



Actual Wellpath Report

Green Lakes 7H-A ST01 AWP PROJ: 27558'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	MARION NATURAL ENERGY	Well	Green Lakes 7H-A ST01
Field	Monongalia	UWI	47049025610100
Facility	Green Lakes Pad	Wellbore	Green Lakes 7H-A ST01 AWB
Slot	7H-A	Sidetrack from	Green Lakes 7H-A Pilot awp Proj: 8212' at 4550.00 MD

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 2025-11-03 at 10:38:21 AM
Scale	0.999941	Last Updated	2025-11-03
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	-134.68	-9.35	1790588.01	396013.72	39°35'7.9835"N	80°07'52.5831"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 (7H-A)	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 7H-A ST01 AWB
Slot	7H-A	Sidetrack from	Green Lakes 7H-A Pilot awp Proj: 8212' at 4550.00 MD

WELLPATH DATA (300 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	209.260	0.00	0.00	0.00	0.00	1790588.01	396013.72	39°35'7.9835"N	80°07'52.5831"W	0.00	0.000	0.00
25.00	0.000	209.260	25.00	0.00	0.00	0.00	1790588.01	396013.72	39°35'7.9835"N	80°07'52.5831"W	0.00	0.000	0.00
50.00	0.120	209.260	50.00	-0.01	-0.02	-0.01	1790588.00	396013.70	39°35'7.9833"N	80°07'52.5833"W	0.03	209.260	0.48
100.00	0.230	214.130	100.00	-0.07	-0.15	-0.09	1790587.92	396013.57	39°35'7.9820"N	80°07'52.5843"W	0.18	211.992	0.22
150.00	0.160	201.750	150.00	-0.14	-0.30	-0.18	1790587.83	396013.42	39°35'7.9806"N	80°07'52.5853"W	0.35	210.564	0.16
200.00	0.080	181.170	200.00	-0.20	-0.40	-0.20	1790587.81	396013.32	39°35'7.9796"N	80°07'52.5857"W	0.45	207.003	0.18
250.00	0.080	150.770	250.00	-0.27	-0.46	-0.19	1790587.82	396013.26	39°35'7.9789"N	80°07'52.5854"W	0.50	201.937	0.08
300.00	0.110	161.880	300.00	-0.35	-0.54	-0.16	1790587.85	396013.18	39°35'7.9782"N	80°07'52.5850"W	0.56	196.011	0.07
350.00	0.100	77.270	350.00	-0.41	-0.58	-0.10	1790587.91	396013.14	39°35'7.9778"N	80°07'52.5843"W	0.58	189.612	0.28
400.00	0.080	53.200	400.00	-0.43	-0.55	-0.03	1790587.98	396013.17	39°35'7.9781"N	80°07'52.5834"W	0.55	182.846	0.08
450.00	0.030	332.470	450.00	-0.41	-0.51	-0.01	1790588.00	396013.21	39°35'7.9785"N	80°07'52.5831"W	0.51	180.586	0.16
500.00	0.310	298.220	500.00	-0.28	-0.44	-0.13	1790587.88	396013.28	39°35'7.9792"N	80°07'52.5847"W	0.46	196.587	0.57
550.00	0.400	271.110	550.00	-0.05	-0.37	-0.42	1790587.59	396013.35	39°35'7.9799"N	80°07'52.5885"W	0.56	228.846	0.38
600.00	0.290	301.150	600.00	0.17	-0.30	-0.71	1790587.30	396013.42	39°35'7.9805"N	80°07'52.5921"W	0.77	246.875	0.42
650.00	0.300	337.320	650.00	0.41	-0.12	-0.87	1790587.14	396013.60	39°35'7.9823"N	80°07'52.5941"W	0.87	262.390	0.37
700.00	0.450	316.470	700.00	0.74	0.15	-1.05	1790586.96	396013.87	39°35'7.9849"N	80°07'52.5965"W	1.06	277.984	0.40
750.00	0.300	315.210	749.99	1.06	0.38	-1.28	1790586.73	396014.10	39°35'7.9872"N	80°07'52.5995"W	1.33	286.660	0.30
963.00	0.030	35.310	962.99	1.63	0.82	-1.64	1790586.37	396014.54	39°35'7.9916"N	80°07'52.6041"W	1.83	296.683	0.14
1026.00	0.100	188.030	1025.99	1.59	0.78	-1.64	1790586.37	396014.50	39°35'7.9912"N	80°07'52.6041"W	1.82	295.553	0.20
1121.00	0.340	161.560	1120.99	1.27	0.43	-1.56	1790586.45	396014.15	39°35'7.9877"N	80°07'52.6031"W	1.62	285.529	0.27
1216.00	0.920	125.750	1215.99	0.27	-0.28	-0.85	1790587.16	396013.44	39°35'7.9807"N	80°07'52.5939"W	0.90	251.837	0.71
1311.00	2.300	101.180	1310.95	-1.85	-1.09	1.64	1790589.65	396012.63	39°35'7.9728"N	80°07'52.5621"W	1.97	123.768	1.59
1405.00	3.310	102.590	1404.83	-5.26	-2.05	6.14	1790594.15	396011.67	39°35'7.9637"N	80°07'52.5045"W	6.47	108.490	1.08
1500.00	4.080	99.040	1499.64	-9.70	-3.18	12.15	1790600.16	396010.54	39°35'7.9530"N	80°07'52.4276"W	12.56	104.670	0.85
1595.00	4.240	111.870	1594.39	-15.06	-5.02	18.75	1790606.76	396008.70	39°35'7.9352"N	80°07'52.3432"W	19.41	104.991	0.99
1691.00	3.300	132.250	1690.18	-20.77	-8.20	24.09	1790612.10	396005.52	39°35'7.9042"N	80°07'52.2747"W	25.44	108.801	1.69
1785.00	2.020	147.390	1784.08	-25.07	-11.41	26.98	1790614.99	396002.31	39°35'7.8726"N	80°07'52.2374"W	29.30	112.931	1.54
1880.00	2.490	146.950	1879.01	-28.80	-14.55	29.01	1790617.02	395999.17	39°35'7.8417"N	80°07'52.2113"W	32.46	116.644	0.50
1975.00	2.850	144.080	1973.90	-33.23	-18.20	31.52	1790619.53	395995.52	39°35'7.8059"N	80°07'52.1789"W	36.40	119.998	0.40

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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]
2070.00	2.870	145.980	2068.79	-37.96	-22.08	34.24	1790622.25	395991.64	39°35'7.7677"N	80°07'52.1438"W	40.74	122.820	0.10
2165.00	2.130	153.030	2163.69	-42.09	-25.63	36.37	1790624.38	395988.10	39°35'7.7328"N	80°07'52.1163"W	44.49	125.169	0.84
2260.00	1.260	167.560	2258.65	-44.79	-28.22	37.39	1790625.40	395985.50	39°35'7.7073"N	80°07'52.1029"W	46.85	127.040	1.01
2397.00	0.340	188.950	2395.64	-46.46	-30.09	37.66	1790625.66	395983.63	39°35'7.6888"N	80°07'52.0994"W	48.20	128.630	0.69
2460.00	0.550	165.200	2458.64	-46.87	-30.57	37.70	1790625.71	395983.15	39°35'7.6841"N	80°07'52.0988"W	48.54	129.034	0.44
2555.00	0.050	243.820	2553.63	-47.29	-31.03	37.78	1790625.79	395982.69	39°35'7.6795"N	80°07'52.0977"W	48.89	129.394	0.57
2653.00	0.170	207.660	2651.63	-47.35	-31.18	37.68	1790625.68	395982.55	39°35'7.6781"N	80°07'52.0991"W	48.90	129.606	0.14
2748.00	1.050	20.060	2746.63	-46.92	-30.48	37.91	1790625.92	395983.24	39°35'7.6849"N	80°07'52.0962"W	48.65	128.802	1.28
2843.00	1.470	32.290	2841.61	-45.98	-28.64	38.86	1790626.87	395985.09	39°35'7.7032"N	80°07'52.0842"W	48.27	126.386	0.52
2938.00	1.430	31.610	2936.58	-45.08	-26.60	40.13	1790628.14	395987.13	39°35'7.7235"N	80°07'52.0681"W	48.14	123.533	0.05
3031.00	1.220	27.820	3029.55	-44.20	-24.73	41.20	1790629.21	395988.99	39°35'7.7420"N	80°07'52.0546"W	48.05	120.974	0.24
3126.00	1.280	27.570	3124.53	-43.28	-22.90	42.17	1790630.17	395990.82	39°35'7.7602"N	80°07'52.0425"W	47.98	118.503	0.06
3221.00	1.490	29.810	3219.50	-42.29	-20.88	43.27	1790631.28	395992.84	39°35'7.7802"N	80°07'52.0286"W	48.05	115.764	0.23
3315.00	1.170	0.120	3313.48	-41.01	-18.86	43.88	1790631.89	395994.86	39°35'7.8002"N	80°07'52.0209"W	47.76	113.263	0.80
3410.00	1.380	323.620	3408.45	-39.09	-16.97	43.20	1790631.21	395996.75	39°35'7.8188"N	80°07'52.0298"W	46.42	111.448	0.87
3505.00	1.380	323.080	3503.43	-36.80	-15.14	41.84	1790629.85	395998.58	39°35'7.8368"N	80°07'52.0474"W	44.49	109.891	0.01

