2917.92	1748.45	-2560.53	1788028.68	397777.02	39°35'25.2319"N	80°08'25.4345"W	3100.55	304.327	0.16
11491.00	88.340	323.800	8115.43	3011.88	1824.38	-2615.88	1787973.33	397852.94	39°35'25.9784"N	80°08'26.1485"W	3189.23	304.893	0.22
11585.00	88.920	323.960	8117.68	3105.86	1900.29	-2671.28	1787917.94	397928.85	39°35'26.7247"N	80°08'26.8630"W	3278.23	305.427	0.64
11679.00	89.020	323.490	8119.37	3199.84	1976.05	-2726.88	1787862.33	398004.61	39°35'27.4695"N	80°08'27.5802"W	3367.59	305.929	0.51
11774.00	89.420	324.350	8120.66	3294.83	2052.82	-2782.82	1787806.40	398081.38	39°35'28.2243"N	80°08'28.3017"W	3458.06	306.415	1.00
11868.00	90.800	325.720	8120.48	3388.81	2129.85	-2836.69	1787752.53	398158.40	39°35'28.9818"N	80°08'28.9968"W	3547.27	306.900	2.07
11963.00	89.880	324.030	8119.91	3483.80	2207.55	-2891.35	1787697.88	398236.09	39°35'29.7458"N	80°08'29.7021"W	3637.74	307.362	2.03
12057.00	89.880	324.140	8120.11	3577.80	2283.68	-2946.49	1787642.74	398312.22	39°35'30.4942"N	80°08'30.4133"W	3727.86	307.778	0.12
12152.00	90.830	324.280	8119.52	3672.79	2360.74	-3002.04	1787587.19	398389.27	39°35'31.2519"N	80°08'31.1300"W	3819.07	308.181	1.01
12247.00	91.050	324.460	8117.96	3767.78	2437.94	-3057.38	1787531.86	398466.47	39°35'32.0110"N	80°08'31.8439"W	3910.39	308.569	0.30
12341.00	90.220	323.810	8116.92	3861.77	2514.11	-3112.44	1787476.80	398542.64	39°35'32.7599"N	80°08'32.5543"W	4001.01	308.930	1.12
12436.00	89.750	324.340	8116.95	3956.77	2591.04	-3168.18	1787421.06	398619.57	39°35'33.5162"N	80°08'33.2733"W	4092.78	309.277	0.75
12532.00	90.150	324.450	8117.03	4052.77	2669.10	-3224.07	1787365.17	398697.61	39°35'34.2836"N	80°08'33.9943"W	4185.54	309.620	0.43
12626.00	89.910	324.050	8116.98	4146.77	2745.38	-3278.99	1787310.26	398773.90	39°35'35.0337"N	80°08'34.7028"W	4276.56	309.938	0.50
12721.00	90.340	323.410	8116.77	4241.77	2821.98	-3335.19	1787254.06	398850.48	39°35'35.7866"N	80°08'35.4277"W	4368.87	310.235	0.81
12815.00	91.290	324.200	8115.44	4335.75	2897.83	-3390.70	1787198.56	398926.33	39°35'36.5323"N	80°08'36.1437"W	4460.29	310.519	1.31
12910.00	90.710	323.950	8113.78	4430.74	2974.74	-3446.43	1787142.83	399003.24	39°35'37.2885"N	80°08'36.8626"W	4552.69	310.799	0.66
13005.00	91.660	324.530	8111.81	4525.72	3051.81	-3501.93	1787087.33	399080.31	39°35'38.0463"N	80°08'37.5787"W	4645.12	311.071	1.17
13101.00	92.950	324.480	8107.95	4621.63	3129.91	-3557.63	1787031.64	399158.40	39°35'38.8141"N	80°08'38.2973"W	4738.46	311.341	1.34
13195.00	92.860	324.180	8103.19	4715.51	3206.18	-3612.37	1786976.90	399234.66	39°35'39.5640"N	80°08'39.0035"W	4829.99	311.591	0.33
13290.00	93.760	324.540	8097.70	4810.35	3283.25	-3667.63	1786921.64	399311.73	39°35'40.3218"N	80°08'39.7165"W	4922.53	311.835	1.02

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WELLPATH DATA (298 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]
13385.00	93.730	324.130	8091.50	4905.15	3360.27	-3722.90	1786866.37	399388.74	39°35'41.0790"N	80°08'40.4296"W	5015.12	312.069	0.43



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Slot	1H		

WELLPATH DATA (298 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	93.080	324.380	8085.92	4998.98	3436.43	-3777.72	1786811.56	399464.90	39°35'41.8278"N	80°08'41.1368"W	5106.88	312.291	0.74
13574.00	93.020	324.520	8080.86	5093.84	3513.61	-3832.87	1786756.41	399542.08	39°35'42.5866"N	80°08'41.8485"W	5199.65	312.512	0.16
13669.00	92.680	324.370	8076.14	5188.72	3590.80	-3888.05	1786701.24	399619.26	39°35'43.3456"N	80°08'42.5603"W	5292.52	312.724	0.39
13764.00	94.370	325.370	8070.30	5283.53	3668.35	-3942.61	1786646.68	399696.80	39°35'44.1081"N	80°08'43.2644"W	5385.25	312.936	2.07
13859.00	94.400	323.290	8063.03	5378.25	3745.29	-3997.84	1786591.46	399773.75	39°35'44.8646"N	80°08'43.9770"W	5478.13	313.132	2.18
13954.00	94.560	324.670	8055.61	5472.95	3821.89	-4053.53	1786535.77	399850.34	39°35'45.6177"N	80°08'44.6955"W	5571.18	313.315	1.46
14048.00	94.410	324.450	8048.26	5566.66	3898.24	-4107.87	1786481.43	399926.69	39°35'46.3683"N	80°08'45.3966"W	5663.12	313.500	0.28
14143.00	94.280	324.180	8041.06	5661.39	3975.18	-4163.13	1786426.18	400003.62	39°35'47.1248"N	80°08'46.1096"W	5756.19	313.677	0.31
14239.00	92.710	324.310	8035.21	5757.21	4052.94	-4219.12	1786370.19	400081.38	39°35'47.8893"N	80°08'46.8320"W	5850.41	313.849	1.64
14333.00	92.490	324.390	8030.95	5851.11	4129.25	-4273.85	1786315.46	400157.68	39°35'48.6395"N	80°08'47.5381"W	5942.76	314.014	0.25
14428.00	90.650	322.720	8028.35	5946.06	4205.63	-4330.26	1786259.06	400234.06	39°35'49.3904"N	80°08'48.2657"W	6036.43	314.164	2.62
14523.00	90.400	324.410	8027.47	6041.05	4282.06	-4386.67	1786202.64	400310.48	39°35'50.1417"N	80°08'48.9935"W	6130.16	314.309	1.80
14617.00	89.660	323.940	8027.43	6135.05	4358.27	-4441.69	1786147.63	400386.69	39°35'50.8910"N	80°08'49.7033"W	6222.79	314.457	0.93
14712.00	89.600	324.010	8028.04	6230.05	4435.10	-4497.56	1786091.76	400463.51	39°35'51.6463"N	80°08'50.4242"W	6316.50	314.599	0.10
14806.00	90.090	324.940	8028.29	6324.04	4511.61	-4552.18	1786037.15	400540.01	39°35'52.3984"N	80°08'51.1289"W	6409.13	314.743	1.12
14901.00	88.920	323.890	8029.11	6419.04	4588.86	-4607.46	1785981.87	400617.26	39°35'53.1580"N	80°08'51.8422"W	6502.79	314.884	1.65
14995.00	90.060	323.430	8029.95	6513.03	4664.57	-4663.16	1785926.18	400692.97	39°35'53.9023"N	80°08'52.5607"W	6595.70	315.009	1.31
15091.00	90.800	324.220	8029.23	6609.02	4742.06	-4719.82	1785869.52	400770.45	39°35'54.6640"N	80°08'53.2917"W	6690.58	315.135	1.13
15185.00	90.740	324.200	8027.97	6703.01	4818.31	-4774.79	1785814.55	400846.69	39°35'55.4136"N	80°08'54.0009"W	6783.41	315.260	0.07
15281.00	90.650	324.000	8026.80	6799.01	4896.06	-4831.08	1785758.27	400924.44	39°35'56.1781"N	80°08'54.7272"W	6878.28	315.383	0.23
15375.00	91.450	323.740	8025.08	6892.99	4971.97	-4886.49	1785702.86	401000.35	39°35'56.9243"N	80°08'55.4421"W	6971.25	315.497	0.89
15470.00	91.290	324.110	8022.81	6987.96	5048.73	-4942.41	1785646.94	401077.11	39°35'57.6789"N	80°08'56.1636"W	7065.21	315.610	0.42
15564.00	91.290	323.710	8020.69	7081.94	5124.67	-4997.77	1785591.58	401153.04	39°35'58.4255"N	80°08'56.8778"W	7158.21	315.718	0.43
15659.00	91.050	323.570	8018.75	7176.91	5201.16	-5054.08	1785535.28	401229.53	39°35'59.1774"N	80°08'57.6042"W	7252.30	315.822	0.29
15753.00	90.180	323.110	8017.74	7270.90	5276.56	-5110.20	1785479.16	401304.92	39°35'59.9185"N	80°08'58.3281"W	7345.49	315.918	1.05
15848.00	90.340	323.080	8017.31	7365.88	5352.53	-5167.25	1785422.12	401380.88	39°36'0.6652"N	80°08'59.0639"W	7439.76	316.009	0.17
15943.00	90.460	324.580	8016.65	7460.88	5429.21	-5223.31	1785366.06	401457.56	39°36'1.4190"N	80°08'59.7872"W	7533.88	316.107	1.58
16038.00	90.310	324.510	8016.01	7555.87	5506.60	-5278.42	1785310.96	401534.94	39°36'2.1798"N	80°09'0.4983"W	7627.86	316.212	0.17
16133.00	90.030	324.940	8015.73	7650.87	5584.15	-5333.28	1785256.10	401612.49	39°36'2.9424"N	80°09'1.2064"W	7721.83	316.316	0.54