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Field	Monongalia	UWI	47049025610100
Facility	Green Lakes Pad	Wellbore	Green Lakes 7H-A ST01 AWP
Slot	7H-A	Sidetrack from	Green Lakes 7H-A Pilot awp Proj: 8212' at 4550.00 MD

WELLPATH DATA (300 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]
3600.00	0.940	294.330	3598.41	-34.98	-13.90	40.44	1790628.45	395999.82	39°35'7.8490"N	80°07'52.0653"W	42.76	108.971	0.75
3698.00	0.410	231.200	3696.40	-34.30	-13.79	39.43	1790627.44	395999.93	39°35'7.8500"N	80°07'52.0782"W	41.78	109.275	0.86
3792.00	0.500	253.710	3790.40	-34.18	-14.12	38.78	1790626.79	395999.60	39°35'7.8467"N	80°07'52.0865"W	41.27	110.003	0.21
3887.00	0.300	255.630	3885.40	-33.95	-14.29	38.14	1790626.15	395999.43	39°35'7.8449"N	80°07'52.0947"W	40.73	110.545	0.21
3982.00	0.540	273.560	3980.39	-33.57	-14.33	37.45	1790625.46	395999.39	39°35'7.8445"N	80°07'52.1034"W	40.10	110.936	0.29
4077.00	0.410	299.600	4075.39	-32.98	-14.13	36.71	1790624.72	395999.59	39°35'7.8464"N	80°07'52.1129"W	39.34	111.056	0.26
4172.00	0.730	308.810	4170.39	-32.08	-13.59	35.94	1790623.95	396000.14	39°35'7.8518"N	80°07'52.1228"W	38.42	110.705	0.35
4266.00	0.540	330.210	4264.38	-31.07	-12.83	35.26	1790623.26	396000.90	39°35'7.8592"N	80°07'52.1316"W	37.52	109.991	0.32
4361.00	0.630	315.150	4359.38	-30.11	-12.07	34.67	1790622.67	396001.65	39°35'7.8667"N	80°07'52.1392"W	36.71	109.193	0.19
4456.00	0.670	315.560	4454.37	-29.04	-11.30	33.91	1790621.92	396002.42	39°35'7.8742"N	80°07'52.1490"W	35.74	108.431	0.04
4550.00	0.310	333.680	4548.37	-28.25	-10.68	33.41	1790621.42	396003.04	39°35'7.8803"N	80°07'52.1554"W	35.08	107.726	0.41
4578.00	3.120	220.760	4576.35	-28.35	-11.19	32.88	1790620.89	396002.53	39°35'7.8752"N	80°07'52.1621"W	34.73	108.794	11.62
4673.00	2.770	221.460	4671.23	-29.44	-14.87	29.67	1790617.68	395998.85	39°35'7.8387"N	80°07'52.2028"W	33.19	116.614	0.37
4768.00	2.390	220.070	4766.13	-30.43	-18.10	26.88	1790614.89	395995.62	39°35'7.8065"N	80°07'52.2382"W	32.41	123.964	0.41
4863.00	7.200	229.330	4860.77	-31.40	-23.50	21.08	1790609.09	395990.22	39°35'7.7527"N	80°07'52.3117"W	31.57	138.107	5.11
4957.00	9.060	223.640	4953.82	-33.23	-32.70	11.51	1790599.52	395981.02	39°35'7.6612"N	80°07'52.4332"W	34.66	160.614	2.15
5052.00	10.290	213.450	5047.48	-37.58	-45.19	1.67	1790589.68	395968.53	39°35'7.5370"N	80°07'52.5578"W	45.22	177.889	2.21
5146.00	11.100	212.660	5139.84	-43.85	-59.82	-7.84	1790580.17	395953.91	39°35'7.3919"N	80°07'52.6779"W	60.33	187.472	0.88
5241.00	14.520	216.680	5232.47	-50.75	-77.07	-19.90	1790568.11	395936.65	39°35'7.2205"N	80°07'52.8303"W	79.60	194.476	3.72
5336.00	17.410	216.420	5323.79	-58.63	-98.06	-35.45	1790552.56	395915.66	39°35'7.0119"N	80°07'53.0271"W	104.27	199.876	3.04
5430.00	21.570	222.340	5412.40	-66.42	-122.16	-55.45	1790532.56	395891.56	39°35'6.7724"N	80°07'53.2804"W	134.16	204.413	4.89
5524.00	25.400	224.250	5498.60	-73.39	-149.39	-81.17	1790506.85	395864.34	39°35'6.5015"N	80°07'53.6064"W	170.01	208.516	4.15
5618.00	29.900	222.490	5581.84	-81.55	-181.12	-111.07	1790476.94	395832.61	39°35'6.1858"N	80°07'53.9855"W	212.47	211.519	4.86
5714.00	32.760	220.420	5663.84	-92.50	-218.55	-144.09	1790443.93	395795.19	39°35'5.8137"N	80°07'54.4038"W	261.77	213.396	3.18
5808.00	36.960	217.100	5740.96	-106.78	-260.47	-177.64	1790410.38	395753.26	39°35'5.3970"N	80°07'54.8286"W	315.28	214.294	4.90
5903.00	39.350	217.710	5815.66	-123.62	-307.08	-213.29	1790374.73	395706.65	39°35'4.9339"N	80°07'55.2798"W	373.89	214.783	2.55
5998.00	39.800	218.480	5888.88	-140.29	-354.71	-250.64	1790337.39	395659.03	39°35'4.4606"N	80°07'55.7524"W	434.33	215.245	0.70
6092.00	39.710	218.210	5961.15	-156.61	-401.86	-287.93	1790300.10	395611.89	39°35'3.9920"N	80°07'56.2245"W	494.36	215.621	0.21
6186.00	39.810	218.310	6033.41	-173.01	-449.07	-325.16	1790262.87	395564.68	39°35'3.5229"N	80°07'56.6958"W	554.43	215.907	0.13