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WELLPATH DATA (298 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]
16228.00	89.970	324.320	8015.73	7745.86	5661.62	-5388.27	1785201.11	401689.95	39°36'3.7040"N	80°09'1.9161"W	7815.84	316.417	0.66

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REFERENCE WELLPATH IDENTIFICATION			
Operator	MARION NATURAL ENERGY	Well	Green Lakes 1H
Field	Monongalia	UWI	47049025850000
Facility	Green Lakes Pad	Wellbore	Green Lakes 1H AWB
Slot	1H		

WELLPATH DATA (298 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	89.480	324.160	8016.18	7840.86	5738.71	-5443.79	1785145.60	401767.04	39°36'4.4619"N	80°09'2.6324"W	7909.97	316.511	0.54
16418.00	89.200	324.080	8017.28	7935.85	5815.68	-5499.46	1785089.92	401844.00	39°36'5.2186"N	80°09'3.3508"W	8004.13	316.601	0.31
16513.00	89.200	324.210	8018.61	8030.84	5892.67	-5555.10	1785034.29	401920.99	39°36'5.9755"N	80°09'4.0688"W	8098.31	316.689	0.14
16607.00	89.140	324.100	8019.97	8124.83	5968.86	-5610.14	1784979.25	401997.17	39°36'6.7245"N	80°09'4.7790"W	8191.51	316.774	0.13
16702.00	88.800	323.520	8021.67	8219.82	6045.51	-5666.23	1784923.17	402073.82	39°36'7.4781"N	80°09'5.5026"W	8285.79	316.855	0.71
16797.00	88.250	323.100	8024.12	8314.78	6121.67	-5722.97	1784866.43	402149.97	39°36'8.2266"N	80°09'6.2345"W	8380.16	316.928	0.73
16892.00	88.060	323.230	8027.18	8409.71	6197.66	-5779.89	1784809.51	402225.96	39°36'8.9735"N	80°09'6.9688"W	8474.56	316.998	0.24
16986.00	87.690	323.200	8030.66	8503.64	6272.89	-5836.14	1784753.27	402301.19	39°36'9.7130"N	80°09'7.6944"W	8567.95	317.066	0.39
17082.00	88.280	323.480	8034.04	8599.57	6349.86	-5893.42	1784695.99	402378.15	39°36'10.4695"N	80°09'8.4334"W	8663.32	317.135	0.68
17177.00	88.250	324.300	8036.92	8694.53	6426.57	-5949.38	1784640.03	402454.86	39°36'11.2236"N	80°09'9.1554"W	8757.62	317.208	0.86
17272.00	88.090	323.710	8039.95	8789.48	6503.39	-6005.19	1784584.23	402531.67	39°36'11.9788"N	80°09'9.8755"W	8851.91	317.281	0.64
17367.00	88.520	324.930	8042.76	8884.43	6580.52	-6060.57	1784528.85	402608.80	39°36'12.7371"N	80°09'10.5902"W	8946.16	317.355	1.36
17461.00	88.220	323.880	8045.43	8978.39	6656.93	-6115.26	1784474.16	402685.20	39°36'13.4883"N	80°09'11.2960"W	9039.42	317.428	1.16
17556.00	89.450	323.840	8047.37	9073.37	6733.63	-6171.28	1784418.15	402761.90	39°36'14.2423"N	80°09'12.0188"W	9133.81	317.495	1.30
17651.00	89.260	324.080	8048.43	9168.36	6810.44	-6227.17	1784362.26	402838.71	39°36'14.9974"N	80°09'12.7400"W	9228.20	317.562	0.32
17746.00	88.580	324.800	8050.23	9263.34	6887.71	-6282.40	1784307.03	402915.97	39°36'15.7570"N	80°09'13.4528"W	9322.51	317.631	1.04
17840.00	88.490	324.220	8052.63	9357.31	6964.22	-6336.96	1784252.48	402992.48	39°36'16.5092"N	80°09'14.1569"W	9415.81	317.700	0.62
17936.00	88.740	324.650	8054.95	9453.28	7042.29	-6392.78	1784196.66	403070.54	39°36'17.2768"N	80°09'14.8773"W	9511.12	317.768	0.52
18030.00	88.460	323.980	8057.25	9547.25	7118.62	-6447.59	1784141.85	403146.86	39°36'18.0271"N	80°09'15.5848"W	9604.49	317.832	0.77
18126.00	88.860	324.610	8059.49	9643.22	7196.55	-6503.60	1784085.84	403224.79	39°36'18.7933"N	80°09'16.3076"W	9699.86	317.896	0.78
18221.00	88.580	324.490	8061.61	9738.20	7273.92	-6558.69	1784030.76	403302.16	39°36'19.5540"N	80°09'17.0186"W	9794.20	317.960	0.32
18315.00	88.370	326.300	8064.11	9832.13	7351.26	-6612.05	1783977.40	403379.49	39°36'20.3144"N	80°09'17.7076"W	9887.38	318.030	1.94
18411.00	88.250	325.830	8066.95	9928.04	7430.87	-6665.62	1783923.83	403459.10	39°36'21.0974"N	80°09'18.3994"W	9982.40	318.107	0.51
18506.00	88.120	323.490	8069.96	10022.98	7508.32	-6720.54	1783868.92	403536.55	39°36'21.8588"N	80°09'19.1083"W	10076.74	318.169	2.47
18601.00	88.460	324.020	8072.79	10117.93	7584.91	-6776.68	1783812.78	403613.12	39°36'22.6116"N	80°09'19.8327"W	10171.25	318.221	0.66
18695.00	88.460	324.310	8075.32	10211.90	7661.09	-6831.70	1783757.77	403689.30	39°36'23.3605"N	80°09'20.5426"W	10264.71	318.275	0.31
18790.00	88.000	324.210	8078.25	10306.85	7738.16	-6887.16	1783702.31	403766.37	39°36'24.1182"N	80°09'21.2585"W	10359.15	318.330	0.50
18885.00	88.090	324.120	8081.49	10401.80	7815.13	-6942.75	1783646.73	403843.33	39°36'24.8749"N	80°09'21.9758"W	10453.61	318.383	0.13
18980.00	88.000	324.480	8084.73	10496.74	7892.23	-6998.15	1783591.33	403920.43	39°36'25.6329"N	80°09'22.6909"W	10548.05	318.436	0.39