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WELLPATH DATA (300 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]
6281.00	38.020	218.640	6107.32	-189.07	-495.78	-362.28	1790225.75	395517.97	39°35'3.0586"N	80°07'57.1657"W	614.05	216.157	1.90
6375.00	38.940	219.200	6180.91	-204.37	-541.29	-399.03	1790189.00	395472.46	39°35'2.6064"N	80°07'57.6310"W	672.47	216.397	1.05
6470.00	40.460	219.010	6254.00	-220.07	-588.38	-437.30	1790150.73	395425.38	39°35'2.1383"N	80°07'58.1156"W	733.09	216.621	1.61
6565.00	41.370	219.500	6325.79	-235.99	-636.55	-476.67	1790111.36	395377.20	39°35'1.6595"N	80°07'58.6141"W	795.25	216.827	1.02
6660.00	40.750	218.940	6397.42	-252.01	-684.90	-516.13	1790071.91	395328.87	39°35'1.1790"N	80°07'59.1137"W	857.60	217.001	0.76
6755.00	41.130	219.200	6469.18	-268.14	-733.23	-555.37	1790032.68	395280.54	39°35'0.6986"N	80°07'59.6105"W	919.81	217.141	0.44
6850.00	41.650	219.760	6540.45	-283.98	-781.71	-595.30	1789992.74	395232.06	39°35'0.2167"N	80°08'0.1162"W	982.57	217.291	0.67
6945.00	41.130	219.900	6611.72	-299.45	-829.94	-635.54	1789952.51	395183.83	39°34'59.7372"N	80°08'0.6257"W	1045.33	217.443	0.56
7039.00	40.940	220.030	6682.63	-314.51	-877.24	-675.17	1789912.88	395136.53	39°34'59.2670"N	80°08'1.1277"W	1106.98	217.584	0.22
7134.00	41.770	220.670	6753.94	-329.42	-925.07	-715.82	1789872.24	395088.70	39°34'58.7914"N	80°08'1.6424"W	1169.68	217.732	0.98
7229.00	41.740	220.510	6824.81	-344.19	-973.12	-756.98	1789831.08	395040.66	39°34'58.3138"N	80°08'2.1638"W	1232.87	217.879	0.12
7323.00	41.700	220.520	6894.97	-358.87	-1020.67	-797.62	1789790.44	394993.11	39°34'57.8409"N	80°08'2.6786"W	1295.36	218.006	0.04
7418.00	40.130	220.480	6966.76	-373.49	-1067.98	-838.03	1789750.04	394945.80	39°34'57.3706"N	80°08'3.1904"W	1357.53	218.121	1.65
7513.00	39.940	220.020	7039.50	-388.11	-1114.62	-877.51	1789710.55	394899.16	39°34'56.9069"N	80°08'3.6905"W	1418.59	218.212	0.37
7608.00	40.440	220.460	7112.07	-402.78	-1161.42	-917.11	1789670.95	394852.37	39°34'56.4416"N	80°08'4.1921"W	1479.86	218.296	0.61
7703.00	40.220	220.300	7184.49	-417.35	-1208.26	-956.95	1789631.12	394805.54	39°34'55.9760"N	80°08'4.6966"W	1541.31	218.379	0.26

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Actual Wellpath Report

Green Lakes 7H-A ST01 AWP PROJ: 27558'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	MARION NATURAL ENERGY	Well	Green Lakes 7H-A ST01
Field	Monongalia	UWI	47049025610100
Facility	Green Lakes Pad	Wellbore	Green Lakes 7H-A ST01 AWB
Slot	7H-A	Sidetrack from	Green Lakes 7H-A Pilot awp Proj: 8212' at 4550.00 MD

WELLPATH DATA (300 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]
7798.00	40.480	220.390	7256.89	-431.97	-1255.13	-996.76	1789591.31	394758.66	39°34'55.5099"N	80°08'5.2009"W	1602.78	218.455	0.28
7893.00	40.530	220.550	7329.12	-446.50	-1302.08	-1036.81	1789551.26	394711.72	39°34'55.0432"N	80°08'5.7082"W	1664.45	218.530	0.12
7987.00	40.300	220.480	7400.69	-460.80	-1348.41	-1076.40	1789511.67	394665.40	39°34'54.5826"N	80°08'6.2097"W	1725.35	218.600	0.25
8082.00	38.950	225.560	7473.88	-472.46	-1392.70	-1117.68	1789470.40	394621.11	39°34'54.1420"N	80°08'6.7328"W	1785.72	218.748	3.69
8176.00	39.230	237.370	7546.94	-475.15	-1429.46	-1163.88	1789424.21	394584.35	39°34'53.7754"N	80°08'7.3195"W	1843.36	219.153	7.92
8271.00	40.220	244.670	7620.05	-467.79	-1458.80	-1216.93	1789371.16	394555.01	39°34'53.4817"N	80°08'7.9944"W	1899.74	219.835	5.02
8366.00	42.970	254.480	7691.16	-450.86	-1480.61	-1275.92	1789312.17	394533.20	39°34'53.2620"N	80°08'8.7459"W	1954.53	220.753	7.43
8460.00	45.290	265.190	7758.72	-422.40	-1492.00	-1340.17	1789247.92	394521.81	39°34'53.1450"N	80°08'9.5655"W	2005.53	221.931	8.30
8556.00	47.610	275.450	7824.95	-381.29	-1491.50	-1409.56	1789178.53	394522.32	39°34'53.1451"N	80°08'10.4517"W	2052.18	223.382	8.11
8650.00	54.010	285.800	7884.42	-328.37	-1477.81	-1480.90	1789107.20	394536.00	39°34'53.2754"N	80°08'11.3641"W	2092.13	225.060	10.90
8744.00	59.620	292.770	7935.89	-263.77	-1451.72	-1555.00	1789033.10	394562.09	39°34'53.5281"N	80°08'12.3128"W	2127.33	226.967	8.60
8839.00	63.640	298.350	7981.05	-190.35	-1415.61	-1630.32	1788957.79	394598.20	39°34'53.8796"N	80°08'13.2780"W	2159.14	229.032	6.68
8933.00	65.420	302.410	8021.49	-112.67	-1372.69	-1703.50	1788884.62	394641.12	39°34'54.2987"N	80°08'14.2165"W	2187.73	231.138	4.33
9027.00	69.670	309.860	8057.43	-30.09	-1321.45	-1773.53	1788814.59	394692.35	39°34'54.8002"N	80°08'15.1156"W	2211.70	233.310	8.60
9122.00	74.670	315.340	8086.53	58.48	-1260.23	-1840.01	1788748.12	394753.56	39°34'55.4005"N	80°08'15.9702"W	2230.20	235.592	7.60
9217.00	80.820	321.280	8106.70	150.75	-1190.94	-1901.65	1788686.48	394822.85	39°34'56.0810"N	80°08'16.7637"W	2243.79	237.942	8.90
9312.00	86.550	322.060	8117.14	245.05	-1116.90	-1960.18	1788627.95	394896.89	39°34'56.8086"N	80°08'17.5180"W	2256.05	240.326	6.09
9407.00	89.780	322.580	8120.19	339.95	-1041.76	-2018.21	1788569.92	394972.02	39°34'57.5471"N	80°08'18.2660"W	2271.22	242.698	3.44
9502.00	92.120	323.030	8118.61	434.90	-966.10	-2075.63	1788512.51	395047.68	39°34'58.2908"N	80°08'19.0062"W	2289.45	245.040	2.51
9596.00	92.460	323.840	8114.85	528.82	-890.66	-2131.58	1788456.56	395123.11	39°34'59.0324"N	80°08'19.7277"W	2310.18	247.323	0.93
9690.00	92.250	323.670	8110.99	622.74	-814.92	-2187.11	1788401.03	395198.85	39°34'59.7771"N	80°08'20.4438"W	2334.00	249.565	0.29
9785.00	92.160	323.240	8107.34	717.66	-738.65	-2243.64	1788344.51	395275.11	39°35'0.5268"N	80°08'21.1727"W	2362.10	251.777	0.46
9881.00	91.450	323.760	8104.31	813.61	-661.52	-2300.71	1788287.44	395352.24	39°35'1.2851"N	80°08'21.9087"W	2393.93	253.959	0.92
9976.00	90.550	323.640	8102.65	908.59	-584.97	-2356.95	1788231.21	395428.79	39°35'2.0377"N	80°08'22.6338"W	2428.45	256.061	0.96
10071.00	89.350	323.300	8102.74	1003.58	-508.63	-2413.49	1788174.66	395505.12	39°35'2.7881"N	80°08'23.3630"W	2466.51	258.099	1.31
10165.00	89.690	323.520	8103.53	1097.57	-433.16	-2469.52	1788118.64	395580.58	39°35'3.5300"N	80°08'24.0855"W	2507.22	260.051	0.43
10260.00	89.750	323.300	8103.99	1192.57	-356.88	-2526.15	1788062.01	395656.86	39°35'4.2799"N	80°08'24.8157"W	2551.24	261.959	0.24
10354.00	89.820	323.530	8104.34	1286.56	-281.41	-2582.18	1788005.99	395732.33	39°35'5.0218"N	80°08'25.5381"W	2597.46	263.780	0.26
10450.00	89.820	323.460	8104.64	1382.55	-204.24	-2639.29	1787948.89	395809.49	39°35'5.7804"N	80°08'26.2746"W	2647.18	265.575	0.07

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WELLPATH DATA (300 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]
10545.00	89.170	323.350	8105.48	1477.54	-127.97	-2695.92	1787892.26	395885.76	39°35'6.5302"N	80°08'27.0048"W	2698.95	267.282	0.69
10640.00	88.370	323.230	8107.52	1572.51	-51.83	-2752.69	1787835.49	395961.89	39°35'7.2787"N	80°08'27.7369"W	2753.18	268.921	0.85
10734.00	88.650	323.390	8109.96	1666.47	23.52	-2808.84	1787779.35	396037.24	39°35'8.0194"N	80°08'28.4609"W	2808.93	270.480	0.34
10829.00	88.210	324.310	8112.57	1761.43	100.20	-2864.85	1787723.33	396113.91	39°35'8.7732"N	80°08'29.1834"W	2866.61	272.003	1.07
10924.00	88.620	324.860	8115.20	1856.39	177.59	-2919.89	1787668.30	396191.30	39°35'9.5342"N	80°08'29.8933"W	2925.28	273.481	0.72
11019.00	88.770	324.830	8117.36	1951.36	255.24	-2974.57	1787613.62	396268.95	39°35'10.2978"N	80°08'30.5989"W	2985.50	274.904	0.16
11113.00	88.800	324.520	8119.35	2045.33	331.92	-3028.91	1787559.28	396345.62	39°35'11.0517"N	80°08'31.2999"W	3047.04	276.254	0.33
11208.00	88.830	324.750	8121.32	2140.31	409.37	-3083.88	1787504.31	396423.07	39°35'11.8133"N	80°08'32.0091"W	3110.94	277.562	0.24
11303.00	88.890	324.600	8123.21	2235.28	486.87	-3138.80	1787449.40	396500.56	39°35'12.5753"N	80°08'32.7177"W	3176.34	278.817	0.17
11398.00	88.770	324.820	8125.15	2330.26	564.39	-3193.67	1787394.53	396578.08	39°35'13.3376"N	80°08'33.4256"W	3243.16	280.022	0.26
11492.00	88.830	324.720	8127.12	2424.23	641.16	-3247.89	1787340.32	396654.84	39°35'14.0924"N	80°08'34.1251"W	3310.57	281.167	0.12
11587.00	89.050	324.810	8128.87	2519.21	718.74	-3302.69	1787285.52	396732.42	39°35'14.8552"N	80°08'34.8321"W	3379.99	282.277	0.25
11682.00	88.680	324.370	8130.75	2614.19	796.15	-3357.72	1787230.49	396809.83	39°35'15.6164"N	80°08'35.5421"W	3450.82	283.339	0.61
11776.00	88.920	324.810	8132.72	2708.16	872.75	-3412.17	1787176.04	396886.42	39°35'16.3695"N	80°08'36.2447"W	3522.02	284.347	0.53
11871.00	88.920	324.520	8134.51	2803.14	950.24	-3467.11	1787121.11	396963.90	39°35'17.1314"N	80°08'36.9534"W	3594.97	285.327	0.31
11966.00	89.350	324.970	8135.95	2898.12	1027.80	-3521.94	1787066.29	397041.46	39°35'17.8941"N	80°08'37.6608"W	3668.84	286.269	0.66

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Environmental Protection

Actual Wellpath Report

Green Lakes 7H-A ST01 AWP PROJ: 27558'
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REFERENCE WELLPATH IDENTIFICATION

Operator	MARION NATURAL ENERGY	Well	Green Lakes 7H-A ST01
Field	Monongalia	UWI	47049025610100
Facility	Green Lakes Pad	Wellbore	Green Lakes 7H-A ST01 AWB
Slot	7H-A	Sidetrack from	Green Lakes 7H-A Pilot awp Proj: 8212' at 4550.00 MD

WELLPATH DATA (300 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]
12060.00	90.090	324.930	8136.41	2992.11	1104.75	-3575.92	1787012.31	397118.41	39°35'18.6508"N	80°08'38.3574"W	3742.68	287.168	0.79
12153.00	90.800	324.740	8135.68	3085.10	1180.78	-3629.48	1786958.75	397194.43	39°35'19.3983"N	80°08'39.0485"W	3816.72	288.021	0.79
12248.00	90.800	325.010	8134.36	3180.08	1258.47	-3684.13	1786904.10	397272.12	39°35'20.1622"N	80°08'39.7537"W	3893.15	288.860	0.28
12343.00	90.860	324.870	8132.98	3275.06	1336.23	-3738.70	1786849.54	397349.86	39°35'20.9268"N	80°08'40.4578"W	3970.31	289.667	0.16
12438.00	90.890	324.920	8131.53	3370.04	1413.94	-3793.32	1786794.92	397427.57	39°35'21.6909"N	80°08'41.1627"W	4048.28	290.443	0.06
12532.00	90.830	324.670	8130.12	3464.02	1490.73	-3847.51	1786740.73	397504.36	39°35'22.4461"N	80°08'41.8618"W	4126.21	291.179	0.27
12627.00	90.620	324.800	8128.92	3559.01	1568.29	-3902.35	1786685.89	397581.92	39°35'23.2087"N	80°08'42.5695"W	4205.70	291.894	0.26
12721.00	92.460	324.930	8126.39	3652.96	1645.14	-3956.43	1786631.82	397658.76	39°35'23.9642"N	80°08'43.2672"W	4284.84	292.578	1.96
12816.00	90.520	323.550	8123.92	3747.92	1722.19	-4011.93	1786576.33	397735.81	39°35'24.7218"N	80°08'43.9832"W	4365.95	293.232	2.51
12911.00	92.430	323.850	8121.48	3842.88	1798.73	-4068.15	1786520.11	397812.34	39°35'25.4742"N	80°08'44.7083"W	4448.06	293.853	2.04
13006.00	92.430	323.930	8117.45	3937.80	1875.41	-4124.08	1786464.18	397889.01	39°35'26.2281"N	80°08'45.4298"W	4530.48	294.453	0.08
13100.00	92.400	323.720	8113.49	4031.71	1951.22	-4179.52	1786408.75	397964.82	39°35'26.9733"N	80°08'46.1449"W	4612.55	295.026	0.23
13196.00	92.280	323.700	8109.57	4127.63	2028.53	-4236.29	1786351.98	398042.13	39°35'27.7334"N	80°08'46.8772"W	4696.92	295.587	0.13
13290.00	92.860	323.780	8105.35	4221.53	2104.25	-4291.83	1786296.44	398117.85	39°35'28.4778"N	80°08'47.5936"W	4779.93	296.118	0.62
13385.00	92.370	323.640	8101.02	4316.43	2180.75	-4348.00	1786240.28	398194.33	39°35'29.2297"N	80°08'48.3181"W	4864.23	296.636	0.54
13480.00	93.630	324.580	8096.05	4411.30	2257.60	-4403.61	1786184.67	398271.19	39°35'29.9853"N	80°08'49.0355"W	4948.59	297.143	1.65
13575.00	90.710	326.670	8092.45	4506.18	2335.94	-4457.20	1786131.08	398349.52	39°35'30.7557"N	80°08'49.7273"W	5032.22	297.658	3.78
13671.00	90.060	325.220	8091.81	4602.13	2415.48	-4510.96	1786077.33	398429.05	39°35'31.5379"N	80°08'50.4212"W	5116.96	298.168	1.66
13765.00	94.030	325.260	8088.45	4696.03	2492.64	-4564.51	1786023.78	398506.20	39°35'32.2966"N	80°08'51.1124"W	5200.76	298.639	4.22
13860.00	94.960	324.420	8081.01	4790.73	2570.06	-4619.04	1785969.25	398583.63	39°35'33.0579"N	80°08'51.8161"W	5285.90	299.092	1.32
13954.00	92.280	323.030	8075.07	4884.53	2645.68	-4674.54	1785913.75	398659.24	39°35'33.8013"N	80°08'52.5320"W	5371.31	299.509	3.21
14050.00	94.470	324.480	8069.42	4980.35	2722.97	-4731.20	1785857.10	398736.52	39°35'34.5610"N	80°08'53.2629"W	5458.83	299.922	2.73
14144.00	94.310	324.360	8062.22	5074.07	2799.19	-4785.73	1785802.57	398812.74	39°35'35.3105"N	80°08'53.9665"W	5544.25	300.324	0.21
14239.00	92.930	323.850	8056.23	5168.88	2875.99	-4841.32	1785746.99	398889.54	39°35'36.0655"N	80°08'54.6836"W	5631.14	300.713	1.55
14334.00	93.020	324.100	8051.30	5263.75	2952.72	-4897.12	1785691.19	398966.26	39°35'36.8199"N	80°08'55.4035"W	5718.42	301.088	0.28
14429.00	93.020	324.140	8046.29	5358.62	3029.59	-4952.72	1785635.59	399043.12	39°35'37.5755"N	80°08'56.1208"W	5805.84	301.454	0.04
14523.00	92.060	324.030	8042.13	5452.53	3105.64	-5007.80	1785580.51	399119.17	39°35'38.3232"N	80°08'56.8314"W	5892.63	301.806	1.03
14619.00	92.090	323.780	8038.65	5548.46	3183.16	-5064.32	1785524.00	399196.69	39°35'39.0853"N	80°08'57.5606"W	5981.63	302.151	0.26
14714.00	93.970	325.460	8033.63	5643.32	3260.51	-5119.24	1785469.08	399274.03	39°35'39.8457"N	80°08'58.2693"W	6069.40	302.494	2.65