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WELLPATH DATA (298 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]
19075.00	88.030	324.270	8088.02	10591.68	7969.41	-7053.45	1783536.03	403997.60	39°36'26.3916"N	80°09'23.4046"W	10642.49	318.489	0.22



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REFERENCE WELLPATH IDENTIFICATION			
Operator	MARION NATURAL ENERGY	Well	Green Lakes 1H
Field	Monongalia	UWI	47049025850000
Facility	Green Lakes Pad	Wellbore	Green Lakes 1H AWB
Slot	1H		

WELLPATH DATA (298 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	87.910	324.040	8091.35	10685.62	8045.56	-7108.46	1783481.02	404073.74	39°36'27.1402"N	80°09'24.1146"W	10735.98	318.539	0.28
19263.00	88.000	323.880	8094.71	10779.56	8121.52	-7163.73	1783425.75	404149.70	39°36'27.8869"N	80°09'24.8278"W	10829.50	318.586	0.20
19358.00	87.910	324.260	8098.10	10874.50	8198.39	-7219.44	1783370.05	404226.57	39°36'28.6426"N	80°09'25.5468"W	10924.01	318.633	0.41
19452.00	87.940	324.110	8101.50	10968.44	8274.57	-7274.41	1783315.08	404302.74	39°36'29.3914"N	80°09'26.2563"W	11017.51	318.680	0.16
19547.00	88.550	323.980	8104.41	11063.40	8351.43	-7330.17	1783259.33	404379.60	39°36'30.1470"N	80°09'26.9758"W	11112.05	318.726	0.66
19641.00	88.580	324.310	8106.76	11157.37	8427.59	-7385.21	1783204.29	404455.76	39°36'30.8957"N	80°09'27.6861"W	11205.61	318.772	0.35
19736.00	88.860	324.500	8108.89	11252.34	8504.82	-7440.49	1783149.02	404532.99	39°36'31.6550"N	80°09'28.3997"W	11300.13	318.819	0.36
19831.00	89.450	324.130	8110.29	11347.33	8581.98	-7495.90	1783093.61	404610.13	39°36'32.4135"N	80°09'29.1149"W	11394.68	318.865	0.73
19926.00	89.540	324.220	8111.12	11442.32	8659.00	-7551.50	1783038.01	404687.15	39°36'33.1706"N	80°09'29.8325"W	11489.28	318.908	0.13
20020.00	89.600	324.470	8111.83	11536.32	8735.38	-7606.29	1782983.22	404763.53	39°36'33.9215"N	80°09'30.5397"W	11582.85	318.952	0.27
20116.00	88.310	322.920	8113.58	11632.30	8812.73	-7663.12	1782926.40	404840.87	39°36'34.6818"N	80°09'31.2730"W	11678.51	318.991	2.10
20211.00	88.000	324.510	8116.64	11727.24	8889.26	-7719.31	1782870.21	404917.40	39°36'35.4341"N	80°09'31.9981"W	11773.14	319.029	1.70
20305.00	88.060	323.820	8119.87	11821.19	8965.42	-7774.31	1782815.21	404993.56	39°36'36.1828"N	80°09'32.7080"W	11866.71	319.070	0.74
20400.00	87.970	324.020	8123.16	11916.13	9042.16	-7830.22	1782759.31	405070.28	39°36'36.9370"N	80°09'33.4296"W	11961.31	319.108	0.23
20494.00	88.060	323.820	8126.42	12010.07	9118.08	-7885.55	1782703.98	405146.20	39°36'37.6834"N	80°09'34.1436"W	12054.93	319.146	0.23