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WELLPATH DATA (300 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]
14808.00	93.110	323.980	8027.82	5737.13	3337.09	-5173.43	1785414.89	399350.61	39°35'40.5987"N	80°08'58.9686"W	6156.34	302.824	1.82
14903.00	91.600	324.200	8023.92	5832.05	3413.97	-5229.10	1785359.23	399427.48	39°35'41.3545"N	80°08'59.6868"W	6244.89	303.140	1.61
14999.00	91.540	324.000	8021.29	5928.01	3491.70	-5285.37	1785302.96	399505.21	39°35'42.1187"N	80°09'0.4128"W	6334.60	303.450	0.22
15092.00	91.450	324.040	8018.86	6020.98	3566.94	-5339.99	1785248.34	399580.44	39°35'42.8583"N	80°09'1.1175"W	6421.72	303.742	0.11
15187.00	91.380	323.900	8016.52	6115.95	3643.74	-5395.85	1785192.49	399657.24	39°35'43.6134"N	80°09'1.8382"W	6510.92	304.031	0.16
15282.00	90.920	323.480	8014.61	6210.93	3720.28	-5452.10	1785136.25	399733.77	39°35'44.3657"N	80°09'2.5637"W	6600.44	304.308	0.66
15376.00	90.220	323.860	8013.68	6304.92	3796.00	-5507.78	1785080.56	399809.49	39°35'45.1101"N	80°09'3.2821"W	6689.19	304.575	0.85
15470.00	90.030	323.240	8013.47	6398.92	3871.61	-5563.63	1785024.72	399885.10	39°35'45.8533"N	80°09'4.0025"W	6778.15	304.833	0.69
15566.00	89.850	323.820	8013.57	6494.91	3948.81	-5620.69	1784967.66	399962.29	39°35'46.6122"N	80°09'4.7386"W	6869.16	305.090	0.63
15661.00	89.630	324.170	8014.00	6589.91	4025.66	-5676.54	1784911.82	400039.14	39°35'47.3677"N	80°09'5.4591"W	6959.10	305.343	0.44
15756.00	88.370	323.380	8015.66	6684.89	4102.29	-5732.67	1784855.69	400115.75	39°35'48.1209"N	80°09'6.1832"W	7049.27	305.587	1.57
15851.00	89.140	323.540	8017.72	6779.86	4178.59	-5789.22	1784799.15	400192.06	39°35'48.8710"N	80°09'6.9127"W	7139.72	305.821	0.83
15945.00	89.600	323.760	8018.76	6873.85	4254.30	-5844.93	1784743.44	400267.76	39°35'49.6152"N	80°09'7.6314"W	7229.26	306.049	0.54
16039.00	89.750	323.890	8019.29	6967.85	4330.17	-5900.41	1784687.96	400343.63	39°35'50.3611"N	80°09'8.3472"W	7318.83	306.274	0.21
16134.00	90.000	323.740	8019.50	7062.85	4406.85	-5956.50	1784631.88	400420.30	39°35'51.1148"N	80°09'9.0708"W	7409.47	306.495	0.31
16229.00	89.910	323.810	8019.57	7157.85	4483.49	-6012.64	1784575.74	400496.93	39°35'51.8682"N	80°09'9.7951"W	7500.23	306.711	0.12

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Actual Wellpath Report

Green Lakes 7H-A ST01 AWP PROJ: 27558'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	MARION NATURAL ENERGY	Well	Green Lakes 7H-A ST01
Field	Monongalia	UWI	47049025610100
Facility	Green Lakes Pad	Wellbore	Green Lakes 7H-A ST01 AWB
Slot	7H-A	Sidetrack from	Green Lakes 7H-A Pilot awp Proj: 8212' at 4550.00 MD

WELLPATH DATA (300 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]
16324.00	90.090	323.620	8019.57	7252.85	4560.06	-6068.86	1784519.52	400573.51	39°35'52.6209"N	80°09'10.5204"W	7591.13	306.921	0.28
16419.00	89.380	323.250	8020.01	7347.84	4636.37	-6125.45	1784462.93	400649.80	39°35'53.3709"N	80°09'11.2505"W	7682.26	307.122	0.84
16514.00	89.450	323.440	8020.98	7442.82	4712.57	-6182.17	1784406.22	400726.01	39°35'54.1200"N	80°09'11.9820"W	7773.51	307.318	0.21
16608.00	89.290	323.070	8022.02	7536.81	4787.89	-6238.40	1784349.99	400801.32	39°35'54.8603"N	80°09'12.7074"W	7863.94	307.506	0.43
16703.00	88.950	323.650	8023.47	7631.79	4864.11	-6295.09	1784293.31	400877.53	39°35'55.6095"N	80°09'13.4386"W	7955.36	307.693	0.71
16798.00	88.520	323.900	8025.57	7726.76	4940.73	-6351.21	1784237.18	400954.15	39°35'56.3626"N	80°09'14.1628"W	8046.66	307.880	0.52
16893.00	88.000	323.580	8028.46	7821.72	5017.30	-6407.37	1784181.03	401030.71	39°35'57.1153"N	80°09'14.8873"W	8138.04	308.063	0.64
16988.00	88.860	323.300	8031.06	7916.68	5093.57	-6463.94	1784124.46	401106.98	39°35'57.8650"N	80°09'15.6171"W	8229.64	308.238	0.95
17083.00	88.920	323.520	8032.90	8011.65	5169.84	-6520.56	1784067.85	401183.24	39°35'58.6147"N	80°09'16.3475"W	8321.35	308.409	0.24
17178.00	89.010	323.830	8034.62	8106.63	5246.36	-6576.82	1784011.59	401259.76	39°35'59.3669"N	80°09'17.0734"W	8413.02	308.580	0.34
17272.00	88.800	323.440	8036.41	8200.61	5322.04	-6632.55	1783955.87	401335.44	39°36'0.1108"N	80°09'17.7923"W	8503.81	308.744	0.47
17367.00	88.980	323.470	8038.25	8295.59	5398.35	-6689.11	1783899.31	401411.74	39°36'0.8609"N	80°09'18.5219"W	8595.72	308.905	0.19
17462.00	89.260	323.560	8039.71	8390.57	5474.72	-6745.59	1783842.83	401488.11	39°36'1.6116"N	80°09'19.2506"W	8687.67	309.063	0.31
17557.00	89.450	323.330	8040.78	8485.56	5551.03	-6802.16	1783786.26	401564.41	39°36'2.3616"N	80°09'19.9805"W	8779.71	309.217	0.31
17652.00	88.550	323.300	8042.44	8580.54	5627.20	-6858.91	1783729.52	401640.58	39°36'3.1103"N	80°09'20.7126"W	8871.87	309.366	0.95
17747.00	88.550	323.210	8044.84	8675.50	5703.30	-6915.73	1783672.71	401716.67	39°36'3.8583"N	80°09'21.4455"W	8964.09	309.512	0.09
17842.00	88.710	323.540	8047.11	8770.46	5779.52	-6972.38	1783616.05	401792.89	39°36'4.6074"N	80°09'22.1764"W	9056.32	309.656	0.39
17936.00	88.460	323.920	8049.44	8864.43	5855.29	-7027.98	1783560.46	401868.65	39°36'5.3522"N	80°09'22.8937"W	9147.50	309.799	0.48
18031.00	88.240	324.130	8052.17	8959.39	5932.13	-7083.76	1783504.68	401945.49	39°36'6.1076"N	80°09'23.6135"W	9239.58	309.944	0.32
18127.00	88.280	324.450	8055.09	9055.35	6010.05	-7139.77	1783448.68	402023.40	39°36'6.8736"N	80°09'24.3363"W	9332.58	310.090	0.34
18221.00	88.210	324.880	8057.96	9149.30	6086.70	-7194.11	1783394.34	402100.04	39°36'7.6272"N	80°09'25.0377"W	9423.54	310.233	0.46
18316.00	88.090	324.450	8061.03	9244.24	6164.15	-7249.02	1783339.43	402177.50	39°36'8.3887"N	80°09'25.7465"W	9515.52	310.376	0.47
18411.00	88.310	324.920	8064.02	9339.19	6241.63	-7303.91	1783284.54	402254.97	39°36'9.1504"N	80°09'26.4550"W	9607.56	310.516	0.55
18505.00	88.890	325.020	8066.31	9433.15	6318.58	-7357.85	1783230.61	402331.92	39°36'9.9070"N	80°09'27.1513"W	9698.58	310.654	0.63
18601.00	88.950	324.770	8068.12	9529.12	6397.11	-7413.05	1783175.41	402410.44	39°36'10.6790"N	80°09'27.8638"W	9791.64	310.793	0.27
18696.00	89.170	324.810	8069.68	9624.10	6474.72	-7467.82	1783120.65	402488.04	39°36'11.4421"N	80°09'28.5708"W	9883.84	310.926	0.24
18791.00	89.380	324.480	8070.88	9719.09	6552.19	-7522.78	1783065.69	402565.51	39°36'12.2037"N	80°09'29.2802"W	9976.14	311.055	0.41
18886.00	88.400	324.700	8072.72	9814.07	6629.60	-7577.82	1783010.66	402642.92	39°36'12.9648"N	80°09'29.9906"W	10068.51	311.182	1.06
18981.00	88.210	324.330	8075.53	9909.02	6706.92	-7632.94	1782955.54	402720.23	39°36'13.7249"N	80°09'30.7021"W	10160.93	311.305	0.44

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WELLPATH DATA (300 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]
19076.00	88.490	324.860	8078.27	10003.98	6784.32	-7687.95	1782900.52	402797.63	39°36'14.4859"N	80°09'31.4122"W	10253.37	311.427	0.63
19171.00	88.460	324.230	8080.80	10098.94	6861.68	-7743.04	1782845.44	402874.98	39°36'15.2464"N	80°09'32.1232"W	10345.88	311.547	0.66
19266.00	88.400	323.940	8083.40	10193.91	6938.59	-7798.75	1782789.74	402951.89	39°36'16.0024"N	80°09'32.8421"W	10438.60	311.660	0.31
19360.00	88.650	323.720	8085.82	10287.88	7014.45	-7854.20	1782734.28	403027.74	39°36'16.7481"N	80°09'33.5577"W	10530.48	311.767	0.35
19455.00	88.150	324.580	8088.47	10382.84	7091.42	-7909.82	1782678.67	403104.71	39°36'17.5047"N	80°09'34.2755"W	10623.25	311.877	1.05
19550.00	88.210	323.960	8091.49	10477.79	7168.50	-7965.27	1782623.23	403181.78	39°36'18.2625"N	80°09'34.9911"W	10716.01	311.986	0.66
19644.00	88.460	324.760	8094.22	10571.75	7244.86	-8020.02	1782568.48	403258.14	39°36'19.0132"N	80°09'35.6978"W	10807.81	312.093	0.89
19739.00	88.280	324.840	8096.92	10666.70	7322.46	-8074.76	1782513.75	403335.73	39°36'19.7761"N	80°09'36.4044"W	10900.46	312.203	0.21
19833.00	88.210	324.650	8099.80	10760.65	7399.18	-8128.99	1782459.52	403412.45	39°36'20.5304"N	80°09'37.1045"W	10992.19	312.309	0.22
19928.00	89.080	322.720	8102.05	10855.62	7475.70	-8185.23	1782403.28	403488.97	39°36'21.2825"N	80°09'37.8302"W	11085.31	312.406	2.23
20022.00	89.260	324.700	8103.41	10949.60	7551.46	-8240.86	1782347.65	403564.72	39°36'22.0271"N	80°09'38.5481"W	11177.49	312.500	2.11
20116.00	88.460	323.930	8105.28	11043.58	7627.79	-8295.68	1782292.84	403641.05	39°36'22.7775"N	80°09'39.2556"W	11269.50	312.598	1.18
20211.00	88.610	324.890	8107.71	11138.55	7705.02	-8350.95	1782237.57	403718.27	39°36'23.5368"N	80°09'39.9690"W	11362.47	312.696	1.02
20306.00	88.580	324.700	8110.04	11233.51	7782.62	-8405.70	1782182.82	403795.87	39°36'24.2997"N	80°09'40.6759"W	11455.35	312.796	0.20
20401.00	89.420	325.820	8111.70	11328.47	7860.67	-8459.83	1782128.70	403873.91	39°36'25.0671"N	80°09'41.3747"W	11548.11	312.898	1.47
20496.00	88.370	326.010	8113.53	11423.41	7939.34	-8513.06	1782075.47	403952.57	39°36'25.8406"N	80°09'42.0622"W	11640.67	313.003	1.12

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Actual Wellpath Report

Green Lakes 7H-A ST01 AWP PROJ: 27558'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	MARION NATURAL ENERGY	Well	Green Lakes 7H-A ST01
Field	Monongalia	UWI	47049025610100
Facility	Green Lakes Pad	Wellbore	Green Lakes 7H-A ST01 AWP
Slot	7H-A	Sidetrack from	Green Lakes 7H-A Pilot awp Proj: 8212' at 4550.00 MD