20588.00	88.090	323.740	8129.58	12104.02	9193.87	-7941.06	1782648.48	405221.99	39°36'38.4284"N	80°09'34.8600"W	12148.57	319.182	0.09
20682.00	88.060	324.720	8132.73	12197.96	9270.10	-7995.97	1782593.56	405298.21	39°36'39.1777"N	80°09'35.5688"W	12242.15	319.220	1.04
20777.00	88.310	323.990	8135.74	12292.91	9347.26	-8051.31	1782538.23	405375.37	39°36'39.9362"N	80°09'36.2830"W	12336.73	319.260	0.81
20872.00	88.370	324.350	8138.49	12387.87	9424.25	-8106.90	1782482.65	405452.35	39°36'40.6931"N	80°09'37.0005"W	12431.34	319.297	0.38
20966.00	88.550	324.330	8141.02	12481.84	9500.59	-8161.68	1782427.87	405528.69	39°36'41.4436"N	80°09'37.7076"W	12524.94	319.335	0.19
21061.00	88.680	324.370	8143.32	12576.81	9577.77	-8217.03	1782372.52	405605.86	39°36'42.2023"N	80°09'38.4221"W	12619.56	319.373	0.14
21155.00	88.520	323.830	8145.61	12670.78	9653.89	-8272.13	1782317.42	405681.98	39°36'42.9505"N	80°09'39.1333"W	12713.21	319.408	0.60
21250.00	88.620	324.300	8147.98	12765.75	9730.78	-8327.87	1782261.69	405758.87	39°36'43.7064"N	80°09'39.8527"W	12807.87	319.442	0.51
21345.00	89.660	326.150	8149.41	12860.72	9808.80	-8382.04	1782207.52	405836.89	39°36'44.4735"N	80°09'40.5522"W	12902.37	319.485	2.23
21439.00	90.090	323.780	8149.61	12954.70	9885.77	-8436.00	1782153.57	405913.84	39°36'45.2302"N	80°09'41.2489"W	12995.94	319.524	2.56
21534.00	90.710	323.140	8148.95	13049.69	9962.09	-8492.56	1782097.01	405990.16	39°36'45.9804"N	80°09'41.9788"W	13090.71	319.553	0.94
21629.00	90.490	323.180	8147.96	13144.67	10038.12	-8549.52	1782040.06	406066.18	39°36'46.7276"N	80°09'42.7137"W	13185.52	319.579	0.24
21723.00	90.030	323.170	8147.53	13238.66	10113.36	-8605.86	1781983.72	406141.42	39°36'47.4671"N	80°09'43.4407"W	13279.34	319.604	0.49
21818.00	90.580	323.510	8147.02	13333.65	10189.57	-8662.58	1781927.00	406217.62	39°36'48.2161"N	80°09'44.1726"W	13374.13	319.631	0.68

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WELLPATH DATA (298 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]
21913.00	90.400	323.570	8146.21	13428.64	10265.97	-8719.03	1781870.55	406294.02	39°36'48.9670"N	80°09'44.9011"W	13468.91	319.658	0.20

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Actual Wellpath Report

Green Lakes 1H AWP PROJ: 27390'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	MARION NATURAL ENERGY	Well	Green Lakes 1H
Field	Monongalia	UWI	47049025850000
Facility	Green Lakes Pad	Wellbore	Green Lakes 1H AWB
Slot	1H		

WELLPATH DATA (298 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]
22008.00	90.250	323.450	8145.67	13523.64	10342.34	-8775.52	1781814.06	406370.39	39°36'49.7177"N	80°09'45.6302"W	13563.70	319.685	0.20
22102.00	90.740	323.080	8144.86	13617.62	10417.67	-8831.74	1781757.85	406445.72	39°36'50.4581"N	80°09'46.3556"W	13657.51	319.710	0.65
22197.00	91.450	323.170	8143.05	13712.59	10493.65	-8888.74	1781700.85	406521.69	39°36'51.2048"N	80°09'47.0911"W	13752.33	319.733	0.75
22292.00	91.720	324.460	8140.42	13807.55	10570.30	-8944.80	1781644.79	406598.33	39°36'51.9582"N	80°09'47.8147"W	13847.05	319.761	1.39
22387.00	91.350	323.620	8137.87	13902.52	10647.17	-9000.57	1781589.03	406675.20	39°36'52.7138"N	80°09'48.5345"W	13941.75	319.791	0.97
22482.00	91.540	323.220	8135.48	13997.48	10723.43	-9057.17	1781532.44	406751.45	39°36'53.4633"N	80°09'49.2649"W	14036.53	319.815	0.47
22576.00	91.480	323.350	8133.00	14091.44	10798.75	-9113.34	1781476.26	406826.78	39°36'54.2036"N	80°09'49.9898"W	14130.33	319.838	0.15
22671.00	91.660	323.250	8130.40	14186.39	10874.89	-9170.10	1781419.51	406902.91	39°36'54.9520"N	80°09'50.7222"W	14225.12	319.861	0.22
22766.00	93.110	323.610	8126.44	14281.30	10951.12	-9226.65	1781362.97	406979.14	39°36'55.7012"N	80°09'51.4520"W	14319.85	319.885	1.57
22861.00	92.490	323.250	8121.80	14376.18	11027.33	-9283.18	1781306.44	407055.34	39°36'56.4502"N	80°09'52.1815"W	14414.56	319.908	0.75
22955.00	92.890	323.860	8117.39	14470.07	11102.86	-9338.96	1781250.66	407130.86	39°36'57.1925"N	80°09'52.9014"W	14508.26	319.932	0.78
23050.00	92.490	323.370	8112.93	14564.96	11179.26	-9395.25	1781194.37	407207.25	39°36'57.9434"N	80°09'53.6280"W	14602.96	319.956	0.67
23144.00	92.890	323.830	8108.52	14658.86	11254.83	-9450.97	1781138.66	407282.83	39°36'58.6862"N	80°09'54.3471"W	14696.67	319.979	0.65
23238.00	93.690	324.030	8103.13	14752.70	11330.69	-9506.22	1781083.41	407358.68	39°36'59.4318"N	80°09'55.0603"W	14790.29	320.004	0.88
23332.00	93.110	323.440	8097.55	14846.53	11406.34	-9561.73	1781027.90	407434.33	39°37'0.1755"N	80°09'55.7767"W	14883.93	320.028	0.88
23427.00	92.710	322.870	8092.73	14941.40	11482.27	-9618.62	1780971.01	407510.25	39°37'0.9217"N	80°09'56.5109"W	14978.67	320.047	0.73
23521.00	92.430	322.650	8088.51	15035.28	11557.03	-9675.45	1780914.19	407585.00	39°37'1.6563"N	80°09'57.2441"W	15072.47	320.064	0.38
23616.00	91.970	323.400	8084.87	15130.19	11632.87	-9732.55	1780857.10	407660.84	39°37'2.4016"N	80°09'57.9809"W	15167.27	320.083	0.93
23710.00	92.060	323.490	8081.56	15224.12	11708.33	-9788.50	1780801.15	407736.30	39°37'3.1433"N	80°09'58.7030"W	15261.05	320.103	0.14
23805.00	92.180	323.500	8078.05	15319.05	11784.64	-9844.97	1780744.68	407812.60	39°37'3.8933"N	80°09'59.4319"W	15355.82	320.124	0.13
23899.00	92.120	323.410	8074.52	15412.98	11860.10	-9900.91	1780688.75	407888.06	39°37'4.6350"N	80°10'0.1538"W	15449.60	320.145	0.12
23994.00	92.180	323.170	8070.96	15507.91	11936.21	-9957.65	1780632.00	407964.16	39°37'5.3830"N	80°10'0.8862"W	15544.39	320.164	0.26
24089.00	92.680	323.580	8066.93	15602.81	12012.38	-10014.28	1780575.38	408040.33	39°37'6.1316"N	80°10'1.6169"W	15639.15	320.183	0.68
24184.00	92.460	323.510	8062.67	15697.71	12088.72	-10070.67	1780518.99	408116.66	39°37'6.8819"N	80°10'2.3448"W	15733.90	320.204	0.24
24279.00	92.550	323.610	8058.52	15792.62	12165.07	-10127.04	1780462.62	408193.01	39°37'7.6323"N	80°10'3.0724"W	15828.64	320.224	0.14
24374.00	93.230	323.050	8053.73	15887.49	12241.17	-10183.71	1780405.97	408269.10	39°37'8.3802"N	80°10'3.8037"W	15923.38	320.242	0.93
24468.00	93.110	323.290	8048.53	15981.33	12316.29	-10239.97	1780349.71	408344.22	39°37'9.1185"N	80°10'4.5298"W	16017.12	320.259	0.29
24563.00	93.170	323.210	8043.33	16076.18	12392.30	-10296.72	1780292.96	408420.22	39°37'9.8655"N	80°10'5.2622"W	16111.85	320.277	0.11
24656.00	92.830	323.370	8038.46	16169.04	12466.75	-10352.24	1780237.44	408494.67	39°37'10.5972"N	80°10'5.9787"W	16204.59	320.294	0.40