WELLPATH DATA (300 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]
20591.00	88.220	324.780	8116.35	11518.34	8017.49	-8566.98	1782021.55	404030.72	39°36'26.6091"N	80°09'42.7586"W	11733.43	313.102	1.30
20686.00	88.610	325.090	8118.98	11613.29	8095.22	-8621.54	1781966.99	404108.45	39°36'27.3733"N	80°09'43.4629"W	11826.39	313.197	0.52
20781.00	88.400	324.340	8121.46	11708.25	8172.74	-8676.40	1781912.14	404185.96	39°36'28.1354"N	80°09'44.1711"W	11919.46	313.288	0.82
20875.00	88.770	324.650	8123.78	11802.22	8249.24	-8730.97	1781857.57	404262.46	39°36'28.8875"N	80°09'44.8756"W	12011.66	313.375	0.51
20969.00	89.010	324.620	8125.60	11896.20	8325.88	-8785.37	1781803.18	404339.09	39°36'29.6409"N	80°09'45.5778"W	12103.84	313.462	0.26
21063.00	88.830	324.430	8127.37	11990.18	8402.42	-8839.91	1781748.64	404415.63	39°36'30.3933"N	80°09'46.2819"W	12196.09	313.547	0.28
21157.00	88.950	324.940	8129.20	12084.16	8479.11	-8894.24	1781694.31	404492.31	39°36'31.1473"N	80°09'46.9833"W	12288.32	313.631	0.56
21252.00	89.720	324.930	8130.30	12179.14	8556.86	-8948.81	1781639.74	404570.06	39°36'31.9117"N	80°09'47.6879"W	12381.48	313.717	0.81
21347.00	89.780	325.000	8130.71	12274.13	8634.64	-9003.35	1781585.21	404647.84	39°36'32.6764"N	80°09'48.3920"W	12474.67	313.802	0.10
21441.00	90.430	324.900	8130.54	12368.12	8711.60	-9057.33	1781531.23	404724.78	39°36'33.4330"N	80°09'49.0890"W	12566.91	313.885	0.70
21536.00	90.520	325.230	8129.75	12463.10	8789.47	-9111.73	1781476.83	404802.66	39°36'34.1987"N	80°09'49.7914"W	12660.12	313.969	0.36
21630.00	90.460	323.800	8128.95	12557.09	8866.01	-9166.30	1781422.27	404879.19	39°36'34.9511"N	80°09'50.4958"W	12752.53	314.046	1.52
21725.00	89.720	323.690	8128.80	12652.09	8942.62	-9222.48	1781366.10	404955.79	39°36'35.7041"N	80°09'51.2208"W	12846.19	314.117	0.79
21820.00	89.820	323.500	8129.18	12747.08	9019.08	-9278.86	1781309.72	405032.25	39°36'36.4556"N	80°09'51.9484"W	12939.90	314.187	0.23
21914.00	89.660	323.890	8129.61	12841.08	9094.83	-9334.51	1781254.07	405107.99	39°36'37.2001"N	80°09'52.6667"W	13032.61	314.255	0.45
22009.00	89.970	324.400	8129.91	12936.08	9171.83	-9390.16	1781198.43	405184.99	39°36'37.9570"N	80°09'53.3849"W	13126.21	314.326	0.63
22104.00	89.780	323.950	8130.12	13031.08	9248.85	-9445.76	1781142.82	405262.01	39°36'38.7142"N	80°09'54.1027"W	13219.82	314.397	0.51
22198.00	89.850	323.780	8130.42	13125.08	9324.77	-9501.19	1781087.40	405337.92	39°36'39.4604"N	80°09'54.8181"W	13312.55	314.463	0.20
22293.00	90.250	323.530	8130.34	13220.07	9401.29	-9557.49	1781031.10	405414.43	39°36'40.2125"N	80°09'55.5447"W	13406.34	314.528	0.50
22388.00	91.630	324.180	8128.78	13315.06	9477.99	-9613.52	1780975.08	405491.13	39°36'40.9664"N	80°09'56.2678"W	13500.08	314.593	1.61
22483.00	91.880	324.050	8125.87	13410.01	9554.92	-9669.18	1780919.42	405568.06	39°36'41.7226"N	80°09'56.9862"W	13593.73	314.659	0.30
22578.00	92.430	324.260	8122.30	13504.94	9631.87	-9724.77	1780863.83	405645.01	39°36'42.4790"N	80°09'57.7038"W	13687.37	314.725	0.62
22672.00	91.850	322.900	8118.79	13598.87	9707.46	-9780.54	1780808.07	405720.59	39°36'43.2219"N	80°09'58.4235"W	13780.19	314.785	1.57
22767.00	93.080	323.680	8114.71	13693.77	9783.55	-9837.27	1780751.34	405796.67	39°36'43.9697"N	80°09'59.1557"W	13874.06	314.843	1.53
22862.00	92.900	323.650	8109.75	13788.64	9859.97	-9893.48	1780695.13	405873.09	39°36'44.7209"N	80°09'59.8811"W	13967.82	314.903	0.19
22957.00	92.250	323.720	8105.48	13883.54	9936.44	-9949.69	1780638.93	405949.56	39°36'45.4725"N	80°10'0.6065"W	14061.62	314.962	0.69
23052.00	92.520	324.100	8101.53	13978.46	10013.14	-10005.60	1780583.02	406026.25	39°36'46.2264"N	80°10'1.3282"W	14155.39	315.022	0.49
23147.00	92.340	323.690	8097.50	14073.37	10089.83	-10061.53	1780527.10	406102.93	39°36'46.9802"N	80°10'2.0501"W	14249.18	315.080	0.47
23241.00	92.400	322.970	8093.61	14167.28	10165.16	-10117.62	1780471.01	406178.26	39°36'47.7205"N	80°10'2.7739"W	14342.13	315.134	0.77

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WELLPATH DATA (300 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]
23336.00	92.890	325.220	8089.23	14262.18	10242.02	-10173.27	1780415.36	406255.12	39°36'48.4760"N	80°10'3.4923"W	14435.87	315.193	2.42
23431.00	92.520	324.130	8084.75	14357.06	10319.44	-10228.13	1780360.50	406332.53	39°36'49.2371"N	80°10'4.2007"W	14529.47	315.255	1.21
23525.00	92.560	324.100	8080.58	14450.97	10395.53	-10283.18	1780305.46	406408.61	39°36'49.9850"N	80°10'4.9113"W	14622.27	315.311	0.05
23619.00	92.490	324.300	8076.44	14544.88	10471.69	-10338.11	1780250.53	406484.77	39°36'50.7337"N	80°10'5.6205"W	14715.06	315.368	0.23
23713.00	92.460	323.870	8072.38	14638.79	10547.75	-10393.20	1780195.44	406560.83	39°36'51.4813"N	80°10'6.3316"W	14807.89	315.423	0.46
23808.00	92.430	324.250	8068.33	14733.71	10624.60	-10448.91	1780139.74	406637.67	39°36'52.2366"N	80°10'7.0507"W	14901.73	315.478	0.40
23902.00	93.270	324.240	8063.65	14827.59	10700.78	-10503.77	1780084.89	406713.85	39°36'52.9856"N	80°10'7.7589"W	14994.53	315.532	0.89
23997.00	93.200	324.300	8058.29	14922.44	10777.78	-10559.15	1780029.50	406790.84	39°36'53.7424"N	80°10'8.4740"W	15088.28	315.587	0.10
24091.00	93.300	324.250	8052.96	15016.28	10853.97	-10613.95	1779974.71	406867.03	39°36'54.4913"N	80°10'9.1814"W	15181.06	315.641	0.12
24185.00	92.430	324.160	8048.26	15110.17	10930.12	-10668.86	1779919.80	406943.17	39°36'55.2398"N	80°10'9.8903"W	15273.90	315.693	0.93
24280.00	93.200	324.400	8043.60	15205.05	11007.15	-10724.26	1779864.41	407020.20	39°36'55.9971"N	80°10'10.6055"W	15367.73	315.746	0.85
24375.00	93.170	324.320	8038.32	15299.90	11084.24	-10779.53	1779809.14	407097.28	39°36'56.7548"N	80°10'11.3191"W	15461.52	315.798	0.09
24469.00	93.260	324.200	8033.05	15393.75	11160.42	-10834.35	1779754.32	407173.46	39°36'57.5036"N	80°10'12.0268"W	15554.36	315.849	0.16
24564.00	93.260	324.180	8027.65	15488.60	11237.33	-10889.84	1779698.83	407250.37	39°36'58.2597"N	80°10'12.7432"W	15648.21	315.900	0.02
24659.00	93.390	324.030	8022.14	15583.44	11314.16	-10945.45	1779643.23	407327.19	39°36'59.0149"N	80°10'13.4611"W	15742.08	315.949	0.21
24754.00	93.600	324.590	8016.35	15678.26	11391.18	-11000.77	1779587.91	407404.20	39°36'59.7719"N	80°10'14.1753"W	15835.90	315.999	0.63

Actual Wellpath Report

Green Lakes 7H-A ST01 AWP PROJ: 27558'
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REFERENCE WELLPATH IDENTIFICATION

Operator	MARION NATURAL ENERGY	Well	Green Lakes 7H-A ST01
Field	Monongalia	UWI	47049025610100
Facility	Green Lakes Pad	Wellbore	Green Lakes 7H-A ST01 AWP
Slot	7H-A	Sidetrack from	Green Lakes 7H-A Pilot awp Proj: 8212' at 4550.00 MD

WELLPATH DATA (300 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]
24849.00	93.540	324.130	8010.43	15773.08	11468.23	-11056.01	1779532.67	407481.25	39°37'0.5293"N	80°10'14.8886"W	15929.71	316.048	0.49
24943.00	93.540	324.090	8004.63	15866.90	11544.24	-11111.02	1779477.67	407557.26	39°37'1.2764"N	80°10'15.5987"W	16022.61	316.096	0.04
25038.00	92.890	324.230	7999.30	15961.75	11621.13	-11166.55	1779422.14	407634.14	39°37'2.0322"N	80°10'16.3157"W	16116.53	316.143	0.70
25131.00	92.460	324.490	7994.96	16054.64	11696.63	-11220.68	1779368.01	407709.64	39°37'2.7744"N	80°10'17.0146"W	16208.48	316.190	0.54
25226.00	92.590	324.010	7990.77	16149.55	11773.65	-11276.13	1779312.57	407786.66	39°37'3.5315"N	80°10'17.7305"W	16302.46	316.237	0.52
25321.00	91.690	324.120	7987.22	16244.48	11850.52	-11331.85	1779256.86	407863.52	39°37'4.2870"N	80°10'18.4498"W	16396.51	316.282	0.95
25416.00	91.630	323.790	7984.47	16339.44	11927.30	-11387.72	1779200.98	407940.29	39°37'5.0417"N	80°10'19.1711"W	16490.62	316.326	0.35
25510.00	91.110	323.960	7982.23	16433.42	12003.20	-11443.12	1779145.58	408016.19	39°37'5.7877"N	80°10'19.8863"W	16583.79	316.368	0.58
25604.00	90.950	323.670	7980.54	16527.40	12079.06	-11498.61	1779090.10	408092.04	39°37'6.5333"N	80°10'20.6026"W	16676.98	316.410	0.35
25699.00	91.970	324.700	7978.12	16622.37	12156.07	-11554.18	1779034.53	408169.05	39°37'7.2902"N	80°10'21.3201"W	16771.08	316.454	1.53
25795.00	91.390	323.980	7975.30	16718.32	12234.03	-11610.12	1778978.59	408247.01	39°37'8.0566"N	80°10'22.0424"W	16866.14	316.499	0.96
25889.00	90.920	323.890	7973.41	16812.30	12310.00	-11665.45	1778923.27	408322.97	39°37'8.8033"N	80°10'22.7567"W	16959.33	316.540	0.51
25985.00	90.490	324.020	7972.22	16908.30	12387.62	-11721.93	1778866.79	408400.58	39°37'9.5661"N	80°10'23.4859"W	17054.53	316.582	0.47
26080.00	90.520	323.890	7971.39	17003.29	12464.43	-11777.83	1778810.90	408477.39	39°37'10.3211"N	80°10'24.2075"W	17148.74	316.622	0.14
26175.00	90.400	324.110	7970.62	17098.29	12541.28	-11833.67	1778755.06	408554.24	39°37'11.0765"N	80°10'24.9284"W	17242.96	316.663	0.26
26270.00	89.910	323.740	7970.37	17193.29	12618.07	-11889.61	1778699.13	408631.02	39°37'11.8311"N	80°10'25.6506"W	17337.20	316.703	0.65
26365.00	90.150	323.910	7970.32	17288.29	12694.75	-11945.68	1778643.05	408707.70	39°37'12.5848"N	80°10'26.3745"W	17431.47	316.741	0.31
26460.00	89.970	323.950	7970.22	17383.29	12771.54	-12001.62	1778587.12	408784.48	39°37'13.3396"N	80°10'27.0967"W	17525.73	316.780	0.19
26556.00	89.970	323.960	7970.27	17479.28	12849.16	-12058.11	1778530.64	408862.10	39°37'14.1025"N	80°10'27.8260"W	17620.98	316.819	0.01
26650.00	90.000	324.310	7970.29	17573.28	12925.34	-12113.18	1778475.57	408938.27	39°37'14.8512"N	80°10'28.5370"W	17714.22	316.858	0.37
26745.00	90.090	323.970	7970.22	17668.28	13002.33	-12168.83	1778419.92	409015.26	39°37'15.6080"N	80°10'29.2556"W	17808.45	316.897	0.37
26841.00	89.450	323.470	7970.60	17764.28	13079.72	-12225.63	1778363.12	409092.64	39°37'16.3686"N	80°10'29.9889"W	17903.78	316.933	0.85
26935.00	89.510	323.920	7971.46	17858.27	13155.47	-12281.29	1778307.47	409168.39	39°37'17.1131"N	80°10'30.7074"W	17997.12	316.968	0.48
27030.00	89.600	323.960	7972.19	17953.27	13232.26	-12337.21	1778251.56	409245.18	39°37'17.8679"N	80°10'31.4294"W	18091.42	317.005	0.10
27125.00	89.510	323.760	7972.93	18048.27	13308.98	-12393.23	1778195.53	409321.89	39°37'18.6219"N	80°10'32.1527"W	18185.74	317.041	0.23
27220.00	89.350	323.390	7973.88	18143.26	13385.42	-12449.64	1778139.13	409398.32	39°37'19.3731"N	80°10'32.8808"W	18280.12	317.074	0.42
27315.00	89.140	323.940	7975.13	18238.25	13461.94	-12505.92	1778082.85	409474.84	39°37'20.1251"N	80°10'33.6074"W	18374.49	317.108	0.62
27505.00	89.230	324.100	7977.83	18428.23	13615.68	-12617.53	1777971.25	409628.57	39°37'21.6362"N	80°10'35.0486"W	18563.10	317.179	0.10
27533.00	89.230	323.820	7978.21	18456.23	13638.31	-12634.01	1777954.77	409651.20	39°37'21.8587"N	80°10'35.2612"W	18590.91	317.189	1.00

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WELLPATH DATA (300 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]
27558.00†	89.230	323.820	7978.54	18481.22	13658.49	-12648.76	1777940.02	409671.38	39°37'22.0570"N	80°10'35.4518"W	18615.74	317.198	0.00

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Actual Wellpath Report

Green Lakes 7H-A ST01 AWP PROJ: 27558'
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REFERENCE WELLPATH IDENTIFICATION

Operator	MARION NATURAL ENERGY	Well	Green Lakes 7H-A ST01
Field	Monongalia	UWI	47049025610100
Facility	Green Lakes Pad	Wellbore	Green Lakes 7H-A ST01 AWB
Slot	7H-A	Sidetrack from	Green Lakes 7H-A Pilot awp Proj: 8212' at 4550.00 MD

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Green Lakes 7H-A ST01 BHL rev 1	8075.00	13653.12	-12656.60	1777932.18	409666.00	39°37'22.0033"N	80°10'35.5514"W	point
Green Lakes 7H-A ST01 LP rev 1	8075.00	-1131.08	-1949.51	1788638.62	394882.71	39°34'56.6692"N	80°08'17.3804"W	point
Green Lakes Hard Line (9.10.2024)	9025.00	6608.59	-10661.94	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.W (10.14.2025)	15025.00	13557.69	-16019.59	1774569.40	409570.58	39°37'20.8077"N	80°11'18.5184"W	polygon
2D Polygon:: dimensions not calculated								

WELLPATH COMPOSITION - Ref Wellbore: Green Lakes 7H-A ST01 AWB Ref Wellpath: Green Lakes 7H-A ST01 AWP PROJ: 27558'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	750.00	BH Generic gyro - northseeking (Standard)	1 Imported Gyro 50' -750'	Green Lakes 7H-A Pilot AWB	2025-09-12
750.00	4550.00	OWSG MWD rev2 + HRGM	2 OWSG MWD 963' - 8126'	Green Lakes 7H-A Pilot AWB	
4550.00	27558.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	1 BH ATC HRGM Short spacing 4578' - 27533'	Green Lakes 7H-A ST01 AWB	2025-10-21

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