360-413

WELLPATH DATA (298 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]
24751.00	92.490	324.470	8034.05	16263.94	12543.45	-10408.12	1780181.56	408571.36	39°37'11.3510"N	80°10'6.7002"W	16299.30	320.315	1.21

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Green Lakes 1H AWP PROJ: 27390'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	MARION NATURAL ENERGY	Well	Green Lakes 1H
Field	Monongalia	UWI	47049025850000
Facility	Green Lakes Pad	Wellbore	Green Lakes 1H AWB
Slot	1H		

WELLPATH DATA (298 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]
24846.00	92.680	324.480	8029.77	16358.84	12620.69	-10463.27	1780126.42	408648.60	39°37'12.1103"N	80°10'7.4122"W	16393.95	320.339	0.20
24941.00	92.550	324.260	8025.43	16453.74	12697.82	-10518.55	1780071.14	408725.73	39°37'12.8685"N	80°10'8.1260"W	16488.62	320.363	0.27
25035.00	92.460	324.250	8021.32	16547.65	12774.04	-10573.41	1780016.28	408801.94	39°37'13.6177"N	80°10'8.8343"W	16582.31	320.385	0.10
25129.00	92.490	324.530	8017.26	16641.56	12850.39	-10628.09	1779961.60	408878.29	39°37'14.3683"N	80°10'9.5403"W	16676.00	320.407	0.30
25224.00	92.920	324.350	8012.78	16736.45	12927.59	-10683.28	1779906.42	408955.48	39°37'15.1271"N	80°10'10.2529"W	16770.66	320.430	0.49
25319.00	93.080	324.400	8007.81	16831.32	13004.70	-10738.54	1779851.17	409032.59	39°37'15.8851"N	80°10'10.9664"W	16865.31	320.452	0.18
25414.00	93.360	324.460	8002.47	16926.17	13081.85	-10793.71	1779795.99	409109.74	39°37'16.6435"N	80°10'11.6788"W	16959.93	320.474	0.30
25509.00	92.090	324.090	7997.96	17021.06	13158.89	-10849.12	1779740.59	409186.77	39°37'17.4008"N	80°10'12.3942"W	17054.61	320.495	1.39
25605.00	90.950	324.040	7995.41	17117.02	13236.59	-10905.44	1779684.28	409264.46	39°37'18.1645"N	80°10'13.1213"W	17150.39	320.515	1.19
25700.00	91.110	324.280	7993.70	17212.01	13313.59	-10961.05	1779628.66	409341.46	39°37'18.9214"N	80°10'13.8394"W	17245.18	320.535	0.30
25795.00	91.050	324.520	7991.91	17306.99	13390.82	-11016.35	1779573.38	409418.68	39°37'19.6805"N	80°10'14.5533"W	17339.95	320.557	0.26
25890.00	90.220	324.220	7990.86	17401.98	13468.03	-11071.68	1779518.04	409495.89	39°37'20.4395"N	80°10'15.2678"W	17434.74	320.577	0.93
25985.00	90.400	324.360	7990.34	17496.98	13545.17	-11127.13	1779462.60	409573.02	39°37'21.1977"N	80°10'15.9838"W	17529.54	320.597	0.24
26080.00	90.280	323.560	7989.78	17591.98	13621.98	-11183.03	1779406.71	409649.83	39°37'21.9528"N	80°10'16.7054"W	17624.37	320.616	0.85
26175.00	89.940	324.040	7989.60	17686.98	13698.64	-11239.13	1779350.60	409726.49	39°37'22.7062"N	80°10'17.4297"W	17719.23	320.633	0.62
26270.00	91.080	322.940	7988.75	17781.96	13774.99	-11295.65	1779294.09	409802.83	39°37'23.4566"N	80°10'18.1593"W	17814.10	320.648	1.67
26364.00	91.570	324.740	7986.58	17875.93	13850.86	-11351.10	1779238.65	409878.70	39°37'24.2023"N	80°10'18.8751"W	17907.93	320.665	1.98
26459.00	91.260	324.570	7984.23	17970.90	13928.33	-11406.04	1779183.71	409956.16	39°37'24.9638"N	80°10'19.5846"W	18002.67	320.686	0.37
26555.00	91.230	324.980	7982.15	18066.87	14006.73	-11461.40	1779128.35	410034.56	39°37'25.7346"N	80°10'20.2995"W	18098.40	320.707	0.43
26649.00	90.800	323.900	7980.48	18160.85	14083.19	-11516.05	1779073.70	410111.01	39°37'26.4861"N	80°10'21.0053"W	18192.19	320.727	1.24
26744.00	91.940	325.020	7978.21	18255.82	14160.47	-11571.26	1779018.50	410188.28	39°37'27.2457"N	80°10'21.7182"W	18286.96	320.746	1.68
26840.00	91.140	324.670	7975.63	18351.78	14238.93	-11626.51	1778963.25	410266.74	39°37'28.0170"N	80°10'22.4319"W	18382.68	320.767	0.91
26934.00	89.970	323.660	7974.72	18445.77	14315.13	-11681.54	1778908.22	410342.93	39°37'28.7660"N	80°10'23.1424"W	18476.51	320.785	1.64
27029.00	90.280	324.480	7974.51	18540.77	14392.05	-11737.28	1778852.48	410419.85	39°37'29.5221"N	80°10'23.8622"W	18571.35	320.801	0.92
27124.00	90.090	324.200	7974.21	18635.77	14469.24	-11792.67	1778797.10	410497.04	39°37'30.2808"N	80°10'24.5773"W	18666.17	320.819	0.36
27219.00	89.480	323.890	7974.56	18730.76	14546.14	-11848.45	1778741.33	410573.93	39°37'31.0367"N	80°10'25.2975"W	18761.02	320.836	0.72
27314.00	89.510	324.020	7975.40	18825.76	14622.95	-11904.34	1778685.43	410650.74	39°37'31.7916"N	80°10'26.0192"W	18855.87	320.851	0.14
27390.00†	89.510	324.020	7976.05	18901.76	14684.45	-11948.99	1778640.79	410712.23	39°37'32.3961"N	80°10'26.5957"W	18931.75	320.864	0.00

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Actual Wellpath Report

Green Lakes 1H AWP PROJ: 27390'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	MARION NATURAL ENERGY	Well	Green Lakes 1H
Field	Monongalia	UWI	47049025850000
Facility	Green Lakes Pad	Wellbore	Green Lakes 1H AWB
Slot	1H		

HOLE & CASING SECTIONS - Ref Wellbore: Green Lakes 1H AWB Ref Wellpath: Green Lakes 1H AWP PROJ: 27390'									
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	949.97	0.00	0.00	-0.42	-5.31
9 5/8in Casing	25.00	2425.00	2400.00	25.00	2424.14	0.00	0.00	-6.62	3.67
5 1/2in Casing	25.00	27390.00	27365.00	25.00	7976.05	0.00	0.00	14684.45	-11948.99

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Green Lakes 1H BHL Rev 2	8105.00	18989.49	-14569.44	1776020.50	415017.01	39°38'14.7457"N	80°11'0.5030"W	point
Green Lakes 1H IP rev 2	8105.00	15473.63	-12505.20	1778084.61	411501.37	39°37'40.1540"N	80°10'33.7798"W	point
Green Lakes 1H LP Rev 2	8105.00	-445.35	-976.27	1789612.84	395583.36	39°35'3.6622"N	80°08'5.0003"W	point
Green Lakes HL 1 2.20.2025	9025.00	6593.62	-10662.98	1779926.72	402621.90	39°36'12.5319"N	80°10'9.3904"W	polygon
2D Polygon:: dimensions not calculated								
Green Lakes HL 2 2.20.2025	9025.00	-972.29	-5136.73	1785452.63	395056.45	39°34'58.1606"N	80°08'58.0899"W	polygon
2D Polygon:: dimensions not calculated								
Green Lakes Hard Line (9.10.2024)	9025.00	6593.62	-10662.98	1779926.72	402621.90	39°36'12.5319"N	80°10'9.3904"W	polygon
2D Polygon:: dimensions not calculated								
Green Lakes Unit Line N.E (10.14.2025)	15025.00	-627.85	-64.95	1790524.10	395400.87	39°35'1.9221"N	80°07'53.3444"W	polygon
2D Polygon:: dimensions not calculated								
Green Lakes Unit Line N.W (10.14.2025)	15025.00	13542.73	-16020.63	1774569.40	409570.58	39°37'20.8077"N	80°11'18.5184"W	polygon
2D Polygon:: dimensions not calculated								

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TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Green Lakes Unit Line S (9.10.2024)	15025.00	-3505.50	-4038.73	1786550.57	392523.40	39°34'33.2038"N	80°08'43.8338"W	polygon
	2D Polygon:: dimensions not calculated							

WELLPATH COMPOSITION - Ref Wellbore: Green Lakes 1H AWB Ref Wellpath: Green Lakes 1H AWP PROJ: 27390'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	763.00	BH Generic gyro - northseeking (Standard)	1 Imported Gyro 50' - 763'	Green Lakes 1H AWB	
763.00	7396.00	OWSG MWD rev2 - Standard	2 Imported OWSG / MWD 958' - 7396'	Green Lakes 1H AWB	
7396.00	27390.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	3 BH ATC HRGM Short spacing 7428' - 27314'	Green Lakes 1H AWB	

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